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| <b>SUMMARY OF PRICES FOR PLUMBING WORKS FOR Phase-1, (Block-G&amp;H)Type-B</b> |
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| BILL OF QUANTITIES                |            |  |      |      |          |               |         |
|-----------------------------------|------------|--|------|------|----------|---------------|---------|
| S.NO.                             | (DSR-2014) | DESCRIPTION  | UNIT | QTY. | RATE     | AMOUNT ( RS ) |         |
|                                   |            |  |      |      |          | DSR           | NON DSR |
| SUBHEAD-I: SANITARY INSTALLATIONS |            |  |      |      |          |               |         |
| 1.1                               | 17.78      | Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete. | Each | 340  | 9,661.73 |               |         |
|                                   |            |  |      |      |          |               |         |
| 1.2                               | 17.7       | Providing and fixing wash basin with CI brackets, 15mm CP brass pillar taps, 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls where ever require.   |      |      |          |               |         |
|                                   | 17.7.2     | White Vitreous China Wash basin size 630x450mm with a single 15mm CP brass pillar tap.   | Each | 340  | 1,922.94 |               |         |
|                                   |            |  |      |      |          |               |         |
| 1.3                               | 17.10      | Providing and fixing Salem Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with CI brackets and stainless steel waste with plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required.  |      |      |          |               |         |
| 1.3.2                             | 17.10.2    | Kitchen sink without drain board   |      |      |          |               |         |
|                                   | 17.10.2.1  | 610x510 mm bowl depth 200 mm   | Each | 170  | 4,154.60 |               |         |
|                                   |            |  |      |      |          |               |         |
| 1.4                               | 17.28      | Providing & fixing PVC waste pipe for sink oncluding PVC waste fitting Complete  |      |      |          |               |         |
|                                   | 17.28.2    | Flexible Pipe  |      |      |          |               |         |
|                                   | 17.28.2.1  | 32mm Dia   | Each | 170  | 71.21    |               |         |

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|-------|------------|---|------|------|--------|---------------|---------|
|       |            |   |      |      |        | DSR           | NON DSR |
| 1.5   | 17.70      | Providing and fixing PTMT Bottle Trap for Wash basin and sink.  |      |      |        |               |         |
|       | 17.70.1    | Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.       | Each | 340  | 473.38 |               |         |
| 1.6   | 17.72      | Providing & fixing PTMT towel ring trapezoidal shape 215 mm long 200 mm wide with minimum distance of 37 mm from wall face with concealed fittings arrangement of approved quality and colour weighing not less than 88 gms | Each | 340  | 209.00 |               |         |
| 1.7   | 18.49      | Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931   |      |      |        |               |         |
|       | 18.49.1    | 15 mm nominal bore  | Each | 340  | 439.52 |               |         |
| 1.8   | 18.51      | Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.   |      |      |        |               |         |
|       | 18.51.1    | 15 mm nominal bore  | Each | 340  | 584.10 |               |         |

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|-------|------------|---|------|------|-----------|---------------|---------|
|       |            |   |      |      |           | DSR           | NON DSR |
| 1.9   | 18.53      | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 a) 15 mm nominal bore.  |      |      |           |               |         |
|       | 18.53.1    | 15 mm nominal bore  | Each | 2200 | 485.63    |               |         |
| 1.10  | 18.21      | Providing and fixing uplasticised PVC connection pipe with brass unions :   |      |      |           |               |         |
|       | 18.21.2    | 45 cm length  |      |      |           |               |         |
|       | 18.21.2.1  | 15 mm nominal bore  | Each | 340  | 65.62     |               |         |
| 1.11  | 17.80      | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.  | Each | RO   | 15,997.78 |               |         |
| 1.12  | 8.10       | Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. |      |      |           |               |         |
|       | 8.10.1     | White Agaria Marble Stone   | sqm  | RO   | 3,121.61  |               |         |
| 1.13  | 18.64      | Providing & fixing PTMT swivelling shower, 15mm nominal bore. weighing not less than 40 gms.  | Each | 340  | 135.59    |               |         |

