| $\begin{aligned} & \text { SI. } \\ & \text { no. } \end{aligned}$ | SR.Item No. | Items of work | Total Quantity |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 3 [ 3 | 4 |
| 1 | 2.8.1. | Earthwork in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m , including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil <br> Tank- $1 \times 13^{\prime}-6 " 1 \times 7^{\prime}-6 " \times 6^{\prime}-9 "=683 \mathrm{Cft}$. <br> Chamber-2x(3'-4"x 5'-2"x2'-9") = 95 Cft . <br> Masonry Pillar- 1x 2'-1"x2'-1"x0'-6" $=\frac{2 \mathrm{Cft}}{780 \mathrm{Cft}}$ <br> Or, $22.09 \mathrm{M}^{3}$ | $\begin{aligned} & 22.09 \\ & \mathrm{M}^{3} \end{aligned}$ |
| 2 | 11.72 | Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of $\mathrm{E} / \mathrm{l}$. <br> Tank- $1 \times 13^{\prime}-66^{\prime \prime} \mathrm{x} 7^{\prime}-6 "=101 \mathrm{Sft}$. <br> Chamber- $2 \times 3^{\prime}-10^{\prime \prime} \times 55^{\prime}-2 "=\frac{40 \mathrm{Stt}}{141 \mathrm{Sft}}$. <br> Or $13.10 \mathrm{M}^{2}$ | $\begin{aligned} & 13.10 \\ & \mathrm{M}^{2} \end{aligned}$ |
| 3 | 4.1.3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work up to plinth level: 1:2:4 (1 Cement: 2 <br> coarse sand: 4 graded stone aggregate 20 mm nominal size) <br> Tank- $1 \times 13^{\prime}-6 " \times 77^{\prime}-6 " x 0^{\prime}-9 "=76 \mathrm{Cft}$. <br> Chamber- $2 \times 3^{\prime}-10^{\prime \prime} \times 5^{\prime}-2 " \times 0^{\prime}-6 "=20 \mathrm{Cft}$. <br> Masonry Pillar-1x $2^{\prime}-1 " \times 2^{\prime}-1 " x 0^{\prime}-6 " \equiv 2 \mathrm{Cft}$ <br> Or $2.78 \mathrm{M}^{3}$ | $2.78 \mathrm{M}^{3}$ |
| 4 | 6.1.12A | Brick work with bricks of class designation 100A in foundation and plinth in : Cement mortar 1:4(1 cement : 4 coarse sand) <br> Chamber- <br> Quantity- 19'-2"x 0'-10"x3'-3" = 52 Cft . <br> $\begin{aligned} \text { Masonry Pillar- } 1 \times 1^{\prime}-8 " x 1^{1}-8 " \times 3^{\prime}-0 " & =8 \mathrm{Cft} \\ & \begin{array}{ll}318 \mathrm{Cft} \\ & \\ & \\ & .00 \mathrm{M}^{3}\end{array}\end{aligned}$ | $9.00 \mathrm{M}^{3}$ |
| 5 | 5.1.3 | Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement-All work up to plinth level : 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) Septic Tank Cover <br> In Baffle wall ( $3^{\prime \prime}$ thick:-) $2 \times 4^{\prime}-10^{\prime \prime} \times 3^{\prime}-9 " \times 0^{\prime}-3 "=9 \mathrm{cft} .$ $1 \times 4^{\prime}-10^{\prime \prime} \times 3^{\prime}-0 " x 0^{\prime}-3^{\prime \prime}=4 \mathrm{Cft} .$ | $0.96 \mathrm{M}^{3}$ |


