Hattian

| Sr. No. | Description | Unit | Rate (Rs.) |  | Ref. Tech. Cnnne |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Labour | Composite |  |
| 25-1 | Providing and laying cement concrete pipes moulded with cement concrete 1:1.5:3 with spigot socket or collar joint as specified in trenches to correct alignment and grade, jointing with jointing materials including cutting pipes where necessary, finishing and testing. <br> Plain cement concrete pipe conforming-to ASTM C-14 class-II or equivalent. |  |  |  | 25.3.3 |
|  | 4" (100 mm) inner dia. | R.M. R.ft. | $98.80$ | $207.70$ |  |
|  | 6" $(150 \mathrm{~mm})$ inner dia. | R.M. | 102.80 | 233.45 |  |
|  |  | R.ft. | 31.35 | 71.15 |  |
|  | 9" (225 mm) inner dia. | R.M. | 143.90 | 412.45 |  |
|  |  | R.ft. | 43.85 | 125.70 |  |
| b) | R.C.C pipe with bell \& spigot or tongued \& grooved joint conforming to ASTM C-76 class II wall B or BS 3911 Part I class M including cost of reinforcement. |  |  |  | 25.3.3 |
|  | 9" (225 mm) inner dia. | R.M. | 125.13 | 977.95 |  |
|  |  | R.ft. | 38.15 | 298.10 |  |
| ii) | 12 " (300 mm) inner dia. | R.M. | 308.35 | 1,301.75 |  |
|  |  | R.ft. | 94.00 | 396.80 |  |
| iii) | 15" (375 mm) inner dia. | R.M. | 308.35 | 1,568.50 |  |
|  |  | R.ft. | 94.00 | 478.10 |  |
| iv) | 18" (450 mm) inner dia. | R.M. | 359.75 | 1,886.60 |  |
|  |  | R.ft. | 109.65 | 575.05 |  |
| v) | 21" (525 mm) inner dia. | R.M. | 462.55 | 2,370.60 |  |
|  |  | R.ft. | 141.00 | 722.55 |  |
| vi) | 24" (600 mm) inner dia. | R.M. | 513.95 | 2,879.15 |  |
|  |  | R.ft. | 156.65 | 877.60 |  |
| vii | 27" (675 mm) inner dia. | R.M. | 719.50 | 3,656.30 |  |
|  |  | R.ft. | 219.30 | 1,114.45 |  |
| viii | 30 " (750 mm) inner dia. | R.M. | 822.30 | 4,171.55 |  |
|  |  | R.ft. | 250.65 | 1,271.50 |  |
| ix) | 33 " (825 mm) inner dia. | R.M. | 942.45 | 5,060.55 |  |
|  |  | R.ft. | 287.25 | 1,542.45 |  |
| x) | 36 " (900 mm) inner dia. | R.M. | 1,233.40 | 6,723.30 |  |
|  |  | R.ft. | 375.95 | 2,049.30 |  |
| xi) | 42" (1050 mm) inner dia. | R.M. | 1,644.55 | 9,039.75 |  |
|  |  | R.ft. | 501.25 | 2,755.35 |  |
| xii | 48" (1200 mm) inner dia. | R.M. | 2,664.50 | 11,381.25 |  |
|  |  | R.ft. | 812.15 | 3,469.05 |  |
| xiii | 54" (1350 mm) inner dia. | R.M. | 3,700.25 | 17,421.05 |  |
|  |  | R.ft. | 1,127.85 | 5,310.00 |  |