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|-------|------------|--|------|------|---------|---------------|---------|
|       |            |  |      |      |         | DSR           | NON DSR |
| 1.14  | 18.22      | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :   |      |      |         |               |         |
|       | 18.22.1    | 100 mm diameter  | each | 340  | 68.92   |               |         |
| 1.15  | 18.63      | Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms  | Each | 340  | 182.60  |               |         |
| 1.16  | M.R.       | Supplying, storing, handling, shifting, installation, testing and commissioning of CP fixble hose, spray, wall flange etc. complete. <b>ROCA make (Model -RF9060A1) or Equivalent.</b> | Each | 340  | 1563.50 |               |         |

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|-------|------------|--|------|------|---------|---------------|---------|
|       |            |  |      |      |         | DSR           | NON DSR |
| 1.17  | MR         | Providing and fixing straight type Macfit single body push fit type WC pan connector with factory supplied spring loaded seal guard of McAlpine, UK with integral single mould sealing fins made of flexible EVA body, including bush/adaptor for use with C.I. Pipe as supplied with the pan connector. | Each | 340  | 176.00  |               |         |
| 1.18  | MR         | Providing and fixing CP brass single lever low flow Sink mixer with 15 mm CP brass single lever pillar cock with pop up and waste complete including cutting and making good the walls where required. <b>ROCA make (Model - RT5A3060C00) or Equivalent.</b>   | Each | 170  | 2810.90 |               |         |
|       |            | <b>TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES</b>   |      |      |         |               |         |
|       |            |  |      |      |         |               |         |
|       |            | <b>SUBHEAD-II: DRAINAGE INSTALLATIONS</b>  |      |      |         |               |         |
| 2.1   | 10.16.1    | Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete                              | Kg.  | 350  | 98.43   |               |         |
| 2.2   | 13.62.1    | Painting steel work with synthetic enamel paint of approved brand and manufacture to give an even shade, two or more coats.  | sqm  | 400  | 101.63  |               |         |
| 2.3   | 17.35      | Providing and fixing soil, waste & vent pipes  |      |      |         |               |         |
|       | 17.35.1    | 100 mm dia   |      |      |         |               |         |
|       | 17.35.1.2  | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989  | Rm   | 3480 | 877.84  |               |         |
|       | 17.35.2    | 75mm diameter :  |      |      |         |               |         |
|       | 17.35.2.2  | Centrifugally cast (spun) iron socketed pipe as per IS: 3989   | Rm   | 300  | 756.90  |               |         |
| 2.4   | 17.37      | Providing and fixing MS holder bat clamps of approved design to cast iron (spun) pipe embedded in and Including cement concrete blocks 10 x10 x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.  |      |      |         |               |         |
|       | 17.37.1    | For 100mm dia. Pipe  | Each | 300  | 146.25  |               |         |
|       | 17.37.2    | For 75mm dia. Pipe   | Each | 80   | 144.05  |               |         |