| 6 | 5.22.7A | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars(TMTC-500) 8 mm dia <br> Qty- $34 \mathrm{Cft} @ 2.00 \mathrm{~kg}$ per Cft. Including weight of lifting rings needed. $\text { Qty. }=34 \times 2.00=68 \mathrm{~kg}$ | 68 kg |
| :---: | :---: | :---: | :---: |
| 7 | 19.15.1 | Providing M.S. foot rests including fixing in manholes with $20 \times 20 \times 10 \mathrm{~cm}$ cement concrete blocks 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With $20 \times 20 \mathrm{~mm}$ square bar In Septic tank- 5 Nos. | 5 Nos. |
| 8 | 12.78 .1 | Providing and fixing on wall face unplasticised-PVC (working pressure 4 kg per sq cm ) pipes conforming to IS : 4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion: <br> 75 mm diameter PVC pipe- 14'-0" = 14 Rft . Or 4.27 Mt | $\begin{aligned} & 4.27 \\ & \text { Mtr. } \end{aligned}$ |
| 9 | 12.79.5.1 | Providing and fixing on wall face unplasticised- PVC moulded fittings /accessories for unplasticised-PVC rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 75 mm bend | 1 No. |
| 10 | N.S.I. | Providing and fixing on wall face unplasticised- PVC moulded fittings /accessories for unplasticised-PVC rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 75 mm dia PVC Cowel. | 1 No. |
| 11 | 12.79.4.2 | Providing \& fixing on wall face unplastisised P.V.C. pipe (working pressure 4 $\mathrm{Kg} / \mathrm{Sq} . \mathrm{cm}$ ) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion: $110 \times 110 \times 110 \mathrm{~mm}$ dia Single Jn Tee without door | 1 No. |
| 12 | $\begin{aligned} & \text { PH Code } \\ & 7205 \\ & \text { Analysed } \end{aligned}$ | Providing \& fixing on wall face unplastisised P.V.C. pipe (working pressure 4 $\mathrm{Kg} / \mathrm{Sq} . \mathrm{cm}$ ) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: <br> $110 \times 110 \times 110 \mathrm{~mm}$ single equal Y without door | 1 No. |
| 13 | 13.17.1 | 12 mm cement plaster of mix: <br> 1:3 ( 1 cement : 3 coarse sand) : Neat Cement Punning <br> Tank- Bottom - $1 \times 10^{\prime}-0 " \times 4{ }^{\prime}-0 "=40 \mathrm{Sft}$. <br> In side $2 \times\left(10^{\prime}-0 "+4^{\prime}-0 "\right) \times 4^{\prime}-9 "=133 \mathrm{Stt}$. <br> $2 \times\left(10^{\prime}-5^{\prime \prime}+4^{\prime}-5^{\prime \prime}\right) \times 2^{\prime}-2^{1 / 2 "}=65 \mathrm{Sft}$. <br> Chamber- Bottom - $2 \times 2$ 2'- 6"x2'-6" $=13 \mathrm{Sft}$. <br> In side- $2 \times 2 \times 2$ ' $-81^{1 / 2 " x} 3^{\prime \prime}-0^{\prime \prime}$ <br> $=33 \mathrm{Sft}$ <br> In side - $2 \times 2 \times 2$ 2 - 6" x $3^{\prime}$ - 0 " | $29.18 \mathrm{M}^{2}$ |
| 14. | 13.11 .4 | 12mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand) <br> Tank Out side - $\quad 2 \times 12^{\prime}-1^{\prime \prime}=24^{\prime}-2 "$ <br> Side Projections- $2 \times 2 \times 0^{\prime}-11 \frac{1}{2 \prime \prime}=\frac{3^{\prime \prime}-10^{\prime \prime}}{28^{\prime \prime}-0^{\prime \prime}}$ <br> Top ofTank - $2 \times 12^{\prime}-1^{\prime \prime}=24^{\prime}-2^{\prime \prime}$ $24^{\prime}-2 " \times 00^{\prime}-5 " \quad=10 \mathrm{Stt}$ <br> Chamber Out sides - <br> $\left(2 \times 2 \times 33^{\prime}-61 / 2^{\prime \prime}+2 \times 4^{\prime}-22^{\prime \prime}\right) \times 1^{\prime}-9{ }^{\prime \prime}=39 \mathrm{Sft}$ Top of Chamber ( $2 \times 2 \times 33^{\prime}-$ <br> $\left.61 / 22^{\prime \prime}+2 \times 1 \times 3^{\prime}-4 "\right) \times 0^{\prime}-5 "=09 \mathrm{sft}$. <br> Massonary Pillar - $4 \times 1^{\prime}-8^{\prime \prime} \times 3^{\prime}-0 "=20 \mathrm{Sft}$. $\begin{aligned} 1 \times 1^{\prime}-8 " \times 1^{\prime}-8 " & =\frac{03 \mathrm{Stt} .}{144 \mathrm{Stt}} \\ & \text { Or } 13.38 \mathrm{M}^{2} \end{aligned}$ | $13.38 \mathrm{M}^{2}$ |


