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**SUB HEAD : 27.0**

**WET RISER & SPRINKLER SYSTEM**

**FOR FIRE SAFETY**

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## 27.0 Wet Riser &amp; Sprinkler System for Fire Safety

| ICD No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| 1       | Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required :Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.Suitable cement concrete foundation duly plastered with anti vibration pads. |      |      |           |           |
| 1.1     | 2850 lpm at 88 m Head                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           |           |
| 4291    | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 88 m Head conforming to IS 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |           |           |
|         | Cost of 100 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325 i/c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |           |           |
|         | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each | 1.00 | 331000.00 | 331000.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cum  | 0.48 | 4500.00   | 2160.00   |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      | Total     | 333160.00 |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           | 3331.60   |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      | Total     | 336491.60 |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |           |           |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | day  | 2.00 | 420.00    | 840.00    |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | day  | 2.00 | 463.00    | 926.00    |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           | 340705.60 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |           | 47869.14  |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           | 388574.74 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |           | 58286.21  |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           | 446860.95 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |           | 4468.61   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |           | 451329.56 |
|         | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           | 451330.00 |
| 1.2     | 2850 lpm at 70 m Head                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           |           |
|         | (a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 70 m Head conforming to IS 1520.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |           |           |
|         | (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           |           |














| ICD No.    | Description                                                                                                                                                                                  | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| 4292       | (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads.                                                                                                | Each | 1.00 | 295000.00 | 295000.00 |
| 4320       | (d) Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks.                                                                               | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                              |      |      | Total     | 297160.00 |
|            | Cartage @1% of A                                                                                                                                                                             |      |      |           | 2971.60   |
|            |                                                                                                                                                                                              |      |      | Total     | 300131.60 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                |      |      |           |           |
| 0116       | Fitter, Grade-1                                                                                                                                                                              | day  | 2.00 | 420.00    | 840.00    |
| 0L15       | Welder                                                                                                                                                                                       | day  | 2.00 | 463.00    | 926.00    |
| 0161       | Helper                                                                                                                                                                                       | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                        |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                             |      |      |           | 304345.60 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                     |      |      |           | 42760.56  |
|            |                                                                                                                                                                                              |      |      | Total     | 347106.16 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                           |      |      |           | 52065.92  |
|            | Total                                                                                                                                                                                        |      |      |           | 399172.08 |
|            | add 1% labour cess                                                                                                                                                                           |      |      |           | 3991.72   |
|            | Rate of Each                                                                                                                                                                                 |      |      |           | 403163.80 |
|            | Say                                                                                                                                                                                          |      |      |           | 403164.00 |
| <b>1.3</b> | <b>2850 lpm at 56 m Head</b>                                                                                                                                                                 |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                             |      |      |           |           |
|            | (a) Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 56 m Head conforming to IS 1520 |      |      |           |           |
|            | (b) Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.                                         |      |      |           |           |
| 4293       | (c) Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 294000.00 | 294000.00 |
| 4320       | (d) Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                              |      |      | Total     | 296160.00 |
|            | Cartage @1% of A                                                                                                                                                                             |      |      |           | 2961.60   |
|            |                                                                                                                                                                                              |      |      | Total     | 299121.60 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                |      |      |           |           |
| 0116       | Fitter, Grade 1                                                                                                                                                                              | day  | 2.00 | 420.00    | 840.00    |
| 0L15       | Welder                                                                                                                                                                                       | day  | 2.00 | 463.00    | 926.00    |
| 0161       | Helper                                                                                                                                                                                       | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                        |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                             |      |      |           | 303335.60 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                     |      |      |           | 42618.65  |
|            |                                                                                                                                                                                              |      |      | Total     | 345954.25 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                           |      |      |           | 51893.14  |
|            | Total                                                                                                                                                                                        |      |      |           | 397847.39 |
|            | add 1% labour cess                                                                                                                                                                           |      |      |           | 3978.47   |
|            | Rate of Each                                                                                                                                                                                 |      |      |           | 401825.86 |
|            | Say                                                                                                                                                                                          |      |      |           | 401826.00 |



| ICD No.    | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| <b>1.4</b> | <b>2280 lpm at 88 m Head</b>                                                                                                                                                             |      |      |           |           |
| A          | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 88 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4294       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 294000.00 | 294000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 296160.00 |
|            | Cartage @1% of A                                                                                                                                                                         |      |      |           | 2961.60   |
|            |                                                                                                                                                                                          |      |      | Total     | 299121.60 |
| B          | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 0116       | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 0L15       | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 0161       | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 303335.60 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 42618.65  |
|            |                                                                                                                                                                                          |      |      | Total     | 345954.25 |
| C          | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 51893.14  |
|            | Total                                                                                                                                                                                    |      |      |           | 397847.39 |
|            | add 1% labour cess                                                                                                                                                                       |      |      |           | 3978.47   |
|            | Rate of Each                                                                                                                                                                             |      |      |           | 401825.86 |
|            | Say                                                                                                                                                                                      |      |      |           | 401826.00 |
| <b>1.5</b> | <b>2280 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| A          | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 70 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4295       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 268000.00 | 268000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 270160.00 |
|            | Cartage @1% of A                                                                                                                                                                         |      |      |           | 2701.60   |
|            |                                                                                                                                                                                          |      |      | Total     | 272861.60 |
| B          | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 0116       | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 0L15       | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 0161       | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 277075.60 |












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| ICD No.    | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 38929.12  |
|            |                                                                                                                                                                                          |      |      | Total     | 316004.72 |
| C          | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 47400.71  |
|            | Total                                                                                                                                                                                    |      |      |           | 363405.43 |
|            | add 1% labour cess                                                                                                                                                                       |      |      |           | 3634.05   |
|            | Rate of Each                                                                                                                                                                             |      |      |           | 367039.48 |
|            | Say                                                                                                                                                                                      |      |      |           | 367039.00 |
| <b>1.6</b> | <b>2280 lpm at 56 m Head</b>                                                                                                                                                             |      |      |           |           |
| A          | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 56 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4296       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 240000.00 | 240000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5 mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 242160.00 |
|            | Cartage @1% of A                                                                                                                                                                         |      |      |           | 2421.60   |
|            |                                                                                                                                                                                          |      |      | Total     | 244581.60 |
| B          | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087       | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025       | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 248795.60 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 34955.78  |
|            |                                                                                                                                                                                          |      |      | Total     | 283751.38 |
| C          | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 42562.71  |
|            | Total                                                                                                                                                                                    |      |      |           | 326314.09 |
|            | add 1% labour cess                                                                                                                                                                       |      |      |           | 3263.14   |
|            | Rate of Each                                                                                                                                                                             |      |      |           | 329577.23 |
|            | Say                                                                                                                                                                                      |      |      |           | 329577.00 |
| <b>1.7</b> | <b>1620 lpm at 88 m Head</b>                                                                                                                                                             |      |      |           |           |
| A          | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 88 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4297       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 268000.00 | 268000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.48 | 4500.00   | 2160.00   |

| ICD No. | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         |                                                                                                                                                                                          |      |      | Total     | 270160.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 2701.60   |
|         |                                                                                                                                                                                          |      |      | Total     | 272861.60 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 277075.60 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 38929.12  |
|         |                                                                                                                                                                                          |      |      | Total     | 316004.72 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 47400.71  |
|         | Total                                                                                                                                                                                    |      |      |           | 363405.43 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 3634.05   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 367039.48 |
|         | Say                                                                                                                                                                                      |      |      |           | 367039.00 |
| 1.8     | <b>1620 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 70m Head conforming to IS 1520  |      |      |           |           |
|         | Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4298    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 240000.00 | 240000.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.48 | 4500.00   | 2160.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 242160.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 2421.60   |
|         |                                                                                                                                                                                          |      |      | Total     | 244581.60 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 248795.60 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 34955.78  |
|         |                                                                                                                                                                                          |      |      | Total     | 283751.38 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 42562.71  |
|         | Total                                                                                                                                                                                    |      |      |           | 326314.09 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 3263.14   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 329577.23 |
|         | Say                                                                                                                                                                                      |      |      |           | 329577.00 |
| 1.9     | <b>1620 lpm at 56 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 56 m Head conforming to IS 1520 |      |      |           |           |














| ICD No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|            | Cost of 40 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           |           |
| 4299       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1.00 | 204000.00 | 204000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum  | 0.48 | 4500.00   | 2160.00   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      | Total     | 206160.00 |
|            | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |           | 2061.60   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      | Total     | 208221.60 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |      |           |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | day  | 2.00 | 420.00    | 840.00    |
| 1087       | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | day  | 2.00 | 463.00    | 926.00    |
| 1025       | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |           | 212435.60 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |           | 29847.20  |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      | Total     | 242282.80 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |           | 36342.42  |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |           | 278625.22 |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |           | 2786.25   |
|            | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           | 281411.47 |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |           | 281411.00 |
| <b>2</b>   | <b>Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump) Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required. M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti vibration pads.</b> |      |      |           |           |
| <b>2.1</b> | <b>2850 lpm at 88 m Head</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 88 m Head conforming to IS 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |           |           |
|            | Cost of 100 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           |           |
| 4300       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1.00 | 505000.00 | 505000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum  | 0.80 | 4500.00   | 3600.00   |

| ICD No. | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         |                                                                                                                                                                                          |      |      | Total     | 508600.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 5086.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 513686.00 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 517900.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 72764.95  |
|         |                                                                                                                                                                                          |      |      | Total     | 590664.95 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 88599.74  |
|         | Total                                                                                                                                                                                    |      |      |           | 679264.69 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 6792.65   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 686057.34 |
|         | Say                                                                                                                                                                                      |      |      |           | 686057.00 |
| 2.2     | <b>2850 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 70 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4301    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 453700.00 | 453700.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 457300.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4573.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 461873.00 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 466087.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 65485.22  |
|         |                                                                                                                                                                                          |      |      | Total     | 531572.22 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 79735.83  |
|         | Total                                                                                                                                                                                    |      |      |           | 611308.06 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 6113.08   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 617421.14 |
|         | Say                                                                                                                                                                                      |      |      |           | 617421.00 |
| 2.3     | <b>2850 lpm at 56 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2850 lpm at 56 m Head conforming to IS 1520 |      |      |           |           |














| ICD No. | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         | Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4302    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 451000.00 | 451000.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 454600.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4546.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 459146.00 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 463360.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 65102.08  |
|         |                                                                                                                                                                                          |      |      | Total     | 528462.08 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 79269.31  |
|         | Total                                                                                                                                                                                    |      |      |           | 607731.39 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 6077.31   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 613808.71 |
|         | Say                                                                                                                                                                                      |      |      |           | 613809.00 |
| 2.4     | <b>2280 lpm at 88 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 88 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of 75 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4303    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 468000.00 | 468000.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 471600.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4716.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 476316.00 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 480530.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 67514.47  |
|         |                                                                                                                                                                                          |      |      | Total     | 548044.47 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 82206.67  |
|         | Total                                                                                                                                                                                    |      |      |           | 630251.13 |

| ICD No.    | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|            | add 1% labour cess                                                                                                                                                                       |      |      |           | 6302.51   |
|            | Rate of Each                                                                                                                                                                             |      |      |           | 636553.65 |
|            | Say                                                                                                                                                                                      |      |      |           | 636554.00 |
| <b>2.5</b> | <b>2280 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 70 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4304       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 450000.00 | 450000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 453600.00 |
|            | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4536.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 458136.00 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087       | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025       | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 462350.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 64960.18  |
|            |                                                                                                                                                                                          |      |      | Total     | 527310.18 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                       |      |      |           | 79096.53  |
|            | Total                                                                                                                                                                                    |      |      |           | 606406.70 |
|            | add 1% labour cess                                                                                                                                                                       |      |      |           | 6064.07   |
|            | Rate of Each                                                                                                                                                                             |      |      |           | 612470.77 |
|            | Say                                                                                                                                                                                      |      |      |           | 612471.00 |
| <b>2.6</b> | <b>2280 lpm at 56 m Head</b>                                                                                                                                                             |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 2280 lpm at 56 m Head conforming to IS 1520 |      |      |           |           |
|            | Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4305       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 448000.00 | 448000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 451600.00 |
|            | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4516.00   |
|            |                                                                                                                                                                                          |      |      | Total     | 456116.00 |
















| ICD No. | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 460330.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 64676.37  |
|         |                                                                                                                                                                                          |      |      | Total     | 525006.37 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 78750.95  |
|         | Total                                                                                                                                                                                    |      |      |           | 603757.32 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 6037.57   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 609794.89 |
|         | Say                                                                                                                                                                                      |      |      |           | 609795.00 |
| 2.7     | <b>1620 lpm at 88 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 88 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of 60 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |
| 4306    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                 | Each | 1.00 | 463100.00 | 463100.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                | Cum  | 0.80 | 4500.00   | 3600.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 466700.00 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |           | 4667.00   |
|         |                                                                                                                                                                                          |      |      | Total     | 471367.00 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                          | day  | 2.00 | 420.00    | 840.00    |
| 1087    | Welder                                                                                                                                                                                   | day  | 2.00 | 463.00    | 926.00    |
| 1025    | Helper                                                                                                                                                                                   | day  | 8.00 | 306.00    | 2448.00   |
|         | Total                                                                                                                                                                                    |      |      |           | 4214.00   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |           | 475581.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |           | 66819.13  |
|         |                                                                                                                                                                                          |      |      | Total     | 542400.13 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |           | 81360.02  |
|         | Total                                                                                                                                                                                    |      |      |           | 623760.15 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |           | 6237.60   |
|         | Rate of Each                                                                                                                                                                             |      |      |           | 629997.75 |
|         | Say                                                                                                                                                                                      |      |      |           | 629998.00 |
| 2.8     | <b>1620 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 70 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of 50 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                        |      |      |           |           |



| ICD No.    | Description                                                                                                                                                                                                          | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| 4307       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                             | Each | 1.00 | 435000.00 | 435000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                            | Cum  | 0.80 | 4500.00   | 3600.00   |
|            |                                                                                                                                                                                                                      |      |      | Total     | 438600.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                             |      |      |           | 4386.00   |
|            |                                                                                                                                                                                                                      |      |      | Total     | 442986.00 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                        |      |      |           |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                                                      | day  | 2.00 | 420.00    | 840.00    |
| 1087       | Welder                                                                                                                                                                                                               | day  | 2.00 | 463.00    | 926.00    |
| 1025       | Helper                                                                                                                                                                                                               | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                                                |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                                                     |      |      |           | 447200.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                             |      |      |           | 62831.60  |
|            |                                                                                                                                                                                                                      |      |      | Total     | 510031.60 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                   |      |      |           | 76504.74  |
|            | Total                                                                                                                                                                                                                |      |      |           | 586536.34 |
|            | add 1% labour cess                                                                                                                                                                                                   |      |      |           | 5865.36   |
|            | Rate of Each                                                                                                                                                                                                         |      |      |           | 592401.70 |
|            | Say                                                                                                                                                                                                                  |      |      |           | 592402.00 |
| <b>2.9</b> | <b>1620 lpm at 56 m Head</b>                                                                                                                                                                                         |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                     |      |      |           |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 1620 lpm at 56 m Head conforming to IS 1520                             |      |      |           |           |
|            | Cost of 40 HP SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                                                    |      |      |           |           |
| 4308       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                             | Each | 1.00 | 375000.00 | 375000.00 |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                            | Cum  | 0.80 | 4500.00   | 3600.00   |
|            |                                                                                                                                                                                                                      |      |      | Total     | 378600.00 |
|            | Cartage @1% of A                                                                                                                                                                                                     |      |      |           | 3786.00   |
|            |                                                                                                                                                                                                                      |      |      | Total     | 382386.00 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                        |      |      |           |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                                                      | day  | 2.00 | 420.00    | 840.00    |
| 1087       | Welder                                                                                                                                                                                                               | day  | 2.00 | 463.00    | 926.00    |
| 1025       | Helper                                                                                                                                                                                                               | day  | 8.00 | 306.00    | 2448.00   |
|            | Total                                                                                                                                                                                                                |      |      |           | 4214.00   |
|            | Total of A+B Rs.                                                                                                                                                                                                     |      |      |           | 386600.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                             |      |      |           | 54317.30  |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                   |      |      |           | 66137.60  |
|            | Total                                                                                                                                                                                                                |      |      |           | 507054.90 |
|            | add 1% labour cess                                                                                                                                                                                                   |      |      |           | 5070.55   |
|            | Rate of Each                                                                                                                                                                                                         |      |      |           | 512125.44 |
|            | Say                                                                                                                                                                                                                  |      |      |           | 512125.00 |
| <b>3</b>   | <b>Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump)</b> |      |      |           |           |














| ICD No.                                                                                                                                                                                                                                            | Description                                                                                                                                                                             | Unit | Qty. | Rate ₹   | Amount ₹  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|-----------|
| (a) Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520.                                                                                       |                                                                                                                                                                                         |      |      |          |           |
| (b) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325. |                                                                                                                                                                                         |      |      |          |           |
| (c) M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.                                                                                                                                                 |                                                                                                                                                                                         |      |      |          |           |
| (d) Suitable cement concrete foundation duly plastered and with anti vibration pads.                                                                                                                                                               |                                                                                                                                                                                         |      |      |          |           |
| 3.1                                                                                                                                                                                                                                                | 180 lpm at 88 m Head                                                                                                                                                                    |      |      |          |           |
| A                                                                                                                                                                                                                                                  | Materials                                                                                                                                                                               |      |      |          |           |
|                                                                                                                                                                                                                                                    | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 88 m Head conforming to IS 1520 |      |      |          |           |
|                                                                                                                                                                                                                                                    | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                             |      |      |          |           |
| 4309                                                                                                                                                                                                                                               | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                | Each | 1.00 | 90000.00 | 90000.00  |
| 4320                                                                                                                                                                                                                                               | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.36 | 4500.00  | 1620.00   |
|                                                                                                                                                                                                                                                    |                                                                                                                                                                                         |      |      | Total    | 91620.00  |
|                                                                                                                                                                                                                                                    | Cartage @1% of A                                                                                                                                                                        |      |      |          | 916.20    |
|                                                                                                                                                                                                                                                    |                                                                                                                                                                                         |      |      | Total    | 92536.20  |
| B                                                                                                                                                                                                                                                  | Labour                                                                                                                                                                                  |      |      |          |           |
| 1004                                                                                                                                                                                                                                               | Fitter, Grade 1                                                                                                                                                                         | day  | 1.50 | 420.00   | 630.00    |
| 1087                                                                                                                                                                                                                                               | Welder                                                                                                                                                                                  | day  | 1.50 | 463.00   | 694.50    |
| 1025                                                                                                                                                                                                                                               | Helper                                                                                                                                                                                  | day  | 3.00 | 306.00   | 918.00    |
|                                                                                                                                                                                                                                                    | Total                                                                                                                                                                                   |      |      |          | 2242.50   |
|                                                                                                                                                                                                                                                    | Total of A+B Rs.                                                                                                                                                                        |      |      |          | 94778.70  |
|                                                                                                                                                                                                                                                    | Add 12% GST (MF= 0.1405)                                                                                                                                                                |      |      |          | 13316.41  |
|                                                                                                                                                                                                                                                    |                                                                                                                                                                                         |      |      | Total    | 108095.11 |
| C                                                                                                                                                                                                                                                  | Overhead & Profit @ 15%                                                                                                                                                                 |      |      |          | 16214.27  |
|                                                                                                                                                                                                                                                    | Total                                                                                                                                                                                   |      |      |          | 124309.37 |
|                                                                                                                                                                                                                                                    | add 1% labour cess                                                                                                                                                                      |      |      |          | 1243.09   |
|                                                                                                                                                                                                                                                    | Rate of Each                                                                                                                                                                            |      |      |          | 125552.47 |
|                                                                                                                                                                                                                                                    | Say                                                                                                                                                                                     |      |      |          | 125552.00 |
| 3.2                                                                                                                                                                                                                                                | 180 lpm at 70 m Head                                                                                                                                                                    |      |      |          |           |
| A                                                                                                                                                                                                                                                  | Materials                                                                                                                                                                               |      |      |          |           |
|                                                                                                                                                                                                                                                    | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 70 m Head conforming to IS 1520 |      |      |          |           |
|                                                                                                                                                                                                                                                    | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                             |      |      |          |           |
| 4310                                                                                                                                                                                                                                               | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                | Each | 1.00 | 72000.00 | 72000.00  |

| ICD No.    | Description                                                                                                                                                                             | Unit | Qty. | Rate ₹   | Amount ₹  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|-----------|
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.36 | 4500.00  | 1620.00   |
|            |                                                                                                                                                                                         |      |      | Total    | 73620.00  |
|            | Cartage @1% of A                                                                                                                                                                        |      |      |          | 736.20    |
|            |                                                                                                                                                                                         |      |      | Total    | 74356.20  |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                           |      |      |          |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                         | day  | 1.50 | 420.00   | 630.00    |
| 1087       | Welder                                                                                                                                                                                  | day  | 1.50 | 463.00   | 694.50    |
| 1025       | Helper                                                                                                                                                                                  | day  | 3.00 | 306.00   | 918.00    |
|            | Total                                                                                                                                                                                   |      |      |          | 2242.50   |
|            | Total of A+B Rs.                                                                                                                                                                        |      |      |          | 76598.70  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                |      |      |          | 10762.12  |
|            |                                                                                                                                                                                         |      |      | Total    | 87360.82  |
| <b>C</b>   | Overhead & Profit @ 15%                                                                                                                                                                 |      |      |          | 13104.12  |
|            | Total                                                                                                                                                                                   |      |      |          | 100464.94 |
|            | add 1% labour cess                                                                                                                                                                      |      |      |          | 1004.65   |
|            | Rate of Each                                                                                                                                                                            |      |      |          | 101469.59 |
|            | Say                                                                                                                                                                                     |      |      |          | 101470.00 |
| <b>3.3</b> | <b>180 lpm at 56 m Head</b>                                                                                                                                                             |      |      |          |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                        |      |      |          |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 180 lpm at 56 m Head conforming to IS 1520 |      |      |          |           |
|            | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                             |      |      |          |           |
| 4311       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                | Each | 1.00 | 56000.00 | 56000.00  |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.36 | 4500.00  | 1620.00   |
|            | Cartage @1% of A                                                                                                                                                                        |      |      | Total    | 57620.00  |
|            |                                                                                                                                                                                         |      |      |          | 576.20    |
|            |                                                                                                                                                                                         |      |      | Total    | 58196.20  |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                           |      |      |          |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                         | day  | 1.50 | 420.00   | 630.00    |
| 1087       | Welder                                                                                                                                                                                  | day  | 1.50 | 463.00   | 694.50    |
| 1025       | Helper                                                                                                                                                                                  | day  | 3.00 | 306.00   | 918.00    |
|            | Total                                                                                                                                                                                   |      |      |          | 2242.50   |
|            | Total of A+B Rs.                                                                                                                                                                        |      |      |          | 60438.70  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                |      |      |          | 8491.64   |
|            | <b>Total</b>                                                                                                                                                                            |      |      |          | 68930.34  |
| <b>C</b>   | Overhead & Profit @ 15%                                                                                                                                                                 |      |      |          | 10339.55  |
|            | Total                                                                                                                                                                                   |      |      |          | 79269.89  |
|            | add 1% labour cess                                                                                                                                                                      |      |      |          | 792.70    |
|            | Rate of Each                                                                                                                                                                            |      |      |          | 80062.59  |
|            | Say                                                                                                                                                                                     |      |      |          | 80063.00  |