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|-------|------------|--|------|------|--------|---------------|---------|
|       |            |  |      |      |        | DSR           | NON DSR |
| 2.5   | 17.39      | Providing and fixing bend of required degree .   |      |      |        |               |         |
|       | 17.39.1    | 100mm  |      |      |        |               |         |
|       | 17.39.1.1  | Sand cast iron S&S as per IS - 1729  | Each | 350  | 415.61 |               |         |
| 2.6   | 17.43      | Providing and fixing single equal plain junction of reqd. degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.   |      |      |        |               |         |
|       | 17.43.1    | 100x100x100mm  |      |      |        |               |         |
|       | 17.43.1.2  | Standerd cast (spun) iron pipe IS-3989   | Each | 350  | 596.67 |               |         |
| 2.7   | 17.55.1.2  | Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete, in 100mm Centrifugally cast (spun) iron pipe S&S as per IS-3989   | Each | 150  | 491.13 |               |         |
| 2.8   | 17.56      | Providing and fixing terminal guard 100mm standard cast (spun) iron S&S  |      |      |        |               |         |
| 2.8.1 | 17.56.1    | 100 mm   |      |      |        |               |         |
|       | 17.56.1.2  | Sand cast iron S&S as per IS - 3989  | Each | 32   | 415.61 |               |         |
| 2.8.2 | 17.56.2    | 75 mm  |      |      |        |               |         |
|       | 17.56.2.2  | Sand cast iron S&S as per IS - 3989  | each | 15   | 354.63 |               |         |
| 2.9   | 17.58      | Providing lead caulked joints to centrifugally cast (spun iron pipes and fittings of diametre.   |      |      |        |               |         |
|       | 17.58.1    | 100mm  | Each | 375  | 233.15 |               |         |
|       | 17.58.2    | 75 mm  | Each | 65   | 196.37 |               |         |
| 2.10  | 17.60      | Providing and fixing cast iron trap of self cleansing design with cast iron screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.                |      |      |        |               |         |
|       | 17.60.1.1  | 100 mm inlet and 100 mm outlet Sand cast iron S&S as per IS: 3989  | Each | 150  | 939.83 |               |         |
| 2.11  | 17.65      | Painting sand cast iron / centrifugally cast iron( spun) iron soil, waste and vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc. over a coat of primer (of approval quality) for new work |      |      |        |               |         |
|       | 17.65.1    | 100mm dia cast (spun) iron S&S pipe  | Rm   | 1000 | 36.97  |               |         |
|       | 17.65.2    | 75 mm diameter pipe  | Rm   | 300  | 28.22  |               |         |

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|-------|------------|--|---------|------|-----------|---------------|---------|
|       |            |  |         |      |           | DSR           | NON DSR |
| 2.12  | 18.10      | Providing and fixing G.I. Pipes complete with G.I. Fittings and clamps. including cutting and making good the walls etc. required for waste connection from W.B. , A.S.P., Sump Rising main etc. Complete.                                 |         |      |           |               |         |
|       | 18.10.4    | 32 mm nominal bore   | Rm      | 550  | 328.28    |               |         |
|       | 18.10.5    | 40 mm nominal bore   | Rm      | 450  | 407.14    |               |         |
|       | 18.10.6    | 50 mm nominal bore   | Rm      | 300  | 504.28    |               |         |
| 2.13  | 18.29      | Supply pig lead at site of work.   | quintel | 25   | 10,009.52 |               |         |
| 2.14  | 18.40      | Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality:  |         |      |           |               |         |
|       | 18.40.4    | 32 mm nominal bore   | Rm      | 550  | 9.95      |               |         |
|       | 18.40.5    | 40 mm nominal bore   | Rm      | 400  | 11.33     |               |         |
|       | 18.40.6    | 50 mm nominal bore   | Rm      | 300  | 13.53     |               |         |
| 2.15  | 18.58.1.2  | Providing and fixing PTMT grating of approved quality, colour and make 125 mm nominal dia with 25 mm waste hole  | Each    | 17   | 54.86     |               |         |
| 2.16  | 18.66      | Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps. Etc., suitable for flanged jointing as per IS: 1538  |         |      |           |               |         |
|       | 18.66.1    | Upto 300mm dia.  | quintal | 43   | 6,309.74  |               |         |
| 2.17  | 19.2.1     | Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) around 100mm dia. SW / CI / waste pipes including bed concrete as per standard design                                  | Rm      | 500  | 566.83    |               |         |
| 2.18  | 12.41      | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. |         |      |           |               |         |
|       | 12.41.2    | 110 mm diameter  | metre   | 2500 | 221.58    |               |         |



