

**CHHATTISGARH MEDICAL SERVICES CORPORATION
LIMITED,**

(Government of Chhattisgarh)

Tender

For

**Construction of 50 bedded MCH wing at Pthalgaon (C.G.),
under National Rural Health Mission scheme**

Bill Of Quantities

VOLUME-V

APRIL' 2013



**HSCC (INDIA) LTD.
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)
E-6(A), sector-1, NOIDA(U.P) 201301 (India)**

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Tender No. HSCC/NRHM/CG./2013/13

GENERAL ABSTRACT

Name of Work: Construction of 50 bedded MCH Hospital Chhattisgarh at PATHALGAON (C.G).

| S.No. | DESCRIPTION | Amount (in Rs) | Quoted % (Percent) below or above in figure | Quoted % (Percent) below or above in words | TOTAL AMOUNT (in Rs.) |
|-------|----------------------|----------------------|---|--|-----------------------|
| 1 | DSR -ITEMS | | | | |
| 1.1 | CIVIL WORK | 45,049,244.65 | | | |
| 1.2 | PLUMBING WORK | 3,000,862.68 | | | |
| 1.3 | FIRE FIGHTING WORK | 79,042.60 | | | |
| 2 | Non DSR Items | | | | |
| 2.1 | CIVIL work | 1,882,830.00 | | | |
| 2.2 | PLUMBING WORK | 4,464,618.90 | | | |
| 2.3 | FIRE FIGHTING WORK | 1,368,253.80 | | | |
| 2.4 | ELECTRICAL WORK | 10,429,746.00 | | | |
| 2.5 | HVAC WORK | 3,721,651.00 | | | |
| 2.6 | OPERATION THEATER | 5,001,700.00 | | | |
| | Grand Total | 74,997,949.63 | | | |

Sign & Seal

Project Name: Construction of RMNCH 50 Bedded Hospital Chattisgarh

ABSTRACT OF COST(Civil Work)

| S.No | DESCRIPTION OF WORK | DSR AMOUNT | MARKET RATE AMOUNT |
|-------------|----------------------------|----------------------|---------------------------|
| 1 | EARTHWORK | 688,987.45 | 0.00 |
| 2 | CONCRTE WORK | 1,295,147.91 | 0.00 |
| 3 | RCC WORK | 19,889,021.70 | 0.00 |
| 4 | BRICK WORK | 4,441,607.65 | 0.00 |
| 5 | DOORS & WINDOWS | 3,403,387.33 | 0.00 |
| 6 | STEEL WORK | 1,323,289.50 | 0.00 |
| 7 | FLOORING | 5,133,801.16 | 114,390.00 |
| 8 | CEILING & ROOFING | 2,466,042.30 | 973,190.00 |
| 9 | FINISHING | 3,199,731.30 | 315,500.00 |
| 10 | MISCELLANEOUS | 2,355,768.75 | 479,750.00 |
| 11 | ROAD WORK AND DEVELOPMENT | 852,459.60 | 0.00 |
| | TOTAL | 45,049,244.65 | 1,882,830.00 |

Project Name: Construction of RMNCH 50 Bedded Hospital Chattisgarh

| BOQ for Civil Work | | | | | | | |
|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.00 | EARTH WORK | | | | | | |
| 1.01 | Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. | | | | | | |
| a) | All kinds of soil | 1834.00 | cum | 129.35 | | 237227.90 | |
| b) | Ordinary rock | 143.00 | cum | 197.75 | | 28278.25 | |
| c) | Hard rock (blasting prohibited) | 143.00 | cum | 490.10 | | 70084.30 | |
| 1.02 | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means 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. | | | | | | |
| a) | All kinds of soil. | 55.00 | cum | 130.80 | | 7194.00 | |
| 1.03 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. | | | | | | |
| | | 1700.00 | cum | 83.80 | | 142460.00 | |

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|--------------------|---|-----------|------|-------------|--------------|------------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.04 | Extra for every additional lift of 1.5 m or part there of in excavation/banking excavated or stacked materials. | | | | | | |
| a) | All kinds of soil. | | | | | | |
| ii) | 1.5 to 3.0m | 621.00 | cum | 34.60 | | 21486.60 | |
| i) | 3.0 to 4.5m | 52.00 | cum | 69.20 | | 3598.40 | |
| 1.05 | Supplying and filling in plinth with jamuna sand under floors including, watering. ramming consolidating and dressing complete. | 200.00 | cum | 749.30 | | 149860.00 | |
| 1.06 | Extra for disposal of excavated earth for additional lead beyond 50m or part thereof upto 9 such additional leads | | | | | | |
| a) | All kinds of soil | 1700.00 | cum | 16.94 | | 28798.00 | |
| | | | | | | | |
| | Total | | | | | 688987.45 | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.00 | Concrete Work | | | | | | |
| 2.01 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: | | | | | | |
| a) | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | 4.00 | cum | 4514.05 | | 18056.20 | |
| b) | 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size). | 104.00 | cum | 3593.30 | | 373703.20 | |
| c) | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | 213.00 | cum | 3357.40 | | 715126.20 | |
| 2.02 | Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor five level, excluding the cost of centering, shuttering and finishing: | | | | | | |
| a) | 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | 6.00 | cum | 5272.40 | | 31634.40 | |
| 2.03 | Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5mm nominal size). | 157.00 | sqm | 207.55 | | 32585.35 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.04 | Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer specification . | 41.00 | per 50 kg cement | 35.35 | | 1449.35 | |
| 2.05 | Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil. | 157.00 | sqm | 96.65 | | 15174.05 | |
| 2.06 | Providing and laying in position cement concrete 1:5:10 (1 Cement : 5 fine sand : 10 broken brick bats 40 mm nominal size) including consolidation etc all complete. | 43.00 | Cum | 2498.12 | | 107419.16 | |
| Total | | | | | | 1295147.91 | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.00 | REINFORCED CEMENT CONCRETE | | | | | | |
| 3.01 | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. | | | | | | |
| | (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). | | | | | | |
| a) | All works upto plinth level | 369.00 | cum | 5242.15 | | 1934353.35 | |
| b) | All work above plinth level upto floor V level | 698.00 | cum | 5781.50 | | 4035487.00 | |
| | | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.02 | Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. | | | | | | |
| | (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately). Fly ash conforming to grade 1 of IS: 3812 (Part-1) only be used as part replacement of OPC as per IS:456. Uniform blending with cement to be ensured in accordance with clause 5.2 and 5.2.1 of IS:456-2000 in the items of BMC and RMC. | | | | | | |
| a) | All works upto plinth level | 34.00 | cum | 5519.40 | | 187659.60 | |
| b) | All work above plinth level upto floor V level | 78.00 | cum | 6059.20 | | 472617.60 | |
| | | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.03 | Add or deduct for providing richer or leaner mixes respectively at all floor levels. | | | | | | |
| a) | Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) | 80.00 | cum | 63.20 | | 5056.00 | |
| 3.04 | Centering and shuttering including strutting, propping etc. and removal of form for: | | | | | | |
| a) | Foundations, footings, bases of columns, etc. for mass concrete. | 411.00 | sqm | 166.90 | | 68595.90 | |
| b) | Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc. | 253.00 | sqm | 285.15 | | 72142.95 | |
| c) | Suspended floors, roofs, landings, balconies and access platform. | 3098.00 | sqm | 311.20 | | 964097.60 | |
| d) | Shelves (Cast in situ) | 55.00 | sqm | 311.20 | | 17116.00 | |
| e) | lintels, beams, plinth beams. girders. bressumers and cantilevers. | 3104.00 | sqm | 262.25 | | 814024.00 | |
| f) | Columns, Pillars, Piers, Abutments, Posts and Struts. | 1328.00 | sqm | 365.60 | | 485516.80 | |
| g) | Stairs, (excluding landings) except spiral-staircases | 77.00 | sqm | 326.30 | | 25125.10 | |
| j) | Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like. | 19.00 | sqm | 166.90 | | 3171.10 | |
| k) | Extra for shuttering in circular work for | | | | | | |
| i) | columns | 5.00 | Sqm | 62.24 | | 311.20 | |
| ii) | Beams | 5.00 | sqm | 57.03 | | 285.15 | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| l) | Weather shade, Chajjas, corbels etc., including edges | 80.00 | sqm | 411.10 | | 32888.00 | |
| 3.05 | Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) | | | | | | |
| a) | Suspended floors, roofs, landings, beams and balconies (Plan area to be measured). | 110.00 | sqm | 121.65 | | 13381.50 | |
| 3.06 | Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits. | | | | | | |
| a) | 40 mm thick | 72.00 | sqm | 523.80 | | 37713.60 | |
| 3.07 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | Thermo-Mechanically Treated bars | | | | | | |
| i) | At all levels | 171253.00 | Kg | 62.25 | | 10660499.25 | |
| 3.08 | Add for using extra cement in the items of design mix over and above the specified cement content therein. | 100.00 | Qtl | 589.80 | | 58980.00 | |
| Total | | | | | | 19889021.70 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.00 | BRICK WORK | | | | | | |
| 4.01 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: | | | | | | |
| a) | Cement mortar 1:6 (1 cement: 6 coarse sand) | 172.00 | cum | 3316.55 | | 570446.60 | |
| 4.02 | Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in | | | | | | |
| a) | Cement mortar 1:6 (1 cement: 6 coarse sand) | 654.00 | cum | 3978.50 | | 2601939.00 | |
| 4.03 | Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : | | | | | | |
| a) | cement mortar 1:4 (1 cement: 4 coarse sand) | 20.00 | sqm | 416.95 | | 8339.00 | |
| 4.04 | Half brick masonry with non modular fly ash lime Gypsum bricks (FALG bricks) of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level | | | | | | |
| a) | Cement mortar 1:4 (1 cement :4 coarse sand) | 2213.00 | sqm | 503.10 | | 1113360.30 | |
| | | | | | | | |
| | | | | | | | |

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|--------------------|---|-----------|-------|-------------|--------------|-------------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.05 | Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks). | 2233.00 | sqm | 63.30 | | 141348.90 | |
| 4.06 | Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand). | | | | | | |
| | | 237.00 | Metre | 26.05 | | 6173.85 | |
| | Total | | | | | 4441607.65 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.00 | DOORS, WINDOWS AND FITTINGS | | | | | | |
| 5.01 | Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : | | | | | | |
| a) | For fixed portion | | | | | | |
| i) | Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) | 2352.00 | kg | 394.90 | | 928804.80 | |
| b) | For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). | | | | | | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| i) | Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) | 1381.00 | kg | 443.80 | | 612887.80 | |
| 5.02 | Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. | | | | | | |
| a) | Pre-laminated particle board with decorative lamination on both sides. | 5.00 | Sqm | 969.95 | | 4849.75 | |
| 5.03 | Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) : | | | | | | |
| a) | With float glass panes of 5.50 mm thickness | 224.00 | sqm | 905.75 | | 202888.00 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.04 | Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. | | | | | | |
| a) | With brass cover plate minimum 1.25 mm thickness | 12.00 | each | 2127.30 | | 25527.60 | |
| 5.05 | Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment). | 942.00 | kg | 388.40 | | 365872.80 | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.06 | Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters : | | | | | | |
| a) | 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. | 201.00 | sqm | 1578.30 | | 317238.30 | |
| 5.07 | Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured). | 201.00 | sqm | 325.20 | | 65365.20 | |
| 5.08 | Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) : | | | | | | |
| a) | Rectangular or square. | 101.00 | sqm | 127.75 | | 12902.75 | |
| 5.09 | Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured). | 10.00 | sqm | 5.80 | | 58.00 | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.10 | Providing glass panes, with wooden fillets wherever necessary. | | | | | | |
| a) | Float glass panes of thickness 4 mm | 10.00 | Sqm | 724.65 | | 7246.50 | |
| 5.11 | Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S including cost of adhesive of approved quality | | | | | | |
| a) | 1.0 mm thick. | 402.00 | sqm | 596.30 | | 239712.60 | |
| 5.12 | Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. | | | | | | |
| a) | With aluminium beading | 224.00 | sqm | 1160.30 | | 259907.20 | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.13 | Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix,suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make,including applying a coat of approved brand fire resistant primer etc complete as per direction of Engineer-in-charge (Dash fastener to be complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately). | 14.00 | Metre | 1161.45 | | 16260.30 | |
| | | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.14 | Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I.sheet (zinc coating not less than 120 gm/m ²) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately). | 8.00 | sqm | 5727.20 | | 45817.60 | |
| 5.15 | Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m ²), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge. | | | | | | |
| | With clear fire resistant glass panes 6mm thick of approved brand, having minimum 60 minutes fire resistance | 0.50 | sqm | 25435.15 | | 12717.58 | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.16 | Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer-in-charge, all complete. | 2.00 | nos. | 5873.25 | | 11746.50 | |
| 5.17 | Providing and fixing Aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI:3564, embossed on the body,door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.3 | 87.00 | each | 662.80 | | 57663.60 | |
| 5.18 | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete: | | | | | | |
| a) | 300x16 mm | 10.00 | each | 203.80 | | 2038.00 | |
| b) | 250x16 mm | 5.00 | each | 168.95 | | 844.75 | |
| 5.19 | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete: | | | | | | |
| a) | 250x10 mm | 119.00 | each | 86.45 | | 10287.55 | |
| b) | 150x10 mm | 425.00 | each | 59.00 | | 25075.00 | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.20 | Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws bolts, nut and washers etc. complete. | 15.00 | each | 62.45 | | 936.75 | |
| 5.21 | Providing and fixing 50cm long aluminium kicking plate 100x3.15 mm anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour or shade with necessary screws etc. complete. | 15.00 | each | 155.35 | | 2330.25 | |
| 5.22 | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : | | | | | | |
| a) | 125 mm | 233.00 | each | 62.50 | | 14562.50 | |
| b) | 100 mm | 15.00 | each | 49.55 | | 743.25 | |
| 5.23 | Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. | | | | | | |
| a) | Twin rubber stopper | 117.00 | each | 71.55 | | 8371.35 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.24 | Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete. | 87.00 | each | 706.15 | | 61435.05 | |
| 5.25 | Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete. | | | | | | |
| a) | 255 X 19 mm | 306.00 | each | 229.80 | | 70318.80 | |
| 5.26 | Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge. | | | | | | |
| a) | Powder coated minimum thickness 50 micron aluminium tubular handle bar. | 4.00 | each | 544.40 | | 2177.60 | |
| 5.27 | Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. | 2.00 | each | 356.10 | | 712.20 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.28 | Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. | | | | | | |
| a) | Powder coated minimum thickness 50 micron aluminium. | 306.00 | each | 51.70 | | 15820.20 | |
| 5.29 | Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge | | | | | | |
| a) | Powder coated minimum thickness 50 micron aluminium | 4.00 | each | 66.80 | | 267.20 | |
| Total | | | | | | 3403387.33 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6.00 | Steel Works | | | | | | |
| 6.01 | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming cost with approved steel primer all complete. | | | | | | |
| a) | Fixed to steel windows by welding. | 100.00 | kg | 90.75 | | 9075.00 | |
| 6.02 | Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. | | | | | | |
| a) | In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works | 6400.00 | Kg | 77.90 | | 498560.00 | |
| 6.03 | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircase railing including applying a priming coat of approved steel primer. | | | | | | |
| a) | M.S. tube. | 50.00 | Kg | 86.45 | | 4322.50 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6.04 | Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). | 1454.00 | kg | 558.00 | | 811332.00 | |
| Total | | | | | | 1323289.50 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.00 | Flooring | | | | | | |
| 7.01 | Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) finised with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. | | | | | | |
| a) | 40mm thick with 20mm nominal size stone aggregate. | 7.00 | sqm | 280.05 | | 1960.35 | |
| 7.02 | Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. | | | | | | |
| a) | 18 mm thick. | 1.00 | sqm | 258.20 | | 258.20 | |
| 7.03 | Providing and fixing glass strips in joints of <i>terrazo</i> / cement concrete floors. | | | | | | |
| a) | 40 mm wide and 4 mm thick. | 80.00 | Metre | 29.40 | | 2352.00 | |
| 7.04 | Marble stone flooring/skirting with 18mm thick marble stone sample of marble shall be approved by Engineer-in-charge over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with: | | | | | | |
| a) | Raj Nagar Plain | 1174.00 | sqm | 1265.35 | | 1485520.90 | |
| b) | Udaipur green marble | 649.00 | sqm | 1418.95 | | 920898.55 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.05 | 18mm thick Prepolished Granite (Base Rate 150/- Sqft) in Risers, skirting and dado/wall cladding over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement including pointing with white cement mixed with pigment matching the shade of granite stone all complete and as directed. | 60.00 | sqm | 4015.95 | | 240957.00 | |
| 7.06 | Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : | | | | | | |
| a) | 25 mm thick. | 208.00 | sqm | 945.70 | | 196705.60 | |
| 7.07 | Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. | 16.00 | sqm | 954.10 | | 15265.60 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.08 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. | 929.00 | sqm | 724.25 | | 672828.25 | |
| 7.09 | Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete. | 212.00 | sqm | 961.25 | | 203785.00 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.10 | Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete | | | | | | |
| a) | Size of Tile 600x600 mm | 533.00 | sqm | 1337.10 | | 712674.30 | |
| 7.11 | Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. | | | | | | |
| a) | Size of Tile 600x600 mm | 54.00 | sqm | 1339.20 | | 72316.80 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.12 | Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills. facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, induding rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels | | | | | | |
| a) | Granite of any colour and shade | | | | | | |
| i) | Area of slab upto 0.50 sqm | 5.00 | sqm | 3041.15 | | 15205.75 | |
| ii) | Area of slab over 0.50 sqm. | 51.00 | sqm | 3083.40 | | 157253.40 | |
| | | | | | | | |
| 7.13 | Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc complete as per design approved by Engineer-in- | | | | | | |
| a) | Granite work. | 83.00 | metre | 178.75 | | 14836.25 | |
| | | | | | | | |
| 7.14 | Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete. | 83.00 | metre | 185.80 | | 15421.40 | |
| | | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.15 | Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete. | 11.00 | Nos | 281.10 | | 3092.10 | |
| 7.16 | Providing & fixing 2 mm thick homogeneous jointless, scratch resistant, chemical resistant, anti fungal and anti bacterial PVC Vinyl flooring and skirting/ coving good for laboratories of approved quality including the cost of suitable adhesive and coving material of approved quality and manufacture. | 41.00 | Sqm | | 2790 | | 114390.00 |
| 7.17 | Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : | | | | | | |
| a) | Medium shade using 50%white cement 50% ordinary cement | 123.00 | sqm | 773.40 | | 95128.20 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.18 | Granite stone/ Engineering Stone flooring with 18 mm thick stone, rectangular shape, (minimum size of stone should be 0.45 sqm and one dimension not less than 700 mm) as per drawing or as per the pattern as approved by the client/ architect/ engineer, over 20 mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry mixed with pigment to match the shade of stone including rubbing and polishing complete. | | | | | | |
| a) | Granite stone of approved quality (Base rate Rs 150 per Sft) | 33.00 | Sqm | 2725.47 | | 89940.51 | |
| 7.19 | 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder : 7 marble chips) by volume, including cement slurry etc. complete. | | | | | | |

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|--------------------|--|-----------|------|-------------|--------------|-------------------|------------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Medium shade pigment with 50% white cement and 50% ordinary cement | 383.00 | sqm | 504.30 | | 193146.90 | |
| 7.20 | Marble chips skirting up to 30 cm height, rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume : | | | | | | |
| | Medium shade pigment with 50% white cement and 50% ordinary cement | 39.00 | sqm | 621.90 | | 24254.10 | |
| | Total | | | | | 5133801.16 | 114390.00 |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.00 | CEILING & ROOFING | | | | | | |
| 8.01 | Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with : | | | | | | |
| a) | 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I. | 866.00 | sqm | 691.40 | | 598752.40 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.02 | Providing and fixing 10mm thick clear multi wall solar control polycarbonate sheets of approved quality and shade in desired shape in roofing including the cost of EPDM gaskets , sealing tape , aluminium profile and all necessary accessories complete as per architectural drawings and as directed by Engineer incharge. The item includes designing the complete system and supplying & getting approved from client and / or reputed engineering institue like IIT etc. The detailed shop drawings including supplying structural design calculations based on relevent codal provisions and carrying out water penetration test as per standards followed in India. | | | | | | |
| a) | For Dome Structure | 290.00 | Sqm | | 3094.00 | | 897260.00 |
| b) | for Plain Structure | 30.00 | Sqm | | 2531.00 | | 75930.00 |
| | The whole work is to be done through reputed and approved vendor having experience in polycarbonate work in Commercial/ Govt/ Corporate buildings as per architectural elevation drawings including filling of joints with silicon sealent and also with masonary/ RCC work, at all heights including double heights, straight or curved etc. complete in all respect. (Surface Area shall be measured for the payment) (M.S. Framing to be paid for seprately) | | | | | | |
| | | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.03 | Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : | | | | | | |
| i) | v) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. | | | | | | |
| ii) | vi) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. | | | | | | |
| iii) | vii) 3rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area. | | | | | | |
| iv) | viii) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.) | 198.00 | sqm | 399.60 | | 79120.80 | |
| | | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.04 | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound to IS : 2645 and approved by Engineer - in - charge to required slope and treating similarly the | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|-------------------|------------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : | | | | | | |
| a) | With average thickness of 120mm and minimum thickness at khurra as 65 mm. | 2273.00 | sqm | 786.70 | | 1788169.10 | |
| | | | | | | | |
| | | | | | | | |
| | Total | | | | | 2466042.30 | 973190.00 |

