

TENDER

FOR

CONSTRUCTION OF MULTISTORIED BUILDING AT THE

CAMPUS OF CORPORATE HEAD OFFICE OF HLL,

POOJAPPURA,

THIRUVANANTHAPURAM

PART-IV
PRICE BID

TENDER NO. HLL/ID/ 14/44
JULY 2014



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1 COMMERCIAL CONDITIONS

1.0.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.

1.0.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for **Construction of multi storied building at the campus of Corporate Head office of HLL, Poojappura, Thiruvananthapuram.**

1.0.3 The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment, labour or any other reasons whatsoever during the contract period and valid extension on the case may be.

1.0.4 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

1.1 UNIT RATES

1.11 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

1.2 BRIEF DESCRIPTION OF PRICING

1.2.1. Unforeseen difficulties for which provision has not been made in the tender will in no way relieve the successful tenderer from the full execution of the work.

1.2.2 The price quoted shall be the final amount for this finished work.

1.3 INCOME TAX

Any payment to the contractor as per contract, will be made after deducting income tax as per the rules and regulations.

1.4 SALES TAX AND EXCISE DUTY

The tenderer shall clearly indicate sales tax, Excise and other duties as applicable in his offer for carrying out this work.

1.5 SUBMISSION OF BILL

1.5.1 The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.

1.6 EXTRA ITEMS

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the employer.

1.6.1 All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

1.6.2 All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

1.7 OVER TIME WORK

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Engineer-in-charge. He should also

provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

- 1.7.1. The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision of the Engineer-in-charge on any point of dispute between the various parties shall be final and binding.
- 1.7.2. It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.
- 1.7.3. The contractor shall co-operate with other agencies appointed by the owners for the work to proceed smoothly with the least possible delay and to the satisfaction of the owners, architects and the consultants.
- 1.8.4. The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purposes.

2 SPECIAL CONDITIONS

2.1. EXECUTION WORK

- 2.1.1. The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Engineer-in-charge from time is to be carried out and completed in all parts to the entire satisfaction of the Employer. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

2.2. CERTIFICATE OF COMPLETION

- 2.2.1 The contractor shall intimate to the Engineer-in-charge in writing as and when the works are completed and put into beneficial use in order to enable the consultants to check certify to the owners to take over the plants.
- 2.2.2 The work shall not be considered as completed and put into beneficial use until the consultants have certified in writing that the same has been completed and put into beneficial use.
- 2.2.3 The defects liability period of one year shall commence from date of such completion or any specific date mentioned therein.

2.3. OTHER CONDITIONS

- 2.3.1 The contractor has to do all liasoning works and obtain statutory approval from Electricity board, Electrical inspectorate and any another body if required for the successful energisation of electrical supply. No charges will be paid to the contractor in this regard. However, statutory fees if any will be paid by HLL. All necessary drawings and documents required for the same has to be prepared and submitted by the contractor with the concurrence and approval of the Engineer- in - charge.

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS

| S.No. | MATERIALS | PREFERED MAKE |
|--------------|---|---|
| 1 | LT UG cables | Gloster / Torrent / Havells / Polycab |
| 2 | LT cable gland, lugs | Comet / Dowell / Jainson / Hex |
| 3 | MCCB | L&T / Siemens / Schneider / GE |
| 4 | SDFU, Isolators | L&T / Siemens / Schneider / GE |
| 5 | Relays | L&T / GE / Schneider / Siemens. |
| 6 | Resin cast CTs | Kappa / Intrans / Resitech / PGR Powertech |
| 7 | Measuring Instruments | AE / Conserv / Rishab / Schneider / L&T |
| 8 | Starters /Contractor /Bi metal Relay | L&T / Siemens / Schneider / GE / Beluk |
| 9 | Push Button /Indicating Lamps (LED Type) | Siemens / L&T / Schneider |
| 10 | Control Fuse Base with HRC Fuse | L&T / GE / Siemens / Schneider |
| 11 | Light fitting | Philips / Wipro / GE |
| 12 | Ceiling fan, Wall, Exhaust fans | Crompton / Usha / Bajaj |
| 13 | MCBs, DBs, Industrial plugs | Legrand / Schneider / Siemens |
| 14 | PVC wires (Copper) | RR Kables / Finolex / Panasonic / Lapp Kabel |
| 15 | Cat 6 UTP, telephone, co-axial cable | Finolex / RR Kabel / Panasonic / Belkin |
| 16 | Modular Switches | Legrand-Arteor / MK-Aspect / Panasonic-Vision / Crabtree - Murano |
| 17 | PVC Conduit & accessories, Casing & capping | Precision / Avon Plast / /Konseal / Balco |
| 18 | Cable tray | Profab / Patny / Indiana / Elcon |
| 19 | Lamps | Philips / Wipro / GE / Osram |