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|-------|------------|---|------|------|--------|---------------|---------|
|       |            |   |      |      |        | DSR           | NON DSR |
| 2.19  |            | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.  |      |      |        |               |         |
|       | 12.42.5    | Bend 87.5°  |      |      |        |               |         |
|       | 12.42.5.2  | 110 mm bend   | Each | 250  | 154.53 |               |         |
|       | 12.42.6    | Shoe (Plain)  |      |      |        |               |         |
|       | 12.42.6.2  | 110 mm Shoe   | Each | 200  | 282.27 |               |         |
| 2.20  | 12.43      | Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.                                     |      |      |        |               |         |
|       | 12.43.2    | 110 mm  | Each | 500  | 180.83 |               |         |
| 2.21  | 12.22      | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete. | Each | 20   | 178.53 |               |         |
| 2.23  | M.R.       | Providing and fixing G.I. Inlet fitting of suitable size with 2 & 3 Nos. G.I. Socket 32 & 40 welded G.I. pipe and dipped in hot bitumen complete in all respect.  |      |      |        |               |         |
|       | M.R.       | 100 mm diameter pipe (Hopper)   | Each | 250  | 988.00 |               |         |

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|-------|------------|---|------|------|----------|---------------|---------|
|       |            |   |      |      |          | DSR           | NON DSR |
| 2.24  | M.R        | Providing and fixing floor drain made of 100 x 50 dia elbow / tee as applicable connected with 50 dia GI pipe painted with primer, two coats of black bituminastic paint, wrapping 1 mm thick PVC tape and final coat of black bituminastic paint B109 complete in all complete including cutting and making good the walls and floor wherever required | Each | 225  | 993.00   |               |         |
| 2.25  | M.R.       | Providing and fixing flanged cleanout plug with M.S. flanged tail pieces, blind flang, 6mm dia nut & bolts, gasket and washers fixed to C.I. Pipe with drip seal joint complete in all complete including cutting and making good the walls and floor wherever required   |      |      |          |               |         |
|       | M.R.       | with 100 mm dia. Pipe   | Each | 250  | 1,104.70 |               |         |
| 2.26  | M.R.       | Providing & fixing of epoxy coated 25 mm thick C.I. Grating with frame for channel drains including all accessories complete  |      |      |          |               |         |
|       | M.R.       | 350 wide  | Rm   | 25   | 246.00   |               |         |
|       |            | <b>TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES</b>  |      |      |          |               |         |
|       |            | <b>SUBHEAD-III: WATER SUPPLY INSTALLATIONS</b>  |      |      |          |               |         |
| 3.1   | 10.2       | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.   | kg   | 125  | 70.73    |               |         |
| 3.2   | 18.10      | Providing and fixing G.I. pipes complete with GI fittings and clamps including cutting and making good the walls etc. (Exposed on wall)   |      |      |          |               |         |
| 3.2.1 | 18.10.1    | 15 mm dia, nominal bore   | Rm   | 2800 | 205.75   |               |         |
| 3.2.2 | 18.10.2    | 20 mm dia, nominal bore   | Rm   | 2300 | 238.46   |               |         |
| 3.2.3 | 18.10.3    | 25 mm dia, nominal bore   | Rm   | 1800 | 290.93   |               |         |
| 3.2.4 | 18.10.4    | 32 mm dia, nominal bore   | Rm   | 1200 | 328.28   |               |         |
| 3.2.5 | 18.10.5    | 40 mm dia, nominal bore   | Rm   | 800  | 407.14   |               |         |
| 3.2.6 | 18.10.6    | 50 mm dia, nominal bore   | Rm   | 550  | 504.28   |               |         |