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| BOQ for Civil Work | | | | | | | |
|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9.00 | Finishing | | | | | | |
| 9.01 | 12 mm cement plaster of mix: | | | | | | |
| a) | 1:6 (1 cement: 6 fine sand) | 3149.00 | sqm | 112.50 | | 354262.50 | |
| 9.02 | 15 mm cement plaster on the rough side of single or half brick wall of mix: | | | | | | |
| a) | 1:6 (1 cement: 6 fine sand) | 3854.00 | sqm | 130.20 | | 501790.80 | |
| 9.03 | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand). | 2775.00 | sqm | 182.90 | | 507547.50 | |
| 9.04 | 6 mm cement plaster of mix: | | | | | | |
| a) | 1:3 (1 cement: 3 fine sand) | 2004.00 | sqm | 101.00 | | 202404.00 | |
| 9.05 | Neat cement punning | 60.00 | sqm | 31.10 | | 1866.00 | |
| 9.06 | Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof. | 113.00 | sqm | 28.85 | | 3260.05 | |
| 9.07 | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete | 40.00 | Sqm | 83.80 | | 3352.00 | |
| 9.08 | White washing with lime to give an even shade: | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | New work (three or more coats) | 40.00 | sqm | 11.75 | | 470.00 | |
| 9.09 | Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | | | |
| a) | New work (two or more coats) over and including priming coat with cement primer. | 40.00 | sqm | 64.65 | | 2586.00 | |
| 9.10 | Finishing walls with Acrylic Smooth exterior paint of required shade: | | | | | | |
| a) | New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kgl10 sqm). | 180.00 | sqm | 67.50 | | 12150.00 | |
| 9.11 | Applying one coat of cement primer of approved brand and manufacture on wall surface: | | | | | | |
| a) | Cement primer. | 40.00 | sqm | 25.55 | | 1022.00 | |
| 9.12 | Finishing walls with textured exterior paint of required shade: | | | | | | |
| a) | New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/1 0 sqm. | 2775.00 | sqm | 117.70 | | 326617.50 | |
| 9.13 | Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | Two or more coats on new work | 40.00 | sqm | 60.25 | | 2410.00 | |
| 9.14 | Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: | | | | | | |
| a) | Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. | 40.00 | sqm | 78.80 | | 3152.00 | |
| 9.15 | Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. | 8798.00 | sqm | 76.05 | | 669087.90 | |
| 9.16 | Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. | | | | | | |
| a) | Two coats | 3519.00 | sqm | 34.40 | | 121053.60 | |
| 9.17 | Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. | | | | | | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | Two coats | 4399.00 | sqm | 61.45 | | 270318.55 | |
| 9.18 | Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. | | | | | | |
| a) | Two coats | 180.00 | sqm | 53.90 | | 9702.00 | |
| 9.19 | Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. | | | | | | |
| a) | With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre | 180.00 | sqm | 24.30 | | 4374.00 | |
| b) | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre | 7918.00 | sqm | 25.55 | | 202304.90 | |
| 9.20 | Providing and fixing 24 gauge and 18mm mesh size chicken wiremesh at junction of concrete and brick work and other locations at all heights including cutting to required size and side laps of minimum 75mm and fixing in positions with nails/screws etc. as directed and as required at site. | 100.00 | sqm | | 75.00 | | 7500.00 |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9.21 | Applying chemical resistant epoxy resin wall coating over plastered surface including preparing of the surface, applying acrylic primer, putty and painting of approved brand and manufacture. | | | | | | |
| a) | New work (three or more coats) over and including priming coat with acrylic primer and putty. | 880.00 | sqm | | 350.00 | | 308000.00 |
| | | | | | | | |
| | Total | | | | | 3199731.30 | 315500.00 |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.00 | Miscellaneous | | | | | | |
| 10.01 | Providing and fixing dry cladding upto 10 metre heights with gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.) | | | | | | |
| a) | Gwalior Sand Stone(base rate Rs.90 per sqft) | 398.00 | sqm | 2946.70 | | 1172786.60 | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.02 | Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineerin- charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-charge for approval before execution). | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid). | 1194.00 | Kg | 119.00 | | 142086.00 | |
| 10.03 | providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA2604 of required colour and shade as approved by the Engineer-in-charge. | | | | | | |
| | (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). | 429.00 | kg | 363.85 | | 156091.65 | |
| 10.04 | Designing, fabricating, testing, protection, installing and fixing in position semi(grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels including. | | | | | | |

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|--------------------|--|-----------|------|----------------|-----------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | structural analysis, design and preparation of shop drawings for the specified design loads confirming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium sections for fixing glazing panales of various thickness, aluminium cleats, sleeves and splice plates etc. gaskets, screws, taggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including. | | | | | | |
| | Fabricating and supplying serrated M.S. hot dip galvanized / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 dimensional movement for achieving perfect vertically and proper fixing of structural glazing system with the RCC / masonry / structural steel frame work of building structure, using stainless steel anchor fasteners / bolts, nylon seperator to prevent bimetallic contacts with nuts and washes etc. of stainless steel grade 316, of the required capacity and in required numbers. | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacturer, as per the approved sealant design, within and all around the perimeter for holding glass. | | | | | | |
| | Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight. | | | | | | |
| | Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. | | | | | | |

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|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc. enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design checked and all the shop drawings vetted by the Principals of the structural glazing system. | | | | | | |
| | The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-charge. | | | | | | |
| | | 66.00 | sqm | 2282.65 | | 150654.90 | |
| | Note :- 1 | | | | | | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | The cost of providing extruded aluminium frames, shadow boxes, fire stop (barrier)-cum-smoke seals, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for seperately under revelent items under this sub-head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be mesured in sqm. up to two decimal places. | | | | | | |
| | Note :- 2 | | | | | | |
| | The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 sqm. from the certified laboratories accereditated by NABL (National Accredetation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. | | | | | | |
| | Performance Testing of structural glazing system | | | | | | |
| | Tests to be conducted in the NABL certified laboratories | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr" | | | | | | |
| | Static Water penetration Test (50pa to 1500pa) as per ASTME-331-09 testing method for a range up to 2000 ml." | | | | | | |
| | Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-05 testing method for a range up to 2000 ml." | | | | | | |
| | Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTME-330-10 testing method for a range up to 50 mm." | | | | | | |
| | Seismic Movement Test (up to 30 mm) as per AAMA 501. 4-09 testing method for Qualitative test." | | | | | | |
| | Tests to be conducted on site | | | | | | |
| | Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) up to 2000ml." | | | | | | |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.05 | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer high performance heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.1) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. | | | | | | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. | 66.00 | sqm | 3862.85 | | 254948.10 | |
| 10.06 | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineerin- Charge. sqm | 40.00 | sqm | 2966.80 | | 118672.00 | |

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|--------------------|--|-----------|------|----------------|-----------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.07 | Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge. | 796.00 | each | 171.20 | | 136275.20 | |
| 10.08 | Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth. | 194.00 | sqm | 338.75 | | 65717.50 | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.09 | Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. | | | | | | |
| a) | Using rough kota stone. | 34.00 | Sqm | 732.85 | | 24916.90 | |

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|--------------------|--|-----------|--------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.10 | Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge : | | | | | | |
| a) | Using rough Kota stone | 151.00 | Sqm | 884.90 | | 133619.90 | |
| 10.11 | Providing fabricating and fixing of signages of varying sizes and shapes using three mm thick PVC sheet at base with self adhesive coloured vinyl with graphicson top of glow tape complete including fixing on wall with screws and washers or hanging on ceiling with GI chain/GI Bar complete as per technical specifications and directions of Engineer. | 4000.00 | Sqinch | | 4.00 | | 16000.00 |

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| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.12 | Providing and fixing of sinages of varying sizes and shapes using stainless steel sheet of minimum 16G thickness brush finish including engraving/etching of letters of required size filled with colour as desired by engineer,fixing with ss screws on walls | 1000.00 | Sqinch | | 17.00 | | 17000.00 |
| 10.13 | Providing. Fabricating and fixing of Aluminium Composite Panel Signages with 3mm thick ACP Sheet, using 25X25 mm MS pipe Frame of approved qualiy with anti rust coating, back with G.I. and 5 Sides with ACP Sheet (alucobond or equivalent approved make), lettering to be done with 5mm Acrylic Sheet and Vinyl's(if Needed), backlit with (Philips or approved equivalent) Slim Lite Tube light Fittings, Acrylic Letters to Protrude out and be lit, together with a timer for switching on and off automatically at night and day including transportation and fixing at site as per the direction of the site engineer. | 25.00 | Sft | | 1050.00 | | 26250.00 |
| 10.14 | Providing & Fixing Wall Mounted Nonlit Internal sign of approved make & made of 10mm Acrylic with the required text matters stuck on it with plotted self adhesive vinyl & Mounted on 3mm Aluminium Composit Panel bracketed at suitable locations including necessary fittings & fastening etc. complete & as directed by The Engineer in charge. | 2000.00 | sqrinch | | 9.00 | | 18000.00 |

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|--------------------|---|-----------|------|-------------|--------------|-------------------|------------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.15 | Providing and fixing of external sinages of varying sizes and shapes using GI sheet of atleast 22 G / aluminium sheet of suitable gauge complete as per technical specifications and directions of Engineer. | 100.00 | sqft | | 350.00 | | 35000.00 |
| 10.16 | Providing and fixing MS support frame for external signages made of structural steel including welding, priming, painting foundation with 1:1.5:3 cement concrete complete as per drawing, technical specifications and directions of engineer. | 500.00 | Kg | | 135.00 | | 67500.00 |
| 10.17 | Providing the following brand new vehicle at any time for exclusive use of engineer during currency of contract.The number of vehicles and period shall be informed by the engineer as per requirement.The rate are inclusive of service of drivers, fuel, oil, | | | | | | |
| a) | Indica or equivalent as required | 30000.00 | Km | | 10.00 | | 300000.00 |
| | Total | | | | | 2355768.75 | 479750.00 |

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|--------------------|---|-----------|--|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11.00 | ROAD WORK AND DEVELOPEMENT | | | | | | |
| 11.01 | Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres. | 800.00 | SQM | 61.25 | | 49000.00 | |
| 11.02 | Providing and laying C.C. pavement of mix M25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). | 40.00 | Cum | 5761.60 | | 230464.00 | |
| 11.03 | Providing and laying in position bitumen hot sealing compound for expansion joints etc | | | | | | |
| a) | Using grade 'A' sealing compound. | 15000.00 | Per cm depth per cm width per m length | 1.65 | | 24750.00 | |

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|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11.04 | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. | 300.00 | sqm | 536.65 | | 160995.00 | |
| 11.05 | Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge. | 80.00 | cum | 2899.25 | | 231940.00 | |

Project Name: Construction of RMNCH 50 Bedded Hospital Chattisgarh

| BOQ for Civil Work | | | | | | | |
|--------------------|---|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11.06 | Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). | 22.00 | Cum | 5046.80 | | 111029.60 | |
| 11.07 | Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure). | 300.00 | Cum | 30.90 | | 9270.00 | |
| 11.08 | Supplying and stacking of well decayed cow dung manure at site including royalty and carriage upto 1 km (Cow dung manure measured in stacks will reduced by 8% for Payment). | 100.00 | Cum | 215.15 | | 21515.00 | |

Project Name: Construction of RMNCH 50 Bedded Hospital Chattisgarh

| BOQ for Civil Work | | | | | | | |
|--------------------|--|-----------|------|-------------|--------------|------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11.09 | Rough dressing the trenched ground including breaking clods & Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation. | 1000.00 | Sqm | 2.54 | | 2540.00 | |
| 11.10 | Spreading of sludge, dump manure or/and good earth in required thickness as per direction of office-in charge (Cost of sludge, dump manure or/ and good earth to be paid separately). | 100.00 | Cum | 21.00 | | 2100.00 | |
| 11.11 | Fine dressing of the ground | 1000.00 | Sqm | 1.46 | | 1460.00 | |
| 11.12 | Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately). | | | | | | |
| a) | With grass Turf | 1000.00 | Sqm. | 5.28 | | 5280.00 | |

Project Name: Construction of RMNCH 50 Bedded Hospital Chattisgarh

| BOQ for Civil Work | | | | | | | |
|-------------------------|--|-----------|------|-------------|--------------|------------------|-----------------|
| Item No | Description Of Item | Total Qty | Unit | DSR 12 Rate | NS Item Rate | Amount DSR | Amount NS Items |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 11.13 | Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately): | | | | | | |
| a) | Holes 1.2 m dia and 1.2 m deep. | 10.00 | Each | 186.90 | | 1869.00 | |
| b) | Holes 60 cm dia, and 60 cm deep. | 10.00 | Each | 24.70 | | 247.00 | |
| | Sub Total | | | | | 852459.60 | |
| END OF CIVIL BOQ | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ABSTRACT

Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH
Project under NRHM

| S.No. | DESCRIPTION | DSR-2012 Amount (Rs) | Market Amount(Rs) |
|----------|----------------------------|----------------------|---------------------|
| A | PLUMBING WORK | | |
| 1.00 | SANITARY FIXTURES | 575,966.75 | 422,049.00 |
| 2. 00 | SOIL, WASTE AND VENT PIPES | 625,574.70 | 292,557.00 |
| 3.00 | WATER SUPPLY | 529,448.00 | 655,547.40 |
| 4.00 | SEWERAGE AND DRAINAGE | 516,712.08 | 515,000.00 |
| 5.00 | EARTH WORK | 52,797.60 | |
| 6.00 | EXTERNAL WATER SUPPLY | 469,959.85 | 309,300.00 |
| 7.00 | RAIN WATER PIPING | 184,777.25 | 239,762.00 |
| 8.00 | BOREWELL | 0.00 | 806,070.60 |
| 9.00 | RAIN WATER HARVESTING | 0.00 | 305,200.90 |
| 10.00 | SOLAR HOT WATER SYSTEM | 45,626.45 | 919,132.00 |
| | TOTAL | 3,000,862.68 | 4,464,618.90 |