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|  |  |  | Labour | Composite |  |
| 25-8 a) | Providing manhole type 'E' size 4 '-6"x4' at bottom and 3 'x2' at top (inside dimensions at both level) $\times 14.5 \mathrm{ft}$ deep as per approved design and specifications complete for 18 " to 24 " dia. pipe deeper than 12 upto 20 ft depth with 20 dia (inside) C.I. cover and frame (Wt. $=101.6 \mathrm{~kg}$ ) fixed in 6 " thick RCC 1:2:4 slab and 9 " thick RCC slab and lintel for supporting 9 " thick brick masonry upto 7 '-6" depth from top and 18 " thick masonry 7 including lintel (height from bottom) set in 1:3 cement sand mortar, 9 "thick 1:3:6 cement concrete in foundation, 1:2:4 cement concrete in benehing and 1/2" $(13 \mathrm{~mm})$ thick cement plaster in 1.3 cement sand mortar, to all inner wall surfaces, channels and benching ancluding providing and fixing C.I. foot rest at every 12 " of depth and-making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff. The-rinforcement for RCC shall be used at 5 lbs. per Cu.ft of concrete. | Each | \#\#\#\#\#\#\# | 171,174.80 | 25.4 |
| b) | Extra for 18 " thick masonry required for extra depth beyond $14^{\prime}-6^{\prime \prime}$ upto $20 \mathrm{ft}(4.42 \mathrm{~m}$ to 6.1 m ) for ' $E$ ' type manholes including cost of extra foot rest at every 12 " $(300 \mathrm{~mm})$ of depth | Cm . Inch | $\begin{gathered} 61.30 \\ 155.70 \end{gathered}$ | $\begin{gathered} 574.95 \\ 1,460.35 \end{gathered}$ |  |
| c) | Deduct for lesser depth than 14 '-6" ( 4.42 m ) for ' $E$ ' type manholes effecting 9 " thick masonry, plastering and C.I. foot rest. | Cm. <br> Inch | $\begin{aligned} & 19.40 \\ & 49.30 \end{aligned}$ | $\begin{aligned} & 155.85 \\ & 395.85 \end{aligned}$ |  |
| d) | Extra for using C.I. cover and frame 20" ( 500 mm ) dia. inside and weighing 177.8 kg for main roads. | Each | - | 7,164.00 |  |
| 25-9 | Mixing and finishing 1:2:4 concrete benching for floor work in manhole chamber with $1 / 8^{\prime \prime}(3 \mathrm{~mm})$ thick cement finish. | Sq.m.. Sq.ft. | $\begin{gathered} 265.00 \\ 24.65 \end{gathered}$ | $\begin{gathered} 332.10 \\ 30.85 \end{gathered}$ | 5 |
| 25-10 | Restoration of brick pavement laid dry on edge and joint filled with sand laid over service line with $2^{\prime \prime}(50 \mathrm{~mm})$ sand cushion | Sq.m.. Sq.ft. | $\begin{gathered} 115.40 \\ 10.70 \end{gathered}$ | $\begin{gathered} 645.35 \\ 60.00 \end{gathered}$ | 4,11 |
| 25-11 | Restoration of flat brick pavement laid dry and joint filled with sand laid on service line with $2^{\prime \prime}(50 \mathrm{~mm})$ sand cushion underneath. | $\begin{aligned} & \text { Sq.m... } \\ & \text { Sq.ft. } \end{aligned}$ | $\begin{gathered} 93.35 \\ 8.70 \end{gathered}$ | $\begin{gathered} 602.00 \\ 55.95 \end{gathered}$ | 4,11 |
| 25-12 | Providing and fixing step iron or foot rest in manhole chambers including setting to correct lines and levels. |  |  |  | 25.4.2 |
| a) | Angle iron 1.25 " $\times 1.25^{\prime \prime} \times 3 / 16^{\prime \prime}(32 \mathrm{~mm} \times 32 \mathrm{~mm} \times 5 \mathrm{~mm}$ ) | Each | 79.90 | 386.75 |  |
| b) | C.I. foot rest | Each | 79.90 | 195.55 |  |
| 25-13 | Fixing manhole frame and cover in R.C.C. slab including carriage and cost of fixing material. | Each | 141.56 | 421.07 | 25.4.2 |
| 25-14 | Providing and fixing $22^{\prime \prime}$ dia. manhole cover in $3^{\prime \prime}(75 \mathrm{~mm})$ thick RCC 1:2:4, with steel at 5 lbs per cu.ft of concrete with tee shaped C.I. frame of $20^{\prime \prime}$ clear inner dia. frame weighing 37.5 kg . including cost of fixing material. | Each | 552.05 | 3,135.33 | 25.4.2 |
| 25-15 | Providing and fixing 22 " dia. manhole cover in 6 " ( 150 mm ) thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel with tee shaped C.I. frame of 20 " $(500 \mathrm{~mm}$ ) clear inner dia. frame weighing 37.50 kg . including cost of fixing material. | Each | 828.10 | 4,367.58 | 25.4.2 |
| 25-16 | Providing and fixing 22 " ( 550 mm ) dia. manhole cover in $6 "$ ( 150 mm ) thick RCC 1:2:4 slab with 5 lbs per Cu.ft steel with $3^{\prime \prime} \times 3^{\prime \prime}$ $\times 3 / 8$ " angle iron frame of 20 ( 500 mm ) clear inner dia. weighing 15.5 kg . including cost of fixing material. | Each | 980.60 | 3,680.05 | 25.4.2 |

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