| 15 | 13.24 .2 | 6 mm cement plaster to ceilling of Mix : <br> 1:4 (1 cement : 4 coarse sand) <br> R.C.C.Cover of tank- $1 \times 10^{\prime}-5^{\prime \prime} \times 4$ ' $-5 "=46 \mathrm{Stt}$. <br> R.C.C.Cover of <br> Chamber- $\begin{aligned} 2 \times 2^{\prime}-6 " \times 2^{\prime}-8^{1 / 2 "} & =\frac{14 \mathrm{Sft} .}{60 \mathrm{Stt} .} \\ \text { Or } & 5.58 \mathrm{M}^{2} \end{aligned}$ | $5.58 \mathrm{M}^{2}$ |
| :---: | :---: | :---: | :---: |
| 16 | 19.9.1.1 | Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality:LD 2.5:Rectangular shape $600 \times 450 \mathrm{~mm}$ internal dimensions | 1 Nos. |
| 17 |  | Extra cost :-  <br> (a) Bricks - 4870 Nos. <br> (b) Cement - 44 Bags. | 4870 <br> Nos <br> 44 <br> Bags. |
| 18 |  | Carriage of materials :-  <br> (a) Bricks - 4870 Nos. <br> (b) Sand - $4.18 \mathrm{M}^{3}$ <br> (C) Stone Chips - $3.33 \mathrm{M}^{3}$. | $\begin{aligned} & 4870 \\ & \text { Nos } \\ & 4.18 \mathrm{M}^{3} \\ & 3.33 \mathrm{M}^{3} \end{aligned}$ |

CONSUMPTION STATEMENT OF MATERIALS FOR 150 C.F.T. SEPTIC TANK.

| $\begin{gathered} \mathrm{SI} \\ \text { No. } \end{gathered}$ | Item of work | Qty. | Cement in $\mathrm{M}^{3}$ | Coarse Sand in $\mathrm{M}^{3}$ | $\begin{aligned} & \text { Stone Chips } \\ & \text { in }^{3} \end{aligned}$ | Bricks in Nos. | Steel in Kg . |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Brick flat soling. | $13.10 \mathrm{M}^{2}$ | - | 0.200 | - | 423 | - |
| 2 | P.C.C. (1:2:4) | $2.78 \mathrm{M}^{3}$ | 0.619 | 1.237 | 2.474 | - | - |
| 3 | Brick work (1:4) | $9.00 \mathrm{M}^{3}$ | 0.450 | 1.80 | - | 4446 | - |
| 4 | R.C.C.(1:2:4) | $0.96 \mathrm{M}^{3}$ | 0.214 | 0.427 | 0.854 | - | 68.00 |
| 5 | $1 / 22^{\prime \prime}$ C.P. (1:3) with punning | $29.18 \mathrm{M}^{2}$ | 0.111 | 0.315 | - | - | - |
| 6 | 1/2" C.P. (1:6) | $13.38 \mathrm{M}^{2}$ | 0.028 | 0.165 | - | - | - |
| 7 | $1 / 4 \text { " C.P. (1:4) in }$ ceiling | $5.58 \mathrm{M}^{3}$ | 0.078 | 0.032 | ${ }^{-}$ | - | - |
| Total - |  |  | $\begin{aligned} & 1.50 \mathrm{M}^{3} \\ = & 44 \text { bags } \end{aligned}$ | $4.176 \mathrm{M}^{3}$ <br> Say 4.18 M $^{3}$ | $3.328 \mathrm{M}^{3}$ <br> Say 3.33 M $^{3}$ | 4869 Nos Say 4870 Nos. | 68 Kg . |

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| SI.no. | SR.Item No. | Items of work | Total Quantity |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 |
| 1 | 2.8.1. | Earthwork in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m , including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil <br> (A) $\frac{22}{7 \times 4} \times\left(6^{\prime}-8^{\prime \prime}\right)^{2} \times 3^{\prime}-0 "=104.74 \mathrm{Cft}$. $\frac{22}{7 \times 4} \times\left(5^{\prime}-0^{\prime \prime}\right)^{2} \times 2^{\prime}-0 "=39.28 \mathrm{Cft} .$ <br> (B) Do- -Do- below 5' - 0" upto 12' -0 " depth. $\frac{22}{7 \times 4} \times\left(5^{\prime}-0^{\prime \prime}\right)^{2} \times 7^{\prime}-0 "=\frac{137.50 \mathrm{Cft}}{281.52 \mathrm{Cft}} \begin{gathered} \text { or } 7.97 \mathrm{M}^{3} \end{gathered}$ | $7.97 \mathrm{M}^{3}$ |
| 2 | 5.1.3 | Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work upto plinth level : 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) In Baffle wall ( 2 " thick:-) $\left.\frac{22}{7 \times 4} \times\left(6^{\prime}-8\right)^{2}\right)^{2} \times 0^{\prime}-3 "=8.72 \mathrm{Cft}^{\prime \prime} \text { Or } 0.247 \mathrm{M}^{3} .$ | $0.247 \mathrm{M}^{3}$ |
| 3 | 5.22.7A | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: ThermoMechanically Treated bars(TMTC-500) 8 mm dia. R.C.C. same as item 5.1.3 <br> Qty- $8.72 \mathrm{Cft} \quad 2.00 \mathrm{~kg}$ per Cft. Including from lifting rings needed. $\text { Qty. }=17.44 \mathrm{~kg} \text { say } \quad 17 \mathrm{~kg}$ | 17 kg |
| . 4 | 13.11.4 | 12mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand) Ground Floor - $\begin{array}{r} \frac{22}{7} \times\left(6^{\prime}-8 "\right) \times 1^{\prime}-0 "=20.95 \mathrm{Sft} . \\ \text { Or } 1.948 \mathrm{M}^{2} \end{array}$ | $1.948 \mathrm{M}^{2}$ |
| 5 | 13.24.2 | 6 mm cement plaster to ceilling of Mix : 1:4 (1 cement : 4 coarse sand) $\begin{aligned} \frac{22}{7 \times 4} \times\left(6^{\prime}-8^{\prime \prime}\right)^{2} & =34.91 \mathrm{Sft} . \\ \frac{22}{7} \times\left(6^{\prime}-8^{\prime \prime}\right) \times 0^{\prime}-3 " & =\frac{5.23 \mathrm{Sft}}{40.14 \mathrm{Sft} .} \\ \text { Or } & 3.73 \mathrm{M}^{2} \end{aligned}$ | $3.73 \mathrm{M}^{2}$ |
| 6 |  | Extra cost :-  <br> (a) Bricks - 800 Nos. <br> (b) Cement - 4 Bags. | 800 Nos 4 Bags. |