| | Design & Engineering Department | | | | | | |
|---------|---|------|------------|--------------------|------------|-------------|---------------|
| | | | | | | | |
| | Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | |
| | | | | | | | |
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 1.00 SANITARY FIXTURES | | | | | | |
| 1.01 | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : | | | | | | |
| a) | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | each | 10.00 | 2,964.10 | 29,641.00 | | |
| 1.02 | Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : | | | | | | |
| a) | W.C. pan with ISI marked black solid plastic seat and lid | each | 15.00 | 4,201.05 | 63,015.75 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.03 | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : | | | | | | |
| a) | White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap | each | 20.00 | 1,460.50 | 29,210.00 | | |
| b) | White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked | each | 8.00 | 2,500.05 | 20,000.40 | | |
| 1.04 | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : | | | | | | |
| a) | Kitchen sink with drain board | | | | | | |
| a i) | 510x1040 mm bowl depth 250 mm | each | 2.00 | 6,743.55 | 13,487.10 | | |
| 1.05 | Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : | | | | | | |
| a) | Size 600x450x200 mm | each | 10.00 | 2,758.65 | 27,586.50 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.06 | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : | | | | | | |
| a) | Rectangular shape 453x357 mm | each | 15.00 | 598.30 | 8,974.50 | | |
| b) | Providing and fixing full size branded mirrors of 5mm thick float glass (of approved quality) complete with 6mm thick ply backing fixed to wall over suitable hardwood base frame complete with 32mmx19mm decorative teakwood moulding all around duly polished as per drawings and as directed. | sq.m. | 2.00 | | | 5,000.00 | 10,000.00 |
| 1.07 | Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete. | each | 10.00 | 341.25 | 3,412.50 | | |
| 1.08 | Providing and fixing toilet paper holder : | | | | | | |
| a) | Vitreous china | each | 15.00 | 259.75 | 3,896.25 | | |
| 1.09 | Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms. | each | 25.00 | 180.10 | 2,701.50 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.11 | 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 | 5.00 | 14,961.65 | 374,041.25 | | |
| 1.12 | Providing and fixing water Jet Nozzle with hose pipe and haif turn CP brass angle valve to be fitted with seat cover of european water closet complete in all respect of approved quality | Each | 15.00 | | | 1,369.00 | 20,535.00 |
| 1.13 | Providing and fixing soap tray with CP brass lid and brackets fixed to wooden cleats with CP brass screws.(Jaquar model no.1131 or equivalent model of other approved make). | Each | 15.00 | | | 508.00 | 7,620.00 |
| 1.14 | Providing and fixing CP brass towel rail size of 600x20 mm of approved make complete with CP brackets fixed to wooden cleats with CP brass screws(Jaquar model no.1111 or equivalent model of other approved make) | Each | 25.00 | | | 990.00 | 24,750.00 |
| 1.15 | Providing and fixing brass coat hook of approved quality and make complete with material of fixing | Each | 30.00 | | | 300.00 | 9,000.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.16 | Extra for providing and fixing white vitreous china oval shape wash basin in place of normal wash basin with CI/MS brackets painted white, 15 mm CP brass pillar taps, 32 mm CP brass waste of standard pattern, including painting of fittings and brackets cutting and making good the walls wherever required | | | | | | |
| a) | Counter top oval shape wash basin size 550x470 mm with centre tap hole, single 15 mm CP brass swan neck type pillar tap | Each | 25.00 | | | 1,332.00 | 33,300.00 |
| 1.17 | Providing and fixing stainless steel grab bar 25mm dia of required length minimum 750 mm with PVC cleats, C.P. brass screws etc. complete. | Each | 8.00 | | | 668.00 | 5,344.00 |
| 1.18 | Providing and fixing vitreous china division plate of size 960x165x325 mm of approved make and design including brass cleats,C.P. brass screws all fittings etc. complete in all respect | Each | 3.00 | | | 2,500.00 | 7,500.00 |
| 1.19 | Providing and fixing Hospital white vitreous china bed pan sink with P trap, size 600 x 450 mm with 10 litres C.I. High level flushing cistern flush pipe, C.I./M.S. bracket painting with 3 coats of white paint complete with accessories, C.P. brass fittings with vertical jet horizontal spray complete with control cocks. | Each | 3.00 | | | 18000.0 | 54,000.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------------|-------------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.20 | Supply , installation, testing and commissioning of compact floor mounted pedestal base surgical scrub sink tailor made to suit the site available compatible with all the regular and standard plumbing system, with inbuilt geyser designed for use in operation theatre fabricated from 16 gauge 304 type stainless steel seamless welded,polished to satin finish including connecting to drainage and water points and making good cutting of walls and floor surface all complete and as directed | | | | | | |
| a) | Tailor made surgical scrub sink (2 bay) Approximate size 1.4 mX0.54mX0.84m with 1 user elbow operated mixture tap, soap dispensers, drain outlet ,thermostatic control of water temperature | Each | 1.00 | | | 250000.0 | 250,000.00 |
| SubTotal(Sanitary Fixtures) | | | | | | 575,966.75 | 422,049.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.00 | SOIL, WASTE AND VENT PIPES | | | | | | |
| 2.01 | Providing and fixing soil, waste and vent pipes. | | | | | | |
| a) | 100 mm dia. | | | | | | |
| i) | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989 | Metre | 550.00 | 857.30 | 471,515.00 | | |
| b) | 150 mm dia | | | | | | |
| | Centrifugally cast (spun) iron socketed pipe as per IS:3989 | Metre | 60.00 | | | 2,100.00 | 126,000.00 |
| 2.02 | Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm 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. | | | | | | |
| a) | for 100 mm dia. pipe | Each | 42.00 | 112.50 | 4,725.00 | | |
| 2.03 | Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. | | | | | | |
| a) | 100 mm | | | | | | |
| a i) | Sand cast iron S&S as per IS-3989 | Each | 28.00 | 353.25 | 9,891.00 | | |
| 2.04 | Providing and fixing plain bend of required degree. | | | | | | |
| a) | 100 mm | | | | | | |
| a i) | Sand cast iron S&S as per IS:3989 | Each | 43.00 | 296.35 | 12,743.05 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.05 | Providing and fixing heel rest sanitary bend. | | | | | | |
| a) | 100 mm dia | | | | | | |
| a.i) | sand cast iron S&S as per IS-3989 | Each | 14.00 | 342.80 | 4,799.20 | | |
| 2.06 | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete. | | | | | | |
| a) | 100x100x100mm | | | | | | |
| a.i) | sand cast iron S&S as per IS-3989 | Each | 14.00 | 579.75 | 8,116.50 | | |
| 2.07 | Providing and fixing single equal plain junction of required degree | | | | | | |
| a) | 100x100x100mm | | | | | | |
| a.i) | sand cast iron S&S as per IS-3989 | Each | 5.00 | 522.85 | 2,614.25 | | |
| 2.08 | Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete | | | | | | |
| a) | 100 mm | | | | | | |
| a.ii) | sand cast iron S&S as per IS-3989 | Each | 15.00 | 469.40 | 7,041.00 | | |
| 2.09 | Providing and fixing terminal guard. | | | | | | |
| a) | 100 mm | Each | 14.00 | 244.10 | 3,417.40 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a.i) | sand cast iron S&S as per IS-3989 | | | | | | |
| 2.10 | Providing and fixing collar | | | | | | |
| a) | 100 mm | | | | | | |
| a.i) | Sand cast iron S&S as per IS-3989 | Each | 28.00 | 238.25 | 6,671.00 | | |
| 2.11 | Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter: | | | | | | |
| a) | 100 mm | Each | 250.00 | 207.85 | 51,962.50 | | |
| 2.12 | Providing Drip seal joint of approved make for the sand cast iron/centrifugally cast iron pipes where the workability of lead joint can be effected due to space constraints. | | | | | | |
| a) | 100 mm | Each | 100.00 | | | 100.00 | 10,000.00 |
| 2.13 | Providing and fixing M.S. stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter : | | | | | | |
| a) | 100 mm | Each | 14.00 | 61.70 | 863.80 | | |
| 2.14 | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: | | | | | | |
| a) | 100 mm inlet and 100 mm outlet (P trap with 50 mm water seal) | | | | | | |
| a i) | Sand cast iron S&S as per IS-3989 | Each | 30.00 | 801.70 | 24,051.00 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.15 | Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement:3 coarse sand:6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement: 4 coarse sand): | | | | | | |
| a) | 100 mm diameter pipe | Metre | 15.00 | 252.10 | 3,781.50 | | |
| 2.16 | Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint off any colour such as chocolate, grey, or buff etc. over a coat of primer (of approved quality) for new work: | | | | | | |
| a) | 100 mm diameter pipe | Metre | 330.00 | 28.75 | 9,487.50 | | |
| 2.17 | Providing and fixing floor drain points formed out of 65/50 mm dia GI elbow, including with 75mm dia Stainless Steel grating with frame, embedded in floor, all complete as directed. | Each | 10.00 | | | 300.00 | 3,000.00 |
| 2.18 | Providing and fixing C.P. brass bottle trap for wash basin including CP waste fittings complete 32 mm dia complete in all respect of approved quality. | Each | 30.00 | | | 739.00 | 22,170.00 |
| 2.19 | Providing and fixing C.P. brass bottle trap for sinks & urinal basin including CP waste fittings complete 40 mm dia complete in all respect of approved quality. | Each | 20.00 | | | 744.00 | 14,880.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.20 | Providing and laying cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) 80 mm thick all-round the SCI/centrifugally S&S pipe diameter. | | | | | | |
| a) | 100 mm dia | Metre | 130.00 | | | 295.90 | 38,467.00 |
| 2.21 | Providing and fixing dash fastner made of rust proof plated steel for holding the soil/waste supply pipes complete in all respect | | | | | | |
| a) | Dash fastner for pipe more than 25 mm dia to 150 mm dia pipe of required size but not less than size 10 mm dia and 50 mm long minimum & shall be capable of taking 6 tonnes load and also include the supporting threaded rod of 8 mm dia and length 450 mm,the support MS structure angles etc. will be paid as per weight separately/approved steel structures support as per drawing. | Each | 10.00 | | | 200.00 | 2,000.00 |
| 2.22 | Providing and fixing floor clean out plug consist of CI bend & GI socket heavy class with Brass cap & key for opening male threaded cap etc. including lead caulked to CI pipescomplete in all respects as per drawing/ sample approved by Engineer -in - ChargeFCO (floor clean out plug shall be flushed with floor finish | | | | | | |
| | 100 mm dia/150 mm dia | Each | 3.00 | | | 1,800.00 | 5,400.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.23 | Providing and fixing clean out plug consist of GI socket/nipple heavy class with threaded pludge for opening male threaded cap etc. including lead caulked to CI pipescomplete in all respects as per drawing/ sample approved by Engineer -in -Charge | | | | | | |
| | 100 mm dia/150 mm dia | Each | 1.00 | | | 1,500.00 | 1,500.00 |
| 2.24 | Providing and fixing G.I EXTENSION PIECE for 100 mm dia floor trap formed out of main pipe(Type A) with multiple side inlets, suitable for various dia pipes, side connections, including all fixtures and fittings as per site conditions and as per standard details and water tight sealing of joints and area surrounding the grating and as directed. | Each | 25.00 | | | 574.00 | 14,350.00 |
| 2.25 | Providing and fixing cPVC./GI pipes complete with cPVC /GI fittings including painting, jointing, testing the cost of cutting the chases and making good the same for waste water disposal complete as per direction of engineer incharge. | | | | | | |
| a) | 32 mm dia nominal bore (Wash basin to floor trap/floor drain) | Metre | 30.00 | | | 390.00 | 11,700.00 |
| b) | 40 mm dia nominal bore (Sink, Urinal to floor trap) | Metre | 17.00 | | | 450.00 | 7,650.00 |
| c) | 50 mm dia nominal bore (Floor Drain to Floor Trap) | Metre | 9.00 | | | 560.00 | 5,040.00 |
| 2.26 | Providing & fixing SS floor trap grating 143x143x5mm thick screwable with SS fixed frame of 150x150 mm size as per approved make & model | each | 30.00 | | | 780.00 | 23,400.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|-------------------|-------------|-------------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2.27 | Steel work welded in built up sections/framed work including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. | | | | | | |
| a) | In gratings,frames,guard bar,ladder,railings,brackets,gates and similar works . | kg | 50.00 | 77.90 | 3,895.00 | | |
| 2.28 | Providing and fixing WC connector socket(for vitreous china & CI pipe) of EDPM good quality with polypropelene body 100x150/100x250 of approved quality and make complete in all respect. | Each | 20.00 | | | 350.0 | 7,000.00 |
| SUB TOTAL(SOIL, WASTE AND VENT PIPES) | | | | | 625,574.70 | | 292,557.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.00 WATER SUPPLY | | | | | | | |
| 3.01 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. | | | | | | |
| Internal work – Exposed on wall | | | | | | | |
| a) | 15 mm nominal outer dia pipes | Metre | 10.00 | 133.95 | 1,339.50 | | |
| b) | 20 mm nominal outer dia pipes | Metre | 200.00 | 157.15 | 31,430.00 | | |
| c) | 25 mm nominal outer dia pipes | Metre | 150.00 | 197.90 | 29,685.00 | | |
| d) | 32 mm nominal outer dia pipes | Metre | 100.00 | 252.65 | 25,265.00 | | |
| e) | 40 mm nominal outer dia pipes | Metre | 75.00 | 348.25 | 26,118.75 | | |
| f) | 50 mm nominal outer dia pipes | Metre | 50.00 | 514.35 | 25,717.50 | | |
| g) | 62.5 mm nominal outer dia pipes | Metre | 15.00 | | | 1,230.00 | 18,450.00 |
| 3.02 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. | | | | | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Concealed work, including cutting chases and making good the walls etc. | | | | | | |
| a) | 15 mm nominal outer dia pipes | Metre | 200.00 | 219.55 | 43,910.00 | | |
| b) | 20 mm nominal outer dia pipes | Metre | 150.00 | 243.95 | 36,592.50 | | |
| c) | 25 mm nominal outer dia pipes | Metre | 75.00 | 298.85 | 22,413.75 | | |
| d) | 32 mm nominal outer dia pipes | Metre | 30.00 | 359.80 | 10,794.00 | | |
| e) | 40 mm nominal outer dia pipes | Metre | 10.00 | | | 405.00 | 4,050.00 |
| | | | | | | | |
| 3.03 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes and fittings with one step CPVC solvent cement,trenching,refilling and testing of joints complete as per direction of Engineer in Charge. | | | | | | |
| | External Work | | | | | | |
| a) | 50 mm nominal outer dia pipes | Metre | 20.00 | 475.70 | 9,514.00 | | |
| b) | 62.5 mm nominal inner dia pipes | Metre | 10.00 | 1,326.35 | 13,263.50 | | |
| | | | | | | | |
| 3.04 | Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : | | | | | | |
| a) | 50 to 80 mm nominal bore | Each | 1.00 | 630.15 | 630.15 | | |
| | | | | | | | |
| 3.05 | providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) | | | | | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | 25 mm nominal bore | Each | 6.00 | 372.95 | 2,237.70 | | |
| b) | 32 mm nominal bore | Each | 6.00 | 450.90 | 2,705.40 | | |
| c) | 40 mm nominal bore | Each | 4.00 | 546.05 | 2,184.20 | | |
| d) | 50 mm nominal bore | Each | 2.00 | 780.60 | 1,561.20 | | |
| e) | 65 mm nominal bore | Each | 2.00 | 1,073.25 | 2,146.50 | | |
| 3.06 | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main | | | | | | |
| a) | 50 mm nominal bore | Each | 1.00 | | | 600.00 | 600.00 |
| 3.07 | Providing and fixing unplasticised PVC connection pipe with brass unions: | | | | | | |
| a) | 45 cm length | | | | | | |
| a i) | 15 mm nominal bore | Each | 105.00 | 61.70 | 6,478.50 | | |
| 3.08 | Constructing masonry chamber 30x30x50 cm inside, in 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 mix (1 cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size) 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 | | | | | | |
| a) | With F.P.s bricks | Each | 2.00 | 884.70 | 1,769.40 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.09 | Constructing masonry chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100mm 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) 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 | | | | | | |
| a) | With F.P.s bricks | each | 2.00 | 5,251.80 | 10,503.60 | | |
| 3.10 | Painting CPVC/G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work | | | | | | |
| a) | 15 mm nominal outer dia pipes | Metre | 10.00 | 7.35 | 73.50 | | |
| b) | 20 mm nominal outer dia pipes | Metre | 200.00 | 8.65 | 1,730.00 | | |
| c) | 25 mm nominal outer dia pipes | Metre | 150.00 | 11.40 | 1,710.00 | | |
| d) | 32 mm nominal outer dia pipes | Metre | 100.00 | 13.45 | 1,345.00 | | |
| e) | 40 mm nominal outer dia pipes | Metre | 75.00 | 16.00 | 1,200.00 | | |
| f) | 50 mm nominal outer dia pipes | Metre | 50.00 | 18.80 | 940.00 | | |
| g) | 65 mm nominal outer dia pipes | Metre | 15.00 | | | 22.00 | 330.00 |
| 3.11 | Painting G.I. /CPVC pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality. | | | | | | |
| a) | 50 mm diameter pipe | Metre | 20.00 | 10.55 | 211.00 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|-----------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| b) | 65 mm diameter pipe | Metre | 10.00 | 12.95 | 129.50 | | |
| 3.12 | Providing and filling sand of grading zone V or coarser grade all-round the G.I./CPVC pipes in external work | | | | | | |
| a) | 50 mm diameter pipe | Metre | 20.00 | 61.40 | 1,228.00 | | |
| b) | 65 mm diameter pipe | Metre | 10.00 | 96.95 | 969.50 | | |
| 3.13 | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | | | | | | |
| | Treated water Tank and Untreated water tank | per litre | 19,000.00 | 6.10 | 115,900.00 | | |
| 3.14 | Providing and fixing C.P brass bib cock of approved quality confirming to IS:8931. | | | | | | |
| a) | 15 mm nominal bore | Each | 30.00 | 397.50 | 11,925.00 | | |
| 3.15 | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. | | | | | | |
| a) | 15 mm nominal bore | Each | 30.00 | 411.40 | 12,342.00 | | |
| 3.16 | Providing and fixing C.P. brass angle valve for basin mixer and geyser/cisterns points of approved quality conforming to IS:8931. | | | | | | |

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|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | 15 mm nominal bore | Each | 105.00 | 449.35 | 47,181.75 | | |
| 3.17 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to 18:8931. | | | | | | |
| a) | 15mm nominal bore. | Each | 30.00 | 426.55 | 12,796.50 | | |
| 3.18 | Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by municipal board complete with bolts,nuts rubber, inserions etc. (the tail plases if required will be paid seperatly) | | | | | | |
| a) | 80mm dia nominal bore | Each | 1.00 | 2,880.60 | 2,880.60 | | |
| 3.19 | Providing 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. | | | | | | |
| a) | 40 mm nominal bore, 206 mm long weighin not less than 690 gms | Each | 2.00 | 961.75 | 1,923.50 | | |
| b) | 50 mm nominal bore, 242 mm long weighin not less than 1240 gms | Each | 2.00 | 1,391.50 | 2,783.00 | | |
| 3.20 | Cutting holes upto 30x30 cm in walls including making good the same | | | | | | |
| a) | with common burnt clay F.P.S.(non modular) bricks | Each | 20.00 | 152.00 | 3,040.00 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.21 | Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof | Each | 20.00 | 143.95 | 2,879.00 | | |
| 3.22 | Extra for providing wash basin mixer pillar tap in place of normal pillar tap | Each | 20.00 | | | 1,021.00 | 20,420.00 |
| 3.23 | Providing & fixing full way lever operated forged brass ball valve of brass body with forged brass hard chrome plated steel ball tested to a pressure not less than 10 Kg / sqcm with threaded / flanged joints complete with nuts, bolts, gaskets, washers etc. | | | | | | |
| a) | 15 mm diameter | Each | 6.00 | | | 240.00 | 1,440.00 |
| b) | 20 mm diameter | Each | 18.00 | | | 332.00 | 5,976.00 |
| 3.24 | Providing and fixing mosquito proof coupling of approved Municipal design for scour and vent pipes for RCC overhead tanks complete in all respects | | | | | | |
| a) | 20 mm diameter | Each | 6.00 | | | 44.80 | 268.80 |
| b) | 25 mm diameter | Each | 2.00 | | | 50.00 | 100.00 |
| c) | 32 mm diameter | Each | 2.00 | | | 55.00 | 110.00 |
| d) | 40 mm diameter | Each | 2.00 | | | 60.20 | 120.40 |

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|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.25 | Providing & fixing 9 mm thick thermal insulation tubing of elastomeric flexible material on hot water supply/return pipes having hermetic blistered closed cell structure of expanded synthetic rubber over pipes/ fitting as per manufacturer's specifications etc.complete. | | | | | | |
| a) | 15 mm to 25 mm diameter | Meter | 50.00 | | | 120.00 | 6,000.00 |
| b) | 32 mm to 50 mm diameter | Meter | 10.00 | | | 280.00 | 2,800.00 |
| 3.26 | Providing and fixing C.P. brass Overhead (Rain Fall) shower (100mm) with arm and wall flange complete including cutting and making good the walls wherever required. | Each | 12.00 | | | 1,383.00 | 16,596.00 |
| 3.27 | Providing and fixing C.P. brass lab sink pillar tap with long elbow operating lever handle of approved model and make complete in all respect (Aqua bath, Jaquar,Marc) | Each | 10.00 | | | 2,525.50 | 25,255.00 |
| 3.28 | Providing & fixing solid state fully hygienic no touch hand drier of approved make rated for continuous repeat usage with solid state time delay LSF protection, with independent ambient light level & seasonal control temperatures including providing necessary C.I./M.S. brackets painted with two or three coats of enamel paint of approved shade over a coat of primer, wiring cables from drier to plug, plug tops etc. complete including cutting and making good the walls wherever required. | Each | 2.00 | | | 16,065.00 | 32,130.00 |

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|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3.29 | Supplying, fixing, testing and commissioning of storage type water heater (Geyser) etc. with Stainless steel body , copper container , automatic thermostatic control electric element, pressure release valve, M.S. nuts and bolts etc. conforming to IS: 2082 | | | | | | |
| b) | 25 Litre Capacity | Each | 12.00 | | | 8,550.00 | 102,600.00 |
| 3.30 | Providing & fixing water storage cooler of approved make and brand with SS body having minimum flow rate of 40 ltrs. Per hour and storage capacity 80 ltrs. Complete in respects.(VOLTAS/ BLUE-STAR/ USHA SHRIRAM) | Each | 2.00 | | | 39,150.60 | 78,301.20 |
| 3.31 | Providing and fixing approved make & suitable model of R.O. plant (fully automatic operation)100ltrs. Per hour flow rate having capacity to treat the raw water and average recovery not less than 35% . The operating voltage to 230 volt AC +/- 10% alongwith required capacity on line SS pump of approved make (3HP minimum) and solenoid valves, dry run protection of pump, automatic tank level control, inbuilt auto flush timer for periodic flushing of membranes, storage tank (3.0 mm (minimum) thick S.S. 304 sheet) 1500 lts of suitable size and ita supporting structure, over voltage and over current protection with switch mode power supply system complete in all respects including installation and fittings with the following provisions: (IONIEXCHANGE/ KENT/AQUAPROCESS,Pantair) | | | | | | |
| a) | 10 micron polypropylene sediment pre filter | | | | | | |

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|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| b) | 10 micron bacteriostatic activated carbon block on line micron filter with 5 micron rating | | | | | | |
| c) | Required Nos. and size of reverse osmosis memberane with 0.0001 micron pore size energy saving poly amide type | | | | | | |
| d) | UV lamp of minimum capacity 100LPH and minimum lamp wattage 15W | | | | | | |
| e) | MS powder coated frame efficient of TDS removal more than 90%. Antiscalant dosing and acid dosing system for self flushing/cleaning.Pressure switches and gauges, pH correction dosing system, Digital TDS meter, Digital pH meter, electric panel and necessary instrumentation included Rotameter.MS structure and fibre glass sheet weather protection cover as per site condition. | Each | 2.00 | | | 100,000.00 | 200,000.00 |
| 3.32 | Supplying, installing, testing and commissioning vertical on line multi stage centrifugal pumping set with mechanical seal, C.I. volute and SS impeller & SS shaft connected to a TEFC induction motor of suitable HP for 415 volts, 3 phase, 50 cycles A.C. supply with 150 mm dia pressure gauge with SS/gunmetal isolation cock, vibration eliminating pads, base plate wiring upto panel and equipment for water level controller to start and stop the pump automatically at predecided levels of the water in the tank with provision of protection for dry run etc. complete in all respect (The shop drawing or the pumps along with its characteristics curves, model and technical data etc. are to be submitted for approval before purchase of pump). including starter and panel complete | | | | | | |

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|--|---|------|------------|--------------------|-------------------|-------------|-------------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | Domestic water pumps (Treated water transfer pump to terrace tank) | | | | | | |
| | Capacity 75 lpm | | | | | | |
| | Head 25 M | Each | 2.00 | | | 35000.0 | 70000.0 |
| b) | Domestic water pumps (Raw water Transfer pump to terrace tank) | | | | | | |
| | Capacity 75 lpm | | | | | | |
| | Head 25 M | Each | 2.00 | | | 35000.0 | 70000.0 |
| | SUB TOTAL(Water Supply) | | | | 529,448.00 | | 655,547.40 |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.00 SEWARAGE & DRAINAGE | | | | | | | |
| 4.01 | Providing laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the pro-portion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete. | | | | | | |
| a) | 100 mm diameter | Metre | 28.00 | 150.10 | 4,202.80 | | |
| 4.02 | Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design: | | | | | | |
| a) | 100 mm diameter S.W. pipe/RCC NP2 | Metre | 28.00 | 496.90 | 13,913.20 | | |
| b) | 150 mm diameter S.W. pipe/RCC NP2 | Metre | 200.00 | 607.70 | 121,540.00 | | |
| c) | 250 mm diameter S.W. pipe/RCC NP2 | Metre | 50.00 | 819.20 | 40,960.00 | | |
| 4.03 | Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating, brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:. | | | | | | |
| a) | 150x100mm size P type | | | | | | |
| a.i) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Each | 14.00 | 1,280.00 | 17,920.00 | | |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.04 | Providing and laying non-pressure NP2 class (light duty) R.C.C. 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 | | | | | | |
| a) | 150 mm dia R.C.C. pipe | Metre | 200.00 | 254.50 | 50,900.00 | | |
| b) | 250 mm dia R.C.C. pipe | Metre | 50.00 | 342.45 | 17,122.50 | | |
| 4.05 | Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 (1cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, and making channels 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. | | | | | | |
| a) | Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm 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): | | | | | | |
| a i) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Each | 20.00 | 7,061.70 | 141,234.00 | | |
| 4.06 | Extra depth for manholes | | | | | | |
| a) | Size 90 x 80 cm | | | | | | |

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|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a i) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Metre | 2.00 | 4,061.70 | 8,123.40 | | |
| 4.07 | Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (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: | | | | | | |
| a) | 0.91 m deep with S.F.R.C. 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 182kg., fixed in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) : | | | | | | |
| a i) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Each | 4.00 | 7,033.25 | 28,133.00 | | |
| 4.08 | Extra depth for circular type manhole 0.91m dia (at bottom) with beyond 0.91m to 1.67 m | | | | | | |
| a) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Metre | 0.50 | 3,498.25 | 1,749.13 | | |

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|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.09 | 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 mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design. | Each | 57.00 | 256.75 | 14,634.75 | | |
| 4.10 | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete (including obtaining approval from DJB/Municipal corporation) | | | | | | |
| a) | For pipes 100 to 250 mm dia | Each | 1.00 | 275.00 | 275.00 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.11 | Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : | | | | | | |
| a) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Each | 8.00 | 3,193.50 | 25,548.00 | | |
| 4.12 | Constructing brick masonry open surface drain including factory made perforated RCC cover with edge protected with MS plate of 3 mm thick with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including earth excavation, 10cm thick bed concrete 1:5:10 (1 cement: 5 fine sand :10 graded stone aggregate 40mm nominal size) and 25mm thick cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 12.5 mm nominal size) for filling hunches including 12mm cement plaster 1:4 (1 cement:4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard design. | | | | | | |
| | 25cm drain 30cm average depth | | | | | | |
| a) | With F.P.S bricks | Metre | 200.00 | | | 1,800.00 | 360,000.00 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.13 | Constructing septic tank, of size 5.0mx2.0mx3.0m approx. height(Height to be fixed as per site requirement i.e. below invert level of last manhole (1.5 m water depth) , in RCC M20, 175 mm thick (minimum) walls and 400 mm (minimum) base slab all as per detail design including all excavation, 20 cm thick bed concrete in 1:4:8 (one cement: 4 fine sand: 8 stone aggregate 40 mm) cement plaster 1:3 (one cement :3 coarse sand) with a floating coat of neat cement, top slab in RCC M20, including centring, shuttering and steel work, also providing and fixing two nos.D.I. manhole cover & frame of size 560mm dia.(medium duty, lockable type) and cost of 75mm dia C.I. vent pipe upto 3 m height with C.I. Ventilating Cowl and providing & fixing 150 mm dia SW tees for inlet and outlet, C.I Rungs@300 mm c/c all complete in every respect as per drawing and as directed. The agency has to provide the shop drawings (structure and PHE) as per IS requirements and obtain the approval from HSCC. | Each | 1.00 | | | 75000.0 | 75,000.00 |
| 4.14 | Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. | | | | | | |
| a) | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | Each | 2.00 | 15,228.15 | 30,456.30 | | |
| | | | | | | | |

