Vide Drawing no.157 SI.no. 274 dt, 22.12.1978
VIDE S/R OF B.C.D.BIHAR, w.e.f. 15-09-2014

| 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 Tank- 11'-6" x 6'-0"× 5'-9" = 397 Cft . Chamber- $2 \times 4$ '-8"x 2 '-10"x2'-6" $=66$ Ctt. Masonry Pillar- 1x 2'-1"x2'-1"x0'-6" $=\frac{2 \mathrm{Cft}}{465 \mathrm{Cft}}$ <br> Or $13.17 \mathrm{M}^{3}$ | $13.17 \mathrm{M}^{3}$ |
| 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 $\mathrm{E} / \mathrm{I}$. <br> Tank- $11^{\prime}-6 " x 6^{\prime}-0 "=69 \mathrm{Sft}$. Or $6.41 \mathrm{M}^{2}$ | $6.41 \mathrm{M}^{2}$ |
| 3 | 4.1.3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work upto plinth level: 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) <br> Tank- 11'-6" x 6'-0"x 0'-6" = 35 Cft . <br> Chamber- $2 \times 4^{\prime}-8 " \times 3^{\prime}-4 " x 0^{\prime}-6 "=16 \mathrm{Ct}$. <br> Masonry Pillar- $1 \times 2$ 2'-1"x2'-1"x $0^{\prime}-6 "=2 \mathrm{Cft}$ <br> Or $1.50 \mathrm{M}^{3}$ | $1.50 \mathrm{M}^{3}$ |
| 4 | 6.1.12/A | Brick work with bricks of class designation 100A in foundation and plinth in : Cement mortar 1:4(1 cement : 4 coarse sand) <br> 16 " Thick wall <br> Tank - $2 \times 10^{\prime}-6^{\prime \prime}=21^{\prime}-0^{\prime \prime}$ $2 \times 2^{\prime}-6 "=\frac{5^{\prime}-0 "}{26^{\prime}-0 "}$ <br> Quantity- 26'-0"x 1'-3"x4'-0" = 130 Cft . <br> For 10" thick wall <br> Tank - $2 \times 10^{\prime}-1^{\prime \prime}=20^{\prime}-2^{\prime \prime}$ <br> $2 \times 2^{\prime-11 "}=5^{\prime \prime}-10^{\prime \prime}$ <br> Quantity- 26'-0"x 0'-10"x2'-3" = 49 Ctt. <br> Chamber- $\begin{array}{lr} \hline 2 \times 2 \times 3^{\prime}-1 / 1 / 2 "= & 12^{\prime}-2 " \\ 2 \times 1 \times 2^{\prime}-0 "= & 4^{\prime}-0 " \\ 16^{\prime}-2 " \end{array}$ <br> Quantity- $16^{\prime}-2 " x 0^{\prime}-10 " x 3^{\prime}-3 "=44 \mathrm{Cft}$. <br> Masonry Pillar- $1 \times 1^{\prime}-8$ "x1'-8"x3'-0" $=8 \mathrm{Cft}$. <br> Total $-130+49+44+8 \mathrm{Cft}=231 \mathrm{Cft}$. Or $6.54 \mathrm{M}^{3}$ | $6.54 \mathrm{M}^{3}$ |

