

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline S.No \& Items \& No \& L \& B \& D/H \& Qty \& Unit \& Rate \& Amount \\
\hline 1 \& \begin{tabular}{l}
Earth work in excavation for pipe trench in ordinary soil areas including dressing, watering, ramming and disposal of excavated earth lead up to 50 m and lift up to 1.5 m , disposal earth to be levelled, neatly dressed. \\
(CG PHE SOR 2020, I.N.18.15/P-225)
\end{tabular} \& 1 \& 221 \& 1.2 \& 1

1 \& 265 \& Cum \& 161 \& 42698 \\

\hline 2 \& | Earth work in excavation for pipe trench in all kinds of rocks in areas including dressing, stacking of useful material and disposal of unservicveable material up to lead up to 50 m and lift up to 1.5 m . |
| :--- |
| Hard rock requiring chiselling / where blasting is prohibited (CG PHE SOR_2020 18.19.3/225) | \& 1 \& 221 \& 1.2 \& 0.6 \& 159 \& Cum \& 532 \& 84652 \\


\hline 3 \& | Dismantling dead pipe line including excavation with refilling to original ground level with material brought from outside. Breaking the joints with pulling by Hydra and lifting pipes from trench and stacking the pipes as directed by Engineer |
| :--- |
| As Per Rate Analysis Attached | \& 1 \& 221 \& \& \& 221 \& Rmt \& 1241 \& 274261 \\


\hline 4 \& | Providing, laying and jointing including testing following socket \& spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) onforming to IS 8329 /2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/2018 |
| :--- |
| (CG PHE SOR_2020 4.3/54) |
| 600 mm dia, D.I K-9 |
| Pipe recived after 20\% brekages | \& 1 \& 176.8 \& \& \& \& \& \& \\

\hline
\end{tabular}

|  | Existing <br> Providing <br> Say | 1 | 221 <br> 44 <br> 45 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | Providing Rubber ISI marked <br> Gasket (push on) joint as per <br> IS:5382/2018 to following DI <br> pipes class K-7 and K-9 <br> including testing of joints and <br> cost of jointing materials <br> (Rubber Gasket and soap <br> solution etc.) <br> (CG PHE sor_2020 4.5/55) |  |  |  |  |  |  |  |


|  | For 45 bends |  | (1.7+0 |  | x1.2 | 1.32 | Area |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total bends <br> Average sizes as per design Average Volume for bends 2 Bends*1.32 = <br> M-20 for thrust blocks | $2$ $1$ | $2$ <br> Area | $\begin{gathered} 1.320 \\ 2.64 \\ 2.64 \end{gathered}$ | 1 | $2.64$ | Cum | 4831 | 12754 |
| 9 | Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 m lead as per direction of engineer-in charge. (CG PHE SOR_2020 18.30/228) <br> RCC Chambers for 600 mm dia pipe Assume Size- $1.6 \times 1.8 \times 1.75$ <br> RCC Footing Long Wall Sort Wall | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ | $\begin{gathered} 2.2 \\ 2 \\ 2 \end{gathered}$ | $\begin{aligned} & 1.8 \\ & 0.2 \\ & 0.2 \end{aligned}$ | $\begin{gathered} 0.1 \\ 1.75 \\ 1.75 \end{gathered}$ | $\begin{gathered} 1.19 \\ 2.1 \\ 2.1 \\ 5.39 \end{gathered}$ | Cum | 1105 | 5954 |
| 10 | Providing \& Construction mechanically mixed R.C.C. Valve Chamber as per direction of engineer-in-charge <br> As per Rate Analysis Attachted | 3 |  |  |  | 3 | Each | 109371 | 328113 |
| 11 | Providing \& fixing of following Ductile iron double flanged sluice valves as per I.S.:148462000 fitted with cap including jointing \& testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. <br> 500 mm dia <br> (CG PHE SOR_2020 4.41/73) | 2 |  |  |  | 2 | Each | 205360 | 410720 |
| 12 | Providing \& Constructing RCC Pedestal <br> Earth work in excavation for pipe trench in ordinary soil areas including dressing, watering, ramming and disposal of excavated earth lead up to 50 m and lift up to 1.5 m , disposal earth to be levelled, neatly dressed. <br> (CG PHE SOR 2020, I.N.18.15/P-225) | 1 | 1 | 1.5 | 1.35 | 2.03 | Cum | 161 | 327 |


| 13 | Providing \& laying mechanically mixed R.C.C. excluding centering \& shuttering and reinforcement in foundation/ plinth ( 20 mm graded metal) (CG PHE SOR_2020 18.42.1/230) RCC M-20 Deduction of Pipe |  | $\begin{gathered} 1.5 \\ 0.785 \end{gathered}$ |  | $\begin{gathered} 3.1 \\ 0.65 \wedge 2 \end{gathered}$ | $\begin{array}{\|r} 4.65 \\ -0.33 \\ 4.32 \\ \hline \end{array}$ | $\begin{aligned} & \text { Cum } \\ & \text { Cum } \end{aligned}$ Cum | 4831 | 20862 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | Reinforcement 100 kg/cum of concrete (CG PHE SOR_2020 18.45/230) | 1 | 100 |  | 431.8 | 431.8 | kg | 56 | 24183 |
|  |  |  |  |  |  |  |  | Totals | 1721129 |
|  |  |  |  |  |  |  | Add | 2\% GST | 206535 |
|  |  |  |  |  |  |  |  | G.Total | 1927664 |
|  |  |  |  |  |  |  | Say | In (Lacs) | 19.28 |