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|       |            |   |      |      |          | DSR           | NON DSR |
| 3.3   | 18.13.2    | Making connection of GI distribution branch with GI main of 50-80mm nominal bore by providing and fixing tee, including cutting and threading the pipe etc. complete.   | Item | 20   | 728.01   |               |         |
| 3.4   | 18.18.3    | Providing & Fixing of Garden hydrant outlet consisting 1 No. 25mm dia. Ball valve,( Brass) for connecting rubber hose, pipes & fittings.  | Each | 250  | 430.39   |               |         |
| 3.5   | 18.17      | Providing and fixing of gun metal gate valve with CI wheel of approved quality (screwed ends)   |      |      |          |               |         |
| 3.5.1 | 18.17.2    | 32 mm dia, nominal bore   | Each | 150  | 479.70   |               |         |
| 3.5.2 | 18.17.3    | 40 mm dia, nominal bore   | Each | 50   | 560.04   |               |         |
| 3.6   | 18.37      | Constructing masonry Chamber 60x45x50 cm,inside with 75 class designation brick work in cement mortar 1:5 (1 cement:5 fine sand) for water meter complete with C.I. Doble flap surface box 400x200x200mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concret 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design |      |      |          |               |         |
|       | 18.37.1    | With F.P.S. bricks  | Each | 200  | 5,777.34 |               |         |
| 3.7   | 18.40      | Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality  |      |      |          |               |         |
| 3.7.1 | 18.40.1    | 15 mm dia, nominal bore   | Rm   | 1500 | 5.55     |               |         |
| 3.7.2 | 18.40.2    | 20 mm dia, nominal bore   | Rm   | 2500 | 6.55     |               |         |
| 3.7.3 | 18.40.3    | 25 mm dia, nominal bore   | Rm   | 1500 | 8.37     |               |         |
| 3.7.4 | 18.40.4    | 32 mm dia, nominal bore   | Rm   | 500  | 9.95     |               |         |
| 3.7.5 | 18.40.5    | 40 mm dia, nominal bore   | Rm   | 450  | 11.33    |               |         |
| 3.8   | 18.41      | Providing and filling sand of garding zone V or coraser grade all round the pipes in external work  |      |      |          |               |         |
| 3.8.1 | 18.41.2    | 20 mm NB  | Rm   | 100  | 64.37    |               |         |
| 3.8.2 | 18.41.3    | 25 mm NB  | Rm   | 125  | 66.05    |               |         |

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|        |            |  |      |      |          | DSR           | NON DSR |
| 3.9    | 18.46      | Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete.                    |      |      |          |               |         |
| 3.9.1  | 18.46.1    | 15mm nominal bore  | Each | 100  | 158.07   |               |         |
| 3.9.2  | 18.46.2    | 20mm nominal bore  | Each | 80   | 180.30   |               |         |
| 3.9.3  | 18.46.3    | 25mm nominal bore  | Each | 85   | 191.40   |               |         |
| 3.9.4  | 18.46.4    | 32mm nominal bore  | Each | 100  | 230.28   |               |         |
| 3.10   | 18.49      | Providing and fixing C.P. brass bib cock of approved quality confirming to IS:8931   |      |      |          |               |         |
|        | 18.49.1    | 15mm nominal bore  | Each | 32   | 439.52   |               |         |
| 3.11   | 18.52      | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.                           |      |      |          |               |         |
|        | 18.52.1    | 15 mm dia nominal bore   | Each | 15   | 592.80   |               |         |
| 3.12   | 18.62      | Provide and fixing PTMT ball cock of approved quality, colour and make complete with epoxy coated aluminium rod with L.P/H.P.H.D. plastic ball |      |      |          |               |         |
|        | 18.62.5    | 50 mm dia NB, 242mm long. Weighing not less than 1240 gms.   | Set  | 12   | 1,341.43 |               |         |
| 3.13   | 18.18      | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :                              |      |      |          |               |         |
| 3.13.2 | 18.18.2    | 20 mm nominal bore   | each | 4    | 392.08   |               |         |
| 3.13.2 | 18.18.3    | 25 mm nominal bore   | each | 4    | 430.39   |               |         |