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| 5 | 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) <br> In Baffle wall (2" thick:-) $\begin{aligned} & 2 \times 33^{\prime}-4 " \times 22^{\prime}-6 " \times 0 "-2 "=2.80 \mathrm{Cft} \\ & 1 \times 3^{\prime}-4 " \times 2-3 " \times 0^{\prime}-2 "=1.30 \mathrm{Ctt} \end{aligned}$ <br> Slab Cover ( $3^{\prime \prime}$ thick) <br> Tank- $9^{\prime}-9 " \times 33^{\prime}-9 " x 0^{\prime}-3 "=9.10 \mathrm{Cft}$. <br> In Chambers 2 Nos $\begin{aligned} & \hline 2 \times 3^{\prime}-1 / 2^{\prime \prime} \times 2^{\prime}-10^{\prime \prime} \times 0^{\prime}-3 "=\frac{4.30 \mathrm{Cft}}{17.50 \mathrm{Cft.}} \\ & \text { Or } 0.50 \mathrm{M}^{3} \\ & \hline \end{aligned}$ | $0.50 \mathrm{M}^{3}$ |
| :---: | :---: | :---: | :---: |
| 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- $17.50 \mathrm{Cft} @ 2.00 \mathrm{~kg}$ per Cft. Including weight of lifting rings needed. $\text { Qty. }=17.50 \times 2.00=35 \mathrm{~kg}$ | 35 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- 4 Nos. | 4 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- $14^{\prime}-0^{\prime \prime}=14$ Rft. Or 4.27 Mt | 4.27 Mtr. |
| 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 $I S$ : 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 10 mm gap for thermal expansion: $110 \times 110 \times 110 \mathrm{~mm}$ 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 In side Tank $-2 \times\left(8^{\prime}-0^{\prime \prime}+2^{\prime}-6^{\prime \prime}\right) \times 4^{\prime}-0=84 \mathrm{Sft}$. $2 \times\left(8^{\prime}-5^{\prime \prime}+2^{\prime}-11^{\prime \prime}\right) \times 2^{\prime}-0 "=45.32 \mathrm{Stt}$. <br> Bottom of Tank- $1 \times 8^{\prime}-0^{\prime \prime} \times$ 2' $^{\prime}-6^{\prime \prime}=20 \mathrm{Stt}$ <br> Chamber - $2 \times 2$ ( $\left.2^{\prime}-2^{1} / 2^{\prime \prime}+2^{\prime}-0^{\prime \prime}\right) \times 3^{\prime}-0 "=50.50 \mathrm{Sft}$. <br> Bottom - $2 \times 2$ 2'0" $\times 2^{\prime}-0$ = $=08 \mathrm{Sft}$. <br> Baffle wall- $2 \times$ 2' $^{\prime}-6 " \times 2$ 2' $-6 "$ = 12.50 Sft . <br> 1x 2' - 6" x 2' -3" | $21.00 \mathrm{M}^{2}$ |


| 14. | 13.11 .4 | 12mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand) <br> Out side the Tank $-2 \times 10^{\prime}-1^{\prime \prime} \times 1^{\prime}-9^{\prime \prime}=35 \mathrm{Sft}$. <br> Out sides of chamber- $2 \times 2 \times 3^{\prime}-1 / 22^{\prime \prime} \times 1^{\prime}-9 "=21 \mathrm{Stt}$. $2 \times 3^{\prime}-8 " \times 1^{\prime}-9 "=13 \mathrm{Stt}$ <br> Projection of Tank- $4 \times 0$ 0' $5 \frac{1}{2} 2^{\prime \prime} \times 1^{\prime}-9 "=03 \mathrm{Stt}$. <br> Top of Tank \& Inspection Chamber - | $10.22 \mathrm{M}^{2}$ |
| :---: | :---: | :---: | :---: |
| 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- $1 \times 8$ ' $-5^{\prime \prime} \times 2^{\prime}-11^{\prime \prime}=25 \mathrm{Sft}$. <br> R.C.C.Cover of <br> Chamber - $\begin{aligned} & 2 \times 2^{\prime}-2^{1} / 2^{\prime \prime} \times 2^{\prime}-0 "=\frac{09 \mathrm{stt.}}{34 \mathrm{Stt}} \\ & \text { Or } 3.16 \mathrm{M}^{2} \\ & \hline \end{aligned}$ | $3.16 \mathrm{M}^{2}$ |
| 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 No. |
| 17 |  | Extra cost :-  <br> (a) Bricks - 3440 Nos. <br> (b) Cement - 26 Bags. | 3440 Nos 26 Bags. |
| 18 |  | Carriage of materials :-  <br> (a) Bricks - 3440 Nos. <br> (b) Sand - $2.67 \mathrm{M}^{3}$ <br> (C) Stone Chips - $1.78 \mathrm{M}^{3}$. | $\begin{aligned} & 3440 \mathrm{Nos} \\ & 2.67 \mathrm{M}^{3} \\ & 1.78 \mathrm{M}^{3} \\ & \hline \end{aligned}$ |