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| ICD No. | Description                                                                                                                                                                             | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
| 3.4     | <b>300 lpm at 88 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                        |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 88 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                             |      |      |           |           |
| 4312    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                | Each | 1.00 | 120000.00 | 120000.00 |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.36 | 4500.00   | 1620.00   |
|         |                                                                                                                                                                                         |      |      | Total     | 121620.00 |
|         | Cartage @1% of A                                                                                                                                                                        |      |      |           | 1216.20   |
|         |                                                                                                                                                                                         |      |      | Total     | 122836.20 |
| B       | <b>Labour</b>                                                                                                                                                                           |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                         | day  | 1.50 | 420.00    | 630.00    |
| 1087    | Welder                                                                                                                                                                                  | day  | 1.50 | 463.00    | 694.50    |
| 1025    | Helper                                                                                                                                                                                  | day  | 3.00 | 306.00    | 918.00    |
|         | Total                                                                                                                                                                                   |      |      |           | 2242.50   |
|         | Total of A+B Rs.                                                                                                                                                                        |      |      |           | 125078.70 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                |      |      |           | 17573.56  |
|         |                                                                                                                                                                                         |      |      | Total     | 142652.26 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                 |      |      |           | 21397.84  |
|         | Total                                                                                                                                                                                   |      |      |           | 164050.10 |
|         | add 1% labour cess                                                                                                                                                                      |      |      |           | 1640.50   |
|         | Rate of Each                                                                                                                                                                            |      |      |           | 165690.60 |
|         | Say                                                                                                                                                                                     |      |      |           | 165691.00 |
| 3.5     | <b>300 lpm at 70 m Head</b>                                                                                                                                                             |      |      |           |           |
| A       | <b>Materials</b>                                                                                                                                                                        |      |      |           |           |
|         | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 70 m Head conforming to IS 1520 |      |      |           |           |
|         | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                             |      |      |           |           |
| 4313    | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                | Each | 1.00 | 90200.00  | 90200.00  |
| 4320    | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                               | Cum  | 0.36 | 4500.00   | 1620.00   |
|         |                                                                                                                                                                                         |      |      | Total     | 91820.00  |
|         | Cartage @1% of A                                                                                                                                                                        |      |      |           | 918.20    |
|         |                                                                                                                                                                                         |      |      | Total     | 92738.20  |
| B       | <b>Labour</b>                                                                                                                                                                           |      |      |           |           |
| 1004    | Fitter, Grade 1                                                                                                                                                                         | day  | 1.50 | 420.00    | 630.00    |
| 1087    | Welder                                                                                                                                                                                  | day  | 1.50 | 463.00    | 694.50    |
| 1025    | Helper                                                                                                                                                                                  | day  | 3.00 | 306.00    | 918.00    |

| ICD No.    | Description                                                                                                                                                                                                                                   | Unit | Qty. | Rate ₹   | Amount ₹  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|-----------|
|            | Total                                                                                                                                                                                                                                         |      |      |          | 2242.50   |
|            | Total of A+B Rs.                                                                                                                                                                                                                              |      |      |          | 94980.70  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                      |      |      |          | 13344.79  |
|            |                                                                                                                                                                                                                                               |      |      | Total    | 108325.49 |
| C          | Overhead & Profit @ 15%                                                                                                                                                                                                                       |      |      |          | 16248.82  |
|            | Total                                                                                                                                                                                                                                         |      |      |          | 124574.31 |
|            | add 1% labour cess                                                                                                                                                                                                                            |      |      |          | 1245.74   |
|            | Rate of Each                                                                                                                                                                                                                                  |      |      |          | 125820.05 |
|            | Say                                                                                                                                                                                                                                           |      |      |          | 125820.00 |
| <b>3.6</b> | <b>300 lpm at 56 m Head</b>                                                                                                                                                                                                                   |      |      |          |           |
| A          | <b>Materials</b>                                                                                                                                                                                                                              |      |      |          |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 300 lpm at 56 m Head conforming to IS 1520                                                       |      |      |          |           |
|            | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                                                                                   |      |      |          |           |
| 4314       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                                                                      | Each | 1.00 | 81000.00 | 81000.00  |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                                                                     | Cum  | 0.36 | 4500.00  | 1620.00   |
|            |                                                                                                                                                                                                                                               |      |      | Total    | 82620.00  |
|            | Cartage @1% of A                                                                                                                                                                                                                              |      |      |          | 826.20    |
|            |                                                                                                                                                                                                                                               |      |      | Total    | 83446.20  |
| B          | <b>Labour</b>                                                                                                                                                                                                                                 |      |      |          |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                                                                               | day  | 1.50 | 420.00   | 630.00    |
| 1087       | Welder                                                                                                                                                                                                                                        | day  | 1.50 | 463.00   | 694.50    |
| 1025       | Helper                                                                                                                                                                                                                                        | day  | 3.00 | 306.00   | 918.00    |
|            | Total                                                                                                                                                                                                                                         |      |      |          | 2242.50   |
|            | Total of A+B Rs.                                                                                                                                                                                                                              |      |      |          | 85688.70  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                      |      |      |          | 12039.26  |
|            |                                                                                                                                                                                                                                               |      |      | Total    | 97727.96  |
| C          | Overhead & Profit @ 15%                                                                                                                                                                                                                       |      |      |          | 14659.19  |
|            | Total                                                                                                                                                                                                                                         |      |      |          | 112387.16 |
|            | add 1% labour cess                                                                                                                                                                                                                            |      |      |          | 1123.87   |
|            | Rate of Each                                                                                                                                                                                                                                  |      |      |          | 113511.03 |
|            | Say                                                                                                                                                                                                                                           |      |      |          | 113511.00 |
| <b>4</b>   | <b>Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)</b>                                 |      |      |          |           |
| (a)        | Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520                                                                                |      |      |          |           |
| (b)        | Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. |      |      |          |           |
| (c)        | M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as                                                                                                                                                           |      |      |          |           |
| (d)        | Suitable cement concrete foundation duly plastered and with anti vibration pads.                                                                                                                                                              |      |      |          |           |














| ICD No.    | Description                                                                                                                                                                                | Unit | Qty. | Rate ₹   | Amount ₹  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|-----------|
| <b>4.1</b> | <b>900 lpm at 35 m Head</b>                                                                                                                                                                |      |      |          |           |
| A          | <b>Materials</b>                                                                                                                                                                           |      |      |          |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 900 lpm at 35 m Head conforming to IS 1520    |      |      |          |           |
|            | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class- 'F' insulation and protection class IP 55 as per IS-325.                                                |      |      |          |           |
| 4315       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                   | Each | 1.00 | 70909.00 | 70909.00  |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                  | Cum  | 0.36 | 4500.00  | 1620.00   |
|            |                                                                                                                                                                                            |      |      | Total    | 72529.00  |
|            | Cartage @1% of A                                                                                                                                                                           |      |      |          | 725.29    |
|            |                                                                                                                                                                                            |      |      | Total    | 73254.29  |
| B          | <b>Labour</b>                                                                                                                                                                              |      |      |          |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                            | day  | 1.50 | 420.00   | 630.00    |
| 1087       | Welder                                                                                                                                                                                     | day  | 1.50 | 463.00   | 694.50    |
| 1025       | Helper                                                                                                                                                                                     | day  | 3.00 | 306.00   | 918.00    |
|            | Total                                                                                                                                                                                      |      |      |          | 2242.50   |
|            | Total of A+B Rs.                                                                                                                                                                           |      |      |          | 75496.79  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                   |      |      |          | 10607.30  |
|            |                                                                                                                                                                                            |      |      | Total    | 86104.09  |
| C          | Overhead & Profit @ 15%                                                                                                                                                                    |      |      |          | 12915.61  |
|            | Total                                                                                                                                                                                      |      |      |          | 99019.70  |
|            | add 1% labour cess                                                                                                                                                                         |      |      |          | 990.20    |
|            | Rate of Each                                                                                                                                                                               |      |      |          | 100009.90 |
|            | Say                                                                                                                                                                                        |      |      |          | 100010.00 |
| <b>4.2</b> | <b>450 lpm at 35 m Head</b>                                                                                                                                                                |      |      |          |           |
| A          | <b>Materials</b>                                                                                                                                                                           |      |      |          |           |
|            | Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 450 lpm at 35 mtr. Head conforming to IS 1520 |      |      |          |           |
|            | Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325.                                                 |      |      |          |           |
| 4316       | Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads                                                                                                   | Each | 1.00 | 59091.00 | 59091.00  |
| 4320       | Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks                                                                                  | Cum  | 0.36 | 4500.00  | 1620.00   |
|            |                                                                                                                                                                                            |      |      | Total    | 60711.00  |
|            | Cartage @1% of A                                                                                                                                                                           |      |      |          | 607.11    |
|            |                                                                                                                                                                                            |      |      | Total    | 61318.11  |
| B          | <b>Labour</b>                                                                                                                                                                              |      |      |          |           |
| 1004       | Fitter, Grade 1                                                                                                                                                                            | day  | 1.50 | 420.00   | 630.00    |
| 1087       | Welder                                                                                                                                                                                     | day  | 1.50 | 463.00   | 694.50    |

| ICD No. | Description              | Unit | Qty. | Rate ₹ | Amount ₹ |
|---------|--------------------------|------|------|--------|----------|
| 1025    | Helper                   | day  | 3.00 | 306.00 | 918.00   |
|         | Total                    |      |      |        | 2242.50  |
|         | Total of A+B Rs.         |      |      |        | 63560.61 |
|         | Add 12% GST (MF= 0.1405) |      |      |        | 8930.27  |
|         |                          |      |      | Total  | 72490.88 |
| C       | Overhead & Profit @ 15%  |      |      |        | 10873.63 |
|         | Total                    |      |      |        | 83364.51 |
|         | add 1% labour cess       |      |      |        | 833.65   |
|         | Rate of Each             |      |      |        | 84198.15 |
|         | Say                      |      |      |        | 84198.00 |

- 5 Fabrication, supply, Insallation testing & commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :**

**A Materials**

**5.1 INCOMING**

4321 250A, 50kA 4 Pole MCCB, lcs=100% lcu rating  
Digital Voltmeter 0-500V with selector switch  
Digital Ammeter (0-250 A) with selector swtich &  
CTs etc. LED type RYB phase indicating  
lamps, ON, OFF, trip indicating lamps Set of  
Copper Bus Bar 300A

**OUTGOING**

( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

Main Fire Pump 125 A, 50kA TPN MCCB, lcs=100% lcu, with fully automatic Star/Delta starter suitable for 60 HP pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

**Jockey Pump**

63 A, 50kA TPN MCCB, lcs=100% lcu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.

Handwritten signatures and marks, including the number 899.



| ICD No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit | Qty. | Rate ₹    | Amount ₹  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|            | <b>DIESEL ENGINE CONTROL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           |           |
|            | Control for diesel engine comprising -<br>Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode<br>Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication<br>Battery charger suitbale for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine<br>System Controller Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification | Each | 1.00 | 175000.00 | 175000.00 |
|            | Add Cartage @ 1% of (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |           | 1750.00   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | Total     | 176750.00 |
| <b>B</b>   | <b>Installation, testing and commissioning @6% of A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |           | 10605.00  |
|            | <b>Total of A+B Rs.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |           | 187355.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |           | 26323.38  |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | Total     | 213678.38 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |           | 32051.76  |
|            | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           | 245730.13 |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |           | 2457.30   |
|            | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           | 248187.44 |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |           | 248187.00 |
| <b>5.2</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |           |           |
|            | <b>Incomings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |      |           |           |
| 4322       | 400A, 50kA 4 Pole MCCB, Ics=100% Icu rating<br>Digital Voltmeter 0-500V with selector switch<br>Ammeter (0-400 A) with selector switch & CTs etc.<br>LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps<br>Set of Copper Bus Bar 500A<br>Outgoings<br>( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)<br>Main Fire Pump<br>200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.                                                                                |      |      |           |           |



| ICD No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         | Jockey Pump<br>100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |      |           |           |
|         | <b>Diesel Engine Control</b><br>Control for diesel engine comprising -<br>Automatic/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode<br>Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication<br>Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter<br>All standard relays and accessories for automatic operation of diesel engine System Controller<br>Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications. | Each | 1.00 | 205000.00 | 205000.00 |
|         | Add Cartage @ 1% of (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |           | 2050.00   |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      | Total     | 207050.00 |
| B       | Installation, testing and commissioning@6% of A<br>Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |           | 12423.00  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |           | 219473.00 |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      | Total     | 30835.96  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |      |           | 250308.96 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |           | 37546.34  |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |           | 287855.30 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |           | 2878.55   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |           | 290733.85 |
|         | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      |           | 290734.00 |

## 5.3

A

**Materials  
Incomings**

4323 630A, 50kA 4 Pole MCCB, Ics=100% Icu rating

Digital Voltmeter 0-500V with selector switch  
Ammeter (0-630 A) with selector switch & CTs  
etc.

LED type RYB phase indicating lamps, ON,  
OFF, trip indicating lamps

Set of Copper Bus Bar 800Amps

Outgoings














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| ICD No. | Description                                                                                                                                                                                                                                                                                                                 | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         | ( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)                                                                                                                                                                                    |      |      |           |           |
|         | <b>Main Fire Pump</b>                                                                                                                                                                                                                                                                                                       |      |      |           |           |
|         | 250 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. |      |      |           |           |
|         | <b>Jockey Pump</b>                                                                                                                                                                                                                                                                                                          |      |      |           |           |
|         | 125 A, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.              |      |      |           |           |
|         | <b>Diesel Engine Control</b>                                                                                                                                                                                                                                                                                                |      |      |           |           |
|         | Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode                                                                                                                                                |      |      |           |           |
|         | Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication                                                                                                                                                                                                                                   |      |      |           |           |
|         | Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter                                                                                                                                                                                                |      |      |           |           |
|         | All standard relays and accessories for automatic operation of diesel engine                                                                                                                                                                                                                                                |      |      |           |           |
|         | <b>System Controller</b>                                                                                                                                                                                                                                                                                                    |      |      |           |           |
|         | Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for                                             |      |      |           |           |
|         |                                                                                                                                                                                                                                                                                                                             | Each | 1.00 | 230000.00 | 230000.00 |
|         | Add Cartage @ 1% of (a)                                                                                                                                                                                                                                                                                                     |      |      |           | 2300.00   |
|         |                                                                                                                                                                                                                                                                                                                             |      |      | Total     | 232300.00 |
| B       | Installation, testing and commissioning@6% of A                                                                                                                                                                                                                                                                             |      |      |           | 13938.00  |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                            |      |      |           | 246238.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                    |      |      |           | 34596.44  |
|         |                                                                                                                                                                                                                                                                                                                             |      |      | Total     | 280834.44 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                     |      |      |           | 42125.17  |
|         | Total                                                                                                                                                                                                                                                                                                                       |      |      |           | 322959.60 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                          |      |      |           | 3229.60   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                |      |      |           | 326189.20 |
|         | Say                                                                                                                                                                                                                                                                                                                         |      |      |           | 326189.00 |

| ICD No. | Description | Unit | Qty. | Rate ₹ | Amount ₹ |
|---------|-------------|------|------|--------|----------|
|---------|-------------|------|------|--------|----------|

5.4

A

**Materials**

Incomings

400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating

Digital Voltmeter 0-500V with selector switch

Ammeter (0-400 A) with selector switch &amp; CTs etc.

LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps

Set of Copper Bus Bar 500Amps

**Outgoings**

( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

**Main Fire Pumps**

125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

**Jockey Pump**

63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

**Diesel Engine Control**

Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine

**System Controller**

4324 Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification

|      |      |           |           |
|------|------|-----------|-----------|
| Each | 1.00 | 265000.00 | 265000.00 |
|      |      |           | 2650.00   |

Add Cartage @ 1% of (A)

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| ICD No. | Description                                            | Unit | Qty. | Rate ₹ | Amount ₹  |
|---------|--------------------------------------------------------|------|------|--------|-----------|
| B       | <b>Installation, testing and commissioning@6% of A</b> |      |      |        | 16059.00  |
|         | Total of A+B Rs.                                       |      |      |        | 283709.00 |
|         | Add 12% GST (MF= 0.1405)                               |      |      |        | 39861.11  |
|         |                                                        |      |      | Total  | 323570.11 |
| C       | Overhead & Profit @ 15%                                |      |      |        | 48535.52  |
|         | Total                                                  |      |      |        | 372105.63 |
|         | add 1% labour cess                                     |      |      |        | 3721.06   |
|         | Rate of Each                                           |      |      |        | 375826.69 |
|         | Say                                                    |      |      |        | 375827.00 |

**5.5**

A

**Materials**

Incomings

630A, 50kA 4 Pole MCCB, Ics=100% Icu Rating

Digital Voltmeter 0-500V with selector switch

Ammeter (0-630 A) with selector switch &amp; CTs

etc.

LED type RYB phase indicating lamps, ON,

OFF, trip indicating lamps

Set of Copper Bus Bar 800Amps

**Outgoings**

( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

**Main Fire Pump**

200 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

**Jockey Pump**

100 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

**Diesel Engine Control**

Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine

| ICD No. | Description                                                                                                                                                                                                                                                                                                                     | Unit | Qty. | Rate ₹    | Amount ₹  |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|-----------|
|         | <b>System Controller</b>                                                                                                                                                                                                                                                                                                        |      |      |           |           |
| 4325    | Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification | Each | 1.00 | 320000.00 | 320000.00 |
|         | Add Cartage @ 1% of (a)                                                                                                                                                                                                                                                                                                         |      |      |           | 3200.00   |
|         |                                                                                                                                                                                                                                                                                                                                 |      |      | Total     | 323200.00 |
| B       | <b>Installation, testing and commissioning@6% of A</b>                                                                                                                                                                                                                                                                          |      |      |           | 19392.00  |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                |      |      |           | 342592.00 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                        |      |      |           | 48134.18  |
|         |                                                                                                                                                                                                                                                                                                                                 |      |      | Total     | 390726.18 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                         |      |      |           | 58608.93  |
|         | Total                                                                                                                                                                                                                                                                                                                           |      |      |           | 449335.10 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                              |      |      |           | 4493.35   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                    |      |      |           | 453828.45 |
|         | Say                                                                                                                                                                                                                                                                                                                             |      |      |           | 453828.00 |

**5.6****A Materials****Incomings**

- 4326 800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating  
 Digital Voltmeter 0-500V with selector switch  
 Ammeter (0-800 A) with selector switch & CTs etc.  
 LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps  
 Set of Copper Bus Bar 1000Amps

**Outgoings**

( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)

**Main Fire Pump**

250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

**Jockey Pump**

125 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets

Handwritten signatures and marks:

| ICD No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit  | Qty.  | Rate ₹    | Amount ₹  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|-----------|
|            | <b>DIESEL ENGINE CONTROL</b>                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |           |           |
|            | Control for diesel engine comprising -<br>Automatic/Manual selector switch & 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode                                                                                                                                                                                                                                              |       |       |           |           |
|            | Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication                                                                                                                                                                                                                                                                                                                                    |       |       |           |           |
|            | Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter                                                                                                                                                                                                                                                                                                 |       |       |           |           |
|            | All standard relays and accessories for automatic operation of diesel engine System Controller                                                                                                                                                                                                                                                                                                                               |       |       |           |           |
|            | Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification                                                                                              |       |       |           |           |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                              | Each  | 1.00  | 410000.00 | 410000.00 |
|            | Add Cartage @ 1% of (a)                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |           | 4100.00   |
| B          | Installation, testing and commissioning @ 6% of A                                                                                                                                                                                                                                                                                                                                                                            |       |       |           | 414100.00 |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                              |       |       | Total     | 24846.00  |
|            | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                             |       |       |           | 438946.00 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |           | 61671.91  |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                              |       |       | Total     | 500617.91 |
|            | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |           | 75092.69  |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                                                        |       |       |           | 575710.60 |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |           | 5757.11   |
|            | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |           | 581467.71 |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                                                          |       |       |           | 581468.00 |
| <b>6</b>   | <b>Providing laying, testing &amp; commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation &amp; providing cement concrete blocks as supports, anticorrosive treatment with coal tar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.</b> |       |       |           |           |
| <b>6.1</b> | <b>200 mm. dia (wall thickness = 6.3 mm)</b>                                                                                                                                                                                                                                                                                                                                                                                 |       |       |           |           |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                             |       |       |           |           |
| 4253       | (a) Basic cost of 200 mm dia MS Pipe                                                                                                                                                                                                                                                                                                                                                                                         | m     | 10.00 | 1426.00   | 14260.00  |
|            | Add for necessary support, fitting such as bends, tees, welding material etc. @ 10%                                                                                                                                                                                                                                                                                                                                          |       |       |           | 1426.00   |
| 4327       | Basic cost of 4 mm thick Anti Corrosive Pipe Protection Bituminous Tape                                                                                                                                                                                                                                                                                                                                                      | sq m  | 7.33  | 210.00    | 1539.30   |
| 4328       | Basic cost of anticorrosive Black paint                                                                                                                                                                                                                                                                                                                                                                                      | Litre | 0.63  | 110.00    | 69.30     |
|            | Add wastage @ 5% of A1 + A3 + A4                                                                                                                                                                                                                                                                                                                                                                                             |       |       |           | 793.430   |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                              |       |       | Total     | 18088.03  |
|            | Cartage @ 1% of A                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |           | 180.88    |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                              |       |       | Total     | 18268.91  |

| ICD No.    | Description                                                                                                                                                                                                                                                                                                                                                                                   | Unit  | Qty.  | Rate ₹ | Amount ₹       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------|----------------|
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                 |       |       |        |                |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                               | day   | 1.50  | 420.00 | 630.00         |
| 0L15       | Welder                                                                                                                                                                                                                                                                                                                                                                                        | day   | 1.00  | 463.00 | 463.00         |
| 0131       | Painter                                                                                                                                                                                                                                                                                                                                                                                       | day   | 0.50  | 391.00 | 195.50         |
| 0161       | Helper                                                                                                                                                                                                                                                                                                                                                                                        | day   | 3.00  | 306.00 | 918.00         |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                         |       |       |        | 2206.50        |
| <b>C</b>   | Excavation including refilling as required 2.8.1                                                                                                                                                                                                                                                                                                                                              | cum   | 8.00  | 379.87 | 3038.95        |
|            | Total of A+B+C Rs.                                                                                                                                                                                                                                                                                                                                                                            |       |       |        | 23514.36       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                      |       |       |        | 3303.77        |
|            |                                                                                                                                                                                                                                                                                                                                                                                               |       |       | Total  | 26818.12       |
| <b>D</b>   | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                       |       |       |        | 4022.72        |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                         |       |       |        | 30840.84       |
|            | Cost of 10 meter                                                                                                                                                                                                                                                                                                                                                                              |       |       |        | 30840.84       |
|            | Cost of Per Meter                                                                                                                                                                                                                                                                                                                                                                             |       |       |        | 3084.08        |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                            |       |       |        | 30.84          |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                           |       |       |        | <b>3115.00</b> |
| <b>6.2</b> | <b>150 mm. Dia</b>                                                                                                                                                                                                                                                                                                                                                                            |       |       |        |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                              |       |       |        |                |
| 4252       | (a) Basic cost of 150 mm dia MS Pipe                                                                                                                                                                                                                                                                                                                                                          | m     | 10.00 | 938.00 | 9380.00        |
|            | Add for necessary support, fitting such as bends, tees, welding material etc. @10%                                                                                                                                                                                                                                                                                                            |       |       |        | 938.00         |
| 4327       | Basic cost of 4 mm thick Anti Corrosive Pipe Protection Bituminous Tape                                                                                                                                                                                                                                                                                                                       | sq m  | 5.71  | 210.00 | 1199.10        |
| 4328       | Basic cost of anticorrosive Black paint                                                                                                                                                                                                                                                                                                                                                       | Litre | 0.47  | 110.00 | 51.70          |
|            | Add wastage @5% of A1 + A3 + A4                                                                                                                                                                                                                                                                                                                                                               |       |       |        | 531.540        |
|            |                                                                                                                                                                                                                                                                                                                                                                                               |       |       | Total  | 12100.34       |
|            | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                              |       |       |        | 121.00         |
|            |                                                                                                                                                                                                                                                                                                                                                                                               |       |       | Total  | 12221.34       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                 |       |       |        |                |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                               | day   | 1.50  | 420.00 | 630.00         |
| 0L15       | Welder                                                                                                                                                                                                                                                                                                                                                                                        | day   | 1.00  | 463.00 | 463.00         |
| 0131       | Painter                                                                                                                                                                                                                                                                                                                                                                                       | day   | 0.50  | 391.00 | 195.50         |
| 0161       | Helper                                                                                                                                                                                                                                                                                                                                                                                        | day   | 3.00  | 306.00 | 918.00         |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                         |       |       |        | 2206.50        |
| <b>C</b>   | Excavation including refilling as required                                                                                                                                                                                                                                                                                                                                                    | cum   | 8     | 379.87 | 3038.95        |
|            | Total of A+B+C Rs.                                                                                                                                                                                                                                                                                                                                                                            |       |       |        | 17466.79       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                      |       |       |        | 2454.08        |
|            |                                                                                                                                                                                                                                                                                                                                                                                               |       |       | Total  | 19920.87       |
| <b>D</b>   | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                       |       |       |        | 2988.13        |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                         |       |       |        | 22909.01       |
|            | Rate of 10m                                                                                                                                                                                                                                                                                                                                                                                   |       |       |        | 22909.01       |
|            | Cost of Per Meter                                                                                                                                                                                                                                                                                                                                                                             |       |       |        | 2290.90        |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                            |       |       |        | 22.91          |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                           |       |       |        | <b>2314.00</b> |
| <b>7</b>   | <b>Providing, laying, testing &amp; commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :</b> |       |       |        |                |
| <b>7.1</b> | <b>25 mm dia</b>                                                                                                                                                                                                                                                                                                                                                                              |       |       |        |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                              |       |       |        |                |
| 4244       | (a) Cost of 25 mm dia MS Pipe                                                                                                                                                                                                                                                                                                                                                                 | m     | 10.00 | 118.00 | 1180.00        |
|            | Add wastage @5%                                                                                                                                                                                                                                                                                                                                                                               |       |       |        | 59.00          |
|            |                                                                                                                                                                                                                                                                                                                                                                                               |       |       | Total  | 1239.00        |
