BILL OF QUANTITIES

ABSTRACT

| SEC. | DESCRIPTION OF ITEM | AMOUNT (Rs.) |
|-------------|----------------------------|---------------------|
| 1 | CIVIL WORKS | |
| 2 | PLUMBING WORKS | |
| 3 | ELECTRICAL WORKS | |
| | GRAND TOTAL | |

**CONSTRUCTION OF MULTISTORIED BUILDING AT THE CAMPUS OF CORPORATE HEAD OFFICE OF HLL,
POOJAPPURA, THIRUVANANTHAPURAM**

| CIVIL WORKS | | | | | | |
|--------------------|---------------------|---|-----------------|-------------|---|---------------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 1 | LS | Dismantling the existing R.C.C double storied guest house building and foundation after providing necessary fencing all round the building without any disturbance to the inhabitants and stacking the serviceable materials such as doors, windows, grills, electrical fitting etc. as per the direction of the Engineer in charge and disposing off the unserviceable materials every day from the site etc complete. | 1 | Each | | |
| 2a | 2.6.1 | 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 upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed: All kinds of soil | 920.00 | m3 | | |
| 2b | 2.6.1 +2.26.1 | Do do 1.5m to 3.0m do do | 145.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|---------------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 2c | 2.6.1 + (2.26.1)x 2 | Do do 3.0m to 4.5m do do | 45.00 | m3 | | |
| 3 | 2.25 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations yard levelling etc., in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering etc complete, and form uniform level. | 424.00 | m3 | | |
| 4 | 1.1.2.8 | Conveying and disposing off the excess earth from the site | 686.00 | m3 | | |
| 5 | 20.1 | Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) : (Rotaring machine should be used for boring pile hole) | | | | |