| 7 |  | Carriage of materials :-  <br> (a) Bricks - 2550 Nos. <br> (b) Sand - $0.50 \mathrm{M}^{3}$ <br> (C) Stone Chips - $0.22 \mathrm{M}^{3}$. | $\begin{gathered} 2550 \mathrm{Nos} \\ 0.50 \mathrm{M}^{3} \\ 0.22 \mathrm{M}^{3} \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| 8 | Br . | Providing brick bats and filling the same in soak pit as per specificarion and direction of engineer in charge. $\frac{22}{7 \times 4} \times\left(5^{\prime}-00^{\prime \prime}\right)^{2} \times 10^{\prime}-6^{\prime \prime}=206.25 \mathrm{Cft} .$ $\text { Or } 5.84 \mathrm{M}^{3}$ | $5.84 \mathrm{M}^{3}$ |
| 9 | 6.1.14A | Brick work with bricks of class designation 100A in foundation and plinth in : Cement mortar 1:6(1 cement : 6 coarse sand) $\frac{22}{7} \times\left(5^{\prime}-10^{\prime \prime}\right) \times 10^{\prime \prime} \times 3^{\prime}-9 "=57.26 \mathrm{Cft} .$ <br> Or $1.62 \mathrm{M}^{3}$ | $1.62 \mathrm{M}^{3}$ |

CONSUMPTION STATEMENT OF MATERIALS FOR 5'-0" DIA SOAK PIT.

| $\begin{gathered} \hline \mathrm{SI} \\ \text { No. } \end{gathered}$ | Item of work | Qty. | Cement in $\mathrm{M}^{3}$ | Coarse Sand in $\mathrm{M}^{3}$ | Stone Chips | Bricks in Nos. | Steel in Kg . |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Brick work in c.m. (1:6) | $1.62 \mathrm{M}^{2}$ | 0.058 | 0.347 | - | 800 | - |
| 2 | R.C.C. (1:2:4) | $0.247 \mathrm{M}^{3}$ | 0.055 | 0.110 | 0.22 | - | - |
| 3 | Reinforcement | $\begin{aligned} & 0.017 \\ & \text { M./T. } \\ & \hline \end{aligned}$ | - | - | - | - | 17 |
| 4 | Brick bats | $5.84 \mathrm{M}^{3}$ | - | - | - | 1753 | - |
| 5 | ½" C.P. (1:6) | $1.948 \mathrm{M}^{2}$ | 0.004 | 0.024 | - | - | - |
| 6 | 1/4" C.P. (1:4) | $3.73 \mathrm{M}^{2}$ | 0.005 | 0.022 | - | - | - |
| Total - |  |  | $\begin{aligned} & 0.122 \mathrm{M}^{3} \\ & \text { or } 4 \text { bags } \end{aligned}$ | $\begin{aligned} & 0.503 \mathrm{M}^{3} \\ & \text { Say } 0.50 \mathrm{M}^{3} \end{aligned}$ | $0.22 \mathrm{M}^{3}$ | 2553 Nos. Say 2550 Nos. | 17 Kg. |

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