## CONSUMPTION STATEMENT OF MATERIALS FOR 60 C.F.T. SEPTIC TANK.

| $\begin{gathered} \mathrm{Sl} \\ \mathrm{No} . \end{gathered}$ | Item of work | Qty. | Cement in $\mathrm{M}^{3}$ | Coarse Sand in $\mathrm{M}^{3}$ | $\begin{gathered} \text { Stone Chips } \text { in }^{3} \end{gathered}$ | Bricks in Nos. | $\begin{gathered} \text { Steel } \\ \text { in } \\ \mathrm{Kg} . \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Brick flat soling. | $6.41 \mathrm{M}^{2}$ | - | 0.100 | - | 207 | - |
| 2 | P.C.C. (1:2:4) | $1.50 \mathrm{M}^{3}$ | 0.334 | 0.668 | 1.335 | - | - |
| 3 | Brick work (1:4) | $6.54 \mathrm{M}^{3}$ | 0.327 | 1.308 | - | 3231 | - |
| 4 | R.C.C.(1:2:4) | $0.50 \mathrm{M}^{3}$ | 0.111 | 0.223 | 0.445 | - | - |
| 5 | $1 / 22^{\prime \prime}$ C.P. (1:3) with punning | $\begin{gathered} 21.00 \\ M^{2} \end{gathered}$ | 0.080 | 0.227 | - | - | - |
| 6 | 1⁄2" C.P. (1:6) | $\begin{gathered} 10.22 \\ M^{2} \end{gathered}$ | 0.021 | 0.126 | - | - | - |
| 7 | 1/4" C.P. (1:4) in ceiling | $3.16 \mathrm{M}^{3}$ | 0.004 | 0.018 | ${ }^{-}$ | - | - |
| Total - |  |  | $\begin{aligned} & 0.877 \mathrm{M}^{3} \\ & =26 \\ & \text { bags } \end{aligned}$ | $2.670 \mathrm{M}^{3}$ | $1.78 \mathrm{M}^{3}$ | $\begin{aligned} & 3438 \text { Nos } \\ & \text { Say } 3440 \\ & \text { Nos. } \end{aligned}$ | 35 Kg . |


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| :---: | :---: | :---: | :---: |
| 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) $\frac{22}{7 \times 4} \times\left(5^{\prime}-88^{\prime \prime}\right)^{2} \times 3^{\prime}-0 "=75.51 \mathrm{Cft}$. $\frac{22}{7 \times 4} \times\left(4^{\prime}-0^{\prime \prime}\right)^{2} \times 2^{\prime}-0 "=\frac{25.14 \mathrm{Cft}}{100.65 \mathrm{Ct}} .$ <br> Or $2.85 \mathrm{M}^{3}$ <br> (B) Do- -Do- below 5' -0 " upto $8^{\prime}-0$ depth. $\frac{22}{7 \times 4} \times\left(4^{\prime}-0^{\prime \prime}\right)^{2} \times 3^{\prime}-0 "=37.71 \mathrm{Cft} .$ <br> Or $1.068 \mathrm{M}^{3}$ <br> (C) ) Do- -Do- below 8' - 0" upto 10' 0 0" depth. $\frac{22}{7 \times 4} \times\left(4^{\prime}-0^{\prime \prime}\right)^{2} \times 2^{\prime}-0^{\prime \prime}=25.14 \mathrm{Cft} . \quad \frac{\operatorname{Or~} 0.719 \mathrm{M}^{3}}{4.63 \mathrm{M}^{3}}$ | $4.63 \mathrm{M}^{3}$ |
| 2 | 4.1.3 | 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 ( $2^{\prime \prime}$ thick:-) $\frac{22}{7 \times 4} \times\left(5^{\prime}-88^{\prime \prime}\right)^{2} \times 0^{\prime}-3^{\prime \prime}=6.29 \mathrm{Cft} . \quad \text { Or } 0.178 \mathrm{M}^{3}$ | $0.178 \mathrm{M}^{3}$ |
| 3 | 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. R.C.C. same as item 5.1.3 Qty- $6.29 \mathrm{Cft} \quad 2.00 \mathrm{~kg}$ per Cft. Including from lifting rings needed. <br> Qty. $=12.58 \mathrm{~kg}$ say <br> 13 kg | 13 kg |
| . 4 | 13.11 .4 | 12 mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand) <br> Ground Floor - $\begin{array}{r} \frac{22}{7} \times 5^{\prime-}-8^{\prime \prime} \times 1^{\prime}-0 "=17.80 \mathrm{Stt} \\ \text { Or } 1.654 \mathrm{M}^{2} \end{array}$ | $1.654 \mathrm{M}^{2}$ |
| 5 | 13.24 .2 | 6 mm cement plaster to ceilling of Mix : 1:4 (1 cement : 4 coarse sand) $\begin{aligned} \frac{22}{7 \times 4} \times\left(5^{\prime}-8^{\prime \prime}\right)^{2} & =25.17 \mathrm{Sft} . \\ \frac{22}{7 \times 5^{\prime}-8^{\prime \prime} \times 0^{\prime}-3^{\prime \prime}} & =4.45 \mathrm{Sft} \\ & \begin{array}{rr} 29.62 \mathrm{Stt} \\ \text { Or } & 2.753 \mathrm{M}^{2} \end{array} \end{aligned}$ | $2.753 \mathrm{M}^{2}$ |