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|--------|------------|---|-------|------|----------|---------------|---------|
|        |            |   |       |      |          | DSR           | NON DSR |
| 3.14   | 19.19      | Providing & fixing in position precast RCC manhole cover and frame of reqd. shape and approved quality.   |       |      |          |               |         |
|        | 19.19.4.1  | Circular shape 560 internal dia.  | Nos   | 8    | 1,584.67 |               |         |
| 3.15   | 18.8       | Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes hyaving thermal stability for hot & coldwater supply, including all CPVC plain & brass threaded fitting, including fixing the pipewith clampsat 1 m spacing. This includesjointing of pipes &fittingwith one step CPVC solvent cement and cost ofcutting chases and making good the same including testing ofjoints complete as per direction of Engineer in Charge.( <b>Concealed work including cutting chases and making good the walls etc.</b> ) |       |      |          |               |         |
| 3.15.1 | 18.8.1     | 15mm nominal outer dia. Pipes.  | Metre | 2500 | 258.26   |               |         |
| 3.15.2 | 18.8.2     | 20mm nominal outer dia. Pipes.  | Metre | 1400 | 283.51   |               |         |
| 3.15.3 | 18.8.3     | 25mm nominal outer dia. Pipes.  | Metre | 1200 | 336.03   |               |         |
| 3.15.4 | 18.8.4     | 32mm nominal outer dia. Pipes.  | Metre | 1000 | 404.03   |               |         |
| 3.16   | 18.12      | Providing and fixing GI pipes complete with GI fittings including trenching and refilling etc.(External work)   |       |      |          |               |         |
| 3.16.1 | 18.12.4    | 32 mm dia nominal bore  | Metre | 125  | 268.83   |               |         |
| 3.16.2 | 18.12.6    | 50 mm   | Metre | 75   | 382.13   |               |         |
| 3.16.3 | 18.12.8    | 80mm  | Metre | 65   | 609.35   |               |         |
| 3.17   | 18.13      | Making connection of GI distribution branch with GI main following sizes by providing and fixing tee, including cutting and threading the pipe etc, complete  |       |      |          |               |         |
|        |            | <b>Coupling/Socket</b>  |       |      |          |               |         |
| 3.17.1 | 18.13.2    | 50mm to 80mm nominal bore   | Each  | 5    | 728.01   |               |         |

| S.NO.  | (DSR-2014) | DESCRIPTION  | UNIT | QTY. | RATE     | AMOUNT ( RS ) |         |
|--------|------------|--|------|------|----------|---------------|---------|
|        |            |  |      |      |          | DSR           | NON DSR |
| 3.18   | 18.32.1    | Constructing masonry chamber 30x30x50cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock with C.I. Surface box 100x100x75 mm ( inside) with hinged cover fixed in cement concrete slab 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design with F.P.S. bricks. | Each | 5    | 1,107.41 |               |         |
| 3.19   | M.R.       | Providing and fixing insulation with thermaflex elastomeric nitrile rubber sheets complete with plastering of 20 mm thick insulation with thermaflex elastomeric nitrile rubber sheets for hot water & cold water pipes exposed to sun complete with plastering.   |      |      |          |               |         |
| 3.19.1 | M.R.       | 15 mm dia, nominal   | Rm   | 500  | 176.00   |               |         |
| 3.19.2 | M.R.       | 20 mm dia, nominal   | Rm   | 400  | 192.00   |               |         |
| 3.19.3 | M.R.       | 25 mm dia, nominal   | Rm   | 400  | 218.60   |               |         |
| 3.19.4 | M.R.       | 32 mm dia, nominal   | Rm   | 350  | 235.00   |               |         |
| 3.19.5 | M.R.       | 40 mm dia, nominal   | Rm   | 300  | 254.00   |               |         |
| 3.19.6 | M.R.       | 50 mm dia, nominal   | Rm   | 250  | 270.00   |               |         |
| 3.19.7 | M.R.       | 65 mm dia, nominal   | Rm   | 200  | 295.00   |               |         |
| 3.19.8 | M.R.       | 80 mm dia, nominal   | Rm   | 200  | 315.00   |               |         |
| 3.20   | M.R.       | Providing and fixing brass automatic air vent at the top of each riser.  |      |      |          |               |         |
|        |            | 25mm diameter  | Each | 35   | 846.80   |               |         |