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|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4.15 | Supply, installing, testing and commissioning vertical fully floodable type submersible sewage pump of non-corrosive material with shredder/cutter in close coupled design single stage, suitable for handling minimum 20 mm dia solids for transferring raw sewer from sump to outside the building with float switch for automatic start and stop arrangement with panel and wiring, chain and pulley, mechanical seal complete in all respect as per instruction of the Engineer in charge. (The shop drawing or the pumps along with its characteristics curves, model and technical data etc. are to be submitted for approval before purchase of pump).Star delta suitable starter complete in all respect for automatic/manual operation of pump,start and stop push button contactor with required overload production and single phase preventor.Electicl panal complet as per instruction of the Engineer in charge | | | | | | |
| | Material of Construction (M.O.C): Corrosion Resistant in general : Casing — Cast Iron | | | | | | |
| | : Impeller — Ductile cast iron | | | | | | |
| | : Bearings — Anti friction, prelubricated ball bearings, packed with grease for life. | | | | | | |
| | Motor: — Dry Motor with built in over load protection | | | | | | |
| | Protection - IP68. | | | | | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------------|-------------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Insulation Class - F | | | | | | |
| | Duty of each pump | | | | | | |
| i) | 100 LPM against 5 M head (Sewage pump) | Each | 1.00 | | | 40000.0 | 40,000.00 |
| ii) | Electicl panal cable,etc complete as per instruction of the Engineer in charge | Set | 1.00 | | | 40000.0 | 40,000.00 |
| | SUB TOTAL(SEWERAGE AND DRAINAGE) | | | | | 516,712.08 | 515,000.00 |

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|--|---|-------|------------|--------------------|------------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 5.00 EARTH WORK | | | | | | | |
| 5. 01 | Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation,trenches or drains(not exceeding 1.5m in width or 10 sqm on plan) ,including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m | | | | | | |
| a) | All kinds of soil | cum | 44.00 | 130.80 | 5,755.20 | | |
| 5. 02 | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and 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 a lead of 50 m: | | | | | | |
| a) | All kinds of soil | | | | | | |
| i) | Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia | metre | 278.00 | 165.60 | 46,036.80 | | |
| 5.03 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m | cum | 12.00 | 83.80 | 1,005.60 | | |
| SUB TOTAL(EARTH WORK) | | | | | 52,797.60 | | |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6.00 EXTERNAL WATER SUPPLY | | | | | | | |
| 6.01 | Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and 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 a lead of 50 m : | | | | | | |
| a) | All kinds of soil | | | | | | |
| a.ii) | Pipes, cables etc, not exceeding 80 mm dia but not exceeding 300 mm dia | metre | 200.00 | 165.60 | 33,120.00 | | |
| 6.02 | Providing and fixing gun metal non-return valve of approved quality (screwed end) | | | | | | |
| a) | 100 mm nominal bore | | | | | | |
| a.i) | Horizontal | each | 2.00 | | | 3500.0 | 7000.0 |
| 6.03 | Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : | | | | | | |
| a) | 100 mm diameter | | | | | | |
| a.i) | Class I | each | 4.00 | 3068.35 | 12,273.40 | | |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6.04 | Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm 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 20mm 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 : | | | | | | |
| a) | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 2.00 | 5251.80 | 10,503.60 | | |
| 6.05 | Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality : | | | | | | |
| a) | 20 mm diameter pipe | metre | 20.00 | 5.15 | 103.00 | | |
| d) | 100 mm diameter pipe | metre | 100.00 | | | 50.0 | 5000.0 |
| 6.06 | Providing and filling sand of grading zone V or coarser grade all-round the G.I./CPVC pipes in external work | | | | | | |
| a) | 20 mm diameter pipe | metre | 20.00 | 55.50 | 1,110.00 | | |
| b) | 100 mm diameter pipe | metre | 100.00 | 105.80 | 10,580.00 | | |
| 6.07 | Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required: | | | | | | |
| a) | 20 mm nominal bore | each | 2.00 | 282.9 | 565.80 | | |
| b) | 100 mm diameter pipe | each | 2.00 | | | 2700.0 | 5400.0 |

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|--|---|----------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 6.08 | Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if required will be paid separately): | | | | | | |
| a) | 50 mm dia | each | 1.00 | 4018.15 | 4,018.15 | | |
| 6.09 | Providing and laying D.I. specials of class k-12 suitable for push-on jointing as per IS:9523 | | | | | | |
| a) | Upto 600 mm dia | quintal | 10.00 | 13,958.95 | 139,589.50 | | |
| 6.10 | Providing push-on-joints to Centrifugally (Spun) Cast Iron pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket | | | | | | |
| a) | 150mm dia pipes | joint | 86.00 | 79.05 | 6,798.30 | | |
| 6.11 | Providing and laying S&S Centrifugally Cast (Spun)/Ductile Iron pipes confirming to IS:8329: | | | | | | |
| a) | 150 mm dia Ductile Iron Class k-7 pipes | metre | 200.00 | 1,229.05 | 245,810.00 | | |
| 6.12 | Disinfecting C.I./D.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory | | | | | | |
| a) | 150 mm diameter C.I./D.I. pipe | 100metre | 2.00 | 863.55 | 1,727.10 | | |
| 6.13 | Providing and fixing puddle flanged including 60 cm long GI pipe piece welded/threaded with MS plates 450x450x6 mm thick with both end screwed/flanged. | | | | | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------------|-----------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | For 80 mm dia pipe | Each | 2.00 | | | 950.00 | 1900.0 |
| b) | For 100 mm dia pipe | Each | 4.00 | | | 1200.00 | 4800.0 |
| 6.14 | Providing and fixing suitable G.I. vent pipe upto 1m high Class-B (medium quality) with fittings complete as per drawing and as directed. | | | | | | |
| a) | 100mm Dia | Each | 4.00 | | | 1200.00 | 4800.0 |
| 6.15 | Providing and fixing double seal type D.I. Manhole cover of 560 mm clear internal diameter of over all heavy duty with locking arrangement complete in all respects. | Each | 4.00 | | | 7500.00 | 30000.0 |
| 6.16 | Providing and fixing garden hydrant of approved quality and make complete in all respect | each | 4.00 | | | 450.0 | 1800.0 |
| 6.17 | Providing and fixing G.I. pipes class B complete with G.I. fittings and clamps, including cutting and making good the walls etc. | | | | | | |
| a) | 20 mm dia nominal bore | Metre | 20.00 | 188.05 | 3,761.00 | | |
| a) | 100 mm dia nominal bore | Metre | 200.00 | | | 1243.0 | 248600.0 |
| SUBTOTAL (EXTERNAL WATER SUPPLY) | | | | | | 469,959.85 | 309300.0 |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 7.00 | RAIN WATER PIPING | | | | | | |
| 7.01 | Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams. | Each | 30.00 | 32.75 | 982.50 | | |
| 7.02 | Providing and fixing rain water ,soil, waste and vent pipes. | | | | | | |
| a) | 100 mm dia. | | | | | | |
| a i) | Centrifugally cast (spun) iron socketed pipe as per IS:3989 | Metre | 150.00 | 857.30 | 128,595.00 | | |
| b) | 150 mm dia pipe as per IS:3989 | Metre | 80.00 | | | 2,100.00 | 168000.0 |
| 7.03 | Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm 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. | | | | | | |
| a) | for 100 mm dia. pipe | Each | 60.00 | 112.50 | 6,750.00 | | |
| b) | for 150 mm dia pipe | Each | 30.00 | | | 131.6 | 3948.0 |
| 7.04 | Providing and fixing plain bend of required degree. | | | | | | |
| a) | 100 mm | | | | | | |
| a ii) | Sand cast iron S&S as per IS:3989 | Each | 20.00 | 296.35 | 5,927.00 | | |
| b) | 150 mm | Each | 10.00 | | | 1065.0 | 10650.0 |
| 7.05 | Providing and fixing heel rest sanitary bend. | | | | | | |
| a) | 100 mm dia | | | | | | |
| a.ii) | sand cast iron S&S as per IS-3989 | Each | 20.00 | 342.80 | 6,856.00 | | |

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|--|---|-------|------------|--------------------|-------------------|-------------|-----------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| b) | 150 mm dia | Each | 10.00 | | | 1211.0 | 12110.0 |
| 7.06 | Providing and fixing collar | | | | | | |
| a) | 100 mm | | | | | | |
| a.ii) | Sand cast iron S&S as per IS-3989 | Each | 40.00 | 238.25 | 9,530.00 | | |
| c) | 150 mm | Each | 20.00 | | | 930.0 | 18600.0 |
| 7.07 | Providing lead caulked joints to sand cast iron /centrifugally cast (spun) iron pipes and fittings of diameter: | | | | | | |
| a) | 100 mm | Each | 105.00 | 207.85 | 21,824.25 | | |
| b) | 150 mm | Each | 54.00 | | | 401.0 | 21654.0 |
| 7.08 | Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate, grey, or buff etc. over a coat of primer (of approved quality) for new work: | | | | | | |
| a) | 100 mm diameter pipe | Metre | 150.00 | 28.75 | 4,312.50 | | |
| c) | 150 mm diameter pipe | Metre | 80.00 | | | 60.0 | 4800.0 |
| | SUB TOTAL(Rain Water pipe & fitting) | | | | 184,777.25 | | 239762.0 |

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|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.00 | BOREWELL(1 No) | | | | | | |
| 8.01 | Drilling by suitable rig as per IS : 2800-1979 (percussion or combination rig) or Reverse Rotary to suit site condition from ground level in all kind of soils and weathered rock including boulders (excluding rock) diameter of bore 300mm including carry out hydrological survey report before boring & getting the approval based on Hydrogeological survey before start of the work.Also getting approval from local authority if any required | | | | | | |
| a) | 0-30m | metre | 30.00 | | | 300.0 | 9000.0 |
| b) | 30-60m | metre | 30.00 | | | 400.0 | 12000.0 |
| c) | 60-90m | metre | 30.00 | | | 550.0 | 16500.0 |
| d) | 90-120 m | metre | 30.00 | | | 700.0 | 21000.0 |
| 8.02 | Extra additional for drilling in Ordinary Rock if any found | metre | 25.00 | | | 1200.0 | 30000.0 |
| 8.03 | Extra additional for drilling in Hard Rock if any found | metre | 25.00 | | | 1500.0 | 37500.0 |
| 8.04 | Providing and lowering uPVC casing/housing pipe 150mm dia. with wall thickness 10 mm conforming to IS :12818 including sockets of standard design. | metre | 70.00 | | | 1200.0 | 84000.0 |
| 8.05 | Providing & fixing uPVC screen/slotted pipe with 1.5 mm to 3mm (slots as per strata condition) including sockets of standard design as per IS: 12818/1992. | | | | | | |
| a) | 150 mm dia uPVC socketed pipe with wall thickness 10.0 mm | metre | 80.00 | | | 1500.0 | 120000.0 |
| 8.06 | Providing and fixing in position threaded iron cap with locking arrangement of approved design to prevent foreign matters getting into the bore-hole as required. | Each | 1.00 | | | 5500.0 | 5500.0 |

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|--|---|----------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 8.07 | Providing and laying rounded pea gravel washed & served 3 to 6 mm nominal boreas per relevant ISI code. | Cum | 16.00 | | | 2000.0 | 32000.0 |
| 8.08 | Providing and laying cement concrete 1:2:4 mix for sanitary sealing of well at top. | Cum | 1.00 | | | 3500.0 | 3500.0 |
| 8.09 | Supplying, lowering and fixing in position reducer ,PVC bail plug with "U" hooks as per IS:2800-1964. | Each | 1.00 | | | 1500.0 | 1500.0 |
| 8.10 | Development of Tubewell including testing of yield depression & quality of water (for all parameters of potable water), contractor to obtain certificate for quality for water from Competent Authority approved by client or Engineer- In -Charge. | | | | | | |
| a) | Development of Tube well by high capacity air compressor till the clear water discharge but not more than 100 hours. | per hour | 80.00 | | | 300.0 | 24000.0 |
| b) | Additional development of Tube well by high an over pumping unit till complete development of tube well does not clear by maximum 100 hours air compressor | per hour | 50.00 | | | 450.0 | 22500.0 |
| 8.11 | Tranportation, mobilisation and demobilisation or drilling equipment and ancillary equipment to site including clearing and cleaning the site after completion of work. | set | 1.00 | | | 7000.0 | 7000.0 |
| 8.12 | Providing and fixing brass full way valve with C.I. wheel of approved make, tested to a pressure of 21 kg/sqcm. | | | | | | |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | 80 mm dia | Each | 1.00 | | | 1106.3 | 1106.3 |
| 8.13 | Providing and fixing gunmetal non return valve of approved make tested to a pressure of 21kg/sqcm. | | | | | | |
| a) | 80 mm dia | Each | 1.00 | | | 1106.3 | 1106.3 |
| 8.14 | Providing & fixing G.I. pipes (heavy class)confirming to IS with special fittings in external works including earthwork ,excavationin all kinds of soil including ordinary rock,refilling, painting pipes & fitting complete in all respects. | | | | | | |
| | 80 mm dia | Metre | 100.00 | | | 1334.0 | 133400.0 |
| 8.15 | Providing & filling sand of grading zone V or coarser grade all around GI pipe in external work | | | | | | |
| | 80 mm dia | Metre | 100.00 | | | 110.0 | 11000.0 |
| 8.16 | Submersible pumps | | | | | | |

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|--|--|------|------------|--------------------|------------|-------------|-----------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Providing and installing submersible pump and electrical panel suitable for 6" dia casing of bore with SS impeller, high tensile SS shaft, copper wound squirrel cage wet type induction motor 2880 rpm, 415 V, 50 Hz, 3 phase A.C. supply, conforming to ISS: 8034-1976, capacity 250-500 litre per minute at 50-120 m head along with a directly coupled submersible type squirrel cage electric induction 5 H.P(minimum) . motor suitable for operation on 400 V, 3 phase, 50 c.p.s. A.C. supply, water lubricated bearings and provided with pivoted segment type thrust bearings to withstand non-vertical lead with minimum wear and tear and duly fitted with device to take up the expansion of water with heating of motor, including supply, testing and commissioning of electrical panel from the same manufacturer, complete with all accessories in all respects. The contractor to obtain approval for model and make of pumpset & suitable Electrical panel after having yield report of fully developed tube well and submit actual bore strata chart. | | | | | | |
| | including supplying laying and fixing water proof PVC insulated flat submersible cable 3x10 sqmm with end termination with its accessories. complete in all respect as required. 1 No. 3 Phase, fully automatic star-delta starter, type - II of 15 HP with thermal overload relay, contactor, Timer, Push Buttons and Auto-manual selector switch etc complete as required. | set | 1.00 | | | 223458.0 | 223458.0 |
| 8.17 | Carrying out Electrical logging of Borewell before lowering of pipe for analysiing of water quality including Electrical logging report, calculation etc. | Job | 1.00 | | | 10000.0 | 10000.0 |
| SUBTOTAL (BOREWELL) | | | | | | | 806070.6 |

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|--|---|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9.00 RAIN WATER HARVESTING(1NO.) | | | | | | | |
| 9.01 | Designing and Constructing of percolation pit cum perforated well 3000mm. dia upto 4000mm deep, 230 mm thick brick masonry work around upto 1.5 m deep with 75 class brick in cement mortar 1:4, 200 mm foundation concrete in 1:4:8 mix below brick work only, 150 mm thick precast removable RCC top slab with required steel reinforcement in cement concrete 1:2:4 mix, filled with coarse aggregate, SFRC covers, river pebbles of requisite size stone as shown in the drawing including centering and shuttering, as shown complete as per detailed drawings complete. | Each | 1.00 | | | 98048.6 | 98048.6 |
| 9.02 | Drilling as per IS : 2800-1964 (with percussion or combination rig) from ground level in all kind of soils including boulders (excluding rock) diameter of bore 450mm. | | | | | | |
| a) | 0-50m | Metre | 30.00 | | | 700.0 | 21000.0 |
| 9.03 | Extra for drilling in Ordinary Rock | Metre | 5.00 | | | 1200.0 | 6000.0 |
| 9.04 | Extra for drilling in Hard Rock | Metre | 5.00 | | | 1500.0 | 7500.0 |
| 9.05 | Providing and lowering of 200 mm dia uPVC blank/ slotted pipe with ribs, special fittings, jointing conforming to IS 12818 - 1992. | Metre | 30.00 | | | 1200.0 | 36000.0 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------|-----------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9.06 | Constructing bar screen / settling tank, of sizes 4500x2500 with suitable depth up to 2.0 m in 1: 4 Cement Mortar (one cement : 4 coarse sand) height as per site requirement, in brick masonry 350mm thick walls upto water level and 230mm thick walls above water level & upto ground level, including all excavation, 20 cm thick bed concrete in 1:4:8 (one cement 4 fine sand 8 stone aggregate 40 mm), cement plaster 1:3 (one cement :3 coarse sand) with a floating coat of neat cement as inside finish , top slab in RCC 1:2:4, including centring, shuttering and steel work, also providing and fixing D.I. manhole cover & frame of size 605mm x 450mm of weight not less than 38 kg (frame + cover) and cost of 100mm dia C.I. vent pipe with C.I. Ventilating Cowl and suitable wire mesh provision for inlet, 115mm baffle walls extending 2/3 the width spaced@500mm c/c including finishing with 1:3 cement plaster 15mm thick with floating coat of neat cement slurry , all complete in every respect as per drawing and as directed to suit site condition. | Each | 1.00 | | | 136652.3 | 136652.3 |
| SUBTOTAL (RAIN WATER HARVESTING) | | | | | | | 305200.9 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|---|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.00 | SOLAR WATER HEATING SYSTEM & RECIRCULATION OF HOT WATER SYSTEM | | | | | | |
| 10.01 | Supply, installation, testing and commissioning of solar water heating system, Thermosyphon type, all complete based on Flat plat collector system (Cu-Cu Type only) comprising of but not limited to the following: | | | | | | |
| a) | Requisite number of Flat plate collectors of 2 sq. mtr. collector area. Collector absorber plate to be made of copper tubes & copper fins only | | | | | | |
| b) | Hot water storage tank made of stainless steel 304- food grade quality with 100 mm Glass wool insulation and cladding with 24 SWG Aluminum sheet. One temperature measuring device and suitable inlet, outlet and drain connections on the storage tank to be provided. | | | | | | |
| c) | Heat Exchanger - Cage type Internal Heat Exchanger made of SS pipes shall be provided inside the Solar Tank. Heat exchangers shall have min. heat transfer area of 0.24 sq. mtrs. for every 100 LPD calacity. Suitable make up tank for the Heat Exchanger circuit shall also be provided | | | | | | |
| d) | Interconnecting system piping shall consist of B Class insulated GI pipes covered with 50mm thick glasswool & clad with 26 SWG Aluminium Sheet. All Gate/Ball valves shall be of ISI make. | | | | | | |
| | | | | | | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| e) | Electrical control panel, cabling from panel to pumps shall be provided | | | | | | |
| f) | The solar collector shall be arranged on roof of building in such a way that shadow can be avoided and requisite number of MS support for collector/tanks of minimum 35x35x5 MS angle adequate for 150 Km/Hr wind speed. | | | | | | |
| g) | Solar water heating system based on Flat plat collector systemem technology with output capacity of as mentioned below with hot water at 60 degree centigrade having required Nos. solar collectors . As per complete item as per technical specification of make BHEL/TATA/EMMVEE. The system has to be installed by Manufacturers authorised distributors/approved specialised firms of Solar water heating of approved makeThe shop drawing of the systems shall be provided by the agency as per site condition obtain the proper efficiency The system shall be proccured after obtaining the approval of shop drawings from HSCC / Engineer-in-charge. The solar hot water will supply the hot water to all the geyser,in view of this provision the backup electrical heating system at terrace hot water tank will not be provided for non solar days. | | | | | | |
| i) | Solar System of Capcity 1500 Litre/day (With minimum 12 nos of Collect) of 2.0 Sqm area | each | 2.00 | | | 447711.0 | 895422.0 |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|--|--|-------|------------|--------------------|------------|-------------|---------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.02 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. | | | | | | |
| | Internal work- Exposed on wall | | | | | | |
| a) | 15 mm nominal outer dia pipes (SDR-11) | metre | 10.00 | 133.95 | 1,339.50 | | |
| b) | 20 mm nominal outer dia pipes (SDR-11) | metre | 50.00 | 157.15 | 7,857.50 | | |
| c) | 25 mm nominal outer dia pipes (SDR-11) | metre | 50.00 | 197.90 | 9,895.00 | | |
| d) | 32 mm nominal outer dia pipes (SDR-11) | metre | 25.00 | 252.65 | 6,316.25 | | |
| 10.03 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. | | | | | | |
| | Concealed work including cutting chases and making good the walls etc. | | | | | | |
| a) | 15 mm nominal outer dia pipes (SDR-11) | metre | 50.00 | 219.55 | 10,977.50 | | |
| b) | 20 mm nominal outer dia pipes (SDR-11) | metre | 25.00 | 243.95 | 6,098.75 | | |
| c) | 25 mm nominal outer dia pipes (SDR-11) | metre | 5.00 | 298.85 | 1,494.25 | | |

| Name of Work:BOQ of Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM | | | | | | | |
|---|--|------|------------|--------------------|------------------|-------------|-----------------|
| Sl. No. | Description of Item | Unit | Total qty. | DSR 2012 Rate (Rs) | Amount DSR | Market Rate | Market Amount |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 10.04 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): | | | | | | |
| a) | 25 mm nominal bore | each | 2.00 | 372.95 | 745.90 | | |
| b) | 32 mm nominal bore | each | 2.00 | 450.90 | 901.80 | | |
| 10.05 | Providing & fixing 9 mm thick thermal insulation tubing of elastomeric flexible material having hermetic blistered closed cell structure of expanded synthetic rubber over pipes/ fitting as per manufacturer's specifications etc.complete. | | | | | | |
| a) | 15 mm dia to 25 mm dia | each | 190.00 | | | 45.4 | 8626.0 |
| b) | 32 mm dia to 50 mm dia | each | 25.00 | | | 62.8 | 1570.0 |
| 10.06 | Providing and fixing gun metal ball valve of approved quality | | | | | | |
| a) | 15 mm nominal bore | each | 2.00 | | | 1797.8 | 3595.6 |
| b) | 20 mm nominal bore | each | 4.00 | | | 2479.6 | 9918.4 |
| SUBTOTAL(SOLAR WATER HEATING SYSTEM & RECIRCULATING SYSTEM) | | | | | 45,626.45 | | 919132.0 |
| Note: Based on the tender drawing the agency has to prepare the internal & external plumbing shop drawing and obtain the approval of the same before start of work | | | | | | | |
| End of plumbing BOQ | | | | | | | |