# BCD Analysis of Rates 2022

| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹ | Amount ₹      |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|---------------|
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 185.85        |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 14.25         |
|            |                                                                                                                                               |      |       | Total  | 1439.10       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.25  | 420.00 | 525.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.25  | 463.00 | 115.75        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 1.75  | 306.00 | 535.50        |
|            | Total                                                                                                                                         |      |       |        | 1274.00       |
|            | Total of A+B                                                                                                                                  |      |       |        | 2713.10       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 381.19        |
|            |                                                                                                                                               |      |       | Total  | 3094.29       |
| <b>C</b>   | Overhead & Profit @ 15%                                                                                                                       |      |       |        | 464.14        |
|            | Total                                                                                                                                         |      |       |        | 3558.43       |
|            | Rate of Each                                                                                                                                  |      |       |        | 3558.43       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 355.84        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 3.56          |
|            | Say                                                                                                                                           |      |       |        | <b>359.00</b> |
| <b>7.2</b> | <b>32 mm dia</b>                                                                                                                              |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4245       | (a) Cost of 32 mm dia MS Pipe                                                                                                                 | m    | 10.00 | 155.00 | 1550.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 77.50         |
|            |                                                                                                                                               |      |       | Total  | 1627.50       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 244.13        |
|            |                                                                                                                                               |      |       | Total  | 1871.63       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.25  | 420.00 | 525.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.25  | 463.00 | 115.75        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 1.75  | 306.00 | 535.50        |
|            | Total                                                                                                                                         |      |       |        | 1274.00       |
|            | Total of A+B                                                                                                                                  |      |       |        | 3145.63       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 441.96        |
|            |                                                                                                                                               |      |       | Total  | 3587.59       |
| <b>C</b>   | Overhead & Profit @ 15%                                                                                                                       |      |       |        | 538.14        |
|            | Total                                                                                                                                         |      |       |        | 4125.72       |
|            | Rate of Each                                                                                                                                  |      |       |        | 4125.72       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 412.57        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 4.13          |
|            | Say                                                                                                                                           |      |       |        | <b>417.00</b> |
| <b>7.3</b> | <b>40 mm dia</b>                                                                                                                              |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4246       | (a) Cost of 40 mm dia MS Pipe                                                                                                                 | m    | 10.00 | 180.00 | 1800.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 90.00         |
|            |                                                                                                                                               |      |       | Total  | 1890.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        |               |

283.50



| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹ | Amount ₹      |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|---------------|
|            |                                                                                                                                               |      |       | Total  | 2173.50       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 21.74         |
|            |                                                                                                                                               |      |       | Total  | 2195.24       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.50  | 420.00 | 630.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.25  | 306.00 | 688.50        |
|            | Total                                                                                                                                         |      |       |        | 1647.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 3842.99       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 539.94        |
|            |                                                                                                                                               |      |       | Total  | 4382.92       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 657.44        |
|            | Total                                                                                                                                         |      |       |        | 5040.36       |
|            | Rate of Each                                                                                                                                  |      |       |        | 5040.36       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 504.04        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 5.04          |
|            | Say                                                                                                                                           |      |       |        | <b>509.00</b> |
| <b>7.4</b> | <b>50 mm dia</b>                                                                                                                              |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4247       | (a) Cost of 50 mm dia MS Pipe                                                                                                                 | m    | 10.00 | 265.00 | 2650.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 132.50        |
|            |                                                                                                                                               |      |       | Total  | 2782.50       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 417.38        |
|            |                                                                                                                                               |      |       | Total  | 3199.88       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 32.00         |
|            |                                                                                                                                               |      |       | Total  | 3231.87       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.50  | 420.00 | 630.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.25  | 306.00 | 688.50        |
|            | Total                                                                                                                                         |      |       |        | 1647.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 4879.62       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 685.59        |
|            |                                                                                                                                               |      |       | Total  | 5565.21       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 834.78        |
|            | Total                                                                                                                                         |      |       |        | 6399.99       |
|            | Rate of Each                                                                                                                                  |      |       |        | 6399.99       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 640.00        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 6.40          |
|            | Say                                                                                                                                           |      |       |        | <b>646.00</b> |
| <b>7.5</b> | <b>65 mm dia</b>                                                                                                                              |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4248       | (a) Cost of 65 mm dia MS Pipe                                                                                                                 | m    | 10.00 | 350.00 | 3500.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 175.00        |
|            |                                                                                                                                               |      |       | Total  | 3675.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 551.25        |












| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹ | Amount ₹      |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|---------------|
|            |                                                                                                                                               |      |       | Total  | 4226.25       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 42.26         |
|            |                                                                                                                                               |      |       | Total  | 4268.51       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00 | 840.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.75  | 306.00 | 841.50        |
|            | Total                                                                                                                                         |      |       |        | 2010.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 6279.26       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 882.24        |
|            |                                                                                                                                               |      |       | Total  | 7161.50       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 1074.22       |
|            | Total                                                                                                                                         |      |       |        | 8235.72       |
|            | Rate of Each                                                                                                                                  |      |       |        | 8235.72       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 823.57        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 8.24          |
|            | Say                                                                                                                                           |      |       |        | <b>832.00</b> |
| <b>7.6</b> | <b>80 mm dia</b>                                                                                                                              |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4249       | (a) Cost of 80 mm dia MS Pipe                                                                                                                 | m    | 10.00 | 424.00 | 4240.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 212.00        |
|            |                                                                                                                                               |      |       | Total  | 4452.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 667.80        |
|            |                                                                                                                                               |      |       | Total  | 5119.80       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 51.20         |
|            |                                                                                                                                               |      |       | Total  | 5171.00       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00 | 840.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.75  | 306.00 | 841.50        |
|            | Total                                                                                                                                         |      |       |        | 2010.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 7181.75       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 1009.04       |
|            |                                                                                                                                               |      |       | Total  | 8190.78       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 1228.62       |
|            | Total                                                                                                                                         |      |       |        | 9419.40       |
|            | Rate of Each                                                                                                                                  |      |       |        | 9419.40       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 941.94        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 9.42          |
|            | Say                                                                                                                                           |      |       |        | <b>951.00</b> |
| <b>7.7</b> | <b>100 mm dia</b>                                                                                                                             |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4250       | (a) Cost of 100 mm dia MS Pipe                                                                                                                | m    | 10.00 | 634.00 | 6340.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 317.00        |
|            |                                                                                                                                               |      |       | Total  | 6657.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 998.55        |

| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹  | Amount ₹       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|----------------|
|            |                                                                                                                                               |      |       | Total   | 7655.55        |
|            | Cartage @1% of A                                                                                                                              |      |       |         | 76.56          |
|            |                                                                                                                                               |      |       | Total   | 7732.11        |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00  | 840.00         |
| 0L15       | Welder                                                                                                                                        | day  | 0.75  | 463.00  | 347.25         |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00  | 97.75          |
| 0161       | Helper                                                                                                                                        | day  | 3.00  | 306.00  | 918.00         |
|            | Total                                                                                                                                         |      |       |         | 2203.00        |
|            | Total of A+B                                                                                                                                  |      |       |         | 9935.11        |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 1395.88        |
|            |                                                                                                                                               |      |       | Total   | 11330.99       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 1699.65        |
|            | Total                                                                                                                                         |      |       |         | 13030.64       |
|            | Rate of Each                                                                                                                                  |      |       |         | 13030.64       |
|            | Cost of Per Meter                                                                                                                             |      |       |         | 1303.06        |
|            | add 1% labour cess                                                                                                                            |      |       |         | 13.03          |
|            | Say                                                                                                                                           |      |       |         | <b>1316.00</b> |
| <b>7.8</b> | <b>150 mm dia</b>                                                                                                                             |      |       |         |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4252       | (a) Cost of 150 mm dia MS Pipe                                                                                                                | m    | 10.00 | 938.00  | 9380.00        |
|            | Add wastage @5%                                                                                                                               |      |       |         | 469.00         |
|            |                                                                                                                                               |      |       | Total   | 9849.00        |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |         | 1477.35        |
|            |                                                                                                                                               |      |       | Total   | 11326.35       |
|            | Cartage @1% of A                                                                                                                              |      |       |         | 113.26         |
|            |                                                                                                                                               |      |       | Total   | 11439.61       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00  | 840.00         |
| 0L15       | Welder                                                                                                                                        | day  | 1.00  | 463.00  | 463.00         |
| 0131       | Painter                                                                                                                                       | day  | 0.50  | 391.00  | 195.50         |
| 0161       | Helper                                                                                                                                        | day  | 3.50  | 306.00  | 1071.00        |
|            | Total                                                                                                                                         |      |       |         | 2569.50        |
|            | Total of A+B                                                                                                                                  |      |       |         | 14009.11       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 1968.28        |
|            |                                                                                                                                               |      |       | Total   | 15977.39       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 2396.61        |
|            | Total                                                                                                                                         |      |       |         | 18374.00       |
|            | Rate of Each                                                                                                                                  |      |       |         | 18374.00       |
|            | Cost of Per Meter                                                                                                                             |      |       |         | 1837.40        |
|            | add 1% labour cess                                                                                                                            |      |       |         | 18.37          |
|            | Say                                                                                                                                           |      |       |         | <b>1856.00</b> |
| <b>7.9</b> | <b>200 mm dia (wall thickness 6.3 mm)</b>                                                                                                     |      |       |         |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4253       | (a) Cost of 200 mm dia MS Pipe                                                                                                                | m    | 10.00 | 1426.00 | 14260.00       |
|            | Add wastage @5%                                                                                                                               |      |       |         | 713.00         |
|            |                                                                                                                                               |      |       | Total   | 14973.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |         | 2245.95        |














| ICD No.     | Description                                                                                                                                   | Unit | Qty.  | Rate ₹  | Amount ₹       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|----------------|
|             |                                                                                                                                               |      |       | Total   | 17218.95       |
|             | Cartage @1% of A                                                                                                                              |      |       |         | 172.19         |
|             |                                                                                                                                               |      |       | Total   | 17391.14       |
| <b>B</b>    | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116        | Fitter, Grade 1                                                                                                                               | day  | 2.50  | 420.00  | 1050.00        |
| 0L15        | Welder                                                                                                                                        | day  | 1.00  | 463.00  | 463.00         |
| 0131        | Painter                                                                                                                                       | day  | 0.50  | 391.00  | 195.50         |
| 0161        | Helper                                                                                                                                        | day  | 4.00  | 306.00  | 1224.00        |
|             | Total                                                                                                                                         |      |       |         | 2932.50        |
|             | Total of A+B                                                                                                                                  |      |       |         | 20323.64       |
|             | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 2855.47        |
|             |                                                                                                                                               |      |       | Total   | 23179.11       |
| <b>C</b>    | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 3476.87        |
|             | Total                                                                                                                                         |      |       |         | 26655.98       |
|             | Rate of Each                                                                                                                                  |      |       |         | 26655.98       |
|             | Cost of Per Meter                                                                                                                             |      |       |         | 2665.60        |
|             | add 1% labour cess                                                                                                                            |      |       |         | 26.66          |
|             | Say                                                                                                                                           |      |       |         | <b>2692.00</b> |
| <b>7.10</b> | <b>250 mm dia (wall thickness 6.3 mm)</b>                                                                                                     |      |       |         |                |
| <b>A</b>    | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4254        | (a) Cost of 250 mm dia MS Pipe                                                                                                                | m    | 10.00 | 1798.00 | 17980.00       |
|             | Add wastage @5%                                                                                                                               |      |       | 1798.00 | 899.00         |
|             |                                                                                                                                               |      |       | Total   | 18879.00       |
|             | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |         | 2831.85        |
|             |                                                                                                                                               |      |       | Total   | 21710.85       |
|             | Cartage @1% of A                                                                                                                              |      |       |         | 217.11         |
|             |                                                                                                                                               |      |       | Total   | 21927.96       |
| <b>B</b>    | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116        | Fitter, Grade 1                                                                                                                               | day  | 2.50  | 420.00  | 1050.00        |
| 0L15        | Welder                                                                                                                                        | day  | 1.00  | 463.00  | 463.00         |
| 0131        | Painter                                                                                                                                       | day  | 0.50  | 391.00  | 195.50         |
| 0161        | Helper                                                                                                                                        | day  | 4.00  | 306.00  | 1224.00        |
|             | Total                                                                                                                                         |      |       |         | 2932.50        |
|             | Total of A+B                                                                                                                                  |      |       |         | 24860.46       |
|             | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 3492.89        |
|             |                                                                                                                                               |      |       | Total   | 28353.35       |
| <b>C</b>    | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 4253.00        |
|             | Total                                                                                                                                         |      |       |         | 32606.36       |
|             | Rate of Each                                                                                                                                  |      |       |         | 32606.36       |
|             | Cost of Per Meter                                                                                                                             |      |       |         | 3260.64        |
|             | add 1% labour cess                                                                                                                            |      |       |         | 32.61          |
|             | Say                                                                                                                                           |      |       |         | <b>3293.00</b> |
| <b>7.11</b> | <b>300 mm dia (wall thickness 7.1 mm)</b>                                                                                                     |      |       |         |                |
| <b>A</b>    | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4255        | (a) Cost of 300 mm dia MS Pipe                                                                                                                | m    | 10.00 | 2106.00 | 21060.00       |
|             | Add wastage @5%                                                                                                                               |      |       |         | 1053.00        |
|             |                                                                                                                                               |      |       | Total   | 22113.00       |
|             | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |         | 3316.95        |

| ICD No.    | Description                                                                                                                                                                                                                                                                                                                                                                              | Unit | Qty.  | Rate ₹ | Amount ₹       |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|----------------|
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 25429.95       |
|            | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                         |      |       |        | 254.30         |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 25684.25       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                            |      |       |        |                |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                          | day  | 3.00  | 420.00 | 1260.00        |
| 0L15       | Welder                                                                                                                                                                                                                                                                                                                                                                                   | day  | 1.00  | 463.00 | 463.00         |
| 0131       | Painter                                                                                                                                                                                                                                                                                                                                                                                  | day  | 0.75  | 391.00 | 293.25         |
| 0161       | Helper                                                                                                                                                                                                                                                                                                                                                                                   | day  | 4.75  | 306.00 | 1453.50        |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                    |      |       |        | 3469.75        |
|            | Total of A+B                                                                                                                                                                                                                                                                                                                                                                             |      |       |        | 29154.00       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                 |      |       |        | 4096.14        |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 33250.14       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                       |      |       |        | 4987.52        |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                    |      |       |        | 38237.66       |
|            | Rate of Each                                                                                                                                                                                                                                                                                                                                                                             |      |       |        | 38237.66       |
|            | Cost of Per Meter                                                                                                                                                                                                                                                                                                                                                                        |      |       |        | 3823.77        |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                       |      |       |        | 38.24          |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                      |      |       |        | <b>3862.00</b> |
| <b>8</b>   | <b>Providing, laying, testing &amp; commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :</b> |      |       |        |                |
| <b>8.1</b> | <b>25 mm</b>                                                                                                                                                                                                                                                                                                                                                                             |      |       |        |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                         |      |       |        |                |
| 4256       | (a) Cost of 25 mm dia G.I. Pipe                                                                                                                                                                                                                                                                                                                                                          | m    | 10.00 | 171.00 | 1710.00        |
|            | Add wastage @5%                                                                                                                                                                                                                                                                                                                                                                          |      |       |        | 85.50          |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 1795.50        |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%                                                                                                                                                                                                                                            |      |       |        | 269.33         |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 2064.83        |
|            | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                         |      |       |        | 20.65          |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 2085.47        |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                            |      |       |        |                |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                          | day  | 1.25  | 420.00 | 525.00         |
| 0L15       | Welder                                                                                                                                                                                                                                                                                                                                                                                   | day  | 0.25  | 463.00 | 115.75         |
| 0131       | Painter                                                                                                                                                                                                                                                                                                                                                                                  | day  | 0.25  | 391.00 | 97.75          |
| 0161       | Helper                                                                                                                                                                                                                                                                                                                                                                                   | day  | 1.75  | 306.00 | 535.50         |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                    |      |       |        | 1274.00        |
|            | Total of A+B                                                                                                                                                                                                                                                                                                                                                                             |      |       |        | 3359.47        |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                 |      |       |        | 472.01         |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 3831.48        |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                       |      |       |        | 574.72         |
|            | Total                                                                                                                                                                                                                                                                                                                                                                                    |      |       |        | 4406.20        |
|            | Rate of Each                                                                                                                                                                                                                                                                                                                                                                             |      |       |        | 4406.20        |
|            | Cost of Per Meter                                                                                                                                                                                                                                                                                                                                                                        |      |       |        | 440.62         |
|            | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                       |      |       |        | 4.41           |
|            | Say                                                                                                                                                                                                                                                                                                                                                                                      |      |       |        | <b>445.00</b>  |
| <b>8.2</b> | <b>32 mm</b>                                                                                                                                                                                                                                                                                                                                                                             |      |       |        |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                         |      |       |        |                |
| 4257       | (a) Cost of 32 mm dia G.I. Pipe                                                                                                                                                                                                                                                                                                                                                          | m    | 10.00 | 215.00 | 2150.00        |
|            | Add wastage @5%                                                                                                                                                                                                                                                                                                                                                                          |      |       |        | 107.50         |
|            |                                                                                                                                                                                                                                                                                                                                                                                          |      |       | Total  | 2257.50        |














| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹ | Amount ₹      |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|---------------|
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 338.63        |
|            |                                                                                                                                               |      |       | Total  | 2596.13       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 25.96         |
|            |                                                                                                                                               |      |       | Total  | 2622.09       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.25  | 420.00 | 525.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.25  | 463.00 | 115.75        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 1.75  | 306.00 | 535.50        |
|            | Total                                                                                                                                         |      |       |        | 1274.00       |
|            | Total of A+B                                                                                                                                  |      |       |        | 3896.09       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 547.40        |
|            |                                                                                                                                               |      |       | Total  | 4443.49       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 666.52        |
|            | Total                                                                                                                                         |      |       |        | 5110.01       |
|            | Rate of Each                                                                                                                                  |      |       |        | 5110.01       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 511.00        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 5.11          |
|            | Say                                                                                                                                           |      |       |        | <b>516.00</b> |
| <b>8.3</b> | <b>40 mm</b>                                                                                                                                  |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4258       | (a) Cost of 40 mm dia G.I. Pipe                                                                                                               | m    | 10.00 | 250.00 | 2500.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 125.00        |
|            |                                                                                                                                               |      |       | Total  | 2625.00       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 393.75        |
|            |                                                                                                                                               |      |       | Total  | 3018.75       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 30.19         |
|            |                                                                                                                                               |      |       | Total  | 3048.94       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.50  | 420.00 | 630.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.25  | 306.00 | 688.50        |
|            | Total                                                                                                                                         |      |       |        | 1647.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 4696.69       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 659.88        |
|            |                                                                                                                                               |      |       | Total  | 5356.57       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 803.49        |
|            | Total                                                                                                                                         |      |       |        | 6160.06       |
|            | Rate of Each                                                                                                                                  |      |       |        | 6160.06       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 616.01        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 6.16          |
|            | Say                                                                                                                                           |      |       |        | <b>622.00</b> |
| <b>8.4</b> | <b>50 mm</b>                                                                                                                                  |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4259       | (a) Cost of 50 mm dia G.I. Pipe                                                                                                               | m    | 10.00 | 310.00 | 3100.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 155.00        |
|            |                                                                                                                                               |      |       | Total  | 3255.00       |

| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹ | Amount ₹      |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|---------------|
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 488.25        |
|            |                                                                                                                                               |      |       | Total  | 3743.25       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 37.43         |
|            |                                                                                                                                               |      |       | Total  | 3780.68       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 1.50  | 420.00 | 630.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.25  | 306.00 | 688.50        |
|            | Total                                                                                                                                         |      |       |        | 1647.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 5428.43       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 762.69        |
|            |                                                                                                                                               |      |       | Total  | 6191.13       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 928.67        |
|            | Total                                                                                                                                         |      |       |        | 7119.80       |
|            | Rate of Each                                                                                                                                  |      |       |        | 7119.80       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 711.98        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 7.12          |
|            | Say                                                                                                                                           |      |       |        | <b>719.00</b> |
| <b>8.5</b> | <b>65 mm</b>                                                                                                                                  |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4260       | (a) Cost of 65 mm dia G.I. Pipe                                                                                                               | m    | 10.00 | 395.00 | 3950.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 197.50        |
|            |                                                                                                                                               |      |       | Total  | 4147.50       |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |        | 622.13        |
|            |                                                                                                                                               |      |       | Total  | 4769.63       |
|            | Cartage @1% of A                                                                                                                              |      |       |        | 47.70         |
|            |                                                                                                                                               |      |       | Total  | 4817.32       |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |        |               |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00 | 840.00        |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00 | 231.50        |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00 | 97.75         |
| 0161       | Helper                                                                                                                                        | day  | 2.75  | 306.00 | 841.50        |
|            | Total                                                                                                                                         |      |       |        | 2010.75       |
|            | Total of A+B                                                                                                                                  |      |       |        | 6828.07       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |        | 959.34        |
|            |                                                                                                                                               |      |       | Total  | 7787.42       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |        | 1168.11       |
|            | Total                                                                                                                                         |      |       |        | 8955.53       |
|            | Rate of Each                                                                                                                                  |      |       |        | 8955.53       |
|            | Cost of Per Meter                                                                                                                             |      |       |        | 895.55        |
|            | add 1% labour cess                                                                                                                            |      |       |        | 8.96          |
|            | Say                                                                                                                                           |      |       |        | <b>905.00</b> |
| <b>8.6</b> | <b>80 mm</b>                                                                                                                                  |      |       |        |               |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |        |               |
| 4261       | (a) Cost of 80 mm dia G.I. Pipe                                                                                                               | m    | 10.00 | 505.00 | 5050.00       |
|            | Add wastage @5%                                                                                                                               |      |       |        | 252.50        |
|            |                                                                                                                                               |      |       | Total  | 5302.50       |