| S.NO. | (DSR-2014) | DESCRIPTION   | UNIT | QTY. | RATE    | AMOUNT ( RS ) |         |
|-------|------------|---|------|------|---------|---------------|---------|
|       |            |   |      |      |         | DSR           | NON DSR |
| 3.21  |            | Providing and fixing pressure regulating station for cold water supply comprising of 3 nos gun metal ball valves on, inlet/outlet and bye-pass and 1 no. PRV unit (diaphragm type) with flanged connection, 2 nos pressure gauge on inlet and outlet, 1no 15 mm dia safety valve. The complete system is tested to a pressure not less than 3.0 kg/cm <sup>2</sup> and suitable to reduce the pressure as desired including flanges/unions, nuts, bolts and washers complete as required for application. (horizontal or vertical as applicable). |      |      |         |               |         |
|       | M.R.       | 25mm dia.   | Each | 15   | 9724.00 |               |         |
|       |            | <b>TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES</b>  |      |      |         |               |         |

| S.NO. | (DSR-2014) | DESCRIPTION  | UNIT | QTY. | RATE      | AMOUNT ( RS ) |         |
|-------|------------|--|------|------|-----------|---------------|---------|
|       |            |  |      |      |           | DSR           | NON DSR |
|       |            |  |      |      |           |               |         |
|       |            | <b>EXTERNAL DRAINAGE INSTALLATION UPTO FIRST SUBHEAD-IV: MANHOLE</b>   |      |      |           |               |         |
| 4.1   | 2.10       | Excavating trenches of required width for pipe, cables etc including excavation for sockets ,& dressing of sides ,ramming of bottoms ,depth upto 1.5m including getting out the excavated soil,& then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming ,watering, etc and disposing of surplus excavated soil as directed, within lead of 50m.   |      |      |           |               |         |
|       |            | All kinds of soil  |      |      |           |               |         |
|       | 2.10.1.2   | Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia   | RM   | 75   | 199.24    |               |         |
| 4.2   | 18.35      | Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : |      |      |           |               |         |
|       | 18.35.1    | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5.  | Each | 20   | 15,395.31 |               |         |
| 4.3   | 19.1       | Providing laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.  |      |      |           |               |         |
| 4.3.1 | 19.1.2     | 150 mm diameter  | Rm   | 32   | 300.68    |               |         |
| 4.3.2 | 19.1.4     | 250 mm diameter  | Rm   | 32   | 666.22    |               |         |
| 4.4   | 19.2       | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around SW pipes including bed concrete as per standard design.   |      |      |           |               |         |
| 4.4.1 | 19.2.2     | 150 mm diameter  | Mtr  | 32   | 724.70    |               |         |
| 4.4.2 | 19.2.4     | 250 mm diameter  | Rm   | 20   | 977.00    |               |         |