**PROJECT NAME: Proposed 50 bedded MCH wing for district female hospital at
Chattisgarh RMNCH Project under NRHM**

ABSTRACT OF COST

| S.No | DESCRIPTION OF WORK | DSR AMOUNT(Rs) | MARKET RATE AMOUNT(Rs) |
|-------------|--------------------------------------|-----------------------|-----------------------------------|
| | | | |
| 1 | FIRE FIGHTING | 79,042.60 | 1,368,253.80 |
| | Sub Total(Fire Fighting work) | 79,042.60 | 1,368,253.80 |

PROJECT NAME: Proposed 50 bedded MCH wing for district female hospital at Chattisgarh RMNCH Project under NRHM

Name of Works: BOQ of Fire Fighting Works

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|---|-------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.00 | FIRE FIGHTING SYSTEM | | | | | | |
| 1.01 | Providing, fixing joiting and testing of Heavy (class -C) G.I. pipes as per relevant IS :1239/4736 with special accessories like tees, elbow, gesket, flanges, flanged joints, rubber insertion nuts and bolts including earth work excavatin and trenching, wrapping pipekot 4mm thick 500mm width tar based plymaric corrosion protection tape or equivalent suitable to GI/ MS pipe line including applying uniform coat of cold pipekot primer complete 1 m below the ground level, refilling in layers not exeeding 20 cm in depth consolidated each deposited layer by ramming & watering complete in all respect as pe IS : 1022 (Under ground) | | | | | | |
| a) | 150 mm dia G.I. Pipe with flange joints (5.4 mm wall thickness) | Metre | 200.0 | | 3400.00 | | 680000.00 |
| b) | 80 mm dia G.I. Pipe with flange joints | Metre | 10.0 | | 1777.00 | | 17770.00 |
| | | | | | | | |
| 1.02 | Heavy class G.I. pipes conforming to IS with accessories like tees, elbows, flanged joints, rubber insertion, nuts, bolts or welded joints including fixing the pipe with suitable flat iron strip clamps/brackets, structural members, dash fastener , cutting hole and chases in walls, floor, R.C.C. slab etc. and making good the same, including painting pipes and fittings with a primer coat of steel primer and two coats of postal red enamel paint etc. complete as required. (All the fitting i.e. tee /elbow, Valve shall be joint the pumps will flanged joints) | | | | | | |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|--|-------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| a) | 200 mm dia (with Flanged joints) | Metre | 10.0 | | 3250.00 | | 32500.00 |
| b) | 150 mm dia (with Flanged joints) | Metre | 30.0 | | 1657.00 | | 49710.00 |
| c) | 100 mm dia (with Flanged joints) | Metre | 10.0 | | 1101.00 | | 11010.00 |
| d) | 80 mm dia | Metre | 20.0 | | 788.00 | | 15760.00 |
| 1.03 | Providing and fixing Single headed hydrants flanged inlet with 63 mm female instantaneous outlet of gunmetal complete with male blank caps, chains conforming to IS:5290 type A with stainless steel orifice plate (if required) to keep the pressure not more than 3.5 kg/sq.cm at any point. | Each | 7.0 | | 6823.00 | | 47761.00 |
| 1.04 | Providing 63mm dia 15 m long reinforced rubber lined hose pipe conforming to IS: 636-1992 Part-II with gunmetal male & female coupling wire wound with pipe as required. | Each | 6.0 | | 4611.00 | | 27666.00 |
| 1.05 | Providing and fixing 63mm dia 15 m long canvas hose pipe complete with gunmetal male & female coupling wire wound with the pipe The pipe shall confirm to IS: 4927. | Each | 8.0 | | 3790.00 | | 30320.00 |
| 1.06 | Providing and fixing Gunmetal branch pipe with 20mm dia nozzle conforming to IS:903. suitable for installation connections to hose coupling etc. as required. | Each | 7.0 | | 1745.00 | | 12215.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|--|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.07 | Providing and fixing Four way fire brigade connection housed in steel cabinet of size 900mm x 750mm x 400mm fabricated from 1.5mm thick M.S. sheet having lockable arrangement, openable glazed door with 4mm thick glass, including painting a coat of steel primer and two coats of postal red enamel paint, with necessary supports for the cabinet etc. with 150 mm dia. non return and butterfly valves complete in all respects. | | | | | | |
| a) | 4 Way - 150mm dia | Each | 1.0 | | 11712.00 | | 11712.00 |
| 1.08 | Providing and fixing Set of "Siamese" quadruplet instantaneous fire brigade connections comprising of two gunmetal instantaneous male inlet coupling 63mm dia with plug and cap, chain bends, tees etc for inlet to the static tank. | Each | 1.0 | | 14380.00 | | 14380.00 |
| 1.09 | Providing & Fixing 150 mm dia, 4 way suction coupling for firebrigade withdrawal of water from the fire tank | Each | 1.0 | | 14380.00 | | 14380.00 |
| 1.10 | Providing and fixing anodised glazed door shutter and frame of approved sections for Fire hose cabinet with dash fasteners (frame fabricated from 40 x 40 mm and shutter) 2100 mm high x 1200 mm wide x 600mm deep with locking arrangement, 4mm thick glass with beading including all accessories, complete as per drawing and as directed. The letters " HOSE CABINET" to be painted in red colour on the box complete in all respects. | Each | 3.0 | | 8500.00 | | 25500.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|---|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.11 | Providing and fixing Weather proof standard stand post type hose cabinet (900mm x 750 mm x 400 mm) out door type made of 1.5mm thick M.S. sheet having central opening glazed door with 4mm thick glass suitable for accommodating hydrants, 2 Nos. canvas hose pipe and branch pipe including necessary locking arrangements, painting one coat of primer and two coats of postal red enamel paint.. The shutters are to be lockable type. The words “ hose cabinet” to be painted on the box. | Each | 4.0 | | 3275.00 | | 13100.00 |
| 1.12 | Providing and fixing cast iron body IS: 210 FG 220 and double flange gear simple operation type butterfly valve conforming to IS: 13095 with SS304 disc and shaft NITNLE rubber replaceable seat of the following size complete with bolts, nuts, washers and rubber insertions as per specification. | | | | | | |
| a) | 150 mm dia | Each | 4.0 | | 5828.00 | | 23312.00 |
| b) | 80 mm dia | Each | 1.0 | | 2565.00 | | 2565.00 |
| c) | 200 mm dia | Each | 1.0 | | 7200.00 | | 7200.00 |
| 1.13 | Supplying, testing, installation & commissioning of pressure switches for pumps including necessary wiring upto the control panel. | Each | 4.0 | | 2014.00 | | 8056.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|--|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.14 | Constructing masonry chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement: 4 fine sand) for sluice valve, with C.I. surface box 100mm top diameter, 160mm bottom diameter and 180mm 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) 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. | | | | | | |
| | with F.P.S. bricks | Each | 2.0 | 9021.30 | | 18042.60 | |
| 1.15 | Supplying and Fixing First Aid Hose Reel , wall mounting swinging type complete with drum & bracket of MS construction, spray painted in Post office Red, conforming to IS 884/1995 with upto date amendments, complete with the following as required. | | | | | | |
| | 36 Meter long 20 mm dia water hose Thermoplastic (Textile reinforced) Type - 2 as per IS : 12585 | | | | | | |
| | 20 mm dia gun metal ball valve & nozzle. | | | | | | |
| | Drum and brackets for fixing the equipments on wall. | | | | | | |
| | Connection from riser with stop valve (gun metal) & M.S. Pipe | Each | 3.0 | | 6997.00 | | 20991.00 |
| 1.16 | Providing and fixing C.I. sluice valves (With cap) of approved quality complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) Class II | | | | | | |
| a) | 150 mm dia | Each | 2.0 | | 5200.40 | | 10400.80 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|---|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.17 | Supply, Installation, Testing and Commissioning of 100 mm dia Bourden type, Stainless Steel dial type Pressure Gauge including brass isolation valve and siphon pipe having caliberation of 0 - 16 Kg / cm ² . | Each | 5.0 | | 1196.00 | | 5980.00 |
| 1.18 | Supplying and Fixing of Fire Man's axe with heavy insulated rubber as per standard conforming to IS 926 | Each | 3.0 | | 454.00 | | 1362.00 |
| 1.19 | Supplying and Fixing vane type waterflow switch with contacts suitable for installation on 50 mm to 150 mm dia pipeline for a service pressure upto 20 Kg/sq.cm. | Each | 4.0 | | 3788.00 | | 15152.00 |
| 1.20 | Fabricating, Supplying, Installation, Testing and Commissioning Air Vessel of continuous welded construction with flanged discharge header on the top of each riser fabricated out of 10 mm thick dished ends and 8 mm thick MS sheet, Air Release Valve complete with suitable drain arrangement with 25 mm dia gun metal wheel valve complete with all accessories etc. as required of the following sizes | | | | | | |
| a) | 1.2 Metre high and 250 mm dia | Each | 1.0 | | 9601.00 | | 9601.00 |
| 1.21 | Supply, Installation, Testing and Commissioning External Yard Hydrant Stand Post comprising of GI pipe 80 mm dia (heavy duty C class) from existing ringmain to about 1 meter above ground level and Single Headed Yard Hydrant Valve with 80 mm dia flanged inlet, intantaneous gunmetal coupling of 63 mm dia with cast iron wheel ISI marked, conforming to IS : 5290 (Type A), with ABS cap and chain etc.complete with all accessroies as required. | Each | 4.0 | | 11500.00 | | 46000.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|---|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.22 | Providing and placing on terrace polyethylene water storage tank ISI : 12701 MARKED indicating the BIS license No with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. | Ltrs | 10000.0 | 6.10 | | 61000.00 | |
| 1.23 | Supply, erection, testing & commissioning of exit glow sign board of size 200mm x 350 mm wall mounting signage consisting of photo luminescent coating on acrylic cover | Each | 6.0 | | 1031.00 | | 6186.00 |
| 1.24 | Providing and fixing fire extinguisher of carbon dioxide type consisting of brand new high pressure steel cylinder bearing IS: 7285 mark and having the approval of controller of explosives Nagpur, wheel type valve bearing IS:3224/15683 mark internal discharge tube, 1 meter long high pressure discharge hose, non conducting horn, suspension bracket, fully charged bearing IS: making fixed to wall as directed. | | | | | | |
| a) | 4.5kg capacity cylinder | Each | 3.0 | | 6900.00 | | 20700.00 |
| 1.25 | Providing and fixing 9 liters capacity fire extinguisher water type gas pressure conforming to IS marking, fixed to wall.IS:15683 | Each | 3.0 | | 1642.00 | | 4926.00 |
| 1.26 | Providing and fixing ABC type fire extinguishers complete in all respects. IS:15683 ISI marked | | | | | | |
| a) | Capacity 6.0 Kg. | Each | 3.0 | | 2200.00 | | 6600.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|--|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.27 | Providing and fixing ABC type automatic modular ceiling mounted type extinguisher with body powder coated 10 lts. Capacity min. 300 mm dia 68 degree centigrade bul temperature complete in all respect of approved make and model | Each | 1.0 | | 8000.00 | | 8000.00 |
| 1.28 | Fabricating, Supplying, Installation, Testing and Commissioning Air Vessel of continuous welded construction with flanged discharge header in pump house fabricated out of 10 mm thick dished ends and 8 mm thick MS sheet, Air Release Valve, complete with drain arrangement with 25 mm dia gun metal wheel valve complete with all accessories etc. as required of the following sizes | | | | | | |
| a) | 2 Metre high and 450 mm dia suitable to operate Jockey Pump, Main Fire Pump & Diesel Engine Driven Fire Pump | Each | 1.0 | | 24204.00 | | 24204.00 |
| 1.29 | Providing and fixing C.I. non-return valve complete with gunmetal seat, bolts, nuts washer & rubber insertions as required conforming to IS:5312. | | | | | | |
| a) | 150 mm dia | Each | 2.0 | | 25500.00 | | 51000.00 |
| b) | 80 mm dia | Each | 1.0 | | 9700.00 | | 9700.00 |
| 1.30 | Providing & fixing puddle flanged including 40 cm long GI pipe piece welded / threaded with MS plates 450x450x6mm thick with both end screwed / flanged | | | | | | |
| a) | For 80 mm dia pipe | Each | 2.0 | | 1345.00 | | 2690.00 |
| b) | for 150 mm dia pipe | Each | 2.0 | | 1986.00 | | 3972.00 |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|---------|--|------|------------|-------------------|-----------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1.31 | Supplying, installing, testing and commissioning of electric motor driven type automatic pressurisation, pump set suitable for automatic operation of terrace down comer and consisting of the following (as per CPWD specifications Part V-1985) for fire fighting and its amendmends). | | | | | | |
| a | Fire pump with stainless steel impeller CI casing, SS shaft shall be horizontal end suction centrifugally type having a capacity of 900 LPM against a total head of 25m so as to ensure a minimum pressure of 3.0 kg/sqm at the highest and farthest out at the specified flow complete with necessary strainer with foot valve in suction side and pressure gauge on the delivery side including bypass arrangement for periodic testing of the working of the pumping set as required. The pump shall be provided with mechanical seals.(Including taking necessary approval of complete fire fighting scheme from local fire authority before and after start of work) {Agency also has to submit characterstic curve of the pumps, model & other technical data for approval before placing the order} | | | | | | |
| b | Squirrel cage AC induction motor suitable fot operation of 415 V ,+/-10%, 3 phase 50 HZ, AC supply and of minimum 7.5 HP,1500 RPM for the above pump with flexible coupling as per spwcification and conforming to IS 325-1978 and shall be TEFC type only | | | | | | |
| c | Common base plate fabricated from mild steel channel ot castiron type | | | | | | |
| d | 1 No. 3 Phase, fully automatic DOL starter, type - II of 10 HP with thermal overload relay, contactor, Timer, Push Buttons and Auto-manual selector switch etc complete as required. | | | | | | |

| Item No | Description Of Item | Unit | Total Qty. | DSR 2012 Rate(Rs) | Market Rate(Rs) | Amount DSR(Rs) | Amount Mkt(Rs) |
|--|---|------|------------|-------------------|-----------------|-----------------|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| e | Suitable cement concrete pump foundation with vibration damping arrangement with cushy foot mounting as required and having provision of suitable weather protection cover. | set | 1.0 | | 75872.00 | | 75872.00 |
| Sub Total | | | | | | 79042.60 | 1368253.80 |
| Note: Based on the tender drawing the agency has to prepare the internal & external Fire fighting shop drawing and obtain the approval of the same before start of work | | | | | | | |
| End of fire fighting BOQ | | | | | | | |

| SUMMARY OF COST ESTIMATE FOR ELECTRICAL WORKS OF NRHM 50 Bed Hospital Chattisgrah | | | |
|--|--|---------------|---------------------------|
| S.No. | DESCRIPTION | Amount | In Figure (In Rs.) |
| 1 | SUBHEAD 1: H.T. SUB STATION | | 1450743 |
| 2 | SUB HEAD 2: LT PANELS. | | 790000 |
| 3 | SUB HEAD 3 : DG SET & ACCESSORIES | | 992400 |
| 4 | SUB HEAD- 4: MCB DISTRIBUTION BOARDS. | | 195533 |
| 5 | SUB HEAD 5: WIRING | | 3189896 |
| 6 | SUB HEAD: 6 - LIGHT FIXTURE AND FANS | | 1413018 |
| 7 | SUB HEAD 7 : FIRE DETECTION AND ALARM | | 633860 |
| 8 | SUB HEAD 8: LT CABLES | | 1030918 |
| 9 | SUB HEAD 9: EARTHING SAFETY EQUIPMENT AND MISC. ITEMS | | 565778 |
| 10 | SUB HEAD 10: OUT DOOR LIGHTING | | 167600 |
| | GRAND TOTAL FOR ALL ELECTRICAL WORKS | | 10429746 |