| ICD No.    | Description                                                                                                                                   | Unit | Qty.  | Rate ₹  | Amount ₹       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|----------------|
|            | Add for necessary brackets, support, addles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%  |      |       |         | 795.38         |
|            |                                                                                                                                               |      |       | Total   | 6097.88        |
|            | Cartage @1% of A                                                                                                                              |      |       |         | 60.98          |
|            |                                                                                                                                               |      |       | Total   | 6158.85        |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00  | 840.00         |
| 0L15       | Welder                                                                                                                                        | day  | 0.50  | 463.00  | 231.50         |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00  | 97.75          |
| 0161       | Helper                                                                                                                                        | day  | 2.75  | 306.00  | 841.50         |
|            | Total                                                                                                                                         |      |       |         | 2010.75        |
|            | Total of A+B                                                                                                                                  |      |       |         | 8169.60        |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 1147.83        |
|            |                                                                                                                                               |      |       | Total   | 9317.43        |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 1397.61        |
|            | Total                                                                                                                                         |      |       |         | 10715.05       |
|            | Rate of Each                                                                                                                                  |      |       |         | 10715.05       |
|            | Cost of Per Meter                                                                                                                             |      |       |         | 1071.50        |
|            | add 1% labour cess                                                                                                                            |      |       |         | 10.72          |
|            | Say                                                                                                                                           |      |       |         | <b>1082.00</b> |
| <b>8.7</b> | <b>100 mm</b>                                                                                                                                 |      |       |         |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4262       | (a) Cost of 100 mm dia G.I. Pipe                                                                                                              | m    | 10.00 | 714.00  | 7140.00        |
|            | Add wastage @5%                                                                                                                               |      |       |         | 357.00         |
|            |                                                                                                                                               |      |       | Total   | 7497.00        |
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% |      |       |         | 1124.55        |
|            |                                                                                                                                               |      |       | Total   | 8621.55        |
|            | Cartage @1% of A                                                                                                                              |      |       |         | 86.22          |
|            |                                                                                                                                               |      |       | Total   | 8707.77        |
| <b>B</b>   | <b>Labour</b>                                                                                                                                 |      |       |         |                |
| 0116       | Fitter, Grade 1                                                                                                                               | day  | 2.00  | 420.00  | 840.00         |
| 0L15       | Welder                                                                                                                                        | day  | 0.75  | 463.00  | 347.25         |
| 0131       | Painter                                                                                                                                       | day  | 0.25  | 391.00  | 97.75          |
| 0161       | Helper                                                                                                                                        | day  | 3.00  | 306.00  | 918.00         |
|            | Total                                                                                                                                         |      |       |         | 2203.00        |
|            | Total of A+B                                                                                                                                  |      |       |         | 10910.77       |
|            | Add 12% GST (MF= 0.1405)                                                                                                                      |      |       |         | 1532.96        |
|            |                                                                                                                                               |      |       | Total   | 12443.73       |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                            |      |       |         | 1866.56        |
|            | Total                                                                                                                                         |      |       |         | 14310.29       |
|            | Rate of Each                                                                                                                                  |      |       |         | 14310.29       |
|            | Cost of Per Meter                                                                                                                             |      |       |         | 1431.03        |
|            | add 1% labour cess                                                                                                                            |      |       |         | 14.31          |
|            | Say                                                                                                                                           |      |       |         | 1445.00        |
| <b>8.8</b> | <b>150 mm</b>                                                                                                                                 |      |       |         |                |
| <b>A</b>   | <b>Materials</b>                                                                                                                              |      |       |         |                |
| 4263       | (a) Cost of 150 mm dia G.I. Pipe                                                                                                              | m    | 10.00 | 1066.00 | 10660.00       |
|            | Add wastage @5%                                                                                                                               |      |       |         | 533.00         |
|            |                                                                                                                                               |      |       | Total   | 11193.00       |



| ICD No.    | Description                                                                                                                                                                                                                                                        | Unit | Qty. | Rate ₹  | Amount ₹ |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|----------|
|            | Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15%                                                                                                                      |      |      |         | 1678.95  |
|            |                                                                                                                                                                                                                                                                    |      |      | Total   | 12871.95 |
|            | Cartage @1% of A                                                                                                                                                                                                                                                   |      |      |         | 128.72   |
|            |                                                                                                                                                                                                                                                                    |      |      | Total   | 13000.67 |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                      |      |      |         |          |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                    | day  | 2.00 | 420.00  | 840.00   |
| 0L15       | Welder                                                                                                                                                                                                                                                             | day  | 1.00 | 463.00  | 463.00   |
| 0131       | Painter                                                                                                                                                                                                                                                            | day  | 0.50 | 391.00  | 195.50   |
| 0161       | Helper                                                                                                                                                                                                                                                             | day  | 3.50 | 306.00  | 1071.00  |
|            | Total                                                                                                                                                                                                                                                              |      |      |         | 2569.50  |
|            | Total of A+B                                                                                                                                                                                                                                                       |      |      |         | 15570.17 |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                           |      |      |         | 2187.61  |
|            |                                                                                                                                                                                                                                                                    |      |      | Total   | 17757.78 |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                 |      |      |         | 2663.67  |
|            | Total                                                                                                                                                                                                                                                              |      |      |         | 20421.45 |
|            | Rate of Each                                                                                                                                                                                                                                                       |      |      |         | 20421.45 |
|            | add 1% labour cess                                                                                                                                                                                                                                                 |      |      |         | 204.21   |
|            | Rate of Each                                                                                                                                                                                                                                                       |      |      |         | 20625.66 |
|            | Say                                                                                                                                                                                                                                                                |      |      |         | 20626.00 |
| <b>9</b>   | <b>Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :</b> |      |      |         |          |
| <b>9.1</b> | <b>Single headed Gunmetal</b>                                                                                                                                                                                                                                      |      |      |         |          |
| <b>A</b>   | <b>Materials</b>                                                                                                                                                                                                                                                   |      |      |         |          |
| 4201       | (a) Cost of single head gunmetal hydrant valve                                                                                                                                                                                                                     | Each | 1.00 | 4685.00 | 4685.00  |
| 4329       | (b) Cost of 4 Nos. nuts bolts and washers                                                                                                                                                                                                                          | Set  | 1.00 | 50.00   | 50.00    |
| 4330       | (c) Cost of 1 No. 3 mm thick rubber gasket                                                                                                                                                                                                                         | Each | 1.00 | 70.00   | 70.00    |
| 4331       | (d) Cost of 1 No. MS flange as per IS drilling 16 mm thick LS                                                                                                                                                                                                      | Set  | 1.00 | 200.00  | 200.00   |
| 4332       | (e) Cost of welding rod                                                                                                                                                                                                                                            | Job  | 1.00 | 40.00   | 40.00    |
|            | Total                                                                                                                                                                                                                                                              |      |      |         | 5045.00  |
|            | Cartage @1% of A                                                                                                                                                                                                                                                   |      |      |         | 50.45    |
|            |                                                                                                                                                                                                                                                                    |      |      | Total   | 5095.45  |
| <b>B</b>   | <b>Labour</b>                                                                                                                                                                                                                                                      |      |      |         |          |
| 0116       | Fitter, Grade 1                                                                                                                                                                                                                                                    | day  | 0.25 | 420.00  | 105.00   |
| 0L15       | Welder                                                                                                                                                                                                                                                             | day  | 0.25 | 463.00  | 115.75   |
| 0161       | Helper                                                                                                                                                                                                                                                             | day  | 0.50 | 306.00  | 153.00   |
|            | Total                                                                                                                                                                                                                                                              |      |      |         | 373.75   |
|            | Total of A+B Rs.                                                                                                                                                                                                                                                   |      |      |         | 5469.20  |
|            | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                           |      |      |         | 768.42   |
|            |                                                                                                                                                                                                                                                                    |      |      | Total   | 6237.62  |
| <b>C</b>   | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                 |      |      |         | 935.64   |
|            | Total                                                                                                                                                                                                                                                              |      |      |         | 7173.27  |
|            | add 1% labour cess                                                                                                                                                                                                                                                 |      |      |         | 71.73    |
|            | Rate of Each                                                                                                                                                                                                                                                       |      |      |         | 7245.00  |
|            | Say                                                                                                                                                                                                                                                                |      |      |         | 7245.00  |














| ICD No. | Description                                                                                                                                                                                                                                                                  | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|----------|
| 9.2     | <b>Single headed Stainless steel</b>                                                                                                                                                                                                                                         |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                             |      |      |         |          |
| 4202    | (a) Cost of Single Head Stainless Steel Hydrant Valve                                                                                                                                                                                                                        | Each | 1.00 | 3547.00 | 3547.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS                                                                                                                                                                                                                                 | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3 mm thick rubber gasket                                                                                                                                                                                                                                   | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling 16mm thick LS                                                                                                                                                                                                                 | Set  | 1.00 | 200.00  | 200.00   |
| 4332    | (e) Cost of welding rod                                                                                                                                                                                                                                                      | Job  | 1.00 | 40.00   | 40.00    |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 3907.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                                                             |      |      |         | 39.07    |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 3946.07  |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                              | day  | 0.25 | 420.00  | 105.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                       | day  | 0.25 | 463.00  | 115.75   |
| 0161    | Helper                                                                                                                                                                                                                                                                       | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                                                                                                                                                                                                                                                        |      |      |         | 373.75   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                             |      |      |         | 4319.82  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                     |      |      |         | 606.93   |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 4926.75  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                      |      |      |         | 739.01   |
|         | Total                                                                                                                                                                                                                                                                        |      |      |         | 5665.77  |
|         | add 1% labour cess                                                                                                                                                                                                                                                           |      |      |         | 56.66    |
|         | Rate of Each                                                                                                                                                                                                                                                                 |      |      |         | 5722.43  |
|         | Say                                                                                                                                                                                                                                                                          |      |      |         | 5722.00  |
| 10      | <b>Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required:</b> |      |      |         |          |
| 10.1    | <b>Single headed Gunmetal</b>                                                                                                                                                                                                                                                |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                             |      |      |         |          |
| 4201    | (a) Cost of single head gunmetal hydrant valve                                                                                                                                                                                                                               | Each | 1.00 | 4685.00 | 4685.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers                                                                                                                                                                                                                                    | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket                                                                                                                                                                                                                                    | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling 16mm thick LS                                                                                                                                                                                                                 | Set  | 1.00 | 200.00  | 200.00   |
| 4332    | (e) Cost of welding rod                                                                                                                                                                                                                                                      | Job  | 1.00 | 40.00   | 40.00    |
|         | Cartage @1% of A                                                                                                                                                                                                                                                             |      |      |         | 50.45    |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 5045.00  |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 5095.45  |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                              | day  | 0.25 | 420.00  | 105.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                       | day  | 0.25 | 463.00  | 115.75   |
| 0161    | Helper                                                                                                                                                                                                                                                                       | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                                                                                                                                                                                                                                                        |      |      |         | 373.75   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                             |      |      |         | 5469.20  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                     |      |      |         | 768.42   |
|         |                                                                                                                                                                                                                                                                              |      |      | Total   | 6237.62  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                      |      |      |         | 935.64   |
|         | Total                                                                                                                                                                                                                                                                        |      |      |         | 7173.27  |
|         | add 1% labour cess                                                                                                                                                                                                                                                           |      |      |         | 71.73    |
|         | Rate of Each                                                                                                                                                                                                                                                                 |      |      |         | 7245.00  |
|         | Say                                                                                                                                                                                                                                                                          |      |      |         | 7245.00  |

| ICD No. | Description                                                                                                                                                                                                                           | Unit        | Qty.        | Rate ₹      | Amount ₹        |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|
| 10.2    | <b>Single headed Stainless steel</b>                                                                                                                                                                                                  |             |             |             |                 |
| ICD No. | <b>Description</b>                                                                                                                                                                                                                    | <b>Unit</b> | <b>Qty.</b> | <b>Rate</b> | <b>Amount</b> □ |
| A       | <b>Materials</b>                                                                                                                                                                                                                      |             |             |             |                 |
| 4202    | (a) Cost of Single Head Stainless Steel Hydrant Valve                                                                                                                                                                                 | Each        | 1.00        | 3547.00     | 3547.00         |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS                                                                                                                                                                                          | Set         | 1.00        | 50.00       | 50.00           |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket                                                                                                                                                                                             | Each        | 1.00        | 70.00       | 70.00           |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling 16mm thick LS                                                                                                                                                                          | Set         | 1.00        | 200.00      | 200.00          |
| 4332    | (e) Cost of welding rod                                                                                                                                                                                                               | Job         | 1.00        | 40.00       | 40.00           |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 3907.00         |
|         | Cartage @1% of A                                                                                                                                                                                                                      |             |             |             | 39.07           |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 3946.07         |
| B       | <b>Labour</b>                                                                                                                                                                                                                         |             |             |             |                 |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                       | day         | 0.25        | 420.00      | 105.00          |
| 0L15    | Welder                                                                                                                                                                                                                                | day         | 0.25        | 463.00      | 115.75          |
| 0161    | Helper                                                                                                                                                                                                                                | day         | 0.50        | 306.00      | 153.00          |
|         | Total                                                                                                                                                                                                                                 |             |             |             | 373.75          |
|         | Total of A+B Rs.                                                                                                                                                                                                                      |             |             |             | 4319.82         |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                              |             |             |             | 606.93          |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 4926.75         |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                               |             |             |             | 739.01          |
|         | Total                                                                                                                                                                                                                                 |             |             |             | 5665.77         |
|         | add 1% labour cess                                                                                                                                                                                                                    |             |             |             | 56.66           |
|         | Rate of Each                                                                                                                                                                                                                          |             |             |             | 5722.43         |
|         | Say                                                                                                                                                                                                                                   |             |             |             | 5722.00         |
| 11      | <b>Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :</b> |             |             |             |                 |
| 11.1    | <b>40 mm dia</b>                                                                                                                                                                                                                      |             |             |             |                 |
| A       | <b>Materials</b>                                                                                                                                                                                                                      |             |             |             |                 |
| 4234    | (a) Cost of 40mm dia butterfly valve                                                                                                                                                                                                  | Each        | 1.00        | 1948.00     | 1948.00         |
| 4333    | (b) Cost of 40mm dia Flange                                                                                                                                                                                                           | Each        | 2.00        | 110.00      | 220.00          |
| 4334    | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets                                                                                                                                                                               | Each        | 1.00        | 90.00       | 90.00           |
| 4335    | (d) Cost of weldign rod LS                                                                                                                                                                                                            | Each        | 1.00        | 60.00       | 60.00           |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 2318.00         |
|         | Cartage @1% of A                                                                                                                                                                                                                      |             |             |             | 23.18           |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 2341.18         |
| B       | <b>Labour</b>                                                                                                                                                                                                                         |             |             |             |                 |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                       | day         | 0.15        | 420.00      | 63.00           |
| 0L15    | Welder                                                                                                                                                                                                                                | day         | 0.12        | 463.00      | 55.56           |
| 0161    | Helper                                                                                                                                                                                                                                | day         | 0.27        | 306.00      | 82.62           |
|         | Total                                                                                                                                                                                                                                 |             |             |             | 201.18          |
|         | Total of A+B Rs.                                                                                                                                                                                                                      |             |             |             | 2542.36         |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                              |             |             |             | 357.20          |
|         |                                                                                                                                                                                                                                       |             |             | Total       | 2899.56         |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                               |             |             |             | 434.93          |
|         | Total                                                                                                                                                                                                                                 |             |             |             | 3334.50         |
|         | add 1% labour cess                                                                                                                                                                                                                    |             |             |             | 33.34           |
|         | Rate of Each                                                                                                                                                                                                                          |             |             |             | 3367.84         |
|         | Say                                                                                                                                                                                                                                   |             |             |             | 3368.00         |














| ICD No. | Description                                                                                                                                                                                                                           | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|----------|
| 10.2    | <b>Single headed Stainless steel</b>                                                                                                                                                                                                  |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                      |      |      |         |          |
| 4202    | (a) Cost of Single Head Stainless Steel Hydrant Valve                                                                                                                                                                                 | Each | 1.00 | 3547.00 | 3547.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS                                                                                                                                                                                          | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket                                                                                                                                                                                             | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling 16mm thick LS                                                                                                                                                                          | Set  | 1.00 | 200.00  | 200.00   |
| 4332    | (e) Cost of welding rod                                                                                                                                                                                                               | Job  | 1.00 | 40.00   | 40.00    |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 3907.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                      |      |      |         | 39.07    |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 3946.07  |
| B       | <b>Labour</b>                                                                                                                                                                                                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                       | day  | 0.25 | 420.00  | 105.00   |
| 0L15    | Welder                                                                                                                                                                                                                                | day  | 0.25 | 463.00  | 115.75   |
| 0161    | Helper                                                                                                                                                                                                                                | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                                                                                                                                                                                                                 |      |      |         | 373.75   |
|         | Total of A+B Rs.                                                                                                                                                                                                                      |      |      |         | 4319.82  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                              |      |      |         | 606.93   |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 4926.75  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                               |      |      |         | 739.01   |
|         | Total                                                                                                                                                                                                                                 |      |      |         | 5665.77  |
|         | add 1% labour cess                                                                                                                                                                                                                    |      |      |         | 56.66    |
|         | Rate of Each                                                                                                                                                                                                                          |      |      |         | 5722.43  |
|         | Say                                                                                                                                                                                                                                   |      |      |         | 5722.00  |
| 11      | <b>Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :</b> |      |      |         |          |
| 11.1    | <b>40 mm dia</b>                                                                                                                                                                                                                      |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                      |      |      |         |          |
| 4234    | (a) Cost of 40mm dia butterfly valve                                                                                                                                                                                                  | Each | 1.00 | 1948.00 | 1948.00  |
| 4333    | (b) Cost of 40mm dia Flange                                                                                                                                                                                                           | Each | 2.00 | 110.00  | 220.00   |
| 4334    | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets                                                                                                                                                                               | Each | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of weldign rod LS                                                                                                                                                                                                            | Each | 1.00 | 60.00   | 60.00    |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 2318.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                      |      |      |         | 23.18    |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 2341.18  |
| B       | <b>Labour</b>                                                                                                                                                                                                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                       | day  | 0.15 | 420.00  | 63.00    |
| 0L15    | Welder                                                                                                                                                                                                                                | day  | 0.12 | 463.00  | 55.56    |
| 0161    | Helper                                                                                                                                                                                                                                | day  | 0.27 | 306.00  | 82.62    |
|         | Total                                                                                                                                                                                                                                 |      |      |         | 201.18   |
|         | Total of A+B Rs.                                                                                                                                                                                                                      |      |      |         | 2542.36  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                              |      |      |         | 357.20   |
|         |                                                                                                                                                                                                                                       |      |      | Total   | 2899.56  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                               |      |      |         | 434.93   |
|         | Total                                                                                                                                                                                                                                 |      |      |         | 3334.50  |
|         | add 1% labour cess                                                                                                                                                                                                                    |      |      |         | 33.34    |
|         | Rate of Each                                                                                                                                                                                                                          |      |      |         | 3367.84  |
|         | Say                                                                                                                                                                                                                                   |      |      |         | 3368.00  |
| 11.2    | <b>50mm dia</b>                                                                                                                                                                                                                       |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                      |      |      |         |          |

| ICD No.               | Description                                             | Unit | Qty. | Rate ₹  | Amount ₹ |
|-----------------------|---------------------------------------------------------|------|------|---------|----------|
| 4235                  | (a) Cost of 50mm dia butterfly valve                    | Each | 1.00 | 1948.00 | 1948.00  |
| 4337                  | (b) Cost of 50mm dia Flange                             | Each | 2.00 | 110.00  | 220.00   |
| 4334                  | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 90.00   | 90.00    |
| 4335                  | (d) Cost of weldign rod LS                              | Each |      | 60.00   | 0.00     |
|                       |                                                         |      |      | Total   | 2258.00  |
|                       | Cartage @1% of A                                        |      |      |         | 22.58    |
|                       |                                                         |      |      | Total   | 2280.58  |
| <b>B Labour</b>       |                                                         |      |      |         |          |
| 0116                  | Fitter, Grade 1                                         | day  | 0.22 | 420.00  | 92.40    |
| 0L15                  | Welder                                                  | day  | 0.15 | 463.00  | 69.45    |
| 0161                  | Helper                                                  | day  | 0.37 | 306.00  | 113.22   |
|                       | Total                                                   |      |      |         | 275.07   |
|                       | Total of A+B Rs.                                        |      |      |         | 2555.65  |
|                       | Add 12% GST (MF= 0.1405)                                |      |      |         | 359.07   |
|                       |                                                         |      |      | Total   | 2914.72  |
| <b>C</b>              | Overhead & Profit @ 15%                                 |      |      |         | 437.21   |
|                       | Total                                                   |      |      |         | 3351.93  |
|                       | add 1% labour cess                                      |      |      |         | 33.52    |
|                       | Rate of Each                                            |      |      |         | 3385.45  |
|                       | Say                                                     |      |      |         | 3385.00  |
| <b>11.3 65 mm dia</b> |                                                         |      |      |         |          |
| <b>A Materials</b>    |                                                         |      |      |         |          |
| 4236                  | (a) Cost of 65 mm dia butterfly valve                   | Each | 1.00 | 2150.00 | 2150.00  |
| 4338                  | (b) Cost of 65 mm dia Flange                            | Each | 2.00 | 110.00  | 220.00   |
| 4334                  | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 90.00   | 90.00    |
| 4335                  | (d) Cost of weldign rod LS                              | Each | 1.00 | 60.00   | 60.00    |
|                       |                                                         |      |      | Total   | 2520.00  |
|                       | Cartage @1% of A                                        |      |      |         | 25.20    |
|                       |                                                         |      |      | Total   | 2545.20  |
| <b>B Labour</b>       |                                                         |      |      |         |          |
| 0116                  | Fitter, Grade 1                                         | day  | 0.30 | 420.00  | 126.00   |
| 0L15                  | Welder                                                  | day  | 0.20 | 463.00  | 92.60    |
| 0161                  | Helper                                                  | day  | 0.50 | 306.00  | 153.00   |
|                       | Total                                                   |      |      |         | 371.60   |
|                       | Total of A+B Rs.                                        |      |      |         | 2916.80  |
|                       | Add 12% GST (MF= 0.1405)                                |      |      |         | 409.81   |
|                       |                                                         |      |      | Total   | 3326.61  |
| <b>C</b>              | Overhead & Profit @ 15%                                 |      |      |         | 498.99   |
|                       | Total                                                   |      |      |         | 3825.60  |
|                       | add 1% labour cess                                      |      |      |         | 38.26    |
|                       | Rate of Each                                            |      |      |         | 3863.86  |
|                       | Say                                                     |      |      |         | 3864.00  |
| <b>11.4 80 mm dia</b> |                                                         |      |      |         |          |
| <b>A Materials</b>    |                                                         |      |      |         |          |
| 4237                  | (a) Cost of 80 mm dia butterfly valve                   | Each | 1.00 | 2382.00 | 2382.00  |
| 4340                  | (b) Cost of 80 mm dia Flange                            | Each | 2.00 | 220.00  | 440.00   |
| 4341                  | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 180.00  | 180.00   |
| 4342                  | (d) Cost of weldign rod LS                              | Each | 1.00 | 90.00   | 90.00    |
|                       |                                                         |      |      | Total   | 3092.00  |
|                       | Cartage @1% of A                                        |      |      |         | 30.92    |
|                       |                                                         |      |      | Total   | 3122.92  |














| ICD No. | Description                                             | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|---------------------------------------------------------|------|------|---------|----------|
| B       | <b>Labour</b>                                           |      |      |         |          |
| 0116    | Fitter, Grade 1                                         | day  | 0.30 | 420.00  | 126.00   |
| 0L15    | Welder                                                  | day  | 0.16 | 463.00  | 74.08    |
| 0161    | Helper                                                  | day  | 0.46 | 306.00  | 140.76   |
|         | Total                                                   |      |      |         | 340.84   |
|         | Total of A+B Rs.                                        |      |      |         | 3463.76  |
|         | Add 12% GST (MF= 0.1405)                                |      |      |         | 486.66   |
|         |                                                         |      |      | Total   | 3950.42  |
| C       | Overhead & Profit @ 15%                                 |      |      |         | 592.56   |
|         | Total                                                   |      |      |         | 4542.98  |
|         | add 1% labour cess                                      |      |      |         | 45.43    |
|         | Rate of Each                                            |      |      |         | 4588.41  |
|         | Say                                                     |      |      |         | 4588.00  |
| 11.5    | <b>100 mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                        |      |      |         |          |
| 4238    | (a) Cost of 100 mm dia butterfly valve                  | Each | 1.00 | 3305.00 | 3305.00  |
| 4343    | (b) Cost of 100 mm dia Flange                           | Each | 2.00 | 220.00  | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 180.00  | 180.00   |
| 4342    | (d) Cost of weldign rod LS                              | Each | 1.00 | 90.00   | 90.00    |
|         | Total                                                   |      |      |         | 4015.00  |
|         | Cartage @1% of A                                        |      |      |         | 40.15    |
|         |                                                         |      |      | Total   | 4055.15  |
| B       | <b>Labour</b>                                           |      |      |         |          |
| 0116    | Fitter, Grade 1                                         | day  | 0.50 | 420.00  | 210.00   |
| 0L15    | Welder                                                  | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                  | day  | 0.70 | 306.00  | 214.20   |
|         | Total                                                   |      |      |         | 516.80   |
|         | Total of A+B Rs.                                        |      |      |         | 4571.95  |
|         | Add 12% GST (MF= 0.1405)                                |      |      |         | 642.36   |
|         |                                                         |      |      | Total   | 5214.31  |
| C       | Overhead & Profit @ 15%                                 |      |      |         | 782.15   |
|         | Total                                                   |      |      |         | 5996.46  |
|         | add 1% labour cess                                      |      |      |         | 59.96    |
|         | Rate of Each                                            |      |      |         | 6056.42  |
|         | Say                                                     |      |      |         | 6056.00  |
| 11.6    | <b>150 mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                        |      |      |         |          |
| 4240    | (a) Cost of 150 mm dia butterfly valve                  | Each | 1.00 | 4803.00 | 4803.00  |
| 4344    | (b) Cost of 150 mm dia Flange                           | Each | 2.00 | 220.00  | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 180.00  | 180.00   |
| 4342    | (d) Cost of weldign rod LS                              | Each | 1.00 | 90.00   | 90.00    |
|         | Total                                                   |      |      |         | 5513.00  |
|         | Cartage @1% of A                                        |      |      |         | 55.13    |
|         |                                                         |      |      | Total   | 5568.13  |
| B       | <b>Labour</b>                                           |      |      |         |          |
| 0116    | Fitter, Grade 1                                         | day  | 0.50 | 420.00  | 210.00   |
| 0L15    | Welder                                                  | day  | 0.50 | 463.00  | 231.50   |
| 0161    | Helper                                                  | day  | 0.69 | 306.00  | 211.14   |
|         | Total                                                   |      |      |         | 652.64   |
|         | Total of A+B Rs.                                        |      |      |         | 6220.77  |
|         | Add 12% GST (MF= 0.1405)                                |      |      |         | 874.02   |
|         |                                                         |      |      | Total   | 7094.79  |
| C       | Overhead & Profit @ 15%                                 |      |      |         | 1064.22  |