| S.NO. | (DSR-2014) | DESCRIPTION   | UNIT | QTY. | RATE      | AMOUNT ( RS ) |         |
|-------|------------|---|------|------|-----------|---------------|---------|
|       |            |   |      |      |           | DSR           | NON DSR |
| 4.5   | 19.4       | Providing and fixing square mouth SW gully trap grade <del>and</del> complete CI grating brick masonry chamber with bricks of class designation 75 and water tight CI cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 13.00 kg and frame to be not less than 5 kg. as per standard design. (COVER MIN. 4.5 KG & FRAME MIN.2.7 KG )   |      |      |           |               |         |
| 4.5.2 | 19.4.3.1   | 180x150mm size P type With FPS bricks   | Each | 10   | 1,605.86  |               |         |
| 4.6   | 19.6       | Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.  |      |      |           |               |         |
| 4.6.1 | 19.6.2     | 150 mm dia RCC pipe   | Rm   | 32   | 333.16    |               |         |
| 4.6.2 | 19.6.3     | 250 mm dia RCC pipe   | Rm   | 35   | 448.23    |               |         |
| 4.7   | 4.1        | Providing and laying in position cement concrete of grade excluding the cost of centering and shuttering - all work up to plinth level  |      |      |           |               |         |
|       | 4.1.10     | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)  | cum  | 20   | 3,829.91  |               |         |
| 4.8   | 19.7       | Construction brick masonry manhole in cement mortar 1:4 (1cement : 4coarse sand) RCC top slab with 1:2:4 mix 9 with 75 class designation bricks in cement mortar 1:4 (1 cement : 4 coarse sand) RCC top slab with 1:2:4 mix (1 cement : 2 coarse sand 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design. |      |      |           |               |         |
| 4.8.1 | 19.7.1.1   | Inside size 90 x 80 cm and 45 cm deep including CI cover with frame (light duty) 455 x 610mm internal dimensions total weight of cover and frame to be not less than 38 Kg. ( weight of cover 23 Kg. and weight of frame 15 Kg.), with FPS bricks with class designation 7.5  | Each | 4    | 8,137.13  |               |         |
| 4.8.2 | 19.7.2.1   | Inside size 120 x 90 cm and 90 cm deep including CI cover with frame (heavy duty) 500mm internal dia. Total weight of cover and frame to be not less than 116 Kg. ( weight of cover to be 58 Kg. and weight of frame 58 Kg.)with FPS bricks class designation 75. (Sewerage Line)   | Each | 5    | 17,508.60 |               |         |
| 4.9   | 19.8       | Extra for depth for manholes  |      |      |           |               |         |

| S.NO. | (DSR-2014) | DESCRIPTION  | UNIT | QTY. | RATE      | AMOUNT ( RS ) |         |
|-------|------------|--|------|------|-----------|---------------|---------|
|       |            |  |      |      |           | DSR           | NON DSR |
| 4.9.1 | 19.8.1.1   | Size 90 x 80 cm with FPS bricks designation 7.5  | M    | 2    | 5,393.06  |               |         |
| 4.9.2 | 19.8.2.1   | Size 120 x 90 cm with FPS bricks designation 7.5   | M    | 2    | 6,460.01  |               |         |
| 4.10  | 19.11      | Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design. |      |      |           |               |         |
|       | 19.11.1    | 1.68m deep with SFRC cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for seperately).  |      |      |           |               |         |
|       | 19.11.1.1  | With F.P.S. bricks class designation 7.5   | Each | 3    | 15,751.90 |               |         |
| 4.11  | 19.12      | Extra for depth for circular manholes 1.22m internal dia (at bottom) with beyond 1.68m to 2.29m.   |      |      |           |               |         |
|       | 19.12.1    | With F.P.S. bricks class designation 7.5   | Each | 3    | 5,998.06  |               |         |

| S.NO. | (DSR-2014) | DESCRIPTION   | UNIT | QTY. | RATE   | AMOUNT ( RS ) |         |
|-------|------------|---|------|------|--------|---------------|---------|
|       |            |   |      |      |        | DSR           | NON DSR |
| 4.12  | 19.16      | Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910 on 12 mm dia steel bar conforming to IS: 1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specification and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15cm cement concrete block 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 20 mm nominal size) complete as per design. | Each | 5    | 298.05 |               |         |

| S.NO. | (DSR-2014) | DESCRIPTION  | UNIT | QTY. | RATE     | AMOUNT ( RS ) |         |
|-------|------------|--|------|------|----------|---------------|---------|
|       |            |  |      |      |          | DSR           | NON DSR |
| 4.13  | 19.27.1    | Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:5 (1 cement : 5 fine sand) including 500 x 450 mm (heavy duty) precast RCC horizontal grating with frame complete as per standard design: with FPS bricks   | Each | 10   | 3,785.43 |               |         |
| 4.14  | 19.21.1    | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement cincrete 1:2:4 mix (1cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete for pipes 100 to 250mm dia. | Item | 1    | 348.75   |               |         |
|       |            | <b>TOTAL FOR SUB HEAD - I CARRIED TO SUMMARY OF PRICES</b>   |      |      |          |               |         |