COST ESTIMATE FOR ELECTRICAL WORKS OF 50 Bed HOSPITAL CHATTISGARH

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|---|-------|-----|-----------------------------|---------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | SUBHEAD 1: H.T. SUB STATION | | | | |
| 1.00 | SUBSTATION EQUIPMENTS | | | | |
| 1.01 | HT Panel : | | | | |
| | Supply, erection, testing and commissioning of 1 VCB panel Board with expandable type , 630 A ,11 kV, 3 Phase, 50 Hz., metal clad, dead front, 350 MVA rupturing capacity Vacuum Circuit Breaker Incoming & Outgoings as per the detailed specifications and drawings including connections etc. including door interlocking and suitable Power Pack as required. | | | | |
| | i) 1 No. VCB having following | | | | |
| | 1 No. 630A, 11kV, 3 Phase, 50Hz., metal clad, dead front, 350 MVA rupturing capacity, Fully Drawout type, Vacuum Circuit Breaker (VCB) | | | | |
| | 1 set of 11kV/110V Potential Transformers with HRC fuses | | | | |
| | 1 Set of Phase indicating lamps with HRC fuses | | | | |
| | 1 No.Digital voltmeter . | | | | |
| | 1 set of indicating lamps to indicate OPEN, CLOSE, TRIP, SPRING CHARGED, TRIP CIRCUIT HEALTHY | | | | |
| | Push button for ON, OFF,TRIP&TRIP circuit healthy | | | | |
| | 1 set of 30/15/5-5A Current Transformer for metering and protection. | | | | |
| | 1 No.digital Amps ammeter . | | | | |
| | 1 Set of CDG 61 (2 No. O/C, 1 No. E/F) relay | | | | |
| | Digital frequency meter | | | | |
| | Trip circuit supervision relay,Auxiliary relays with shunt trip coil | | | | |
| | 1 No. Master Trip relay | | | | |
| | 1 No. Digital Power factor meter | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|---------------|
| | HT Panel as mentioned above | Set | 1 | 500000 | 500000 |
| | TRANSFORMER : | | | | |
| 1.02 | Supply, erection, testing and commissioning of 400 KVA , 11/0.433 kV 3 Phase, 4 wire, 50 Hz., ON-AN Transformer for out door duty with offload tap changer range -7.5%, 0, +5% in the steps of 2.5% per step, cable box connection at primary (HT side) and secondary end (LT side) shall be connected through / cables, the transformer shall be complete with first filling of oil, with double float buchholz relay protection if required as per IS code, high winding temperature/oil temp. sensors, complete with all fittings and accessories, interconnection of control cables and accessories as per detailed technical specifications and as required. | Each | 1 | 800000 | 800000 |
| 1.03 | H.T. CABLE | | | | |
| | Supply of following sizes of 11 kV grade multicore aluminium conductor XLPE armoured power cable as per IS : 7098. | | | | |
| | i) 3 Core,185sq mm | Mtrs. | 100 | 1068 | 106800 |
| 1.04 | Laying of one number 3 core XLPE power cable of grade exceeding 1.1 KV but not exceeding 11KV of size exceeding 120 sqmm but not exceeding 185 Sqmm direct into ground including excavation, sand cushioning, protective covering and refilling the trench, supply of route marker complete as required. | Mtrs. | 100 | 233 | 23300 |
| 1.05 | Supplying and making end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size 3 Core, XLPE aluminium conductor cable of 11kV grade as required. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|----------------|
| | i) 185 sqmm indoor type | Each | 3 | 6881 | 20643 |
| | ii) 185 sqmm Outdoor type | Each | 1 | 9274 | |
| | TOTAL FOR SUB HEAD 1: H.T. SUB STATION | | | | 1450743 |
| | SUB HEAD 2: LT PANELS. | | | | |
| 2.01 | L.T. PANEL: (NORMAL) | | | | |
| | Supply, installation, testing and commissioning of LT Panel, cubicle type, totally enclosed, free standing type, dust, powder coated, damp and vermin proof panel made up of CRCA sheet, complete with aluminium busbars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgears with cable alley in front as mentioned below and complete as per technical specifications and as required. The size of cable alley shall be sufficient enough to accomodate the cable sizes. the panel should be as per techincal specifications and as required. | | | | |
| | Note : | | | | |
| | 1. All ACBs shall have 5 NO + 5 NC contacts | | | | |
| | 2. All relays to operate at 240 Volts, Single phase, 50Hz., AC supply through on line UPS OF 2 KVA. UPS is also in the scope of supply. | | | | |
| A. | INCOMER: | | | | |
| | i) 1No. MCCB Panels each having following: | | | | |
| | 630 Amp 415 volts, 35 KA (Ics), TP+NL microprocessor based MCCB with variable current settings and having microprocessor based O/L, S/C & E/F protection release. | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|------------|---|-------|-----|-----------------------------|---------------|
| | R, Y & B Phase indicating lamps (LED type) with 2A control SP MCBs | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| | Digital Volt Metre with VSS | | | | |
| | Digital energy metre with CT | | | | |
| | One set of dual core dual ratio CT of 600/300/5/5A for capacitor panel. | | | | |
| B. | BUSBARS : | | | | |
| | 800 Amps Phase TPN busbars of aluminium. | | | | |
| C. | OUTGOING. | | | | |
| i) | 2 Nos. MCCB as per following details/ specifications: | | | | |
| | 250 Amp 415 volts, 25 KA (Ics), , TP+NL MCCB with thermal magnetic release having variable current settings . | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| ii) | 2 Nos. MCCB as per following details/ specifications: | | | | |
| | 160 Amp 415 volts, 25 KA (Isc), TP+NL MCCB with thermal magnetic release having variable current settings . | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| | | | | | |
| | iii) 4 Nos. MCCB as per following details/ specifications: | | | | |
| | 100 Amp 415 volts, 25 KA (Isc), TP+NL MCCB with thermal magnetic release having variable current settings . | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| | | | | | |
| | iv) 4 Nos. 63 Amp MCCB as per following specifications: | | | | |
| | 63 Amp 415 volts, 25 KA (Isc), TP+NL MCCB with thermal magnetic release having variable current settings . | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| | | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| E. | ENCLOSURE : | | | | |
| | i) Fabrication, PVC Sleeving, Control/Power Wiring and necessary electrical/ mechanical interlocking, UPS as mention above etc and any other item required for proper functioning of the panel complete as required. | | | | |
| | Main LT Panel as mentioned above. | Set | 1 | 350000 | 350000 |
| 2.02 | EMERGENCY PANEL | | | | |
| | Supply, installation, testing and commissioning of cubicle type, totally enclosed, free standing type, dust, powder coated, damp and vermin proof panel made up of CRCA sheet, complete with aluminium busbars, danger notice plate, interconnections with suitable capacity aluminum leads/solid aluminum strips/rods, necessary interlocking, and having incoming and outgoing switchgears with cable alley in front as mentioned below and complete as per technical specifications and as required. The size of cable alley shall be sufficient enough to accomodate the cable sizes complete as per technical speicafications and as required. | | | | |
| A. | INCOMER: | | | | |
| | 1 Nos. MCCB as per following details: | | | | |
| | 160 Amp 415 volts, 25 KA (lcs), FP microprocessor based MCCB with variable settings and having microprocessor based O/L, S/C & E/F protection release. | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|---|-------|-----|-----------------------------|---------------|
| | Digital energy metre with CT | | | | |
| B. | BUSBARS : | | | | |
| | 400 Amps Phase TPN busbars of aluminium. | | | | |
| D. | OUTGOING. | | | | |
| i) | 2 Nos. MCCB as per following details/ specifications: | | | | |
| | 100 Amp 415 volts, 25 KA (Isc), FP MCCB with thermal magnetic release having variable current settings . | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | Digital Ampere Metre of suitable range with suitable set of CT's and ASS. | | | | |
| ii) | 5 no. 63 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker, with ON/ OFF indication. | | | | |
| iii) | 2 no. 40 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker, with ON/ OFF indication. | | | | |
| | EMERGENCY PANEL AS MENTION ABOVE: | Set | 1 | 80000 | 80000 |
| 2.04 | CAPACITOR PANEL | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|---------------|
| | Supply, installation, testing and commissioning of M.V. cubicle type totally enclosed free standing type, powder coated, dust, damp and vermin proof Capacitor Panel complete with busbars, M.V. danger notice plate, ammeter, ammeter selector switch, indicating lamps, CT's, Extra heavy duty, APP type Capacitors suitable for non linear loads upto 20%, operating losses not more than 0.5 W / KVAR, contactors suitable for capacitor switching (current limiting contactor circuit to suppress switching inrush current) interconnections with suitable capacity aluminium leads/solid aluminium strips, rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as required | | | | |
| | A. INCOMER : | | | | |
| | 250 Amp 415 volts, 25 KA (Isc), FP MCCB with thermal magnetic release having variable current settings . | | | | |
| | Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | Indicating lamps with 2A protection MCBs to indicate OPEN, CLOSE, TRIP for MCCB | | | | |
| | R, Y & B Phase indicating lamps (LED type) with 2A control SP MCBs | | | | |
| | Day & Night mode selector switch | | | | |
| | 10 steps Intelligent microprocessor based Automatic Power factor Correction relay having measurement sensitivity of 1 %. | | | | |
| | Extension of incoming busbars for connection of multicore armoured aluminium cables. | | | | |
| | B. METERING : | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|---------------|
| | 1 set of digital Amp. Meter, digital Poper factor meter and Digital voltmeter | | | | |
| | C. BUSBARS : | | | | |
| | 400 Amp FP busbars of aluminum | | | | |
| | D. OUTGOINGS : | | | | |
| | i) 5 Nos as per following details/ specification: | | | | |
| | 63 Amp 415 volts, 25 KA (Isc), TP MCCB with thermal magnetic release having variable current settings .Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | 63 Amps, 415 volts, 25 KA, TP, Power Contactor suitable for capacitive switching including current limiting contactor circuit to supress switching inrush current | | | | |
| | ON/ OFF delay timers for switching capacitor circuit. | | | | |
| | "ON" and "OFF" LED indicating lamp and 2A control SP MCBs | | | | |
| | 25 kVAR extra heavy duty APP type Capacitors suitable for non linear loads upto 20%, operating losses not more than 0.5 W per KVAR . | | | | |
| | ii) 2 Nos as per following details/ specification: | | | | |
| | 32 Amp 415 volts, 25 KA (Isc), TP MCCB with thermal magnetic release having variable current settings .Extended rotary operating mechanism with door interlock with defeat feature and padlock facility. MCCB should be with spreader link and phase barriers. | | | | |
| | ON/ OFF delay timers for switching capacitor circuit. | | | | |
| | "ON" and "OFF" LED indicating lamp and 2A control SP MCBs | | | | |
| | Push button for CLOSE and TRIP | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|--|-------|-----|-----------------------------|---------------|
| | Extended rotary operating mechanism | | | | |
| | 10 KVAR extra heavy duty APP type Capacitors suitable for non linear loads upto 20%, operating losses not more than 0.5 W per KVAR . | | | | |
| | Capacitor panel as mentioned above. | Set | 1 | 360000 | 360000 |
| | TOTAL SUBHEAD 2: MAIN LT PANEL. | | | | 790000 |
| 3.00 | SUB HEAD 3 : DG SET & ACCESSORIES | | | | |
| | SOUND PROOF DG SETS. | | | | |
| 3.01 | DG SET OF 82.5 KVA | | | | |
| | Supply, installation, testing and commissioning of sound proof (silent type) Diesel Generating set having 82.5 KVA Prime Power Ratings 415 volt at 1500 RPM, 0.8 power factor suitable for 50 Hz, 3 phase system , suitable bhp, 0.85 load factor, water cooled radiator type diesel engine- alternator set mounted on common base frame, return fuel cooler, battery & battery charger, Anti Vibration mounting pads, Engine alternator safeties, electronic governor including all accessories & their wiring as per technical specification. This includes the following: | | | | |
| | - Supplying and fixing of suitable sizes High class MS pipe for DG exhaust complete with bends, elbow, flanges etc including silencer and catalytic convertor exhaust pipe for exhaust of DG sets including foundation of chimney etc. & supporting structure for each DG sets as per pollution control board norms and as required. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|--|-------|-----|-----------------------------|---------------|
| - | Supply and fixing of 50mm thick compressed mineral wool insulation (Rock wool) for D.G. exhaust pipe with 22 gauge aluminium sheet cladding etc. as required for the under mentioned dia pipe. | | | | |
| - | Supply, installation, testing and commissioning of suitable size fuel pipe for connecting diesel engine to individual day service tank including supply and fixing of required valves & filters etc. as required. | | | | |
| - | Fabrication of supports for exhaust pipe, fuel pipe or for any other purpose out of suitable M.S. structural steel including supplying and applying of enamel paint of approved shade after one coat of steel primer of reputed company. | | | | |
| - | Supplying and fixing of suitable capacity cable adapter box for alternator. | | | | |
| - | Factory assembled Sound proof Canopy as per pollution control board requirement to achieve noise level desired during night condition, with base frame, doors, inspection window, fresh air supply fans etc | | | | |
| | ENCLOSURE : | | | | |
| | Fabrication, PVC Slewing, Control/Power Wiring and necessary electrical/ mechanical interlocking etc any other item required for proper functioning of the system complete as required. | | | | |
| - | Any other item required for completion of system above (D.G. set) | SET | 1 | 900000 | 900000 |
| b) | Supply installation testing and commioning of AMF panel for 82.5 KVA DG SET with complete incomer, contactor relay and other necceceasy items to complete the item. | SET | 1 | 92400 | 92400 |
| | TOTAL SUBHEAD 3: DG SETS | | | | 992400 |
| | SUB HEAD- 4: MCB DISTRIBUTION BOARDS. | | | | |
| 4.00 | MCB DISTRIBUTION BOARD | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| 4.01 | Supplying & fixing following way, three pole and neutral sheet steel, MCB distribution board, 415 volts, on recess/surface complete with loose wire box, terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. Before procurement of DB the contractor has to take approval of DB schedule/ drawing of each DB from the Electrical Engineer, HSCC, as per technical specifications and as required. (but without MCB & RCCB), | | | | |
| | i 4 way (8+12), Double door | Each | 2 | 2407 | 4814 |
| | ii 6 way (8+18), Double door | Each | 4 | 3100 | 12400 |
| | iii 8 way (8+24), Double door | Each | 10 | 3750 | 37500 |
| 4.02 | VERTICAL D.B (VERTICAL TYPE) | | | | |
| | Supplying and fixing following ways surface/ recess mounting, vertical type, (MCCB I/C) 415 volts, TPN MCB distribution board of CRCA sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, Door earthing, Glazed door, removable Gland plates & front plates insulated neutral bar earth bar, din bar for mounting MCB's, with provision of 63/100/160/200 amps TP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars (but without MCB's/ MCCB) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.) | | | | |
| | Note: Before procurement Contractor has take approval for make of Vertical type D,Bs) | | | | |
| | i) 6 Way TP Double Door | Each | 2 | 8957 | 17914 |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|-----|---|-------|-----|-----------------------------|---------------|
| 4.03 | | Supplying & fixing 6 Amps to 32 Amps rating, 240 volts,'B' series, miniature circuit breaker suitable for lighting & other loads of following poles in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications & as required. | | | | |
| | i | Single pole | Each | 252 | 141 | 35532 |
| | ii | Triple pole (10A-32A) | Each | 6 | 785 | 4710 |
| | iii | Triple pole (40-63A) | Each | 6 | 1178 | 7068 |
| | iv | Four pole MCCB 100AMP (16KA) TM | Each | 2 | 4940 | 9880 |
| 4.04 | | Supplying & fixing following rating, four pole, 415 volts, Miniature Circuit Breaker (MCB),in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required. | | | | |
| | i | 40 Amps | Each | 5 | 1450 | 7250 |
| | ii | 63 Amps | Each | 10 | 1760 | 17600 |
| 4.05 | | Supplying & fixing following rating, four pole, 415 volts,Residual Current Circuit Breaker (RCCB) having a sensitivity current upto 300 mA in the existing MCB DB complete with connections, testing & commissioning etc. as per technical specifications and as required. | | | | |
| | i | 40 Amps | Each | 5 | 2290 | 11450 |
| | ii | 63 Amps | Each | 10 | 2895 | 28950 |
| 4.06 | | Supplying and fixing Single pole Blanking plate in the existing MCB DB complete as required. | Each | 93 | 5 | 465 |
| | | TOTAL SUB HEAD-4: MCB DISTRIBUTION BOARDS. | | | | 195533 |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|------------|---|-------|-----|-----------------------------|---------------|
| | | SUB HEAD 5: WIRING | | | | |
| 5.00 | | WIRING | | | | |
| 5.01 | i | Wiring for light point/fanpoint/ exhaust fan point/call bell point with 1.5 sq.mm. PVC insulated, fire retardant low smoke (FRLS) copper conductor cable, single core/ multi strand, in steel conduit (Including supplying & recess laying of MS conduit and accessories) including the following and complete as required. | | | | |
| | ii | Supplying and Fixing Modular type switches (modular Bell push in case of call bell points) in suitable size modular metal boxes, base plate & modular cover plates, space for fixing electronic fan regulator in case of fan point wiring & space for fixing 5A socket on the board etc. | | | | |
| | iii | Supplying and fixing Hexagonal fan Boxes with 3 mm thick hylem sheet covers in case of Fan Points | | | | |
| | iv | Supplying & Fixing Ceiling Rose in case of Exhaust Fan Points etc. | | | | |
| | | Note : | | | | |
| | | i) Unless otherwise specified all the conduiting work to be done in recess | | | | |
| | | Point wiring as mentioned above | Point | 620 | 1031 | 639034 |
| 5.02 | i | Wiring for twin control light points with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable in MS conduit (including supplying and recess laying of MS conduit) including the following and complete as required. | | | | |
| | ii | Supplying and Fixing Modular type two numbers 2 Way switches in suitable size modular metal boxes, base plate & modular cover plates etc. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|---|-------|------|-----------------------------|---------------|
| | Note : | | | | |
| | i) Unless otherwise specified all the conduiting work to be done in recess | | | | |
| | Wiring for twin control light points as mentioned above | Point | 10 | 1089 | 10890 |
| 5.03 | Wiring for 5A light plugs with 1.5 sq.mm. PVC insulated, FRLS copper conductor cable including one number 1.5 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed ISI marked MS conduit (including supply and recess laying of ISI marked MS conduit) as per technical specifications and as required. | Meter | 1500 | 110 | 165000 |
| 5.04 | Wiring for computer points (Three sockets & one switch) with 2.5 sq.mm. PVC insulated, FRLS copper conductor cable including one number 2.5 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed MS conduit (including supply and recess laying of conduit) as per technical specifications and as required. | Meter | 640 | 218 | 139520 |
| 5.05 | Wiring for Bed Power (Three sockets 5 amp three pin & one 15 Amp switch) with 4 sq.mm. PVC insulated, FRLS copper conductor cable including one number 4 sq.mm. PVC insulated, copper conductor cable for earthing in surface/recessed MS conduit (including supply and recess laying of conduit) as per technical specifications and as required.(2 bed points looped) | Meter | 1340 | 328 | 439252 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|------|-----------------------------|---------------|
| 5.06 | Wiring for 16 amp power plug with 2X4 sqmm PVC insulated, FRLS copper conductor, single core/multi strand cable in surface/recessed MS conduit (including supply and recess laying of MS conduit with all accessories) along with 4 sqmm PVC insulated, copper conductor, single core/multi strand cable for loop earthing etc per technical specifications & as required. | | | | |
| | Directly from MCB-Distribution Board to the Socket Outlets | Meter | 1080 | 328 | 354240 |
| 5.07 | Wiring for 20 Amp power plug with 2X4 sq.mm. PVC insulated, FRLS copper conductor multi strand cable in surface/recessed in MS conduit (including supply and recess laying of MS conduit with all accessories) along with 1X4 sqmm PVC insulated FRLS copper conductor for loop earthing, as per technical specifications & as required. | Meter | 520 | 328 | 170560 |
| 5.08 | Wiring for 32 amp power plug with 2X6 sq.mm. PVC insulated FRLS copper conductor, multi strand cable in surface/recessed in MS conduit (including supply and recess laying of MS conduit with all accessories) along with 1X6 sqmm PVC insulated FRLS copper conductor for loop earthing, as per technical specifications & as required. | Meter | 260 | 438 | 113880 |
| 5.09 | Wiring for circuit/ Submain wiring with following size of PVC insulated FRLS copper conductor single core/multi strand cable in recessed steel conduit (including supply & laying of recessed conduit) as required. | | | | |
| | i) 2X2.5 Sqmm with 1 No. 2.5 sqmm PVC insulated FRLS copper conductor for earthing. | Metre | 788 | 198 | 155925 |
| | ii) 2X10 Sqmm with 1 No. 10 sqmm PVC insulated FRLS copper conductor for earthing | Metre | 70 | 398 | 27860 |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|------|---|-------|-----|-----------------------------|---------------|
| | iii) | 4X6 Sqmm with 2 No. 6 sqmm PVC insulated FRLS copper conductor for earthing | Metre | 100 | 483 | 48300 |
| | iv) | 4X10 Sqmm with 2 No. 10 sqmm PVC insulated FRLS copper conductor for earthing | Metre | 300 | 774 | 232200 |
| | v) | 4X16 Sqmm with 2 nos 16 sq mm PVC insulated FRLS copper conductor for earthing. | Metre | 475 | 1086 | 515850 |
| 5.10 | | Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing 3 pin 5/6 amps. modular socket outlet with shutters and 5/6 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required. | Each | 75 | 340 | 25500 |
| 5.11 | | Supplying and fixing suitable module modular metal box on surface or in recess including providing and fixing 6 pin 15/16 A modular socket outlet with shutters and 15/16 A modular switch, base plate, modular cover plate, connections, etc. and all civil works complete as required. | Each | 54 | 485 | 26190 |
| 5.12 | | Supply, Installation, Testing & Commisioning 63 Amps, TPN MCCB in a sheet steel enclosure,extended rotary operating mechanism complete with all accessories as required. | Each | 2 | 7000 | 14000 |
| 5.13 | | Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing three nos 3 pin 5/6 amps. modular socket outlet with shutters and one no. 10 amps. modular type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required. (For computer Points) | Each | 32 | 855 | 27360 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|----------------|
| 5.14 | Supplying and fixing suitable Module metal box on surface or in recess including providing and fixing three nos 3 pin 5/6 amps. modular socket outlet with shutters and one no. 15 amps. modular Indicating type switch, base plate, modular cover plate, connections etc. and all civil works 'complete as required. (For Bed Points) | Each | 67 | 855 | 57285 |
| 5.15 | Supply and fixing following 20 Amps, 240 volts, 2P+E, Industrial Socket Outlet (with plugs) in a metal box with 20 SP MCB in a sheet steel cover on surface or recess complete with all accessories including connections, testing and commissioning etc. as required. | Each | 26 | 800 | 20800 |
| 5.16 | Supplying, providing & fixing cordless musical bell, batteries etc of approved make complete as required. | Each | 5 | 800 | 4000 |
| 5.17 | Supplying, providing & fixing electronic type call push button outside each ward of approved make complete as required. | Each | 5 | 450 | 2250 |
| | TOTAL SUBHEAD: 5- WIRING | | | | 3189896 |
| | SUB HEAD: 6 - LIGHT FIXTURE AND FANS | | | | |
| | LIGHT FIXTURES AND FANS | | | | |
| 6.01 | Supply of following light fixture with high efficiency electronic/dimmable ballast, starter, tubes/lamps, capacitor, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required. | | | | |
| i) | 1X28 watt box type flourescent light fixture (Philips TMS 122M 1XTL5/28 W EBE or approved equivalent) (136b/136bw) | Each | 168 | 1384 | 232512 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| ii) | 2X28 watt box type flourescent light fixture without reflector (Philips TMS 122M 2XTL5 28 W EBE or approved equivalent) (236b) | Each | 20 | 1902 | 38040 |
| iii) | 1X36 watt surface mounted type flourescent light fixture with opal acrylic diffuser (Philips TCS019 1XTL-D36W EBT or approved equivalent) (136AC1) | Each | 8 | 1425 | 11400 |
| iv) | 1X36 watt Surface/recessess mounted flourescent light fixture (Philips TCS 306 1XTL-D-36W HF EBE 136 or approved equivalent) 136SMO1 | Each | 114 | 2579 | 294006 |
| vi) | 2X36 watt Surface/recessess mounted flourescent light fixture (Philips TCS 306 2XTL-D-36W HF EBT 236 or approved equivalent) 236SMO1 | Each | 48 | 3066 | 147168 |
| viii) | 2X 36 watt recess mounted clean room flourscent light fixture with bottom opening and toughened glass (Philips FBS 670 2X36W TL-D FOP GT or approved equivalent). (236RMO2)(OT) | Each | 22 | 9087 | 199914 |
| ix) | 4 X 14 watt recess mounted clean room flourscent light fixture with bottom opening and clear arcylic cover (Philips TBS 651 4XTL5 -14 W EB CR FOP GT or approved equivalent). (Sq fitting -OT) | Each | 6 | 6873 | 41238 |
| 6.02 | Supply of following compact flourescent light fixture with electronic ballast, starter, capacitor, yellow light lamps, reflector, diffuser, MS body/housing holder etc. complete with all fixing accessories as required. | | | | |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|------|--|-------|-----|-----------------------------|---------------|
| | i) | 1x9 watt Bulk Head light fixture (Philips FXC 101 1XPL-S/2P11 W/ACO or approved equivalent) BH | Each | 2 | 1092 | 2184 |
| | ii) | 1X10 W surfaced mounted down light fixture with frosted glass (DECON : PL-10W 03UW 01 approved equivalent) | Each | 32 | 1012 | 32384 |
| | iii) | 1X13 watt Mirror light with acrylic cover & Reflector (Anchor 23527 or approved equivalent) (w toilet) | Each | 20 | 345 | 6900 |
| | iv) | Surface mounted Batten holder (Plastic) with 9 watt CFL | Each | 50 | 150 | 7500 |
| | vi) | 2 X 18 watt surface mounted down light forested glass (DECON:PL-2X18 W 03NB 01 or approved equivalent) | Each | 9 | 1841 | 16569 |
| 6.03 | | Supply of following ceiling fans (Crompton Greaves High Breeze or approved equivalent) complete with double ball bearing, motor, blades, downrod, canopies, capacitor, modular type electronic fan regulator, suitable for operation on 230 volts, 50 Hz., 1 phase, AC supply complete as required | | | | |
| | i | 1200 mm sweep | Each | 137 | 1870 | 256190 |
| 6.04 | | Supply of 900 RPM, 300 mm (Crompton Greaves Trans Air or approved equivalent) exhaust fan suitable for single phase 230 volts, 50 Hz., AC supply complete with motor, louvers/shutters etc complete as required. | Each | 19 | 3442 | 65398 |
| 6.05 | | Supply of 450 mm sweep, crompton greaves model high flow 18" wall mounted fan complete with double ball bearing, motor, blades, capacitor etc suitable for single phase 230 volts, 50 Hz., AC supply complete as required. | Each | 2 | 1900 | 3800 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|---------------|
| 6.06 | Installation, testing and commissioning of prewired, fluorescent fittings of all types, complete with all accessories and tube etc. directly on ceiling/wall, including connections with 1.5 sq.mm. PVC insulated, FRLS copper conductor, single core/ multi strand cable etc. as required. | Each | 360 | 75 | 27000 |
| 6.07 | Installation, testing and commissioning of prewired, compact fluorescent lamp fixture (CFL fixtures) of all types, complete with all accessories and lamp etc. directly on ceiling/wall, including connections with 1.5 sq.mm. PVC insulated, FRLS copper conductor, single core/ multi strand cable etc. as required. | Each | 113 | 75 | 8475 |
| 6.08 | Installation, testing and commissioning of ceiling fan and modular type electronic fan regulator (Electronic regulator to be fixed in switch board) including wiring the down rod and connection with 1.5 sqmm FR PVC insulated, copper conductor single core/multi strand cable including providing & fixing phenolic laminated sheet cover on the fan box, etc. as required. | Each | 137 | 120 | 16440 |
| 6.09 | Installation, testing and commissioning of exhaust fan up to 450 mm sweep in the opening, including making the hole to suit the size of the above fan including, fixing of louvers/ shutters with frame making good the damages etc. as required. | Each | 19 | 300 | 5700 |
| 6.10 | Installation, testing and commissioning of wall mounted fan up to 450 mm sweep including supply and fixing wall bracket arrangement complete as required. | Each | 2 | 100 | 200 |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|------------|---|-------|------|-----------------------------|----------------|
| | | TOTAL SUBHEAD 6 : LIGHT FIXTURE & FANS | | | | 1413018 |
| | | SUB HEAD 7 : FIRE DETECTION AND ALARM | | | | |
| 7.00 | | FIRE DETECTION AND ALARM SYSTEM | | | | |
| 7.01 | | Supply and drawing of following sizes of PVC insulated FRLS copper conductor single core cable in surface/recessed MS conduit (including Supplying and fixing of MS Conduit) complete as required. | | | | |
| | i | 2X1.5 sqmm | Metre | 1240 | 195 | 241800 |
| 7.02 | | Supply, installation, testing and commissioning of the following addressable type fire detection and alarm accessories as per technical specification & complete with connections etc. as required. | | | | |
| | i | Optical type Smoke Detector | Each | 76 | 3200 | 243200 |
| | ii | Heat Detector | Each | 2 | 3200 | 6400 |
| | iii | Manual call point | Each | 2 | 4500 | 9000 |
| | iv | Fire Alarm Bell / Hooter of suitable range to cover the complete floor in enclosure. | Each | 2 | 1500 | 3000 |
| | v | Response indicator | Each | 42 | 130 | 5460 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| 7.03 | Supply, Installation, testing and commissioning of 1 loop microprocessor based addressable type networkable Fire Detection & Alarm Panel complete with inbuilt power supply, battery charger with SMF batteries for minimum 24 hours back-up. The panel shall have a communication module and HI 485 network card. The panel should have rectifier, loop card, minimum 80 character LCD unit to indicate fire/ fault signals with address including external/ internal printer port complete as per technical specifications and requirement of Local Fire Authority and as required. | Set | 1 | 125000 | 125000 |
| | TOTAL SUB HEAD 7 : FIRE DETECTION AND ALARM | | | | 633860 |
| | SUB HEAD 8: LT CABLES | | | | |
| 8.00 | LT CABLES | | | | |
| 8.01 | Supply of following sizes of 1.1 kV grade multicore aluminum conductor armoured XLPE cable as per IS 7098. | | | | |
| | i 3.5 Core 300 Sqmm. | Metre | 300 | 1501 | 450300 |
| | ii 3.5 Core 185 Sqmm. | Metre | 300 | 681 | 204300 |
| | iii 3.5 Core 120 Sqmm. | Metre | 120 | 472 | 56640 |
| | iv 3.5 Core 70 Sqmm. | Metre | 10 | 304 | 3040 |
| | v 3.5 Core 35 Sqmm. | Metre | 250 | 168 | 42000 |
| | vi 3.5 Core 25 Sqmm. | Metre | 200 | 139 | 27800 |
| | vii 4 Core 16 Sq mm | Metre | 50 | 114 | 5700 |
| | viii 2 Core 10 Sq mm | Metre | 200 | 79 | 15800 |
| | ix 3 Core 4 Sq mm | Metre | 100 | 69 | 6900 |
| 8.02 | Laying of one number PVC insulated and PVC sheathed power cable 1.1kV grade direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required | | | | |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|-------------|--|-------|-----|-----------------------------|---------------|
| | i | Size not exceeding 25 sq.mm | Metre | 275 | 100 | 27500 |
| | ii | Size exceeding 25 sq.mm but not exceeding 120 sq.mm | Metre | 91 | 213 | 19383 |
| | iii | Size exceeding 120 sq.mm but not exceeding 300 sq.mm | Metre | 420 | 230 | 96600 |
| 8.03 | | Laying of one number PVC insulated and PVC sheathed power cable: 1.1kV grade direct in the existing RCC/ Hume/Stoneware/Metal pipe as required | | | | |
| | i | Size not exceeding 25 sq.mm | Metre | 220 | 20 | 4400 |
| | ii | Size exceeding 25 sq.mm but not exceeding 120 sq.mm | Metre | 20 | 25 | 488 |
| | iii | Size exceeding 120 sq.mm but not exceeding 300 sq.mm | Metre | 90 | 44 | 3960 |
| 8.04 | | Laying of one number PVC insulated and PVC sheathed power cable: 1.1kV grade on surface or on existing cable tray complete as required. | | | | |
| | i | Size not exceeding 25 sq.mm | Metre | 55 | 42 | 2310 |
| | ii | Size exceeding 25 sq.mm but not exceeding 120 sq.mm | Metre | 20 | 70 | 1365 |
| | iii | Size exceeding 120 sq.mm but not exceeding 300 sq.mm | Metre | 90 | 61 | 5490 |
| 8.05 | | Supplying and making end termination with suitable size Copper lugs including double compression glands of following sizes of 1.1. kv grade multicore aluminium conductor PVC insulated and PVC sheathed | | | | |
| | i | 3.5 Core 300 Sqmm. | Each | 6 | 750 | 4500 |
| | ii | 3.5 Core 185 Sqmm. | Each | 4 | 635 | 2540 |
| | iii | 3.5 Core 120 Sqmm. | Each | 6 | 399 | 2393 |
| | iv | 3.5 Core 70 Sqmm. | Each | 2 | 310 | 620 |
| | v | 3.5 Core 35 Sqmm. | Each | 4 | 210 | 840 |
| | vi | 3.5 Core 25 Sqmm. | Each | 4 | 133 | 530 |
| | vii | 4 Core 16 Sq mm | Each | 4 | 130 | 520 |
| | viii | 2 Core 10 Sq mm | Each | 24 | 150 | 3600 |
| | ix | 3 Core 4 Sq mm | Each | 4 | 100 | 400 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------------|---|-------|-----|-----------------------------|----------------|
| 8.06 | Fabricating and installing following size of perforated M.S. cable trays including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting etc. as required :- | | | | |
| | i 150 mm. width x 50 mm. depth x 1.6 mm. thickness | Metre | 15 | 500 | 7500 |
| | ii 300 mm. width x 62.5 mm. depth x 2.0 mm. thickness | Metre | 15 | 800 | 12000 |
| | iii 450 mm. width x 62.6 mm. depth x 2.0 mm. thickness | Metre | 10 | 950 | 9500 |
| | iv 600 mm. width x 62.6 mm. depth x 2.0 mm. thickness | Metre | 10 | 1200 | 12000 |
| | TOTAL SUB HEAD 8 : LT CABLES | | | | 1030918 |
| | SUB HEAD 9: EARTHING SAFETY EQUIPMENT AND MISC. ITEMS | | | | |
| 9.00 | EARTHING, SAFETY EQUIPMENTS AND MISC. ITEMS | | | | |
| 9.01 | Earthing with copper plate 600mmX600mmX3mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required | Set | 6 | 10000 | 60000 |
| 9.02 | Earthing with GI plate 600mmX600mmX6mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required | Set | 10 | 5000 | 50000 |
| 9.03 | Extra for using charcoal and salt for GI or copper plate earth electrode as required. | Set | 16 | 760 | 12160 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|---------------|
| 9.04 | Supplying and laying 25mmX5mm GI strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required. | Metre | 300 | 98 | 29400 |
| 9.05 | Providing and fixing 25mmX5mm GI strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required. | Metre | 100 | 120 | 12000 |
| 9.06 | Supplying and laying 50mmX5mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required. | Metre | 150 | 756 | 113400 |
| 9.07 | Providing and fixing 50mmX6mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required. | Metre | 60 | 1082 | 64920 |
| 9.08 | Providing and fixing 25mmX5mm Copper strip on surface/on existing cable trench/RCC pipe/GI pipe or in recess for earth electrode as required. | Metre | 20 | 766 | 15320 |
| 9.09 | Supplying and laying 25mmX5mm Copper strip at 0.5m below ground level as strip earth electrode, including soldering etc. as required. | Metre | 50 | 315 | 15750 |
| 9.10 | Providing and laying of following sizes non pressure NP2 class (light duty) RCC pipe with collar joint with stiff mixture of cement (1 cement : 2 fine sand) including testing the joints etc. as required. | | | | |
| | i 150mm dia | Metre | 50 | 226 | 11300 |
| | ii 300mm dia | Metre | 50 | 426 | 21300 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|--|-------|-----|-----------------------------|---------------|
| 9.11 | Providing and fixing M.V. danger notice plate of 200mmX150mm made of mild steel, atleast 2mm thick and vitreous enamelled white on both sides and with inscription in signal red colour on front side as required. | Each | 12 | 68 | 816 |
| 9.12 | Providing and fixing H.T. (11kV) danger notice plate of 250mmX150mm made of mild steel, atleast 2mm thick and vitreous enameled white on both sides and with inscription in signal red colour on front side as required. | Each | 4 | 68 | 272 |
| 9.13 | Supplying and laying of 12kV grade 1 metre wide anti skid chequered type rubber mat. | Metre | 10 | 2500 | 25000 |
| 9.14 | Supplying and laying of 1.1kV grade 1 metre wide anti skid chequered type rubber mat. | Metre | 20 | 1800 | 36000 |
| 9.15 | Design, manufacture, supply and installation of Fire Buckets 13 litre capacity 4 Nos. duly filled with sand and GI pipe support stand for these buckets including painting etc. complete as required. | Set | 4 | 4500 | 18000 |
| 9.16 | Supply and fixing shock treatment chart in English, Hindi and local language mounted on 5mm thick Plywood and 3mm thick plain glass front complete as required. | Set | 2 | 1500 | 3000 |
| 9.17 | Supplying and fixing Foam type 9 ltrs capacity fire extinguishers as approved by ISI complete as required. | Set | 2 | 4800 | 9600 |
| 9.18 | Supplying and fixing Dry Chemical powder type 10 Kg capacity fire extinguishers as approved by ISI complete as required. | Set | 2 | 4200 | 8400 |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|--------------|---|-------|-----|-----------------------------|---------------|
| 19.19 | Supplying and fixing CO2 type 9 Kg capacity fire extinguishers as approved by ISI complete as required. | Set | 2 | 11400 | 22800 |
| 9.20 | Supplying and fixing CO2 type 4.5 Kg capacity fire extinguishers as approved by ISI complete as required. | Set | 4 | 5310 | 21240 |
| 9.21 | Supplying, storing, handling and fixing in position First Aid Medical Box complete as per technical specifications as required. | Each | 1 | 3500 | 3500 |
| 9.22 | Supply and testing of 11kV ISI marked hand gloves | Each | 2 | 800 | 1600 |
| 9.23 | Providing & fixing rigid PVC pipe complete with fittings, clamps including trenching & refilling/ wall cutting & plastering, etc. (for cable entry) with all minor civil & mech. Works complete as required. 100 mm dia nominal bore | Metre | 50 | 200 | 10000 |
| | TOTAL SUB HEAD 9: EARTHING, SAFETY EQUIPMENT AND MISC. ITEMS | | | | 565778 |
| | SUB HEAD 10: OUT DOOR LIGHTING | | | | |
| 10.00 | OUT DOOR LIGHTING | | | | |
| 10.01 | Supply, erection, testing and commissioning of external swaged steel tubular pole with following specifications & items : | | | | |

