VIDE DRAWING NO.- 171 DATED 20-02-79 SL NO. 293
VIDE S/R OF B.C.D.BIHAR, w.e.f. 15-09-2014

| $\begin{aligned} & \text { SI. } \\ & \text { no. } \end{aligned}$ | SR.Item No. | Items of work | Total Quantity |
| :---: | :---: | :---: | :---: |
| , | 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 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- 1x19'-6" x 7'-6"x 7'-9" = 1133 Cft . <br> Chamber- $2 x\left(3^{\prime}-4 " x 5^{\prime}-2 " x 2^{\prime}-9 "\right)=95 \mathrm{Cft}$. <br> Masonry Pillar-1x $2^{\prime}-1$ "x2'-1"x0'-6" $=\frac{2 \mathrm{Cft}}{1230 \mathrm{Cft}}$ <br> Or, $34.83 \mathrm{M}^{3}$ | $34.83 \mathrm{M}^{3}$ |
| 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- $1 \times 19^{\prime}-6$ "x $7^{\prime}-6 "=146 \mathrm{Sft}$. <br> Chamber- $2 \times 3^{\prime}-10 " x 5^{\prime}-2 "=\frac{40 \mathrm{Sft} .}{186 \mathrm{Sft}}$. <br> Or $17.28 \mathrm{M}^{2}$ | $17.28 \mathrm{M}^{2}$ |
| 3 | 4.1.3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering all work up to plinth level: 1:2:4 (1 Cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) <br> Tank- 19'-6" x 7'-6"x 0'-9" = 110 Cft . <br> Chamber- $2 \times 33^{\prime}-10 " x 5^{\prime}-2 " x 0^{\prime}-6 "=20 \mathrm{Cft}$. <br> Masonry Pillar- $1 \times 22^{\prime}-1 " x 2^{\prime}-1 " x 0^{\prime}-6 "=\frac{2 \mathrm{Cft}}{132 \mathrm{Cft}}$ <br> Or $3.74 \mathrm{M}^{3}$ | $3.74 \mathrm{M}^{3}$ |
| 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> 15" Thick wall $\begin{array}{\|ccc} \hline \text { Tank - } 2 \times\left(18^{\prime}-6 "\right) & =37 '-0 " \\ 2 \times 4^{\prime}-0 " & =8^{\prime}-0 " \\ & 45^{\prime}-0 " \end{array}$ <br> Chamber- $\begin{aligned} & \hline 2 \times 2 \times 3^{\prime}-61 / 2 "=14^{\prime}-2 " \\ & 2 \times 1 \times 2^{\prime \prime}-6 "=\frac{5^{\prime \prime}-0 "}{}=19^{\prime}-2^{\prime \prime} \end{aligned}$ <br> Quantity-19'-2"x 0'-10"x3'-3" = 52 Cft . <br> Masonry Pillar- 1x1'-8"x1'-8"x3'-0" $=\frac{8 \mathrm{Cft}}{467 \mathrm{Cft}}$. <br> Or $13.23 \mathrm{M}^{3}$ | $13.23 \mathrm{M}^{3}$ |
| 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) <br> In Baffle wall ( 3 " thick:-) <br> Slab Cover ( 3 " thick) <br> Tank- $1 \times 17^{\prime}-3 " \times 5^{\prime}-3 " x 0^{\prime}-3 "=23 \mathrm{Cft}$. <br> In Chambers 2 Nos $2 \times 3^{\prime}-61 / 2 " \times 33^{\prime}-4 \text { "x } 0^{\prime}-3 "=\frac{6 \mathrm{Cft}}{44 \mathrm{Cft} .}$ <br> Or $1.25 \mathrm{M}^{3}$ | $1.25 \mathrm{M}^{3}$ |