| CIVIL WORKS | | | | | | |
|-------------|-----------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 5a | 20.1.4 & 20.1.5 | 600 mm dia piles | 264.00 | m | | |
| 5b | 20.1.5 & 20.1.6 | 800 mm dia piles | 1760.00 | m | | |
| 6 | 20.6.2. | Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Single pile above 50 tonne and upto 100 tonne capacity: | | | | |
| 6a | 20.6.2.1 | Initial test | 2 | Each | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 6b | 20.6.2.2 | Routine test. | 2 | Each | | |
| 7 | 4.1.3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works up to plinth level. :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) | 12.00 | m3 | | |
| 8a | 4.2.3 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works up to floor V level. :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) | 70.00 | m3 | | |
| 8b | 4.2.3 + 4.14 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All works above floor V level and up to floor IX level. :1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) | 47.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 9 | 4.1.5 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size). | 85.00 | m3 | | |
| 10a | 4.2.8 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to floor V level :1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | 40.00 | m3 | | |
| 10b | 4.2.8 + 4.14 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work above floor V level and up to floor IX level: 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | 27.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 11 | 5.37 | Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, 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). | | | | |
| 11a | 5.37.1 | a) All work up to plinth level. (M25) | 435.00 | m3 | | |
| 11b | 5.37.2 | All work above plinth level up to floor V level -RCC work (M25 concrete) | 876.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|---------------|---|----------|---------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 11c | 5.37.2 + 5.38 | All work above floor V level and up to floor IX level -RCC work (M25 concrete) | 421.00 | m3 | | |
| 12 | 5.35 | Add for using extra cement in the items of design mix over and above the specified cement content therein M25 concrete. | 1050.00 | quintal | | |
| 13 | 4.2.5 | 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for dummy column and lift wall | 12.00 | m3 | | |
| 14 | 5.9 | Centering and shuttering including strutting, propping etc., and removal of form for, | | | | |
| 14a | 5.9.1 | Foundations, Footings, bases of columns, etc for mass concrete. | 460.00 | m2 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 14b | 5.9.2 | Walls any thickness including attached pilasters butteresses, Plinth and string courses etc. | 1450.00 | m2 | | |
| 14c | 5.9.3 | Suspended floors, roofs, landings, Balconies and access platform | 3950.00 | m2 | | |
| 14d | 5.9.5 | Lintel, beams, plinth beams, girders, bressumers and cantilevers | 3800.00 | m2 | | |
| 14e | 5.9.6 | Columns and Pillars, Piers, Abutments, Posts and Struts. | 1460.00 | m2 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 14f | 5.9.7 | Stairs (excluding landings) except spiral-staircases. | 400.00 | m2 | | |
| 14g | 5.9.19 | Weather shade, chajjas, corbels etc. including edges | 300.00 | m2 | | |
| 15 | 5.22.6 | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto Plinth level. Thermo – Mechanically Treated Bars | 340950 | kg | | |
| 16 | 6.1.2 | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand) | 3.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 17 | 6.4.2 | Brick work with F.P.S bricks of class designation 5.0 in superstructure above plinth level up to floor v level in all shapes and sizes in: Cement mortar 1: 6 (1 cement :6 coarse sand) | 30.00 | m3 | | |
| 18 | 6.4.2 + 6.5 | Brick work with F.P.S bricks of class designation 5.0 in superstructure above floor V level up to floor IX level in all shapes and sizes in: Cement mortar 1: 6 (1 cement :6 coarse sand) | 25.00 | m3 | | |
| 19 | 4.7.2 | Providing and fixing up to floor five level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size). | 345.00 | m3 | | |
| 20 | 4.7.2 + 4.14 | Providing and fixing above floor five level and up to floor IX level precast cement concrete solid block including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete : 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size). | 275.00 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|---------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 21 | 6.13.1 | Half brick masonry with F.P.S brick of class designation 7.5 in superstructure above plinth level up to floor V level : CM 1:3 (1 cement : 3 coarse sand) | 210.00 | m2 | | |
| 22 | 6.13.1 + 6.14 | Half brick masonry with F.P.S brick of class designation 7.5 in superstructure above floor V level up to floor IX level : CM 1:3 (1 cement : 3 coarse sand) | 160.00 | m2 | | |
| 23 | 6.15 | Extra for providing and placing in position 2 Nos. 6mm dia M.S bars at every third course of half brick masonry (with FPS brick) | 370.00 | m2 | | |
| 24 | 9.1.1 | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood | 0.30 | m3 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 25 | 9.5.1.1 | Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws excluding, panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Second class teak wood :35 mm thick shutters | 6.00 | m2 | | |
| 26 | 9.7.1 | Providing and fixing paneling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Paneling for panelled or panelled and glazed shutters 25 mm to 40 mm thick: Second class teak wood | 4.00 | m2 | | |
| 27 | 9.74.1 | Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. Complete 250x10 mm | 9 | Each | | |
| 28 | 9.76 | Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality). | 3 | Each | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 29 | 9.81.1 | Providing and fixing bright finished brass handles with screws etc. complete : 125 mm | 6 | Each | | |
| 30 | 9.82 | Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete. | 3 | Each | | |