| S.No. | | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|--------------|------------|--|-------|-----|-----------------------------|---------------|
| | i | 9.0 Mtrs. high swaged steel tubular pole with arm length around 1.5 Metre, the construction of the pole shall be as per IS:2713 - 1980 410 SP 30 with base plate 450mmX450mmX6mm complete as per requirement with two coats of spray paints of approved shade. | | | | |
| | ii | 1X150 watts street light fixture with 150watts high pressure sodium vapour (HPSV) lamp complete with control gear, acrylic cover cover etc. similar to Philips SRP 051/ 150 W or approved equivalent including its wiring with 2X4 sq.mm. PVC insulated, FRLS copper conductor and 1.5 sqmm PVC insulated, FRLS copper earth wire from control box complete as required. | | | | |
| | iii | Suitable size 32 A DP MS Control box with 2 no. incoming and outgoing terminals and 2 nos. tap-out terminal with 6A DP MCB complete as required - 1 Set | | | | |
| | iv | Suitable number(s) 40mm dia Class-B GI Pipe(s) from above control box to upto 0.5 metre below ground level for power cable entry | | | | |
| | v | Providing foundation including excavation, shuttering, alingment of poles, casting etc. including lean concrete at the bottom as per CPWD/ BIS specifications. | | | | |
| | vi | The above installations shall be completed as CPWD specifications and as required | | | | |
| | A. | Steet Tubular Poles(9M) Single Arm as mention above | Set | 6 | 17900 | 107400 |
| 10.02 | | Supply, installation, testing and commissioning of external post top lantern with following accessories and complete as required : | | | | |
| | i) | 4m high (3.3m above ground) 50mm dia GI pole as approved, adopting socket at top for fixture mentioned below, base plate 300 x 300 x 6mm and provision for mounting junction box etc. - 1 set. | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|--------------|--|-------|-----|-----------------------------|---------------|
| ii) | 1 x 70 W Post top lantern with 70W HPSV lamp (Philips SPC 101 x SON 70 W E or equivalent) and its wiring with 2 x 2.5 sq.mm PVC insulated copper wire and 1.5 sqmm PVC insulated copper earth wire from control box | | | | |
| iii) | Suitable size 20A DP MS Control box with 2 no. incoming and outgoing terminals and 2 nos. tap-out terminal with 1 nos. 5A HRC fuses complete 1 set. | | | | |
| iv) | Suitable number(s) 40mm dia Class-B GI Pipe(s) from above control box to upto 0.5 metre below ground level for power cable entry | | | | |
| v) | Providing 400x400x1000mm deep 1:3:6 ratio cement concrete including excavation shuttering alignment of poles casting etc. including 100mm thick lean concrete shall be provided at the bottom | | | | |
| | Supply, installation, testing and commissioning of external post top lantern as mentioned above | Set | 6 | 6700 | 40200 |
| 10.03 | Road Lighting Panel | | | | |
| | Supply, installation, testing and commissioning of following outdoor type with canopy, IP-54 protected M.V. cubicle type totally enclosed, free standing type, dust, damp and vermin proof, MV Panel, busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, stove enamelled painted and having following incoming and outgoing switchgears complete as required. | | | | |
| | INCOMER: | | | | |
| | 1 No. 63 Amp 415 volts, TPN Switch Disconnecter Fuse Unit with HRC Fuses | | | | |

| S.No. | Description. | Unit. | Qty | Rate in Figures (in Rs.) | Amount in Rs. |
|-------|---|-------|-----|-----------------------------|-----------------|
| | 1 Set of phase indicating lamp with HRC fuses | | | | |
| | 1 Set of timer switch & 100A TP contactor with neutral link (for street lights control) | | | | |
| | BUSBARS: | | | | |
| | 200 Amp TPN Aluminium busbars | | | | |
| | OUTGOING: | | | | |
| | 10 Nos. 16 Amp 415 volts, DP MCB | | | | |
| | Feeder Pillar as mention above | Set | 1 | 20000 | 20000 |
| | TOTAL SUB HEAD 10: OUTDOOR LIGHTING | | | | 167600 |
| | GRAND TOTAL FOR ALL ELECTRICAL WORKS | | | | 10429746 |
| | END of ELECTRICAL BOQ | | | | |
| | | | | | |