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| 6 | 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) 8mm dia Qty- 44 Cft @ 2.00 kg per Cft. Including weight of lifting rings needed. $\text { Qty. }=44 \times 2.00=88 \mathrm{~kg}$ | 88 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 $\mathbf{2 0} \mathbf{~ m m}$ nominal size) as per standard design : With $20 \times 20 \mathrm{~mm}$ square bar In Septic tank- $2 \times 6=12$ Nos. | 12 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 | 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 IS : 5382 leaving 10 mm gap for thermal expansion: <br> 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 10mm gap for thermal expansion: <br> $110 \times 110 \times 110 \mathrm{~mm}$ dia Single Jn Tee without door | 1 No. |
| 12 | $\begin{aligned} & \hline \text { PH Code } \\ & 7205 \\ & \text { Analysed } \end{aligned}$ | 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: <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 - $1 \times 16^{\prime}-0 " \times 4^{\prime}-0 "=64 \mathrm{Sft}$. <br> In side $2 \times\left(16^{\prime}-00^{\prime \prime}+4^{\prime}-0^{\prime \prime}\right) \times 5^{\prime}-9{ }^{\prime \prime}=230 \mathrm{Stt}$. <br> $2 \times\left(16^{\prime}-5^{\prime \prime}+4^{\prime}-5^{\prime \prime}\right) \times 2^{\prime}-2^{\prime} / 2^{\prime \prime}=92 \mathrm{Sft}$. <br> In side- $2 \times 2 \times 2^{\prime \prime}-8^{1 / 2 "} \times 3^{\prime}-0^{\prime \prime}$ <br> In side - $2 \times 2 \times 2$ - -6 " $\times 3^{\prime}-0^{\prime \prime}$ <br> Or. $\quad 42.94 \mathrm{M}^{2}$ | $42.94 \mathrm{M}^{2}$ |
| 14. | 13.11 .4 | 12 mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand) <br> Tank Out side - $\quad 2 \times 18^{\prime-1 "}=36^{\prime}-2^{\prime \prime}$ <br> Side Projections- $2 \times 2 \times 0^{\prime}-11 \frac{112^{\prime \prime}}{=}=3^{\prime} 10^{\prime \prime}$ $\text { 40'-0"x 2'-3" = } 90 \mathrm{Sft} .$ <br> Top ofTank - $2 \times 18^{\prime}-1^{\prime \prime}=36^{\prime}-2^{\prime \prime}$ $36^{\prime}-2 " \times 0^{\prime}-55^{\prime \prime}=15 \mathrm{Stt}$ <br> Chamber Out sides - <br> $\left(2 \times 2 \times 3^{\prime}-61 / 2^{\prime \prime}+2 \times 4^{\prime}-22^{\prime \prime}\right) \times 1^{\prime}-9 "=39 \mathrm{Stt}$ Top of <br> Chamber ( $\left.2 \times 2 \times 3^{\prime}-66^{1 / 2}+2 \times 1 \times 3^{\prime}-44^{\prime \prime}\right) \times 0^{\prime}-5^{\prime \prime}=09 \mathrm{sft}$. <br> Massonary Pillar - $4 \times 1^{\prime}-8{ }^{\prime \prime} \times 3^{\prime}-0 "=20 \mathrm{Sft}$. $1 \times 1^{\prime}-8 " \times 1^{\prime}-8 "=\frac{03 \mathrm{Sft}}{176 \mathrm{Stt}} .$ <br> Or $16.36 \mathrm{M}^{2}$ | $16.36 \mathrm{M}^{2}$ |


| 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- $1 \times 16^{\prime}-5^{\prime \prime} \times 4^{\prime}-5 "=72 \mathrm{Stt}$. <br> R.C.C.Cover of <br> Chamber - $\begin{aligned} 2 \times 2^{\prime}-6 " \times 2^{\prime}-88^{1 / 2 "} & =\frac{14 \mathrm{Sft} .}{86 \mathrm{Stt}} \\ \text { Or } & 7.99 \mathrm{M}^{2} . \end{aligned}$ | $7.99 \mathrm{M}^{2}$ |
| :---: | :---: | :---: | :---: |
| 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 | 2 Nos. |
| 17 |  | Extra cost :-  <br> (a) Bricks - 7100 Nos. <br> (b) Cement - 58 Bags. | 7100 Nos <br> 58 Bags. |
| 18 |  | Carriage of materials :-  <br> (a) Bricks - 7100 Nos. <br> (b) Sand - $5.84 \mathrm{M}^{3}$ <br> (C) Stone Chips - $4.44 \mathrm{M}^{3}$ | $\begin{aligned} & 7100 \mathrm{Nos} \\ & 5.84 \mathrm{M}^{3} \\ & 4.44 \mathrm{M}^{3} \\ & \hline \end{aligned}$ |