| ICD No. | Description                                              | Unit | Qty. | Rate ₹   | Amount ₹ |
|---------|----------------------------------------------------------|------|------|----------|----------|
|         | Total                                                    |      |      |          | 8159.01  |
|         | add 1% labour cess                                       |      |      |          | 81.59    |
|         | Rate of Each                                             |      |      |          | 8240.60  |
|         | Say                                                      |      |      |          | 8241.00  |
| 11.7    | <b>200 mm dia</b>                                        |      |      |          |          |
| A       | <b>Materials</b>                                         |      |      |          |          |
| 4241    | (a) Cost of 200 mm dia butterfly valve                   | Each | 1.00 | 9188.00  | 9188.00  |
| 4345    | (b) Cost of 200 mm dia Flange                            | Each | 2.00 | 340.00   | 680.00   |
| 4346    | (c) Cost of 8 Nos. Nut bolt fastner and packing gaskets  | Each | 1.00 | 300.00   | 300.00   |
| 4347    | (d) Cost of weldign rod LS                               | Each | 1.00 | 120.00   | 120.00   |
|         | Total                                                    |      |      |          | 10288.00 |
|         | Cartage @1% of A                                         |      |      |          | 102.88   |
|         | Total                                                    |      |      |          | 10390.88 |
| B       | <b>Labour</b>                                            |      |      |          |          |
| 0116    | Fitter, Grade 1                                          | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                   | day  | 0.50 | 463.00   | 231.50   |
| 0161    | Helper                                                   | day  | 0.60 | 306.00   | 183.60   |
|         | Total                                                    |      |      |          | 625.10   |
|         | Total of A+B Rs.                                         |      |      |          | 11015.98 |
|         | Add 12% GST (MF= 0.1405)                                 |      |      |          | 1547.75  |
|         | Total                                                    |      |      |          | 12563.73 |
| C       | Overhead & Profit @ 15%                                  |      |      |          | 1884.56  |
|         | Total                                                    |      |      |          | 14448.28 |
|         | add 1% labour cess                                       |      |      |          | 144.48   |
|         | Rate of Each                                             |      |      |          | 14592.77 |
|         | Say                                                      |      |      |          | 14593.00 |
| 11.8    | <b>250 mm dia</b>                                        |      |      |          |          |
| A       | <b>Materials</b>                                         |      |      |          |          |
| 4242    | (a) Cost of 250 mm dia butterfly valve                   | Each | 1.00 | 12912.00 | 12912.00 |
| 4348    | (b) Cost of 250 mm dia Flange                            | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut bolt fastner and packing gaskets | Each | 1.00 | 450.00   | 450.00   |
| 4347    | (d) Cost of weldign rod LS                               | Each | 1.00 | 120.00   | 120.00   |
|         | Total                                                    |      |      |          | 14162.00 |
|         | Cartage @1% of A                                         |      |      |          | 141.62   |
|         | Total                                                    |      |      |          | 14303.62 |
| B       | <b>Labour</b>                                            |      |      |          |          |
| 0116    | Fitter, Grade 1                                          | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                   | day  | 0.50 | 463.00   | 231.50   |
| 0161    | Helper                                                   | day  | 0.70 | 306.00   | 214.20   |
|         | Total                                                    |      |      |          | 655.70   |
|         | Total of A+B Rs.                                         |      |      |          | 14959.32 |
|         | Add 12% GST (MF= 0.1405)                                 |      |      |          | 2101.78  |
|         | Total                                                    |      |      |          | 17061.10 |
| C       | Overhead & Profit @ 15%                                  |      |      |          | 2559.17  |
|         | Total                                                    |      |      |          | 19620.27 |
|         | add 1% labour cess                                       |      |      |          | 196.20   |
|         | Rate of Each                                             |      |      |          | 19816.47 |
|         | Say                                                      |      |      |          | 19816.00 |
| 11.9    | <b>300 mm dia</b>                                        |      |      |          |          |
| A       | <b>Materials</b>                                         |      |      |          |          |
| 4243    | (a) Cost of 300 mm dia butterfly valve                   | Each | 1.00 | 16105.00 | 16105.00 |
| 4349    | (b) Cost of 300 mm dia Flange                            | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut bolt fastner and packing         | Each | 1.00 | 450.00   | 450.00   |














| ICD No. | Description                                                                                                                                                                                                                                                            | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|----------|
| 4347    | (d) Cost of weldign rod LS                                                                                                                                                                                                                                             | Each | 1.00 | 120.00  | 120.00   |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 17355.00 |
|         | Cartage @1% of A                                                                                                                                                                                                                                                       |      |      |         | 173.55   |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 17528.55 |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                          |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                        | day  | 0.50 | 420.00  | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                 | day  | 0.50 | 463.00  | 231.50   |
| 0161    | Helper                                                                                                                                                                                                                                                                 | day  | 0.70 | 306.00  | 214.20   |
|         | Total                                                                                                                                                                                                                                                                  |      |      |         | 655.70   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                       |      |      |         | 18184.25 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                               |      |      |         | 2554.89  |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 20739.14 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                |      |      |         | 3110.87  |
|         | Total                                                                                                                                                                                                                                                                  |      |      |         | 23850.01 |
|         | add 1% labour cess                                                                                                                                                                                                                                                     |      |      |         | 238.50   |
|         | Rate of Each                                                                                                                                                                                                                                                           |      |      |         | 24088.51 |
|         | Say                                                                                                                                                                                                                                                                    |      |      |         | 24089.00 |
| 12      | <b>Supplying, fixing, testing &amp; commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required :</b> |      |      |         |          |
| 12.1    | <b>40mm dia</b>                                                                                                                                                                                                                                                        |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                       |      |      |         |          |
| 4274    | (a) Cost of 40 mm DIA Sluice Valve                                                                                                                                                                                                                                     | Each | 1.00 | 3540.00 | 3540.00  |
| 4333    | (b) Cost of 40 mm dia flange                                                                                                                                                                                                                                           | Each | 2.00 | 110.00  | 220.00   |
| 4334    | (c) Cost of 8 Nos. Nut Bolt fastner & packing                                                                                                                                                                                                                          | Each | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                                                                                                                                                                                                                                                | Each | 1.00 | 60.00   | 60.00    |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 3910.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                                                       |      |      |         | 39.10    |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 3949.10  |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                          |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                        | day  | 0.15 | 420.00  | 63.00    |
| 0L15    | Welder                                                                                                                                                                                                                                                                 | day  | 0.12 | 463.00  | 55.56    |
| 0161    | Helper                                                                                                                                                                                                                                                                 | day  | 0.27 | 306.00  | 82.62    |
|         | Total                                                                                                                                                                                                                                                                  |      |      |         | 201.18   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                       |      |      |         | 4150.28  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                               |      |      |         | 583.11   |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 4733.39  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                |      |      |         | 710.01   |
|         | Total                                                                                                                                                                                                                                                                  |      |      |         | 5443.40  |
|         | add 1% labour cess                                                                                                                                                                                                                                                     |      |      |         | 54.43    |
|         | Rate of Each                                                                                                                                                                                                                                                           |      |      |         | 5497.84  |
|         | Say                                                                                                                                                                                                                                                                    |      |      |         | 5498.00  |
| 12.2    | <b>50 mm dia</b>                                                                                                                                                                                                                                                       |      |      |         |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                       |      |      |         |          |
| 4275    | (a) Cost of 50 mm DIA Sluice Valve                                                                                                                                                                                                                                     | Each | 1.00 | 4532.00 | 4532.00  |
| 4337    | (b) Cost of 50 mm dia flange                                                                                                                                                                                                                                           | Each | 2.00 | 110.00  | 220.00   |
| 4334    | (c) Cost of 8 Nos. Nut Bolt fastner & packing                                                                                                                                                                                                                          | Each | 1.00 | 90.00   | 90.00    |
|         | gaskets                                                                                                                                                                                                                                                                |      |      |         |          |
| 4335    | (d) Cost of welding rod                                                                                                                                                                                                                                                | Each | 1.00 | 60.00   | 60.00    |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 4902.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                                                       |      |      |         | 49.02    |
|         |                                                                                                                                                                                                                                                                        |      |      | Total   | 4951.02  |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                          |      |      |         |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                        | day  | 0.22 | 420.00  | 92.40    |
| 0L15    | Welder                                                                                                                                                                                                                                                                 | day  | 0.15 | 463.00  | 69.45    |



| ICD No. | Description                                           | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|-------------------------------------------------------|------|------|---------|----------|
| 0161    | Helper                                                | day  | 0.37 | 306.00  | 113.22   |
|         | Total                                                 |      |      |         | 275.07   |
|         | Total of A+B Rs.                                      |      |      |         | 5226.09  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 734.27   |
|         |                                                       |      |      | Total   | 5960.36  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 894.05   |
|         | Total                                                 |      |      |         | 6854.41  |
|         | add 1% labour cess                                    |      |      |         | 68.54    |
|         | Rate of Each                                          |      |      |         | 6922.95  |
|         | Say                                                   |      |      |         | 6923.00  |
| 12.3    | <b>65mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4276    | (a) Cost of 65 mm DIA Sluice Valve                    | Each | 1.00 | 5875.00 | 5875.00  |
| 4338    | (b) Cost of 65 mm dia flange                          | Each | 2.00 | 110.00  | 220.00   |
| 4334    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         | Total                                                 |      |      |         | 6245.00  |
|         | Cartage @1% of A                                      |      |      |         | 62.45    |
|         | Total                                                 |      |      |         | 6307.45  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.30 | 420.00  | 126.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                                 |      |      |         | 371.60   |
|         | Total of A+B Rs.                                      |      |      |         | 6679.05  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 938.41   |
|         |                                                       |      |      | Total   | 7617.46  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 1142.62  |
|         | Total                                                 |      |      |         | 8760.08  |
|         | add 1% labour cess                                    |      |      |         | 87.60    |
|         | Rate of Each                                          |      |      |         | 8847.68  |
|         | Say                                                   |      |      |         | 8848.00  |
| 12.4    | <b>80mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4277    | (a) Cost of 80 mm DIA Sluice Valve                    | Each | 1.00 | 6663.00 | 6663.00  |
| 4340    | (b) Cost of 80mm dia flange                           | Each | 2.00 | 220.00  | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00  | 180.00   |
| 4342    | (d) Cost of welding rod                               | Each | 1.00 | 90.00   | 90.00    |
|         | Total                                                 |      |      |         | 7373.00  |
|         | Cartage @1% of A                                      |      |      |         | 73.73    |
|         | Total                                                 |      |      |         | 7446.73  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.30 | 420.00  | 126.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                | day  | 0.46 | 306.00  | 140.76   |
|         | Total                                                 |      |      |         | 359.36   |
|         | Total of A+B Rs.                                      |      |      |         | 7806.09  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 1096.76  |
|         |                                                       |      |      | Total   | 8902.85  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 1335.43  |
|         | Total                                                 |      |      |         | 10238.27 |
|         | add 1% labour cess                                    |      |      |         | 102.38   |
|         | Rate of Each                                          |      |      |         | 10340.66 |
|         | Say                                                   |      |      |         | 10341.00 |














| ICD No. | Description                                           | Unit | Qty. | Rate ₹   | Amount ₹        |
|---------|-------------------------------------------------------|------|------|----------|-----------------|
| 12.5    | <b>100mm dia</b>                                      |      |      |          |                 |
| A       | <b>Materials</b>                                      |      |      |          |                 |
| 4278    | (a) Cost of 100 mm DIA Sluice Valve                   | Each | 1.00 | 9324.00  | 9324.00         |
| 4343    | (b) Cost of 100mm dia flange                          | Each | 2.00 | 220.00   | 440.00          |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00   | 180.00          |
| 4342    | (d) Cost of welding rod                               | Each | 1.00 | 90.00    | 90.00           |
|         |                                                       |      |      | Total    | 10034.00        |
|         | Cartage @1% of A                                      |      |      |          | 100.34          |
|         |                                                       |      |      | Total    | 10134.34        |
| B       | <b>Labour</b>                                         |      |      |          |                 |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00          |
| 0L15    | Welder                                                | day  | 0.20 | 463.00   | 92.60           |
| 0161    | Helper                                                | day  | 0.70 | 306.00   | 214.20          |
|         | Total                                                 |      |      |          | 516.80          |
|         | Total of A+B Rs.                                      |      |      |          | 10651.14        |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 1496.49         |
|         |                                                       |      |      | Total    | 12147.63        |
| C       | Overhead & Profit @ 15%                               |      |      |          | 1822.14         |
|         | Total                                                 |      |      |          | 13969.77        |
|         | add 1% labour cess                                    |      |      |          | 139.70          |
|         | Rate of Each                                          |      |      |          | 14109.47        |
|         | Say                                                   |      |      |          | 14109.00        |
| 12.6    | <b>150mm dia</b>                                      |      |      |          |                 |
| A       | <b>Materials</b>                                      |      |      |          |                 |
| 4280    | (a) Cost of 150mm DIA Sluice Valve                    | Each | 1.00 | 15461.00 | 15461.00        |
| 4344    | (b) Cost of 150mm dia flange                          | Each | 2.00 | 220.00   | 440.00          |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00   | 180.00          |
| 4342    | (d) Cost of welding rod                               | Each | 1.00 | 90.00    | 90.00           |
|         |                                                       |      |      | Total    | 16171.00        |
|         | Cartage @1% of A                                      |      |      |          | 161.71          |
|         |                                                       |      |      | Total    | 16332.71        |
| B       | <b>Labour</b>                                         |      |      |          |                 |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00          |
| 0L15    | Welder                                                | day  | 0.20 | 463.00   | 92.60           |
| 0161    | Helper                                                | day  | 0.69 | 306.00   | 211.14          |
|         | Total                                                 |      |      |          | 513.74          |
|         | Total of A+B Rs.                                      |      |      |          | 16846.45        |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 2366.93         |
|         |                                                       |      |      | Total    | 19213.38        |
| C       | Overhead & Profit @ 15%                               |      |      |          | 2882.01         |
|         | Total                                                 |      |      |          | 22095.38        |
|         | add 1% labour cess                                    |      |      |          | 220.95          |
|         | Rate of Each                                          |      |      |          | 22316.34        |
|         | Say                                                   |      |      |          | <b>22316.00</b> |
| 12.7    | <b>200mm dia</b>                                      |      |      |          |                 |
| A       | <b>Materials</b>                                      |      |      |          |                 |
| 4281    | (a) Cost of 200mm DIA Sluice Valve                    | Each | 1.00 | 27639.00 | 27639.00        |
| 4345    | (b) Cost of 200mm dia flange                          | Each | 2.00 | 340.00   | 680.00          |
| 4346    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 300.00   | 300.00          |
| 4347    | (d) Cost of welding rod                               | Each | 1.00 | 120.00   | 120.00          |
|         |                                                       |      |      | Total    | 28739.00        |
|         | Cartage @1% of A                                      |      |      |          | 287.39          |

| ICD No. | Description                                            | Unit        | Qty.        | Rate ₹      | Amount ₹        |
|---------|--------------------------------------------------------|-------------|-------------|-------------|-----------------|
|         |                                                        |             |             | Total       | 29026.39        |
| B       | <b>Labour</b>                                          |             |             |             |                 |
| 0116    | Fitter, Grade 1                                        | day         | 0.50        | 420.00      | 210.00          |
| 0L15    | Welder                                                 | day         | 0.20        | 463.00      | 92.60           |
| 0161    | Helper                                                 | day         | 0.60        | 306.00      | 183.60          |
|         | Total                                                  |             |             |             | 486.20          |
|         | Total of A+B Rs.                                       |             |             |             | 29512.59        |
|         | Add 12% GST (MF= 0.1405)                               |             |             |             | 4146.52         |
|         |                                                        |             |             | Total       | 33659.11        |
| C       | Overhead & Profit @ 15%                                |             |             |             | 5048.87         |
|         | Total                                                  |             |             |             | 38707.98        |
|         | add 1% labour cess                                     |             |             |             | 387.08          |
|         | Rate of Each                                           |             |             |             | 39095.05        |
|         | Say                                                    |             |             |             | <b>39095.00</b> |
| 12.8    | <b>250mm dia</b>                                       |             |             |             |                 |
| ICD No. | <b>Description</b>                                     | <b>Unit</b> | <b>Qty.</b> | <b>Rate</b> | <b>Amount</b> □ |
| A       | <b>Materials</b>                                       |             |             |             |                 |
| 4282    | (a) Cost of 250 mm DIA Sluice Valve                    | Each        | 1.00        | 32913.00    | 32913.00        |
| 4348    | (b) Cost of 250 mm dia flange                          | Each        | 2.00        | 340.00      | 680.00          |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets | Each        | 1.00        | 450.00      | 450.00          |
| 4347    | (d) Cost of welding rod                                | Each        | 1.00        | 120.00      | 120.00          |
|         | Total                                                  |             |             |             | 34163.00        |
|         | Cartage @1% of A                                       |             |             |             | 341.63          |
|         |                                                        |             |             | Total       | 34504.63        |
| B       | <b>Labour</b>                                          |             |             |             |                 |
| 0116    | Fitter, Grade 1                                        | day         | 0.50        | 420.00      | 210.00          |
| 0L15    | Welder                                                 | day         | 0.20        | 463.00      | 92.60           |
| 0161    | Helper                                                 | day         | 0.60        | 306.00      | 183.60          |
|         | Total                                                  |             |             |             | 486.20          |
|         | Total of A+B Rs.                                       |             |             |             | 34990.83        |
|         | Add 12% GST (MF= 0.1405)                               |             |             |             | 4916.21         |
|         |                                                        |             |             | Total       | 39907.04        |
| C       | Overhead & Profit @ 15%                                |             |             |             | 5986.06         |
|         | Total                                                  |             |             |             | 45893.10        |
|         | add 1% labour cess                                     |             |             |             | 458.93          |
|         | Rate of Each                                           |             |             |             | 46352.03        |
|         | Say                                                    |             |             |             | 46352.00        |
| 12.9    | <b>300mm dia</b>                                       |             |             |             |                 |
| A       | <b>Materials</b>                                       |             |             |             |                 |
| 4283    | (a) Cost of 300mm DIA Sluice Valve                     | Each        | 1.00        | 47409.00    | 47409.00        |
| 4349    | (b) Cost of 300mm dia flange                           | Each        | 2.00        | 340.00      | 680.00          |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing         | Each        | 1.00        | 450.00      | 450.00          |
| 4347    | (d) Cost of welding rod                                | Each        | 1.00        | 120.00      | 120.00          |
|         | Total                                                  |             |             |             | 48659.00        |
|         | Cartage @1% of A                                       |             |             |             | 486.59          |
|         |                                                        |             |             | Total       | 49145.59        |
| B       | <b>Labour</b>                                          |             |             |             |                 |
| 0116    | Fitter, Grade 1                                        | day         | 0.50        | 420.00      | 210.00          |
| 0L15    | Welder                                                 | day         | 0.20        | 463.00      | 92.60           |
| 0161    | Helper                                                 | day         | 0.60        | 306.00      | 183.60          |
|         | Total                                                  |             |             |             | 486.20          |
|         | Total of A+B Rs.                                       |             |             |             | 49631.79        |
|         | Add 12% GST (MF= 0.1405)                               |             |             |             | 6973.27         |
|         |                                                        |             |             | Total       | 56605.06        |














| ICD No.   | Description                                                                                                                                                                                                                                                                                    | Unit | Qty. | Rate ₹  | Amount ₹ |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|----------|
| C         | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                        |      |      |         | 8490.76  |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 65095.81 |
|           | add 1% labour cess                                                                                                                                                                                                                                                                             |      |      |         | 650.96   |
|           | Rate of Each                                                                                                                                                                                                                                                                                   |      |      |         | 65746.77 |
|           | Say                                                                                                                                                                                                                                                                                            |      |      |         | 65747.00 |
| <b>13</b> | <b>Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange &amp; landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm2 complete as required.</b> |      |      |         |          |
| A         | <b>Materials</b>                                                                                                                                                                                                                                                                               |      |      |         |          |
| 4319      | (a) Cost of orifice plate                                                                                                                                                                                                                                                                      | Each | 1.00 | 802.00  | 802.00   |
| 4363      | (b) Cost of packing gaskets                                                                                                                                                                                                                                                                    | LS   | 1.00 | 50.00   | 50.00    |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 852.00   |
|           | Cartage @1% of A                                                                                                                                                                                                                                                                               |      |      |         | 8.52     |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 860.52   |
| B         | <b>Labour</b>                                                                                                                                                                                                                                                                                  |      |      |         |          |
| 0116      | Fitter, Grade 1                                                                                                                                                                                                                                                                                | day  | 0.1  | 420.00  | 42.00    |
| 0161      | Helper                                                                                                                                                                                                                                                                                         | day  | 0.1  | 306.00  | 30.60    |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 72.60    |
|           | Total of A+B Rs.                                                                                                                                                                                                                                                                               |      |      |         | 933.12   |
|           | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                       |      |      |         | 131.10   |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 1064.22  |
| C         | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                        |      |      |         | 159.63   |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 1223.86  |
|           | add 1% labour cess                                                                                                                                                                                                                                                                             |      |      |         | 12.24    |
|           | Rate of Each                                                                                                                                                                                                                                                                                   |      |      |         | 1236.10  |
|           | Say                                                                                                                                                                                                                                                                                            |      |      |         | 1236.00  |
| <b>14</b> | <b>Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :</b>                                                                                                 |      |      |         |          |
| 14.1      | <b>40mm dia</b>                                                                                                                                                                                                                                                                                |      |      |         |          |
| A         | <b>Materials</b>                                                                                                                                                                                                                                                                               |      |      |         |          |
| 4264      | (a) Cost of 40 mm dia Non Return Valve                                                                                                                                                                                                                                                         | Each | 1.00 | 3311.00 | 3311.00  |
| 4333      | (b) Cost of 40 mm dia flange                                                                                                                                                                                                                                                                   | Each | 2.00 | 110.00  | 220.00   |
| 4334      | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets                                                                                                                                                                                                                                          | Each | 1.00 | 90.00   | 90.00    |
| 4335      | (d) Cost of welding rod                                                                                                                                                                                                                                                                        | Each | 1.00 | 60.00   | 60.00    |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 3681.00  |
|           | Cartage @1% of A                                                                                                                                                                                                                                                                               |      |      |         | 36.81    |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 3717.81  |
| B         | <b>Labour</b>                                                                                                                                                                                                                                                                                  |      |      |         |          |
| 0116      | Fitter, Grade 1                                                                                                                                                                                                                                                                                | day  | 0.32 | 420.00  | 134.40   |
| 0115      | Welder                                                                                                                                                                                                                                                                                         | day  | 0.15 | 463.00  | 69.45    |
| 0161      | Helper                                                                                                                                                                                                                                                                                         | day  | 0.48 | 306.00  | 146.88   |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 350.73   |
|           | Total of A+B Rs.                                                                                                                                                                                                                                                                               |      |      |         | 4068.54  |
|           | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                       |      |      |         | 571.63   |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 4640.17  |
| C         | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                        |      |      |         | 696.03   |
|           | Total                                                                                                                                                                                                                                                                                          |      |      |         | 5336.20  |
|           | add 1% labour cess                                                                                                                                                                                                                                                                             |      |      |         | 53.36    |
|           | Rate of Each                                                                                                                                                                                                                                                                                   |      |      |         | 5389.56  |
|           | Say                                                                                                                                                                                                                                                                                            |      |      |         | 5390.00  |
| 14.2      | <b>50mm dia</b>                                                                                                                                                                                                                                                                                |      |      |         |          |
| A         | <b>Materials</b>                                                                                                                                                                                                                                                                               |      |      |         |          |
| 4265      | (a) Cost of 50 mm dia Non Return Valve                                                                                                                                                                                                                                                         | Each | 1.00 | 3311.00 | 3311.00  |
| 4337      | (b) Cost of 50 mm dia flange                                                                                                                                                                                                                                                                   | Each | 2.00 | 110.00  | 220.00   |