| 6 |  | Extra cost :-  <br> (a) Bricks - 663 Nos. <br> (b) Cement - 3 Bags. | 663 Nos 3 Bags. |
| :---: | :---: | :---: | :---: |
| 7 |  | Carriage of materials :-  <br> (a) Bricks - 1573 Nos. <br> (b) Sand - $0.40 \mathrm{M}^{3}$ <br> (C) Stone Chips - $0.16 \mathrm{M}^{3}$. | $\begin{gathered} \text { 1573Nos } \\ 0.40 \mathrm{M}^{3} \\ 0.16 \mathrm{M}^{3} \end{gathered}$ |
| 8 | Br . | Providing brick bats and filling the same in soak pit as per specificarion and direction of engineer in charge. $\frac{22}{7 \times 4} \times\left(4^{\prime}-0^{\prime \prime}\right)^{2} \times 8^{\prime}-6 "=\begin{aligned} & 106.85 \mathrm{Cft} . \\ & \text { Say } 107 \mathrm{Cft} . \end{aligned}$ $\text { Or } 3.03 \mathrm{M}^{3}$ | $3.03 \mathrm{M}^{3}$ |
| 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) $-\quad \frac{22}{28} \times\left\{\left(5^{\prime}-8^{\prime \prime}\right)^{2}-\left(4^{\prime}-0^{\prime \prime}\right)^{2}\right\} \times 3^{\prime}-9 "=47.44 \mathrm{Cft} .$ $\text { Or } 1.343 \mathrm{M}^{3}$ | $1.343 \mathrm{M}^{3}$ |

CONSUMPTION STATEMENT OF MATERIALS FOR 4'-0" DIA SOAK PIT.

| $\begin{gathered} \mathrm{SI} \\ \text { No. } \end{gathered}$ | 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) | $1.343 \mathrm{M}^{2}$ | 0.048- | 0.288 | - | 663 | - |
| 2 | R.C.C. (1:2:4) | $0.178 \mathrm{M}^{3}$ | 0.040 | 0.079 | 0.158 | - | - |
| 3 | Reinforcement | $\begin{aligned} & \hline 0.013 \\ & \text { M./T. } \end{aligned}$ | - | - | - | - | 13 |
| 4 | Brick bats | $3.03 \mathrm{M}^{3}$ | - | - | - | 910 | - |
| 5 | 1⁄2" C.P. (1:6) | $1.654 \mathrm{M}^{2}$ | 0.003 | 0.020 | - | - | - |
| 6 | 1/4" C.P. (1:4) | $2.753 \mathrm{M}^{2}$ | 0.004 | 0.016 | - | - | - |
| Total - |  |  | $\begin{aligned} & 0.095 \mathrm{M}^{3} \\ & =3 \text { bags } \end{aligned}$ | $0.403 \mathrm{M}^{3}$ <br> Say 0.40 M $^{3}$ | $0.158 \mathrm{M}^{3}$ <br> Say $0.16 \mathbf{M ~}^{3}$ | 1573 Nos. | 13 Kg . |

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