## CONSUMPTION STATEMENT OF MATERIALS FOR 300 C.F.T. SEPTIC TANK.

| $\begin{gathered} \mathrm{SI} \\ \text { No. } \end{gathered}$ | Item of work | Qty. | Cement in $\mathrm{M}^{3}$ | $\begin{aligned} & \text { Coarse Sand } \\ & \text { in } M^{3} \end{aligned}$ | $\underset{\text { Stone Chips }}{\text { in }^{3}}$ | Bricks in Nos. | Steel in Kg . |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Brick flat soling. | $17.28 \mathrm{M}^{2}$ | - | 0.264 | - | 557 | - |
| 2 | P.C.C. (1:2:4) | $3.74 \mathrm{M}^{3}$ | 0.832 | 1.664 | 3.328 | - | - |
| 3 | Brick work (1:4) | $13.23 \mathrm{M}^{3}$ | 0.662 | 2.646 | - | 6536 | - |
| 4 | R.C.C.(1:2:4) | $1.25 \mathrm{M}^{3}$ | 0.278 | 0.556 | 1.112 | - | 88.00 |
| 5 | 1/2" C.P. (1:3) with punning | $42.94 \mathrm{M}^{2}$ | 0.163 | 0.464 | - | - | - |
| 6 | 1/2" C.P. (1:6) | $16.36 \mathrm{M}^{2}$ | 0.034 | 0.202 | - | - | - |
| 7 | $\begin{array}{\|l} \hline 1 / 4 " \text { C.P. (1:4) in } \\ \text { ceiling } \\ \hline \end{array}$ | $7.99 \mathrm{M}^{3}$ | 0.011 | 0.046 | ${ }^{-}$ | - | - |
| Total - |  |  | $\begin{aligned} & 1.980 \mathrm{M}^{3} \\ = & 58 \mathrm{bags} \end{aligned}$ | $\begin{gathered} 5.842 \text { M }^{3} \\ \text { Say } 5.84 \text { M }^{3} \end{gathered}$ | $4.44 \mathrm{M}^{3}$ | 7093 Nos Say 7100 Nos. | 88 Kg. |

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(TO BE TAKEN 2 NOS FOR 300 CFT CAPACITY SEPTIC TANK)

| 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) $\frac{22}{7 \times 4} \times\left(6^{\prime}-88^{\prime \prime}\right)^{2} \times 3^{\prime}-0^{\prime \prime}=104.74 \mathrm{Cft}$. $\frac{22}{7 \times 4} \times\left(5^{\prime}-0^{\prime \prime}\right)^{2} \times 2^{\prime}-0 "=39.28 \mathrm{Cft} .$ <br> (B) Do- -Do- below 5' - 0" upto 12' - $0^{\prime \prime}$ depth. $\frac{22}{7 \times 4} \times\left(5^{\prime}-0^{\prime \prime}\right)^{2} \times 7^{\prime}-0 "=\frac{137.50 \mathrm{Cft}}{281.52 \mathrm{Cft}} .$ <br> or $7.97 \mathrm{M}^{3}$ | $7.97 \mathrm{M}^{3}$ |
| 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 ( $2^{\prime \prime}$ thick:-) $\frac{22}{7 \times 4} \times\left(6^{\prime}-8^{\prime \prime}\right)^{2} \times 0^{\prime}-3^{\prime \prime}=8.72 \mathrm{Cft} \text { Or } 0.247 \mathrm{M}^{3}$ | $0.247 \mathrm{M}^{3}$ |
| 3 | 5.22.7A | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars(TMTC-500) 8 mm dia. R.C.C. same as item 5.1.3 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) <br> Ground Floor - $\frac{22}{7} \times\left(6^{\prime}-8 "\right) \times 1^{\prime}-0 "=20.95 \mathrm{Sft} \text {. }$ <br> Or $1.948 \mathrm{M}^{2}$ | $1.948 \mathrm{M}^{2}$ |
| 5 | 13.24 .2 | 6 mm cement plaster to ceilling of Mix : 1:4 (1 cement : 4 coarse sand) $\begin{aligned} & \frac{22}{7 \times 4} \times\left(6^{\prime}-8^{\prime \prime}\right)^{2}=34.91 \mathrm{Sft} . \\ & \frac{22}{7} \times\left(6^{\prime}-8^{\prime \prime}\right) \times 0^{\prime}-3^{\prime \prime}=\frac{5.23 \mathrm{Sft}}{40.14 \mathrm{Stt}} \end{aligned}$ | $3.73 \mathrm{M}^{2}$ |
| 6 |  | Extra cost :-  <br> (a) Bricks - 800 Nos. <br> (b) Cement - 4 Bags. | $\begin{aligned} & 800 \text { Nos } \\ & 4 \text { Bags. } \end{aligned}$ |


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

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

| $\begin{array}{\|c\|} \hline \text { SI } \\ \text { No. } \end{array}$ | Item of work | Qty. | Cement in $\mathrm{M}^{3}$ | Coarse Sand $\text { in } \mathrm{M}^{3}$ | $\begin{aligned} & \text { Stone Chips } \\ & \text { in }{ }^{3} \end{aligned}$ | 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 | $\begin{aligned} & \hline 0.017 \\ & \text { M./T. } \end{aligned}$ | - | - | - | - | 17 |
| 4 | Brick bats | $5.84 \mathrm{M}^{3}$ | - | - | - | 1753 | - |
| 5 | 1/2" 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 - |  |  | $0.122 \mathrm{M}^{3}$ <br> or 4 bags | $0.503 \mathrm{M}^{3}$ <br> Say $0.50 \mathbf{M}^{3}$ | $0.22 \mathrm{M}^{3}$ | $\begin{aligned} & \text { 2553 Nos. } \\ & \text { Say } 2550 \\ & \text { Nos. } \end{aligned}$ | 17 Kg . |

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