| ICD No. | Description                                           | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|-------------------------------------------------------|------|------|---------|----------|
| 4334    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         |                                                       |      |      | Total   | 3681.00  |
|         | Cartage @1% of A                                      |      |      |         | 36.81    |
|         |                                                       |      |      | Total   | 3717.81  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.32 | 420.00  | 134.40   |
| 0L15    | Welder                                                | day  | 0.15 | 463.00  | 69.45    |
| 0161    | Helper                                                | day  | 0.48 | 306.00  | 146.88   |
|         | Total                                                 |      |      |         | 350.73   |
|         | Total of A+B Rs.                                      |      |      |         | 4068.54  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 571.63   |
|         |                                                       |      |      | Total   | 4640.17  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 696.03   |
|         | Total                                                 |      |      |         | 5336.20  |
|         | add 1% labour cess                                    |      |      |         | 53.36    |
|         | Rate of Each                                          |      |      |         | 5389.56  |
|         | Say                                                   |      |      |         | 5390.00  |
| 14.3    | <b>65mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4266    | (a) Cost of 65 mm dia Non Return Valve                | Each | 1.00 | 3785.00 | 3785.00  |
| 4338    | (b) Cost of 65 mm dia flange                          | Each | 2.00 | 110.00  | 220.00   |
| 4334    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         |                                                       |      |      | Total   | 4155.00  |
|         | Cartage @1% of A                                      |      |      |         | 41.55    |
|         |                                                       |      |      | Total   | 4196.55  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.32 | 420.00  | 134.40   |
| 0L15    | Welder                                                | day  | 0.15 | 463.00  | 69.45    |
| 0161    | Helper                                                | day  | 0.48 | 306.00  | 146.88   |
|         | Total                                                 |      |      |         | 350.73   |
|         | Total of A+B Rs.                                      |      |      |         | 4547.28  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 638.89   |
|         |                                                       |      |      | Total   | 5186.17  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 777.93   |
|         | Total                                                 |      |      |         | 5964.10  |
|         | add 1% labour cess                                    |      |      |         | 59.64    |
|         | Rate of Each                                          |      |      |         | 6023.74  |
|         | Say                                                   |      |      |         | 6024.00  |
| 14.4    | <b>80mm dia</b>                                       |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4267    | (a) Cost of 80 mm dia Non Return Valve                | Each | 1.00 | 4366.00 | 4366.00  |
| 4340    | (b) Cost of 80 mm dia flange                          | Each | 2.00 | 220.00  | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00  | 180.00   |
| 4342    | (d) Cost of welding rod                               | Each | 1.00 | 90.00   | 90.00    |
|         |                                                       |      |      | Total   | 5076.00  |
|         | Cartage @1% of A                                      |      |      |         | 50.76    |
|         |                                                       |      |      | Total   | 5126.76  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.32 | 420.00  | 134.40   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |











| ICD No. | Description                                           | Unit | Qty. | Rate ₹   | Amount ₹ |
|---------|-------------------------------------------------------|------|------|----------|----------|
| 0161    | Helper                                                | day  | 0.48 | 306.00   | 146.88   |
|         | Total                                                 |      |      |          | 373.88   |
|         | Total of A+B Rs.                                      |      |      |          | 5500.64  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 772.84   |
|         |                                                       |      |      | Total    | 6273.48  |
| C       | Overhead & Profit @ 15%                               |      |      |          | 941.02   |
|         | Total                                                 |      |      |          | 7214.50  |
|         | add 1% labour cess                                    |      |      |          | 72.15    |
|         | Rate of Each                                          |      |      |          | 7286.65  |
|         | Say                                                   |      |      |          | 7287.00  |
| 14.5    | <b>100mm dia</b>                                      |      |      |          |          |
| A       | <b>Materials</b>                                      |      |      |          |          |
| 4268    | (a) Cost of 100 mm dia Non Return Valve               | Each | 1.00 | 6607.00  | 6607.00  |
| 4343    | (b) Cost of 100 mm dia flange                         | Each | 2.00 | 220.00   | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00   | 180.00   |
| 4342    | (d) Cost of welding rod                               | Job  | 1.00 | 90.00    | 90.00    |
|         | Total                                                 |      |      |          | 7317.00  |
|         | Cartage @1% of A                                      |      |      |          | 73.17    |
|         |                                                       |      |      | Total    | 7390.17  |
| B       | <b>Labour</b>                                         |      |      |          |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                | day  | 0.71 | 306.00   | 217.26   |
|         | Total                                                 |      |      |          | 519.86   |
|         | Total of A+B Rs.                                      |      |      |          | 7910.03  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 1111.36  |
|         |                                                       |      |      | Total    | 9021.39  |
| C       | Overhead & Profit @ 15%                               |      |      |          | 1353.21  |
|         | Total                                                 |      |      |          | 10374.60 |
|         | add 1% labour cess                                    |      |      |          | 103.75   |
|         | Rate of Each                                          |      |      |          | 10478.34 |
|         | Say                                                   |      |      |          | 10478.00 |
| 14.6    | <b>125mm dia</b>                                      |      |      |          |          |
| A       | <b>Materials</b>                                      |      |      |          |          |
| 4269    | (a) Cost of 125 mm dia Non Return Valve               | Each | 1.00 | 10290.00 | 10290.00 |
| 4351    | (b) Cost of 125 mm dia flange                         | Each | 2.00 | 220.00   | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00   | 180.00   |
| 4342    | (d) Cost of welding rod                               | Each | 1.00 | 90.00    | 90.00    |
|         | Total                                                 |      |      |          | 11000.00 |
|         | Cartage @1% of A                                      |      |      |          | 110.00   |
|         |                                                       |      |      | Total    | 11110.00 |
| B       | <b>Labour</b>                                         |      |      |          |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                | day  | 0.69 | 306.00   | 211.14   |
|         | Total                                                 |      |      |          | 513.74   |
|         | Total of A+B Rs.                                      |      |      |          | 11623.74 |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 1633.14  |
|         |                                                       |      |      | Total    | 13256.88 |
| C       | Overhead & Profit @ 15%                               |      |      |          | 1988.53  |
|         | Total                                                 |      |      |          | 15245.41 |
|         | add 1% labour cess                                    |      |      |          | 152.45   |

| ICD No. | Description  | Unit | Qty. | Rate ₹ | Amount ₹ |
|---------|--------------|------|------|--------|----------|
|         | Rate of Each |      |      |        | 15397.86 |
|         | Say          |      |      |        | 15398.00 |

## 14.7 150mm dia

| ICD No. | Description                                           | Unit | Qty. | Rate     | Amount   |
|---------|-------------------------------------------------------|------|------|----------|----------|
| A       | <b>Materials</b>                                      |      |      |          |          |
| 4270    | (a) Cost of 150 mm dia Non Return Valve               | Each | 1.00 | 11718.00 | 11718.00 |
| 4344    | (b) Cost of 150 mm dia flange                         | Each | 2.00 | 220.00   | 440.00   |
| 4341    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 180.00   | 180.00   |
| 4342    | (d) Cost of welding rod                               | Job  | 1.00 | 90.00    | 90.00    |
|         |                                                       |      |      | Total    | 12428.00 |
|         | Cartage @1% of A                                      |      |      |          | 124.28   |
|         |                                                       |      |      | Total    | 12552.28 |
| B       | <b>Labour</b>                                         |      |      |          |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                | day  | 0.67 | 306.00   | 205.02   |
|         | Total                                                 |      |      |          | 507.62   |
|         | Total of A+B Rs.                                      |      |      |          | 13059.90 |
|         | Add 12% GST (MF= 0.1405)                              |      |      |          | 1834.92  |
|         |                                                       |      |      | Total    | 14894.82 |
| C       | Overhead & Profit @ 15%                               |      |      |          | 2234.22  |
|         | Total                                                 |      |      |          | 17129.04 |
|         | add 1% labour cess                                    |      |      |          | 171.29   |
|         | Rate of Each                                          |      |      |          | 17300.33 |
|         | Say                                                   |      |      |          | 17300.00 |

## 14.8 200mm dia

|      |                                                       |      |      |          |          |
|------|-------------------------------------------------------|------|------|----------|----------|
| A    | <b>Materials</b>                                      |      |      |          |          |
| 4271 | (a) Cost of 200 mm dia Non Return Valve               | Each | 1.00 | 20013.00 | 20013.00 |
| 4345 | (b) Cost of 200 mm dia flange                         | Each | 2.00 | 340.00   | 680.00   |
| 4346 | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 300.00   | 300.00   |
| 4347 | (d) Cost of welding rod                               | Each | 1.00 | 120.00   | 120.00   |
|      |                                                       |      |      | Total    | 21113.00 |
|      | Cartage @1% of A                                      |      |      |          | 211.13   |
|      |                                                       |      |      | Total    | 21324.13 |
| B    | <b>Labour</b>                                         |      |      |          |          |
| 0116 | Fitter, Grade 1                                       | day  | 0.50 | 420.00   | 210.00   |
| 0L15 | Welder                                                | day  | 0.20 | 463.00   | 92.60    |
| 0161 | Helper                                                | day  | 0.66 | 306.00   | 201.96   |
|      | Total                                                 |      |      |          | 504.56   |
|      | Total of A+B Rs.                                      |      |      |          | 21828.69 |
|      | Add 12% GST (MF= 0.1405)                              |      |      |          | 3066.93  |
|      |                                                       |      |      | Total    | 24895.62 |
| C    | Overhead & Profit @ 15%                               |      |      |          | 3734.34  |
|      | Total                                                 |      |      |          | 28629.96 |
|      | add 1% labour cess                                    |      |      |          | 286.30   |
|      | Rate of Each                                          |      |      |          | 28916.26 |
|      | Say                                                   |      |      |          | 28916.00 |














| ICD No. | Description                                                                                                                                                                                               | Unit | Qty. | Rate ₹   | Amount ₹ |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|----------|
| 14.9    | <b>250mm dia</b>                                                                                                                                                                                          |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                          |      |      |          |          |
| 4272    | (a) Cost of 250 mm dia Non Return Valve                                                                                                                                                                   | Each | 1.00 | 31946.00 | 31946.00 |
| 4348    | (b) Cost of 250 mm dia flange                                                                                                                                                                             | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets                                                                                                                                                    | Each | 1.00 | 450.00   | 450.00   |
| 4347    | (d) Cost of welding rod                                                                                                                                                                                   | Each | 1.00 | 120.00   | 120.00   |
|         |                                                                                                                                                                                                           |      |      | Total    | 33196.00 |
|         | Cartage @1% of A                                                                                                                                                                                          |      |      |          | 331.96   |
|         |                                                                                                                                                                                                           |      |      | Total    | 33527.96 |
| B       | <b>Labour</b>                                                                                                                                                                                             |      |      |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                           | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                    | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                                                                                                                                                                    | day  | 0.66 | 306.00   | 201.96   |
|         | Total                                                                                                                                                                                                     |      |      |          | 504.56   |
|         | Total of A+B Rs.                                                                                                                                                                                          |      |      |          | 34032.52 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                  |      |      |          | 4781.57  |
|         |                                                                                                                                                                                                           |      |      | Total    | 38814.09 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                   |      |      |          | 5822.11  |
|         | Total                                                                                                                                                                                                     |      |      |          | 44636.20 |
|         | add 1% labour cess                                                                                                                                                                                        |      |      |          | 446.36   |
|         | Rate of Each                                                                                                                                                                                              |      |      |          | 45082.56 |
|         | Say                                                                                                                                                                                                       |      |      |          | 45083.00 |
| 14.10   | <b>300mm dia</b>                                                                                                                                                                                          |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                          |      |      |          |          |
| 4273    | (a) Cost of 300 mm dia Non Return Valve                                                                                                                                                                   | Each | 1.00 | 43392.00 | 43392.00 |
| 4349    | (b) Cost of 300 mm dia flange                                                                                                                                                                             | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets                                                                                                                                                    | Each | 1.00 | 450.00   | 450.00   |
| 4347    | (d) Cost of welding rod                                                                                                                                                                                   | Each | 1.00 | 120.00   | 120.00   |
|         |                                                                                                                                                                                                           |      |      | Total    | 44642.00 |
|         | Cartage @1% of A                                                                                                                                                                                          |      |      |          | 446.42   |
|         |                                                                                                                                                                                                           |      |      | Total    | 45088.42 |
| B       | <b>Labour</b>                                                                                                                                                                                             |      |      |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                           | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                    | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                                                                                                                                                                    | day  | 0.66 | 306.00   | 201.96   |
|         | Total                                                                                                                                                                                                     |      |      |          | 504.56   |
|         | Total of A+B Rs.                                                                                                                                                                                          |      |      |          | 45592.98 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                  |      |      |          | 6405.81  |
|         |                                                                                                                                                                                                           |      |      | Total    | 51998.79 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                   |      |      |          | 7799.82  |
|         | Total                                                                                                                                                                                                     |      |      |          | 59798.61 |
|         | add 1% labour cess                                                                                                                                                                                        |      |      |          | 597.99   |
|         | Rate of Each                                                                                                                                                                                              |      |      |          | 60396.60 |
|         | Say                                                                                                                                                                                                       |      |      |          | 60397.00 |
| 15.00   | <b>Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.</b> |      |      |          |          |
| 15.1    | <b>80 mm dia</b>                                                                                                                                                                                          |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                          |      |      |          |          |
| 4284    | Cost of 80 mm dia CIDF SS Mesh Strainer                                                                                                                                                                   | Each | 1.00 | 2530.80  | 2530.80  |
| 4352    | (b) Cost of 80 mm dia flange                                                                                                                                                                              | Each | 2.00 | 110.00   | 220.00   |
| 4364    | (c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets                                                                                                                                                     | LS   | 1.00 | 90.00    | 90.00    |



| ICD No. | Description                                           | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|-------------------------------------------------------|------|------|---------|----------|
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         |                                                       |      |      | Total   | 2900.80  |
|         | Cartage @1% of A                                      |      |      |         | 29.01    |
|         |                                                       |      |      | Total   | 2929.81  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.25 | 420.00  | 105.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                | day  | 0.45 | 306.00  | 137.70   |
|         | Total                                                 |      |      |         | 335.30   |
|         | Total of A+B Rs.                                      |      |      |         | 3265.11  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 458.75   |
|         |                                                       |      |      | Total   | 3723.86  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 558.58   |
|         | Total                                                 |      |      |         | 4282.43  |
|         | add 1% labour cess                                    |      |      |         | 42.82    |
|         | Rate of Each                                          |      |      |         | 4325.26  |
|         | Say                                                   |      |      |         | 4325.00  |
| 15.2    | <b>100mm dia</b>                                      |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4285    | Cost of 100 mm dia CIDF SS Mesh Strainer              | Each | 1.00 | 3636.00 | 3636.00  |
| 4353    | (b) Cost of 100 mm dia flange                         | Each | 2.00 | 110.00  | 220.00   |
| 4364    | (c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets | LS   | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         |                                                       |      |      | Total   | 4006.00  |
|         | Cartage @1% of A                                      |      |      |         | 40.06    |
|         |                                                       |      |      | Total   | 4046.06  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00  | 210.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                | day  | 0.71 | 306.00  | 217.26   |
|         | Total                                                 |      |      |         | 519.86   |
|         | Total of A+B Rs.                                      |      |      |         | 4565.92  |
|         | Add 12% GST (MF= 0.1405)                              |      |      |         | 641.51   |
|         |                                                       |      |      | Total   | 5207.43  |
| C       | Overhead & Profit @ 15%                               |      |      |         | 781.11   |
|         | Total                                                 |      |      |         | 5988.55  |
|         | add 1% labour cess                                    |      |      |         | 59.89    |
|         | Rate of Each                                          |      |      |         | 6048.43  |
|         | Say                                                   |      |      |         | 6048.00  |
| 15.3    | <b>150mm dia</b>                                      |      |      |         |          |
| A       | <b>Materials</b>                                      |      |      |         |          |
| 4286    | Cost of 150 mm dia CIDF SS Mesh Strainer              | Each | 1.00 | 6791.40 | 6791.40  |
| 4354    | (b) Cost of 150 mm dia flange                         | Each | 2.00 | 110.00  | 220.00   |
| 4364    | (c) Cost of 4 Nos. Nut Bolt fastner & packing gaskets | LS   | 1.00 | 90.00   | 90.00    |
| 4335    | (d) Cost of welding rod                               | Each | 1.00 | 60.00   | 60.00    |
|         |                                                       |      |      | Total   | 7161.40  |
|         | Cartage @1% of A                                      |      |      |         | 71.61    |
|         |                                                       |      |      | Total   | 7233.01  |
| B       | <b>Labour</b>                                         |      |      |         |          |
| 0116    | Fitter, Grade 1                                       | day  | 0.50 | 420.00  | 210.00   |
| 0L15    | Welder                                                | day  | 0.20 | 463.00  | 92.60    |
| 0161    | Helper                                                | day  | 0.75 | 306.00  | 229.50   |
|         | Total                                                 |      |      |         | 532.10   |














| ICD No. | Description                                            | Unit | Qty. | Rate ₹   | Amount ₹ |
|---------|--------------------------------------------------------|------|------|----------|----------|
|         | Total of A+B Rs.                                       |      |      |          | 7765.11  |
|         | Add 12% GST (MF= 0.1405)                               |      |      |          | 1091.00  |
|         |                                                        |      |      | Total    | 8856.11  |
| C       | Overhead & Profit @ 15%                                |      |      |          | 1328.42  |
|         | Total                                                  |      |      |          | 10184.53 |
|         | add 1% labour cess                                     |      |      |          | 101.85   |
|         | Rate of Each                                           |      |      |          | 10286.37 |
|         | Say                                                    |      |      |          | 10286.00 |
| 15.4    | <b>200mm dia</b>                                       |      |      |          |          |
| A       | <b>Materials</b>                                       |      |      |          |          |
| 4287    | Cost of 200 mm dia CIDF SS Mesh Strainer               | Each | 1.00 | 14689.80 | 14689.80 |
| 4345    | (b) Cost of 200 mm dia flange                          | Each | 2.00 | 340.00   | 680.00   |
| 4346    | (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets  | Each | 1.00 | 300.00   | 300.00   |
| 4347    | (d) Cost of welding rod                                | Each | 1.00 | 120.00   | 120.00   |
|         |                                                        |      |      | Total    | 15789.80 |
|         | Cartage @1% of A                                       |      |      |          | 157.90   |
|         |                                                        |      |      | Total    | 15947.70 |
| B       | <b>Labour</b>                                          |      |      |          |          |
| 0116    | Fitter, Grade 1                                        | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                 | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                 | day  | 0.70 | 306.00   | 214.20   |
|         | Total                                                  |      |      |          | 516.80   |
|         | Total of A+B Rs.                                       |      |      |          | 16464.50 |
|         | Add 12% GST (MF= 0.1405)                               |      |      |          | 2313.26  |
|         |                                                        |      |      | Total    | 18777.76 |
| C       | Overhead & Profit @ 15%                                |      |      |          | 2816.66  |
|         | Total                                                  |      |      |          | 21594.42 |
|         | add 1% labour cess                                     |      |      |          | 215.94   |
|         | Rate of Each                                           |      |      |          | 21810.37 |
|         | Say                                                    |      |      |          | 21810.00 |
| 15.5    | <b>250mm dia</b>                                       |      |      |          |          |
| A       | <b>Materials</b>                                       |      |      |          |          |
| 4288    | Cost of 250 mm dia CIDF SS Mesh Strainer               | Each | 1.00 | 18450.90 | 18450.90 |
| 4348    | (b) Cost of 250 mm dia flange                          | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets | Each | 1.00 | 450.00   | 450.00   |
| 4347    | (d) Cost of welding rod                                | Each | 1.00 | 120.00   | 120.00   |
|         |                                                        |      |      | Total    | 19700.90 |
|         | Cartage @1% of A                                       |      |      |          | 197.01   |
|         |                                                        |      |      | Total    | 19897.91 |
| B       | <b>Labour</b>                                          |      |      |          |          |
| 0116    | Fitter, Grade 1                                        | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                 | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                 | day  | 0.70 | 306.00   | 214.20   |
|         | Total                                                  |      |      |          | 516.80   |
|         | Total of A+B Rs.                                       |      |      |          | 20414.71 |
|         | Add 12% GST (MF= 0.1405)                               |      |      |          | 2868.27  |
|         |                                                        |      |      | Total    | 23282.98 |
| C       | Overhead & Profit @ 15%                                |      |      |          | 3492.45  |
|         | Total                                                  |      |      |          | 26775.42 |
|         | add 1% labour cess                                     |      |      |          | 267.75   |
|         | Rate of Each                                           |      |      |          | 27043.18 |
|         | Say                                                    |      |      |          | 27043.00 |

| ICD No. | Description                                                                                                                                                                              | Unit | Qty. | Rate ₹   | Amount ₹ |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|----------|
| 15.6    | <b>300mm dia</b>                                                                                                                                                                         |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |          |          |
| 4289    | Cost of 300 mm dia CIDF SS Mesh Strainer                                                                                                                                                 | Each | 1.00 | 25366.50 | 25366.50 |
| 4349    | (b) Cost of 300 mm dia flange                                                                                                                                                            | Each | 2.00 | 340.00   | 680.00   |
| 4365    | (c) Cost of 12 Nos. Nut Bolt fastner & packing gaskets                                                                                                                                   | Each | 1.00 | 450.00   | 450.00   |
| 4347    | (d) Cost of welding rod                                                                                                                                                                  | Each | 1.00 | 120.00   | 120.00   |
|         |                                                                                                                                                                                          |      |      | Total    | 26616.50 |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |          | 266.17   |
|         |                                                                                                                                                                                          |      |      | Total    | 26882.67 |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                          | day  | 0.50 | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                   | day  | 0.20 | 463.00   | 92.60    |
| 0161    | Helper                                                                                                                                                                                   | day  | 0.70 | 306.00   | 214.20   |
|         | Total                                                                                                                                                                                    |      |      |          | 516.80   |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |          | 27399.47 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |          | 3849.62  |
|         |                                                                                                                                                                                          |      |      | Total    | 31249.09 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |          | 4687.36  |
|         | Total                                                                                                                                                                                    |      |      |          | 35936.45 |
|         | add 1% labour cess                                                                                                                                                                       |      |      |          | 359.36   |
|         | Rate of Each                                                                                                                                                                             |      |      |          | 36295.82 |
|         | Say                                                                                                                                                                                      |      |      |          | 36296.00 |
| 16      | <b>Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :</b> |      |      |          |          |
| 16.1    | <b>Gun Metal</b>                                                                                                                                                                         |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |          |          |
| 4208    | Cost of RRL Hose with male female gunmetal coupling                                                                                                                                      | Each | 1.00 | 3861.00  | 3861.00  |
|         |                                                                                                                                                                                          |      |      | Total    | 3861.00  |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |          | 38.61    |
|         |                                                                                                                                                                                          |      |      | Total    | 3899.61  |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |          |          |
| 0161    | Helper                                                                                                                                                                                   | day  | 0.10 | 306.00   | 30.60    |
|         | Total                                                                                                                                                                                    |      |      |          | 30.60    |
|         | Total of A+B Rs.                                                                                                                                                                         |      |      |          | 3930.21  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                 |      |      |          | 552.19   |
|         |                                                                                                                                                                                          |      |      | Total    | 4482.40  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                  |      |      |          | 672.36   |
|         | Total                                                                                                                                                                                    |      |      |          | 5154.77  |
|         | add 1% labour cess                                                                                                                                                                       |      |      |          | 51.55    |
|         | Rate of Each                                                                                                                                                                             |      |      |          | 5206.31  |
|         | Say                                                                                                                                                                                      |      |      |          | 5206.00  |
| 16.2    | <b>Stainless Steel (Grade 304)</b>                                                                                                                                                       |      |      |          |          |
| A       | <b>Materials</b>                                                                                                                                                                         |      |      |          |          |
| 4209    | Cost of RRL Hose with male female stainless steel coupling (Grade 304)                                                                                                                   | Each | 1.00 | 3292.00  | 3292.00  |
|         |                                                                                                                                                                                          |      |      | Total    | 3292.00  |
|         | Cartage @1% of A                                                                                                                                                                         |      |      |          | 32.92    |
|         |                                                                                                                                                                                          |      |      | Total    | 3324.92  |
| B       | <b>Labour</b>                                                                                                                                                                            |      |      |          |          |
| 0161    | Helper                                                                                                                                                                                   | day  | 0.10 | 306.00   | 30.60    |
|         | Total                                                                                                                                                                                    |      |      |          | 30.60    |