| BILL OF QUANTITIES (B.O.Q.) FOR HVAC WORKS FOR "50 BEDDED HOSPITAL, CHHATTISGARH" | | | | | |
|---|--|------|------|------------|--------------|
| ITEM No | DESCRIPTION OF ITEM | QTY. | UNIT | RATE (Rs.) | AMOUNT (Rs.) |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1.0 | Supplying, installation, testing and commissioning of 15 TR, programmable microprocessor based, Air-cooled Package Type DX units complete with condensing unit, scroll compressor, air-cooled condenser with fan and evaporator,interconnecting refrigerant piping with indoor and outdoor units,pre charge refrigerant necessary insulation. Microprocessor Based Control Panel should be capable for Heating, Cooling & Humidification controls and interlocking with control wiring etc. complete with following and as per specifications and requirement. | | | | |
| | Indoor Unit-for OT at Ground Floor | | | | |
| | a) Fan Section and canvass connection (Double Skin Type) with mixing box and thermal break profile. | | | | |
| | b) Backward curved Centrifugal Blower with Capacity of 3500 CFM and 125mm Static Pressure. | | | | |
| | c) Cooling Coil Section/s with 15 TR cooling coil/s as per specifications. | | | | |
| | d) Pre Filter with filter section as required. | | | | |
| | e) Drain Pan and Drain Connection. | | | | |
| | f) Drive motor, Drive arrangement guard etc. | | | | |
| | g) Necessary vibration isolator and supporting arrangements. | | | | |
| | h) Fresh air intake arrangement, necessary water drain and air purge valve wherever required etc. | | | | |
| | i) Canvass connection ,necessary foundations, 2 nos pressure gauge, 2nos thermometer etc | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|---|-----------|-----------|-----------------|-------------------|
| | j) double skin section for housing fine(microvee) and Hepa filters as required complete as per specifications | | | | |
| | Outdoor Unit for above | | | | |
| | Suitable Air Cooled Type Condenser with Aluminium Fins & Copper Tube Coils for above indoor unit. | | | | |
| | b) Scroll Type Hermetically sealed Comperssors. | | | | |
| | c) Suitable condenser fans for the condensing unit. | | | | |
| | d) necessary hard drawn copper refrigerant piping per circuit with kinnifoam insulation along with clamps,supports,fittings such as valves,y-strainer, bends,tees,reducers ,expansion valves etc complete as per specifications and requirement | 1 | Nos. | 1800403 | 1800403 |
| | | | | | |
| 2.0 | Supplying, installation, testing and commissioning of Pan Type Humidifier made from minimum 2mm thick stainless steel sheet top closed and insulated with 50mm thick expended polysterene (T.F. Quality) complete with incommining MCB, humidstate and control wiring for OTs. | | | | |
| 2.1 | Capacity : 6 kW | 1 | Nos. | 39480 | 39480 |
| | | | | | |
| 3.0 | WINTER/MONSOON HEATING ARRANGEMENT FOR OT AHU | | | | |
| | | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| | Supply, installation, testing & commissioning of winter/monsoon heating/reheating arrangements fixed in ducts/ plenums complete with strip heaters, fixing frame work, insulators, fire protection insulation in duct, controls such as heating thermostats, humidistats etc. The heaters banks shall be controlled by independent thermostats/ humidistats through electro magnetic type contactors and safety thermostats/ geysersstats as specified complete with wiring for interconnections with 1.5 sq.mm copper conductor multi core armoured cable. The heater capacity shall be as per schedule of equipment and specifications, drawing etc. | | | | |
| 3.1 | 6 KW | 1 | Nos. | 19805 | 19805 |
| 4.0 | DUCTABLE SPLIT TYPE A/C | | | | |
| | Supply, installation, testing and commissioning of ceiling mounted ductable split type air conditioners of following capacity complete with hermetically sealed compressor, fan section with fan & motor, air cooled condenser, filter section with filters,required no. of strip heaters with fixing arrangement in the plenum, interconnecting refrigerant piping with refrigerant & necessary electrical power cabling,control cabling, earthing, supports, controls,necessary safety measures and voltage stablizer & electrical panel,necessary fresh air intake arrangement,necessary GI drain piping of required size & required length from indoor unit to suitable drain location, complete in all respect as per specifications, drawing & technical schedule. | | | | |
| 4.1 | 17 TR capacity. | 1 | Nos. | 445258 | 445258 |
| | Extra Refrigerant Piping for 17 TR | 25 | Rmt. | 1250 | 31250 |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| | Extra drain piping | 25 | Rmt. | 165 | 4125 |
| 5.0 | SPLIT AIR CONDITIONERS | | | | |
| | Supply , installation , testing and commisioning of HI wall split air conditioner comprising of the following. | | | | |
| | a) Outdoor condensing Units | | | | |
| | b) Indoor Evaporative Units | | | | |
| | c) Interconnecting Refrigerant and drain piping with insulation wherever required, refrigerant and oil. The unit shall include refrigerant piping, power cabling and drain piping. | | | | |
| | c) Safety and operational controls | | | | |
| | e) Hiwall splits shall be suitable for single phase power supply and complete with suitable rating voltage stablizer. | | | | |
| | f) Mounting arrangement and structural supports for outdoor unit are included. | | | | |
| | g) The units should have 3 star rating from BEE. | | | | |
| 5.1 | Capacity : 1.5 TR | 1 | Nos. | 53189 | 53189 |
| 5.2 | Capacity : 2.0 TR | 4 | Nos. | 65092 | 260368 |
| 5.3 | Extra Refrigerant Piping | 50 | Rmt. | 350 | 17500 |
| 5.4 | Extra drain piping | 50 | Rmt. | 250 | 12500 |
| | | | | | |
| 6.0 | Window Air Conditioner | | | | |
| | Supply , installation , testing and commisioning of Window Acs complete with transformer, electrical cabling as required along with mounting arrangement and Voltage stablizer. Complete in all respect as per specifications. The units should have 3 star rating from BEE. | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| | Capacity | | | | |
| 6.1 | 1.5 TR | 1 | Nos. | 44967 | 44967 |
| 6.2 | 2.0 TR | 1 | Nos. | 53132 | 53132 |
| | | | | | |
| 7.0 | Propeller Fans | | | | |
| | Supply, instalation, testing and commissioning of direct driven Propeller fan for exhaust air as shown in drawings. Each fan shall be complete with permanent split capacitor or shaded pole motor, mounting plate, accessories like wire guard, bird screen and fixed louvers for weather protection as required. Fan selection arrangement and Electrical characteristics shall be as follows: | | | | |
| 7.1 | 150 mm dia 900 RPM fan suitable for 220 +/- 10% volts, 50 Cycles, 1 Phase AC Supply | 1 | Nos | 2700 | 2700 |
| 7.2 | 225 mm dia 900 RPM fan suitable for 220 +/- 10% volts, 50 Cycles, 1 Phase AC Supply | 1 | Nos | 3200 | 3200 |
| 7.3 | 300 mm dia 900 RPM fan suitable for 220 +/- 10% volts, 50 Cycles, 1 Phase AC Supply | 1 | Nos | 4500 | 4500 |
| | | | | | |
| 8.0 | GSS DUCTING | | | | |
| | Supply, installation, testing and balancing of G.S.S ducting of following thickness including necessary supports, hangers, nut bolts, gaskets, splitter dampers, vanes canvass connections etc. complete as per specifications & drawings: | | | | |
| 8.1 | 24 gauge | 120 | Sqm. | 750 | 90000 |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| 8.2 | 22 gauge | 90 | Sqm. | 884 | 79560 |
| 8.3 | 20 gauge | 30 | Sqm. | 1068 | 32040 |
| | | | | | |
| 9.0 | ALUMINIUM DUCTING | | | | |
| | Supply, fabrication, installation and testing of aluminium ducts in accordance with the approved shop floor drawing and specifications. Material should confirm to IS 737 latest edition. | | | | |
| | | | | | |
| 9.1 | 22 gauge | 70 | Sqm. | 877 | 61390 |
| 9.2 | 20 gauge | 60 | Sqm. | 1044 | 62640 |
| 9.3 | 18 gauge | 10 | Sqm | 1314 | 13140 |
| | | | | | |
| 10.0 | FIRE DAMPERS | | | | |
| | | | | | |
| 10.1 | Supply, installation, testing and commissioning of motorized combined smoke & fire dampers made out of GI sheet of at least 120 minutes fire rating complete with GI damper of required size, smoke sensor, etc as per specifications and shop drawings. | 1 | Sqm | 9510 | 9510 |
| 10.2 | Actuator & Control panels | 2 | Nos. | 11887 | 23774 |
| | | | | | |
| 11.0 | CEILING DIFFUSERS | | | | |
| | | | | | |
| 11.1 | Supply, Installation, testing and balancing of square/circular supply air diffusers of powder coated extruded aluminium construction with attached volume control dampers as per specs. and drawings. | 3 | Sqm | 9982 | 29946 |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| 11.2 | Supply, installation, testing and balancing of square/circular return air diffusers of powder coated extruded aluminium construction without volume control dampers. | 3 | Sqm | 7368 | 22104 |
| 12.0 | VOLUME CONTROL DAMPERS | | | | |
| | Supply, installation and testing of volume control dampers of GI sheet, box type to be provided in ducts complete with suitable links, levers and quadrants for manual control of air volume and air balancing as per specifications and drawings. | 2 | Sqm | 5706 | 11412 |
| 13.0 | GRILLES | | | | |
| | Supply, installation, testing and balancing of supply/return air grilles with/without volume control dampers of powder coated extruded aluminium construction suitable for installation in walls, false ceiling boxing etc as per specifications and drawings. | | | | |
| 13.1 | Supply air grilles in single louvers with volume control dampers. | 1 | Sqm | 9388 | 9388 |
| 13.2 | Return air grilles in single louvers without volume control dampers. | 1 | Sqm | 5169 | 5169 |
| 14.0 | LAMINAR FLOW DIFFUSERS | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| 14.1 | Providing & fixing of stainless steel plenum duly reinforced and made 100% air tight complete with 55% free perforated grilles(18 Gauge SS) at bottom for laminar flow in OTs. The plenum shall be insulated with 15 mm closed cell polyethylene insulation & shall be manufactured & installed by specialised agency as per designed to be approved by customer/Consultant | | | | |
| | Size: 1200 x 600 | 12 | Nos. | 13272 | 159261 |
| 14.2 | Providing & fixing of aluminium powder coated grilles with 60% face area. The grill shall be complete with damper & complete 25 mm thick aluminium filters | 1 | Sqm | 8000 | 8000 |
| 15.0 | DUCTING INSULATION | | | | |
| 15.1 | Supply and fixing of 15 mm thick foil faced FR Closed Cell Chemically Crossed Linked Poly Ethylene Foam insulation (fire retardant type) density not less than 33 Kg/CuM, 'K' value not more than 0.028 Kcal/degC with adhesive tape etc. on ducts complete for supply air ducting as per the specifications and approved shop drawings. | 300 | Sqm | 449 | 134700 |
| 16.0 | DUCT ACOUSTIC LINING | | | | |
| | Supply,application and fixing of resin bonded fibre glass hard board acoustic insulation in supply air ducting/plenum covered with tissue paper and perforated aluminium sheet as specified. | 20 | Sqm | 699 | 13980 |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|---|-----------|-----------|-----------------|-------------------|
| 17.0 | Supply, installation, testing, commissioning and balancing of fresh air opening comprising of powder coated extruded aluminium louvers with bird screen, projection with frame and volume control damper with lever mounting arrangement etc. as per specifications and drawings. | 1 | Sqm | 8300 | 8300 |
| 18.0 | AHU PANEL | | | | |
| | Supply, installation, testing and commissioning of cubicle type totally enclosed wall/floor mounted free standing type, dust, damp and vermin proof for AHU made of 2mm thick CRCA sheet steel in compartmentalized design as per specification and drawings. These distribution boards shall be mounted on 50x50x6 MS angle frame work grouted to floor/walls of recessed. The rate includes the angle iron frame, support, painting, numbering, earthing etc. as required | | | | |
| 18.1 | AHU STARTER PANEL | | | | |
| | INCOMER : | | | | |
| | 1 No. 100 Amps 25 KA FP MCCB, 1 no of 0-125 amp ammeter with selector switch & CT's , 1 no. 0-500 volt voltmeter with selector switch & fuses , 1set of indicating lights (RYB). | | | | |
| | Bus Bar | | | | |
| | 100 A TPN Aluminium bus bar 415V , 50 Hz. | | | | |
| | OUTGOINGS : | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|--------------|--|-----------|-----------|-----------------|-------------------|
| | 1 set - 63 A, 415 V 15 KA FP MCCB, single phase preventor, suitable starter for 7.5/10 HP motor with thermal overload protection and spare NO-NC contacts for interlocking, ON-OFF indication lamps with push button for AHU motor as required. | | | | |
| | 1 set - 63 A, 415 V 15 KA FP MCCB, contactors of suitable rating for each bank , ON-OFF indication lamps for winter humidifier . | | | | |
| | 1 set - 63 A, 415 V 15 KA FP MCCB, contactors of suitable rating for each bank , ON-OFF indication lamps for winter heating. | | | | |
| | 1 set - 32 A, 415 V 15 KA FP MCCB , as spares. | | | | |
| | 1 set - 16 A, 415 V 10 KA FP MCCB . | | | | |
| | Complete panel as above | 1 | Panel | 90000 | 90000 |
| 19.0 | CABLING | | | | |
| | Supplying, laying, effecting proper connections, testing & commissioning of following size of 1.1 kv PVC insulated aluminium conducting armoured cables along with necessary cable tray as per IS 1554 Part- 1 laid on surface of wall/ceiling etc. & termination with brass compression glands as required. | | | | |
| 19.1 | 3 C X4 sq. mm. Cable | 50 | Rmt | 88 | 4400 |
| 19.2 | 4 C X10 sq. mm. Cable | 50 | Rmt | 133 | 6650 |
| 19.3 | 4 C X16 sq. mm. Cable | 30 | Rmt | 147 | 4410 |
| 19.4 | 3.5 X35 sq.mm Cable | 60 | Rmt | 325 | 19500 |
| | | | | | |

| ITEM No 1 | DESCRIPTION OF ITEM 2 | QTY. 3 | UNIT 4 | RATE (Rs.) 5 | AMOUNT (Rs.) 6 |
|-----------------|---|-----------|-----------|-----------------|-------------------|
| 20.0 | Supply & installation of following sizes of perforated MS cable trays including horizontal & vertical bends, reducers, tees, cross members and other accessories as required and duly supported from the ceiling/wall/floor with MS suspenders/supports and including painting etc. as required | | | | |
| 20.1 | 150 mm widthx50 mm deep x1.6 mmthickness | 20 | Rmt | 300 | 6000 |
| 20.2 | 100 mm widthx50 mm deep x1.6 mmthickness | 25 | Rmt | 180 | 4500 |
| 21.0 | EARTHING | | | | |
| 21.1 | Earth pits with GI earth plate of size 600mmx600mmx6mm thick including all accessories , down watering GI pipes 40mm dia and providing masonry enclosure with cover plate having interlocking arrangement and watering pipe etc. with charcoal of or coke and salt) complete as required | 1 | Set | 7500 | 7500 |
| 21.2 | Providing and fixing GI earth strip on walls/ trenches complete as per specifications and as required. | | | | |
| 21.2.1 | 25mm x 3mm | 50 | Rmt | 150 | 7500 |
| 22.0 | Providing and fixing earth wire of complete as per specifications as required. | | | | |
| 22.2 | 8 SWG wire | 100 | Rmt | 45 | 4500 |
| TOTAL | | | | | 3721651 |
| END OF HVAC BOQ | | | | | |

| BILL OF QUANTITY | | | | | |
|--|--|-------------|------------|----------------------------|---------------------|
| OPERATION THEATRE (Major) | | | | | |
| Supply Installaton Testing and Commissioning of Operation Theatre (Major) and One year defect liability period for 50 beded Chattisgarh | | | | | |
| A | | | | | |
| SL. NO. | ITEM DESCRIPTION | UNIT | QTY | MARKET RATE (Rs.) | AMOUNT (Rs.) |
| 1 | Ceiling System | lot | 1 | 375000 | 375000 |
| | 40 mm thick Double skin totally flush Walkable false ceiling panels made with 0.8 mm thick Galvanised Powder coated Skin Pass (GPSP) sheet on both side with 36 ± 2 kg/m ³ density PUF as infill, with suitable Ceiling grid and supporting hardware. Joints shall be sealed with cleanroom compatible silicon sealant. Panel will be class "0", fire rated.Factory made cutout 12 Nos. (Approx.) in the ceiling panel for light fixture Details as per technical specification. Laminar flow Tent is to be made of 0.8 mm thick SS-304 grade No.-4 finish sheet and Provision for flanges for Duct connections and 6 mm perforated grill. Size 8ft. x 8ft x 700 mm ht. (Duct connection and Diffusers/Dampers, filters if any required are in the scope of HVAC part). Tent will be made so as Laminar Flow System to integrate with OT equipment. | | | | |
| 2 | Wall with Corner Coving | lot | 1 | 150,000 | 150000 |
| | Epoxy painting and Extruded aluminium powder coated/Anodized clip on type covings for the entire wall to wall and wall to ceiling. R-70 , 3D internal/ external corner coves Details as per technical specification. | | | | |
| 3 | Swing door | Nos | 1 | 195,000 | 195000 |
| | 44 mm thick doors made with Poly Urethene painted 0.8mm thick GPSP sheets on both sides with PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, door closure, double glazed view glass of std size, Stainless Steel Ball Bearing butt hinges and provision for concealed automatic door bottom Drop seal etc. Supply & Installation of double glazed view panels with flush design, with 6mm thick float glass fixed in double panel with necessary arrangements Details as per technical specification.. | | | | |

| | | | | | |
|---|--|-----|----|---------|---------------|
| 4 | Peripheral Light | Nos | 12 | 15,000 | 180000 |
| | Peripheral lights and clean room luminaries fitted in the frame should be 12 in numbers for each OT. The fluorescent lamps 54 W 16mm Ø- 3 nos with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution. Details as per technical specification. | | | | |
| 5 | OT Control Panel | Nos | 1 | 234,000 | 234000 |
| | Tile based Membrane type Operation Theatre Surgeon Control Panel (6 service Tiles) consisting of display like Real time, Count down time, lighting control through dimmer, Telephone, Gas pressure set point, Alarm, Room Temperature and Relative Humidity. mounted flush in the theatre wall with Distribution Board complete with all accessories etc. (size 650mm x 650mm). Lighting Control along with i. Day time clock -Digital , ii. Elapsed Time Clock -Digital details as per technical specification. | | | | |
| 6 | X-Ray Film Viewer | Nos | 1 | 62,300 | 62300 |
| | The two (2)-plate viewing with 3 pieces of high frequency fluorescent lamps X-Ray Viewing Screen should be designed to provide flicker free luminance for clear film viewing. Each plate should be able to illuminate films upto 14"x17" size and complete as required with all accessories as per technical specification. | | | | |
| 7 | Writing Board | Nos | 1 | 17,100 | 17100 |
| | Writing Board as operating list Board of size-1000x700x60deep should be made of ceramic having magnetic properties and should be flushed to the wall of the operating Room and complete as required with all accessories as per technical specification.. | | | | |
| 8 | Built-in Storage Unit | Nos | 1 | 61,500 | 61500 |
| | Storage Unit should be made out of 1.50 mm thick AISI-304 Stainless steel. The storage unit should be divided 2 or more parts and each part should have individual glass doors with high quality locking system and complete as required with all accessories as per technical specification... | | | | |

| | | | | | |
|------------------------|--|------|---|-----------|----------------|
| 9 | Distribution Board and Electrical wiring, conduiting with fixture inside the Operation theatre | lot | 1 | 180000 | 180000 |
| | All high voltage equipment should be installed in a separate enclosure. And Laying of PVC conduits, Modular Switch Boxes, Modular Switches-sockets, Power and Light wiring including Earthing wire for all the lighting controls, Pendant and other equipment fixtures and fittings inside the theatre Wiring with low leakage current wires of FRLS wires should be as per requirements and complete as required with all accessories as per technical specification. | | | | |
| 10 | Operation Theatre Flooring (Antistatic Conductive Flooring) | lot | 1 | 199000 | 199000 |
| | A floor should be provided, flat to within a tolerance of +/- 3mm over any 3-metre area. Onto this sub floor, a self-leveling compound should be laid prior to laying of the floor finish and complete as required with all accessories as per technical specification. | | | | |
| 11 | Ceiling Mounted Pendant Anaesthetic Pendant (Single Arm) | Nos | 1 | 175,000 | 175000 |
| | Supply installation and commissioning of Single Arm Movable Type with 1000 mm long arm with Horizontal Movement and complete as required with all accessories as per technical specification. . | | | | |
| 12 | Ceiling Mounted Surgeon Pendant-Double Arm Pendant | Nos. | 1 | 220,000 | 220000 |
| | Supply installation and commissioning of Double arm Surgeon Pendant complete as required with all accessories as per technical specification. . | | | | |
| 13 | Ceiling OT Light | Nos | 1 | 1,125,000 | 1125000 |
| | Dual Dome LED Surgical Lighting System with one dedicated Spring-Arm Suspension and complete as required with all accessories as per technical specification. | | | | |
| In words Rupees | | | | | 3173900 |

| BILL OF QUANTITY | | | | | |
|----------------------------------|---|-------------|------------|---------------------------------------|---------------------|
| OPERATION THEATRE (Minor) | | | | | |
| B | Supply Installaton Testing and Commissioning of Operation Theatre and One year defect liability period for 50 beded Chattisgarh | | | | |
| SL. NO. | ITEM DESCRIPTION | UNIT | QTY | MARKET RATE (Rs.) (In Figure) | AMOUNT (Rs.) |
| 1 | Ceiling System | lot | 1 | 375000 | 375000 |
| | 40 mm thick Double skin totally flush Walkable false ceiling panels made with 0.8 mm thick Galvanised Powder coated Skin Pass (GPSP) sheet on both side with 36 ± 2 kg/m ³ density PUF as infill, with suitable Ceiling grid and supporting hardware. Joints shall be sealed with cleanroom compatible silicon sealant. Panel will be class "0", fire rated.Factory made cutout 12 Nos. (Approx.) in the ceiling panel for light fixture Details as per technical specification. | | | | |
| 2 | Wall with Corner Coving | lot | 1 | 105,000 | 105000 |
| | PU painting and Extruded aluminium powder coated/Anodized clip on type covings for the entire wall to wall and wall to ceiling. R-70 , 3D internal/ external corner coves Details as per technical specification. | | | | |
| 3 | Swing door | Nos | 1 | 195,000 | 195000 |
| | 44 mm thick doors made with Poly Urethene painted 0.8mm thick GPSP sheets on both sides with PUF as infill, 1.2 mm thick GPSP powder coated door frames totally flush with the wall panels, hardware like push plates, handles, door closure, double glazed view glass of std size, Stainless Steel Ball Bearing butt hinges and provision for concealed automatic door bottom Drop seal etc. Supply & Installation of double glazed view panels with flush design, with 6mm thick float glass fixed in double panel with necessary arrangements. Details as per technical specification. | | | | |
| 4 | Peripheral Light | Nos | 12 | 15,000 | 180000 |
| | Peripheral lights and clean room luminaries fitted in the frame should be 12 in numbers for each OT. The fluorescent lamps 54 W 16mm Ø- 3 nos with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution. Details as per technical specification. | | | | |

| | | | | | |
|------------------------|---|-----|---|---------|----------------|
| | ii. Elapsed Time Clock -Digital | | | | 0 |
| 5 | X-Ray Film Viewer | Nos | 1 | 62,300 | 62300 |
| | The two (2)-plate viewing with 3 pieces of high frequency fluorescent lamps X-Ray Viewing Screen should be designed to provide flicker free luminance for clear film viewing. Each plate should be able to illuminate films upto 14"x17" size and complete as required with all accessories as per technical specification. | | | | |
| 6 | Built-in Storage Unit | Nos | 1 | 61,500 | 61500 |
| | Storage Unit should be made out of 1.50 mm thick AISI-304 Stainless steel. The storage unit should be divided 2 or more parts and each part should have individual glass doors with high quality locking system and complete as required with all accessories as per technical specification... | | | | |
| 7 | Distribution Board and Electrical wiring, conduiting with fixture inside the Operation theatre | lot | 1 | 125000 | 125000 |
| | Electrical Distribution Board along with all high voltage equipment should be installed in a separate enclosure. AndLaying of PVC conduits, Modular Switch Boxes, Modular Switches-sockets, Power and Light wiring including Earthing wire for all the lighting controls and other equipment fixtures and fittings inside the theatre Wiring with low leakage current wires of FRLS wires should be as per requirements and complete as required with all accessories as per technical specification. | | | | |
| 8 | Operation Theatre Flooring (Antistatic Conductive Flooring) | lot | 1 | 199000 | 199000 |
| | A floor should be provided, flat to within a tolerance of +/- 3mm over any 3-metre area. Onto this sub floor, a self-leveling compound should be laid prior to lying of the floor finish and complete as required with all accessories as per technical specification. | | | | |
| 9 | Ceiling OT Light | Nos | 1 | 525,000 | 525000 |
| | Surgical Lighting System with the dual reflector complete as required with all accessories as per technical specification. | | | | |
| In words Rupees | | | | | 1827800 |
| Grand Total -OT | | | | | 5001700 |
| END OF OT- BOQ | | | | | |
| | | | | | |
| | | | | | |