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| ICD No.     | Description                                                                                                                                                          | Unit | Qty.  | Rate ₹  | Amount ₹ |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|----------|
|             | Total of A+B Rs.                                                                                                                                                     |      |       |         | 3355.52  |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                             |      |       |         | 471.45   |
|             |                                                                                                                                                                      |      |       | Total   | 3826.97  |
| C           | Overhead & Profit @ 15%                                                                                                                                              |      |       |         | 574.05   |
|             | Total                                                                                                                                                                |      |       |         | 4401.02  |
|             | add 1% labour cess                                                                                                                                                   |      |       |         | 44.01    |
|             | Rate of Each                                                                                                                                                         |      |       |         | 4445.03  |
|             | Say                                                                                                                                                                  |      |       |         | 4445.00  |
| <b>17</b>   | <b>Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.</b> |      |       |         |          |
| (a)         | <b>20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS:</b>                                                                   |      |       |         |          |
| (b)         | <b>20 mm nominal internal dia gun metal globe valve &amp; nozzle.</b>                                                                                                |      |       |         |          |
| (c)         | <b>Drum and brackets for fixing the equipments on wall.</b>                                                                                                          |      |       |         |          |
| (d)         | <b>Connections from riser with 25 mm dia stop gun metal valve &amp; M.S. Pipe and socket.</b>                                                                        |      |       |         |          |
| <b>17.1</b> | <b>30 m</b>                                                                                                                                                          |      |       |         |          |
| A           | <b>Materials</b>                                                                                                                                                     |      |       |         |          |
| 4210        | (a) Cost of swinging type hose reel complete with 19mm x 30m Thermoplastic hose                                                                                      | Each | 1.00  | 2043.00 | 2043.00  |
| 4212        | (b) Hose reel drum                                                                                                                                                   | Each | 1.00  | 2350.00 | 2350.00  |
| 4213        | (c) Cost of 25mm dia gunmetal gate valve                                                                                                                             | Each | 1.00  | 691.00  | 691.00   |
| 4355        | (d) Cost of 25mm dia socket, union, nipples (Lumpsum)                                                                                                                | Each | 1.00  | 210.00  | 210.00   |
|             |                                                                                                                                                                      |      | Total |         | 5294.00  |
|             | Cartage @1% of A                                                                                                                                                     |      |       |         | 52.94    |
|             |                                                                                                                                                                      |      |       | Total   | 5346.94  |
| B           | <b>Labour</b>                                                                                                                                                        |      |       |         |          |
| 0116        | Fitter, Grade 1                                                                                                                                                      | day  | 0.50  | 420.00  | 210.00   |
| 0L15        | Welder                                                                                                                                                               | day  | 0.25  | 463.00  | 115.75   |
| 0161        | Helper                                                                                                                                                               | day  | 1.00  | 306.00  | 306.00   |
|             | Total                                                                                                                                                                |      |       |         | 631.75   |
|             | Total of A+B Rs.                                                                                                                                                     |      |       |         | 5978.69  |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                             |      |       |         | 840.01   |
|             |                                                                                                                                                                      |      |       | Total   | 6818.70  |
| C           | Overhead & Profit @ 15%                                                                                                                                              |      |       |         | 1022.80  |
|             | Total                                                                                                                                                                |      |       |         | 7841.50  |
|             | add 1% labour cess                                                                                                                                                   |      |       |         | 78.42    |
|             | Rate of Each                                                                                                                                                         |      |       |         | 7919.92  |
|             | Say                                                                                                                                                                  |      |       |         | 7920.00  |
| <b>17.2</b> | <b>40 m</b>                                                                                                                                                          |      |       |         |          |
| A           | <b>Materials</b>                                                                                                                                                     |      |       |         |          |
| 4211        | (a) Cost of swinging type hose reel complete with 19mm x 40m Thermoplastic hose                                                                                      | Each | 1.00  | 3232.00 | 3232.00  |
| 4212        | (b) Hose reel drum                                                                                                                                                   | Each | 1.00  | 2350.00 | 2350.00  |
| 4356        | (b) Cost of 25mm dia gunmetal gate valve                                                                                                                             | Each | 1.00  | 770.00  | 770.00   |
| 4355        | (c) Cost of 25mm dia socket, union, nipples (Lumpsum)                                                                                                                | Each | 1.00  | 210.00  | 210.00   |
|             |                                                                                                                                                                      |      | Total |         | 6562.00  |
|             | Cartage @1% of A                                                                                                                                                     |      |       |         | 65.62    |
|             |                                                                                                                                                                      |      |       | Total   | 6627.62  |
| B           | <b>Labour</b>                                                                                                                                                        |      |       |         |          |
| 0116        | Fitter, Grade 1                                                                                                                                                      | day  | 0.50  | 420.00  | 210.00   |
| 0L15        | Welder                                                                                                                                                               | day  | 0.25  | 463.00  | 115.75   |

| ICD No.        | Description                                                                                                                                                                                                                            | Unit        | Qty.        | Rate ₹      | Amount ₹        |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|
| 0161           | Helper                                                                                                                                                                                                                                 | day         | 1.00        | 306.00      | 306.00          |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 631.75          |
|                | Total of A+B Rs.                                                                                                                                                                                                                       |             |             |             | 7259.37         |
|                | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                               |             |             |             | 1019.94         |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 8279.31         |
| C              | Overhead & Profit @ 15%                                                                                                                                                                                                                |             |             |             | 1241.90         |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 9521.21         |
|                | add 1% labour cess                                                                                                                                                                                                                     |             |             |             | 95.21           |
|                | Rate of Each                                                                                                                                                                                                                           |             |             |             | 9616.42         |
|                | Say                                                                                                                                                                                                                                    |             |             |             | 9616.00         |
| <b>18</b>      | <b>Supplying &amp; fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :</b>       |             |             |             |                 |
| <b>18.1</b>    | <b>Gun metal</b>                                                                                                                                                                                                                       |             |             |             |                 |
| <b>A</b>       | <b>Materials</b>                                                                                                                                                                                                                       |             |             |             |                 |
| 4203           | Cost of gunmetel short branch pipe                                                                                                                                                                                                     | Each        | 1.00        | 1758.00     | 1758.00         |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 1758.00         |
|                | Cartage @1% of A                                                                                                                                                                                                                       |             |             |             | 17.58           |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 1775.58         |
| <b>B</b>       | <b>Labour</b>                                                                                                                                                                                                                          |             |             |             |                 |
| 0161           | Helper                                                                                                                                                                                                                                 | day         | 0.10        | 306.00      | 30.60           |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 30.60           |
|                | Total of A+B Rs.                                                                                                                                                                                                                       |             |             |             | 1806.18         |
|                | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                               |             |             |             | 253.77          |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 2059.95         |
| C              | Overhead & Profit @ 15%                                                                                                                                                                                                                |             |             |             | 308.99          |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 2368.94         |
|                | add 1% labour cess                                                                                                                                                                                                                     |             |             |             | 23.69           |
|                | Rate of Each                                                                                                                                                                                                                           |             |             |             | 2392.63         |
|                | Say                                                                                                                                                                                                                                    |             |             |             | 2393.00         |
| <b>18.2</b>    | <b>Stainless Steel (Grade 304)</b>                                                                                                                                                                                                     |             |             |             |                 |
| <b>ICD No.</b> | <b>Description</b>                                                                                                                                                                                                                     | <b>Unit</b> | <b>Qty.</b> | <b>Rate</b> | <b>Amount ?</b> |
| <b>A</b>       | <b>Materials</b>                                                                                                                                                                                                                       |             |             |             |                 |
| 4204           | Cost of gunmetel short stainless steel pipe (Grade 304)                                                                                                                                                                                | Each        | 1.00        | 1189.00     | 1189.00         |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 1189.00         |
|                | Cartage @1% of A                                                                                                                                                                                                                       |             |             |             | 11.89           |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 1200.89         |
| <b>B</b>       | <b>Labour</b>                                                                                                                                                                                                                          |             |             |             |                 |
| 0161           | Helper                                                                                                                                                                                                                                 | day         | 0.10        | 306.00      | 30.60           |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 30.60           |
|                | Total of A+B Rs.                                                                                                                                                                                                                       |             |             |             | 1231.49         |
|                | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                               |             |             |             | 173.02          |
|                |                                                                                                                                                                                                                                        |             |             | Total       | 1404.51         |
| C              | Overhead & Profit @ 15%                                                                                                                                                                                                                |             |             |             | 210.68          |
|                | Total                                                                                                                                                                                                                                  |             |             |             | 1615.19         |
|                | add 1% labour cess                                                                                                                                                                                                                     |             |             |             | 16.15           |
|                | Rate of Each                                                                                                                                                                                                                           |             |             |             | 1631.34         |
|                | Say                                                                                                                                                                                                                                    |             |             |             | 1631.00         |
| <b>19</b>      | <b>Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :</b> |             |             |             |                 |
| <b>19.1</b>    | <b>2 way-100 mm dia M.S. Pipe</b>                                                                                                                                                                                                      |             |             |             |                 |














| ICD No. | Description                                    | Unit | Qty. | Rate ₹  | Amount ₹ |
|---------|------------------------------------------------|------|------|---------|----------|
| A       | <b>Materials</b>                               |      |      |         |          |
| 4205    | (a) Cost of two way gunmetal FBC connection    | Each | 1.00 | 4002.00 | 4002.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS   | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket      | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling | Set  | 1.00 | 200.00  | 200.00   |
| 4332    | (e) Cost of welding rod                        | Job  | 1.00 | 40.00   | 40.00    |
|         |                                                |      |      | Total   | 4362.00  |
|         | Cartage @1% of A                               |      |      |         | 43.62    |
|         |                                                |      |      | Total   | 4405.62  |
| B       | <b>Labour</b>                                  |      |      |         |          |
| 0116    | Fitter, Grade 1                                | day  | 0.25 | 420.00  | 105.00   |
| 0115    | Welder                                         | day  | 0.25 | 463.00  | 115.75   |
| 0161    | Helper                                         | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                          |      |      |         | 373.75   |
|         | Total of A+B Rs.                               |      |      |         | 4779.37  |
|         | Add 12% GST (MF= 0.1405)                       |      |      |         | 671.50   |
|         |                                                |      |      | Total   | 5450.87  |
| C       | Overhead & Profit @ 15%                        |      |      |         | 817.63   |
|         | Total                                          |      |      |         | 6268.50  |
|         | add 1% labour cess                             |      |      |         | 62.69    |
|         | Rate of Each                                   |      |      |         | 6331.19  |
|         | Say                                            |      |      |         | 6331.00  |
| 19.2    | <b>4 way - 150 mm dia M.S. Pipe</b>            |      |      |         |          |
| A       | <b>Materials</b>                               |      |      |         |          |
| 4207    | (a) Cost of four way gunmetal FBC connection   | Each | 1.00 | 9462.00 | 9462.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS   | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket      | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling | Set  | 1.00 | 200.00  | 200.00   |
|         | 16mm thick LS                                  |      |      |         |          |
| 4332    | (e) Cost of welding rod                        | Job  | 1.00 | 40.00   | 40.00    |
|         |                                                |      |      | Total   | 9822.00  |
|         | Cartage @1% of A                               |      |      |         | 98.22    |
|         |                                                |      |      | Total   | 9920.22  |
| B       | <b>Labour</b>                                  |      |      |         |          |
| 0116    | Fitter, Grade 1                                | day  | 0.25 | 420.00  | 105.00   |
| 0115    | Welder                                         | day  | 0.25 | 463.00  | 115.75   |
| 0161    | Helper                                         | day  | 0.50 | 306.00  | 153.00   |
|         | Total                                          |      |      |         | 373.75   |
|         | Total of A+B Rs.                               |      |      |         | 10293.97 |
|         | Add 12% GST (MF= 0.1405)                       |      |      |         | 1446.30  |
|         |                                                |      |      | Total   | 11740.27 |
| C       | Overhead & Profit @ 15%                        |      |      |         | 1761.04  |
|         | Total                                          |      |      |         | 13501.31 |
|         | add 1% labour cess                             |      |      |         | 135.01   |
|         | Rate of Each                                   |      |      |         | 13636.33 |
|         | Say                                            |      |      |         | 13636.00 |
| 19.3    | <b>3 way - 150 mm dia M.S. Pipe</b>            |      |      |         |          |
| A       | <b>Materials</b>                               |      |      |         |          |
| 4206    | (a) Cost of four way gunmetal FBC connection   | Each | 1.00 | 6050.00 | 6050.00  |
| 4329    | (b) Cost of 4 Nos. nuts bolts and washers LS   | Set  | 1.00 | 50.00   | 50.00    |
| 4330    | (c) Cost of 1 No. 3mm thick rubber gasket      | Each | 1.00 | 70.00   | 70.00    |
| 4331    | (d) Cost of 1 No. MS flange as per IS drilling | Set  | 1.00 | 200.00  | 200.00   |
|         | 16mm thick LS                                  |      |      |         |          |
| 4332    | (e) Cost of welding rod                        | Job  | 1.00 | 40.00   | 40.00    |

| ICD No. | Description                                                                                                                                                                                                                                                                                                                               | Unit | Qty.  | Rate ₹   | Amount ₹ |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|----------|
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 6410.00  |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                          |      |       |          | 64.10    |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 6474.10  |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                             |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                           | day  | 0.25  | 420.00   | 105.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                    | day  | 0.25  | 463.00   | 115.75   |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                    | day  | 0.50  | 306.00   | 153.00   |
|         | Total                                                                                                                                                                                                                                                                                                                                     |      |       |          | 373.75   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                          |      |       |          | 6847.85  |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                  |      |       |          | 962.12   |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 7809.97  |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                   |      |       |          | 1171.50  |
|         | Total                                                                                                                                                                                                                                                                                                                                     |      |       |          | 8981.47  |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                        |      |       |          | 89.81    |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                              |      |       |          | 9071.28  |
|         | Say                                                                                                                                                                                                                                                                                                                                       |      |       |          | 9071.00  |
| 20      | <b>Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.</b> |      |       |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                          |      |       |          |          |
| 4317    | Cost of 250mm dia air vessel wit air release valve and 25mm dia gunmetel wheel valve for drainage                                                                                                                                                                                                                                         | Each | 1.00  | 12646.00 | 12646.00 |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 12646.00 |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                          |      |       |          | 126.46   |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 12772.46 |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                             |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                           | day  | 0.50  | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                    | day  | 0.50  | 463.00   | 231.50   |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                    | day  | 0.50  | 306.00   | 153.00   |
|         | Total                                                                                                                                                                                                                                                                                                                                     |      |       |          | 594.50   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                          |      |       |          | 13366.96 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                  |      |       |          | 1878.06  |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 15245.02 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                   |      |       |          | 2286.75  |
|         | Total                                                                                                                                                                                                                                                                                                                                     |      |       |          | 17531.77 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                        |      |       |          | 175.32   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                              |      |       |          | 17707.09 |
|         | Say                                                                                                                                                                                                                                                                                                                                       |      |       |          | 17707.00 |
| 21      | <b>Providing, fixing, testing &amp; commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :</b>                                                                                                                                                                               |      |       |          |          |
| 21.1    | <b>Pendent Sprinkler</b>                                                                                                                                                                                                                                                                                                                  |      |       |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                          |      |       |          |          |
| 4214    | (a) Cost of 68° centigrade Pendent Sprinkler                                                                                                                                                                                                                                                                                              | Each | 1.00  | 168.00   | 168.00   |
| 4358    | (b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)                                                                                                                                                                                                                                                                                    | Each | 1.00  | 45.00    | 45.00    |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 213.00   |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                          |      |       |          | 2.13     |
|         |                                                                                                                                                                                                                                                                                                                                           |      |       | Total    | 215.13   |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                             |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                           | day  | 0.062 | 420.00   | 26.04    |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                    | day  | 0.062 | 463.00   | 28.71    |













| ICD No.     | Description                                            | Unit | Qty.  | Rate ₹ | Amount ₹ |
|-------------|--------------------------------------------------------|------|-------|--------|----------|
| 0161        | Helper                                                 | day  | 0.125 | 306.00 | 38.25    |
|             | Total                                                  |      |       |        | 93.00    |
|             | Total of A+B Rs.                                       |      |       |        | 308.13   |
|             | Add 12% GST (MF= 0.1405)                               |      |       |        | 43.29    |
|             |                                                        |      |       | Total  | 351.42   |
| C           | Overhead & Profit @ 15%                                |      |       |        | 52.71    |
|             | Total                                                  |      |       |        | 404.13   |
|             | add 1% labour cess                                     |      |       |        | 4.04     |
|             | Rate of Each                                           |      |       |        | 408.17   |
|             | Say                                                    |      |       |        | 408.00   |
| <b>21.2</b> | <b>Upright Sprinkler</b>                               |      |       |        |          |
| A           | <b>Materials</b>                                       |      |       |        |          |
| 4215        | (a) Cost of 68° centigrade Upright Sprinkler           | Each | 1.00  | 168.00 | 168.00   |
| 4358        | (b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum) | Each | 1.00  | 45.00  | 45.00    |
|             |                                                        |      |       | Total  | 213.00   |
|             | Cartage @1% of A                                       |      |       |        | 2.13     |
|             |                                                        |      |       | Total  | 215.13   |
| B           | <b>Labour</b>                                          |      |       |        |          |
| 0116        | Fitter, Grade 1                                        | day  | 0.062 | 420.00 | 26.04    |
| 0L15        | Welder                                                 | day  | 0.062 | 463.00 | 28.71    |
| 0161        | Helper                                                 | day  | 0.125 | 306.00 | 38.25    |
|             | Total                                                  |      |       |        | 93.00    |
|             | Total of A+B Rs.                                       |      |       |        | 308.13   |
|             | Add 12% GST (MF= 0.1405)                               |      |       |        | 43.29    |
|             |                                                        |      |       | Total  | 351.42   |
| C           | Overhead & Profit @ 15%                                |      |       |        | 52.71    |
|             | Total                                                  |      |       |        | 404.13   |
|             | add 1% labour cess                                     |      |       |        | 4.04     |
|             | Rate of Each                                           |      |       |        | 408.17   |
|             | Say                                                    |      |       |        | 408.00   |
| <b>21.3</b> | <b>Horizontal side wall sprinkler</b>                  |      |       |        |          |
| A           | <b>Materials</b>                                       |      |       |        |          |
| 4216        | (a) Cost of 68° centigrade Sprinkler                   | Each | 1.00  | 240.00 | 240.00   |
| 4358        | (b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum) | Each | 1.00  | 45.00  | 45.00    |
|             |                                                        |      |       | Total  | 285.00   |
|             | Cartage @1% of A                                       |      |       |        | 2.85     |
|             |                                                        |      |       | Total  | 287.85   |
| B           | <b>Labour</b>                                          |      |       |        |          |
| 0116        | Fitter, Grade 1                                        | day  | 0.062 | 420.00 | 26.04    |
| 0L15        | Welder                                                 | day  | 0.062 | 463.00 | 28.71    |
| 0161        | Helper                                                 | day  | 0.125 | 306.00 | 38.25    |
|             | Total                                                  |      |       |        | 93.00    |
|             | Total of A+B Rs.                                       |      |       |        | 380.85   |
|             | Add 12% GST (MF= 0.1405)                               |      |       |        | 53.51    |
|             |                                                        |      |       | Total  | 434.35   |
| C           | Overhead & Profit @ 15%                                |      |       |        | 65.15    |
|             | Total                                                  |      |       |        | 499.51   |
|             | add 1% labour cess                                     |      |       |        | 5.00     |
|             | Rate of Each                                           |      |       |        | 504.50   |
|             | Say                                                    |      |       |        | 505.00   |
| <b>21.4</b> | <b>Concealed sprinkler</b>                             |      |       |        |          |
| A           | <b>Materials</b>                                       |      |       |        |          |
| 4217        | (a) Cost of adjustable concealed sprinkler             | Each | 1.00  | 857.00 | 857.00   |



| ICD No.   | Description                                                                                                  | Unit | Qty.  | Rate ₹  | Amount ₹ |
|-----------|--------------------------------------------------------------------------------------------------------------|------|-------|---------|----------|
| 4358      | (b) Cost of 15mm dia MS Socket & teflon tape (Lumpsum)                                                       | Each | 1.00  | 45.00   | 45.00    |
|           |                                                                                                              |      |       | Total   | 902.00   |
|           | Cartage @1% of A                                                                                             |      |       |         | 9.02     |
|           |                                                                                                              |      |       | Total   | 911.02   |
| B         | <b>Labour</b>                                                                                                |      |       |         |          |
| 0116      | Fitter, Grade 1                                                                                              | day  | 0.062 | 420.00  | 26.04    |
| 0L15      | Welder                                                                                                       | day  | 0.062 | 463.00  | 28.71    |
| 0161      | Helper                                                                                                       | day  | 0.125 | 306.00  | 38.25    |
|           | Total                                                                                                        |      |       |         | 93.00    |
|           | Total of A+B Rs.                                                                                             |      |       |         | 1004.02  |
|           | Add 12% GST (MF= 0.1405)                                                                                     |      |       |         | 141.06   |
|           |                                                                                                              |      |       | Total   | 1145.08  |
| C         | Overhead & Profit @ 15%                                                                                      |      |       |         | 171.76   |
|           | Total                                                                                                        |      |       |         | 1316.84  |
|           | add 1% labour cess                                                                                           |      |       |         | 13.17    |
|           | Rate of Each                                                                                                 |      |       |         | 1330.01  |
|           | Say                                                                                                          |      |       |         | 1330.00  |
| <b>22</b> | <b>Providing &amp; fixing of pressure switch in M.S. pipe line including connection etc. as required.</b>    |      |       |         |          |
| A         | <b>Materials</b>                                                                                             |      |       |         |          |
| 4318      | Cost of water flow switch                                                                                    | Each | 1.00  | 986.00  | 986.00   |
|           | Cartage @1% of A                                                                                             |      |       |         | 9.86     |
|           |                                                                                                              |      |       | Total   | 995.86   |
| B         | <b>Labour</b>                                                                                                |      |       |         |          |
| 0116      | Fitter, Grade 1                                                                                              | day  | 0.062 | 420.00  | 26.04    |
| 0L15      | Welder                                                                                                       | day  | 0.062 | 463.00  | 28.71    |
| 0161      | Helper                                                                                                       | day  | 0.125 | 306.00  | 38.25    |
|           | Total                                                                                                        |      |       |         | 93.00    |
|           | Total of A+B Rs.                                                                                             |      |       |         | 1088.86  |
|           | Add 12% GST (MF= 0.1405)                                                                                     |      |       |         | 152.98   |
|           |                                                                                                              |      |       | Total   | 1241.84  |
| C         | Overhead & Profit @ 15%                                                                                      |      |       |         | 186.28   |
|           | Total                                                                                                        |      |       |         | 1428.12  |
|           | add 1% labour cess                                                                                           |      |       |         | 14.28    |
|           | Rate of Each                                                                                                 |      |       |         | 1442.40  |
|           | Say                                                                                                          |      |       |         | 1442.00  |
| <b>23</b> | <b>Providing &amp; fixing flow switch in following sizes M.S. pipe including connection etc as required.</b> |      |       |         |          |
| 23.1      | <b>100mm dia</b>                                                                                             |      |       |         |          |
| A         | <b>Materials</b>                                                                                             |      |       |         |          |
| 4222      | Cost of water flow switch                                                                                    | Each | 1     | 4945.00 | 4945.00  |
|           | Cartage @1% of A                                                                                             |      |       |         | 49.45    |
|           |                                                                                                              |      |       | Total   | 4994.45  |
| B         | <b>Labour</b>                                                                                                |      |       |         |          |
| 0116      | Fitter, Grade 1                                                                                              | day  | 0.250 | 420.00  | 105.00   |
| 0L15      | Welder                                                                                                       | day  | 0.250 | 463.00  | 115.75   |
| 0161      | Helper                                                                                                       | day  | 0.500 | 306.00  | 153.00   |
|           | Total                                                                                                        |      |       |         | 373.75   |
|           | Total of A+B Rs.                                                                                             |      |       |         | 5368.20  |
|           | Add 12% GST (MF= 0.1405)                                                                                     |      |       |         | 754.23   |
|           |                                                                                                              |      |       | Total   | 6122.43  |
| C         | Overhead & Profit @ 15%                                                                                      |      |       |         | 918.36   |
|           | Total                                                                                                        |      |       |         | 7040.80  |
|           | add 1% labour cess                                                                                           |      |       |         | 70.41    |














| ICD No.     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit | Qty.  | Rate ₹   | Amount ₹ |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|----------|
|             | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 7111.20  |
|             | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |          | 7111.00  |
| <b>23.2</b> | <b>150mm dia</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          |          |
| <b>A</b>    | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          |          |
| 4223        | Cost of water flow switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Each | 1.00  | 6083.00  | 6083.00  |
|             | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 60.83    |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 6143.83  |
| <b>B</b>    | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |       |          |          |
| 0116        | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.250 | 420.00   | 105.00   |
| 0115        | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | day  | 0.250 | 463.00   | 115.75   |
| 0161        | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | day  | 0.500 | 306.00   | 153.00   |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 373.75   |
|             | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 6517.58  |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |          | 915.72   |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 7433.30  |
| <b>C</b>    | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |          | 1114.99  |
|             | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |          | 8548.29  |
|             | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |          | 85.48    |
|             | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 8633.78  |
|             | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |          | 8634.00  |
| <b>24</b>   | <b>Providing, fixing, testing &amp; commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required :</b> |      |       |          |          |
| <b>24.1</b> | <b>80mm dia</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |          |          |
| <b>A</b>    | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          |          |
| 4226        | Cost of 80mm dia hydrolic alarm valve with water motor gong                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Each | 1.00  | 30777.00 | 30777.00 |
|             | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 307.77   |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 31084.77 |
| <b>B</b>    | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |       |          |          |
| 0116        | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.50  | 420.00   | 210.00   |
| 0115        | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | day  | 0.50  | 463.00   | 231.50   |
| 0161        | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | day  | 1.00  | 306.00   | 306.00   |
|             | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |          | 747.50   |
|             | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 31832.27 |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |          | 4472.43  |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 36304.70 |
| <b>C</b>    | <b>Overhead &amp; Profit @ 15%</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |          | 5445.71  |
|             | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 41750.41 |
|             | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |          | 417.50   |
|             | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 42167.91 |
|             | Say                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |          | 42168.00 |
| <b>24.2</b> | <b>100mm dia</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          |          |
| <b>A</b>    | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          |          |
| 4225        | Cost of 100mm dia hydrolic alarm valve with water motor gong                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Each | 1.00  | 32517.00 | 32517.00 |
|             | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 325.17   |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | Total |          | 32842.17 |

| ICD No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit | Qty.  | Rate ₹   | Amount ₹ |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|----------|
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                 | day  | 0.50  | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.50  | 463.00   | 231.50   |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 1.00  | 306.00   | 306.00   |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |          | 747.50   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          | 33589.67 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |          | 4719.35  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 38309.02 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 5746.35  |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |          | 44055.37 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |          | 440.55   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |          | 44495.93 |
|         | Say                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 44496.00 |
| 24.3    | <b>150mm dia</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          |          |
| 4224    | Cost of 150mm dia hydraulic alarm wall with water motor gong                                                                                                                                                                                                                                                                                                                                                                                    | Each | 1.00  | 34933.00 | 34933.00 |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          | 349.33   |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 35282.33 |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                 | day  | 0.50  | 420.00   | 210.00   |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.50  | 463.00   | 231.50   |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 1.00  | 306.00   | 306.00   |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |          | 747.50   |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          | 36029.83 |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |          | 5062.19  |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 41092.02 |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |          | 6163.80  |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |          | 47255.82 |
|         | add 1% labour cess                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |          | 472.56   |
|         | Rate of Each                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |          | 47728.38 |
|         | Say                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |          | 47728.00 |
| 25      | <b>Supplying, installation, testing &amp; commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.</b> |      |       |          |          |
| 25.1    | <b>700mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |       |          |          |
| A       | <b>Materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          |          |
| 4218    | (a) Cost of 700mm flexible drop                                                                                                                                                                                                                                                                                                                                                                                                                 | Each | 1.00  | 795.00   | 795.00   |
| 4359    | (b) Cot of teflon tape                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1.00  | 20.00    | 20.00    |
| 4360    | (c) 25mm dia MS Socket                                                                                                                                                                                                                                                                                                                                                                                                                          | Each | 1.00  | 45.00    | 45.00    |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 860.00   |
|         | Cartage @1% of A                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          | 8.60     |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 868.60   |
| B       | <b>Labour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |          |          |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                                                                                                                                                                                                                 | day  | 0.062 | 420.00   | 26.04    |
| 0L15    | Welder                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.062 | 463.00   | 28.71    |
| 0161    | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                          | day  | 0.125 | 306.00   | 38.25    |
|         | Total                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |       |          | 93.00    |
|         | Total of A+B Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |          | 961.60   |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |          | 135.10   |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       | Total    | 1096.70  |














| ICD No.     | Description                      | Unit | Qty.  | Rate ₹  | Amount ₹  |
|-------------|----------------------------------|------|-------|---------|-----------|
| C           | Overhead & Profit @ 15%          |      |       |         | 164.51    |
|             | Total                            |      |       |         | 1261.21   |
|             | add 1% labour cess               |      |       |         | 12.61     |
|             | Rate of Each                     |      |       |         | 1273.82   |
|             | Say                              |      |       |         | 1274.00   |
| <b>25.2</b> | <b>1000mm</b>                    |      |       |         |           |
| A           | <b>Materials</b>                 |      |       |         |           |
| 4219        | (a) Cost of 1000mm flexible drop | Each | 1.00  | 945.00  | 945.00    |
| 4359        | (b) Cot of teflon tape           | Each | 1.00  | 20.00   | 20.00     |
| 4360        | (c) 25mm dia MS Socket           | Each | 1.00  | 45.00   | 45.00     |
|             | Total                            |      |       |         | 1010.00   |
|             | Cartage @1% of A                 |      |       |         | 10.10     |
|             | Total                            |      |       |         | 1020.10   |
| B           | <b>Labour</b>                    |      |       |         |           |
| 0116        | Fitter, Grade 1                  | day  | 0.062 | 420.00  | 26.04     |
| 0L15        | Welder                           | day  | 0.062 | 463.00  | 28.71     |
| 0161        | Helper                           | day  | 0.125 | 306.00  | 38.25     |
|             | Total                            |      |       |         | 93.00     |
|             | Total of A+B Rs.                 |      |       |         | 1113.10   |
|             | Add 12% GST (MF= 0.1405)         |      |       |         | 156.39    |
|             | Total                            |      |       |         | 1269.49   |
| C           | Overhead & Profit @ 15%          |      |       |         | 190.42    |
|             | Total                            |      |       |         | 1459.91   |
|             | add 1% labour cess               |      |       |         | 14.60     |
|             | Rate of Each                     |      |       |         | 1474.51   |
|             | Say                              |      |       |         | 1475.00   |
| <b>25.3</b> | <b>1200mm</b>                    |      |       |         |           |
| A           | <b>Materials</b>                 |      |       |         |           |
| 4220        | (a) Cost of 1200mm flexible drop | Each | 1.00  | 1015.00 | 1015.00   |
| 4359        | (b) Cot of teflon tape           | Each | 1.00  | 20.00   | 20.00     |
| 4360        | (c) 25mm dia MS Socket           | Each | 1.00  | 45.00   | 45.00     |
|             | Total                            |      |       |         | 1080.00   |
|             | Cartage @1% of A                 |      |       |         | 10.80     |
|             | Total                            |      |       |         | 1090.80   |
| B           | <b>Labour</b>                    |      |       |         |           |
| 0116        | Fitter, Grade 1                  | day  | 0.062 | 420.00  | 26.04     |
| 0L15        | Welder                           | day  | 0.062 | 463.00  | 28.71     |
| 0161        | Helper                           | day  | 0.125 | 306.00  | 38.25     |
|             | Total                            |      |       |         | 93.00     |
|             | Total of A+B Rs.                 |      |       |         | 1183.80   |
|             | Add 12% GST (MF= 0.1405)         |      |       |         | 166.32    |
|             | Total                            |      |       |         | 1350.12   |
| C           | Overhead & Profit @ 15%          |      |       |         | 202.52    |
|             | Total                            |      |       |         | 1552.64   |
|             | add 1% labour cess               |      |       |         | 15.53     |
|             | Rate of Each                     |      |       |         | 1568.16   |
|             | Say                              |      |       |         | 1568.00   |
| <b>25.4</b> | <b>1500mm</b>                    |      |       |         |           |
| A           | <b>Materials</b>                 |      |       |         |           |
| 4221        | (a) Cost of 1500mm flexible drop | Each | 1.00  | 1137.50 | 1137.50   |
| 4359        | (b) Cot of teflon tape           | Each | 1.00  | 20.00   | 20.00     |
| 4360        | (c) 25mm dia MS Socket           | Each | 1.00  | 45.00   | 45.00     |
|             | Total                            |      |       |         | 1202.50 P |
|             | Cartage @1% of P                 |      |       |         | 12.03     |
|             | Total                            |      |       |         | 1214.53 A |

| ICD No. | Description                                                                                                                                                                                                                                            | Unit | Qty.  | Rate ₹   | Amount ₹   |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|------------|
| B       | <b>Labour</b>                                                                                                                                                                                                                                          |      |       |          |            |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                        | day  | 0.062 | 420.00   | 26.04      |
| 0L15    | Welder                                                                                                                                                                                                                                                 | day  | 0.062 | 463.00   | 28.71      |
| 0161    | Helper                                                                                                                                                                                                                                                 | day  | 0.125 | 306.00   | 38.25      |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 93.00 B    |
|         | Total of A+B Rs.                                                                                                                                                                                                                                       |      |       |          | 1307.52    |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                               |      |       |          | 183.71     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 1491.23    |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                |      |       |          | 223.68     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 1714.91    |
|         | add 1% labour cess                                                                                                                                                                                                                                     |      |       |          | 17.15      |
|         | Rate of Each                                                                                                                                                                                                                                           |      |       |          | 1732.06    |
|         | Say                                                                                                                                                                                                                                                    |      |       |          | 1732.00    |
| 26      | <b>Supplying, installation, testing &amp; commissioning of deluge valve (to be used for water curtains) UL listed with wet pilot basic trim assembly for DVA with test and alarm, drip and drain valve with water motor gong complete as required.</b> |      |       |          |            |
| 26.1    | <b>50 mm dia</b>                                                                                                                                                                                                                                       |      |       |          |            |
| A       | <b>Materials</b>                                                                                                                                                                                                                                       |      |       |          |            |
| 4230    | Cost of 50mm dia deluge valve                                                                                                                                                                                                                          | Each | 1.00  | 60280.00 | 60280.00 P |
|         | Cartage @1% of P                                                                                                                                                                                                                                       |      |       |          | 602.80     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 60882.80 A |
| B       | <b>Labour</b>                                                                                                                                                                                                                                          |      |       |          |            |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                        | day  | 1.00  | 420.00   | 420.00     |
| 0L15    | Welder                                                                                                                                                                                                                                                 | day  | 1.00  | 463.00   | 463.00     |
| 0161    | Helper                                                                                                                                                                                                                                                 | day  | 1.00  | 306.00   | 306.00     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 1189.00 B  |
|         | Total of A+B Rs.                                                                                                                                                                                                                                       |      |       |          | 62071.80   |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                               |      |       |          | 8721.09    |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 70792.89   |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                |      |       |          | 10618.93   |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 81411.82   |
|         | add 1% labour cess                                                                                                                                                                                                                                     |      |       |          | 814.12     |
|         | Rate of Each                                                                                                                                                                                                                                           |      |       |          | 82225.94   |
|         | Say                                                                                                                                                                                                                                                    |      |       |          | 82226.00   |
| 26.2    | <b>80 mm dia</b>                                                                                                                                                                                                                                       |      |       |          |            |
| A       | <b>Materials</b>                                                                                                                                                                                                                                       |      |       |          |            |
| 4229    | Cost of 80mm dia deluge valve                                                                                                                                                                                                                          | Each | 1.00  | 60732.00 | 60732.00 P |
|         | Cartage @1% of P                                                                                                                                                                                                                                       |      |       |          | 607.32     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 61339.32 A |
| B       | <b>Labour</b>                                                                                                                                                                                                                                          |      |       |          |            |
| 0116    | Fitter, Grade 1                                                                                                                                                                                                                                        | day  | 1.00  | 420.00   | 420.00     |
| 0L15    | Welder                                                                                                                                                                                                                                                 | day  | 1.00  | 463.00   | 463.00     |
| 0161    | Helper                                                                                                                                                                                                                                                 | day  | 1.00  | 306.00   | 306.00     |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 1189.00 B  |
|         | Total of A+B Rs.                                                                                                                                                                                                                                       |      |       |          | 62528.32   |
|         | Add 12% GST (MF= 0.1405)                                                                                                                                                                                                                               |      |       |          | 8785.23    |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 71313.55   |
| C       | Overhead & Profit @ 15%                                                                                                                                                                                                                                |      |       |          | 10697.03   |
|         | Total                                                                                                                                                                                                                                                  |      |       |          | 82010.58   |
|         | add 1% labour cess                                                                                                                                                                                                                                     |      |       |          | 820.11     |
|         | Rate of Each                                                                                                                                                                                                                                           |      |       |          | 82830.69   |
|         | Say                                                                                                                                                                                                                                                    |      |       |          | 82831.00   |
| 26.3    | <b>100mm dia</b>                                                                                                                                                                                                                                       |      |       |          |            |
| A       | <b>Materials</b>                                                                                                                                                                                                                                       |      |       |          |            |
| 4228    | Cost of 100mm dia deluge valve                                                                                                                                                                                                                         | Each | 1.00  | 68238.00 | 68238.00 P |













# BCD Analysis of Rates 2022

| ICD No.     | Description                                                                                                                                                                               | Unit | Qty.  | Rate ₹   | Amount ₹      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|---------------|
|             | Cartage @1% of P                                                                                                                                                                          |      |       |          | 682.38        |
|             |                                                                                                                                                                                           |      |       | Total    | 68920.38 A    |
| B           | <b>Labour</b>                                                                                                                                                                             |      |       |          |               |
| 0116        | Fitter, Grade 1                                                                                                                                                                           | day  | 1.00  | 420.00   | 420.00        |
| 0L15        | Welder                                                                                                                                                                                    | day  | 1.00  | 463.00   | 463.00        |
| 0161        | Helper                                                                                                                                                                                    | day  | 1.00  | 306.00   | 306.00        |
|             | Total                                                                                                                                                                                     |      |       |          | 1189.00 B     |
|             | Total of A+B Rs.                                                                                                                                                                          |      |       |          | 70109.38      |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                                                  |      |       |          | 9850.37       |
|             |                                                                                                                                                                                           |      |       | Total    | 79959.75      |
| C           | Overhead & Profit @ 15%                                                                                                                                                                   |      |       |          | 11993.96      |
|             | Total                                                                                                                                                                                     |      |       |          | 91953.71      |
|             | add 1% labour cess                                                                                                                                                                        |      |       |          | 919.54        |
|             | Rate of Each                                                                                                                                                                              |      |       |          | 92873.25      |
|             | Say                                                                                                                                                                                       |      |       |          | 92873.00      |
| <b>26.4</b> | <b>150mm dia</b>                                                                                                                                                                          |      |       |          |               |
| A           | <b>Materials</b>                                                                                                                                                                          |      |       |          |               |
| 4227        | Cost of 150mm dia deluge valve                                                                                                                                                            | Each | 1.00  | 84888.00 | 84888.00 P    |
|             | Cartage @1% of P                                                                                                                                                                          |      |       |          | 848.88        |
|             |                                                                                                                                                                                           |      |       | Total    | 85736.88 A    |
| B           | <b>Labour</b>                                                                                                                                                                             |      |       |          |               |
| 0116        | Fitter, Grade 1                                                                                                                                                                           | day  | 1.00  | 420.00   | 420.00        |
| 0L15        | Welder                                                                                                                                                                                    | day  | 1.00  | 463.00   | 463.00        |
| 0161        | Helper                                                                                                                                                                                    | day  | 1.00  | 306.00   | 306.00        |
|             | Total                                                                                                                                                                                     |      |       |          | 1189.00 B     |
|             | Total of A+B Rs.                                                                                                                                                                          |      |       |          | 86925.88      |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                                                  |      |       |          | 12213.09      |
|             |                                                                                                                                                                                           |      |       | Total    | 99138.97      |
| C           | Overhead & Profit @ 15%                                                                                                                                                                   |      |       |          | 14870.84      |
|             | Total                                                                                                                                                                                     |      |       |          | 114009.81     |
|             | add 1% labour cess                                                                                                                                                                        |      |       |          | 1140.10       |
|             | Rate of Each                                                                                                                                                                              |      |       |          | 115149.91     |
|             | Say                                                                                                                                                                                       |      |       |          | 115150.00     |
| <b>27</b>   | <b>Providing, installation, testing &amp; commissioning of water curtain nozzle 15mm dia nickel chrome plated brass, BSPT, K-factor as per design consideration complete as required.</b> |      |       |          |               |
| A           | <b>Materials</b>                                                                                                                                                                          |      |       |          |               |
| 4231        | (a) Cost of water curtain nozzle, nickel chrome plated brass                                                                                                                              | Each | 1.00  | 313.20   | 313.20        |
| 4361        | (b) Cost of MS Socket 15mm dia                                                                                                                                                            | Each | 1.00  | 35.00    | 35.00         |
|             |                                                                                                                                                                                           |      |       | Total    | 348.20 P      |
|             | Cartage @1% of P                                                                                                                                                                          |      |       |          | 3.48          |
|             |                                                                                                                                                                                           |      |       | Total    | 351.68 A      |
| B           | <b>Labour</b>                                                                                                                                                                             |      |       |          |               |
| 0116        | Fitter, Grade 1                                                                                                                                                                           | day  | 0.062 | 420.00   | 26.04         |
| 0L15        | Welder                                                                                                                                                                                    | day  | 0.062 | 463.00   | 28.71         |
| 0161        | Helper                                                                                                                                                                                    | day  | 0.125 | 306.00   | 38.25         |
|             | Total                                                                                                                                                                                     |      |       |          | 93.00 B       |
|             | Total of A+B Rs.                                                                                                                                                                          |      |       |          | 444.68        |
|             | Add 12% GST (MF= 0.1405)                                                                                                                                                                  |      |       |          | 62.48         |
| C           | Total                                                                                                                                                                                     |      |       |          | 507.16        |
|             | Overhead & Profit @ 15%                                                                                                                                                                   |      |       |          | 76.07         |
|             | Total                                                                                                                                                                                     |      |       |          | 583.23        |
|             | add 1% labour cess                                                                                                                                                                        |      |       |          | 5.83          |
|             | Rate of Each                                                                                                                                                                              |      |       |          | 589.06        |
|             | Say                                                                                                                                                                                       |      |       |          | <b>589.00</b> |

| ICD No.   | Description                                                                                                                                                                                                    | Unit | Qty.  | Rate ₹  | Amount ₹       |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|----------------|
| <b>28</b> | <b>Providing, installation, testing &amp; commissioning of electric release trim assembly for deluge wall with two way solenoid valve, weather proof operation on 24 volts DC supply complete as required.</b> |      |       |         |                |
| <b>A</b>  | <b>Materials</b>                                                                                                                                                                                               |      |       |         |                |
| 4232      | Cost of electric release solenoid valve                                                                                                                                                                        | Each | 1.00  | 5382.00 | 5382.00 P      |
|           | Cartage @1% of P                                                                                                                                                                                               |      |       |         | 53.82          |
|           | Total                                                                                                                                                                                                          |      |       |         | 5435.82 A      |
| 0116      | Fitter, Grade 1                                                                                                                                                                                                | day  | 0.062 | 420.00  | 26.04          |
| 0115      | Welder                                                                                                                                                                                                         | day  | 0.062 | 463.00  | 28.71          |
| 0161      | Helper                                                                                                                                                                                                         | day  | 0.125 | 306.00  | 38.25          |
|           | Total                                                                                                                                                                                                          |      |       |         | 93.00          |
|           | Total of A+B Rs.                                                                                                                                                                                               |      |       |         | 5528.82 B      |
|           | Add 12% GST (MF= 0.1405)                                                                                                                                                                                       |      |       |         | 776.80         |
|           |                                                                                                                                                                                                                |      |       | Total   | 6305.61        |
| <b>C</b>  | Overhead & Profit @ 15%                                                                                                                                                                                        |      |       |         | 945.84         |
|           | Total                                                                                                                                                                                                          |      |       |         | 7251.46        |
|           | add 1% labour cess                                                                                                                                                                                             |      |       |         | 72.51          |
|           | Rate of Each                                                                                                                                                                                                   |      |       |         | 7323.97        |
|           | Say                                                                                                                                                                                                            |      |       |         | <b>7324.00</b> |
| <b>29</b> | <b>Providing, installation, testing &amp; commissioning of adjustable rosette plate for 15mm dia in white finish UL Listed or FM approved complete as required.</b>                                            |      |       |         |                |
| <b>A</b>  | <b>Materials</b>                                                                                                                                                                                               |      |       |         |                |
| 4233      | Cost of adjustable rosette plate                                                                                                                                                                               | Each | 1.00  | 80.00   | 80.00 P        |
|           | Cartage @1% of P                                                                                                                                                                                               |      |       |         | 0.8            |
|           | Total                                                                                                                                                                                                          |      |       |         | 80.80 A        |
| <b>B</b>  | <b>Labour</b>                                                                                                                                                                                                  |      |       |         |                |
| 0116      | Fitter, Grade 1                                                                                                                                                                                                | day  | 0.062 | 420.00  | 26.04          |
| 0161      | Helper                                                                                                                                                                                                         | day  | 0.062 | 306.00  | 18.97          |
|           | Total                                                                                                                                                                                                          |      |       |         | 45.01          |
|           | Total of A+B Rs.                                                                                                                                                                                               |      |       |         | 125.81 B       |
|           | Add 12% GST (MF= 0.1405)                                                                                                                                                                                       |      |       |         | 17.68          |
|           |                                                                                                                                                                                                                |      |       | Total   | 143.49         |
| <b>C</b>  | Overhead & Profit @ 15%                                                                                                                                                                                        |      |       |         | 21.52          |
|           | Total                                                                                                                                                                                                          |      |       |         | 165.01         |
|           | add 1% labour cess                                                                                                                                                                                             |      |       |         | 1.65           |
|           | Rate of Each                                                                                                                                                                                                   |      |       |         | 166.66         |
|           | Say                                                                                                                                                                                                            |      |       |         | <b>167.00</b>  |