| 31 | 21.1.1.2 | 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): For fixed portion: Powder coated aluminium (minimum thickness of powder coating 50 micron) | 1230.00 | kg | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 32 | 21.1.2.2 | 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). Powder coated aluminium (minimum thickness of powder coating 50 micron) | 820.00 | kg | | |
| 33 | 21.3.3 | 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): With float glass panes of 8 mm thickness | 55.00 | m2 | | |
| 34 | 21.4.2 | Providing and fixing double action hydraulic floor spring of approved brand and manufacture (Dorma) 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. With brass cover plate minimum 1.25 mm thickness | 45 | Each | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 35 | 21.2.2 | 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: Pre-laminated particle board with decorative lamination on both sides | 31 | m2 | | |
| 36 | 21.8.1 | Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width. | 230.00 | m | | |
| 37 | 21.12.2 | 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. Powder coated minimum thickness 50 micron aluminium tubular handle bar. | 40 | Each | | |
| 38 | 21.13 | Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete. | 40.00 | Each | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 39 | 9.83 | Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete. | 45.00 | Each | | |
| 40 | 21.18 | Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately). | 70.00 | m2 | | |
| 41 | 9.147 | Providing and Fixing, uPVC factory made, white colour casement/sliding window and door made of extruded profiles. Profiles of frames and sash will be mitred cut and fusion welded at all corners including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 ± 0.2mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as per direction of Engineer-in-charge. (Glazing, hardware hinges and fitting etc. to be paid separately.) Note:- Each member of window to be measured separately with clear length. | | | | |
| | 9.147.2 | Casement Window (With friction hinge & outward opening) | | | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| a) | 9.147.2.1 | Casement Frame (67mm x 62mm) | 450.00 | m | | |
| b) | 9.147.2.2 | Casement Window Sash/Mullion (67mm x 75mm) (style, rail and intermediate section) | 830.00 | m | | |
| c) | 9.147.2.3 | Casement Glazing bead (35mm x 18 mm) | 730.00 | m | | |
| 42 | 9.148 | Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/ top hung uPVC windows, of approved quality with necessary stainless steel screws etc. as per direction of Engineer-in-charge. | | | | |
| a) | 9.148.1 | 200 x 19 x 1.9 mmmm | 90.00 | Each | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| b) | 9.148.3 | 300 x 19 x 1.9 mm | 150.00 | Each | | |
| 43 | 9.149 | Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete. | 370.00 | Each | | |
| 44 | 9.68.1 | Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. Complete: 300 mm weighing not less than 200 gms | 230.00 | Each | | |
| 45 | 21.3.2 | Providing and fixing glazing in uPVC 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. : With float glass panes of 5.50 mm thickness | 140.00 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 46 | 9.117.1 | Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance \pm 1mm), with wall thickness 2.0mm (\pm 0.2mm), corners of the door frame to be joined with galvanized brackets and stainless steel screws, joints mitered and plastic welded. The hinged side vertical of the frames reinforced by galvanized M.S. tube of size 19x19 mm and 1mm (\pm 0.1mm) wall thickness and 3 nos. Stainless steel hinged fixed to the frame complete as per manufacturers Specification and direction of engineer-in-charge: Extruded section profile size 48x40 mm | 180.00 | m | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 47 | 9.118.1 | Providing and fixing existing door frames: 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm ($\pm 0.2\text{mm}$) within built edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized / plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanized M.S. tube of size 20x20 mm and 1mm ($\pm 0.1\text{mm}$) wall thickness. The lock rail made up of " H" section, a UPVC hollow section of size 100x24 mm and 2mm ($\pm 0.2\text{mm}$) wall thickness, fixed to the shutters styles by means of plastic/ galvanized M.S.'U' cleats. The shutter frame filled with a UPVC multi chambered single panel of size not less than 620mm, having over all thickness of 20mm and 1mm ($\pm 0.1\text{mm}$) wall thickness. The panes filled vertically and tie bar at two places by inserting horizontally 6mm galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer- in - charge. (for W,C and bath room door shutter). | 55.00 | m2 | | |
| 48 | 10.28 | Providing and fixing stainless steel (Grade 304) railling 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 bolt complete i/c fixing the railling 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 Engineering-in-charge .(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) | 1150.00 | kg | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 49 | 9.48.2 | 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 coat with approved steel primer all complete: Fixed to openings with rawl plugs screws etc. | 3310.00 | kg | | |
| 50 | 8.2.2.2 | 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, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade: Area of slab over 0.50 sqm.: Lowest retail price not less than Rs. 2500.00/m2(Granite to be selected by the Engineer in charge) | 1150.00 | m2 | | |
| 51 | 7.38.1.1 & 7297 & 2750 | Stone cladding work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1cement : 3coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade. Granite stone 18mm thick of any colour and shade. Lowest retail price not less than Rs. 2500.00/m2 (Granite to be selected by the Engineer in charge) | 90.00 | m2 | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 52 | 8.6 | Mirror polishing on marble work/Granite stone work where ever required to give high gloss finish complete. | 90.00 | m2 | | |
| 53 | 8.5 | Extra for providing opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in granite stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc.complete. | 35.00 | Each | | |
| 54 | 8.10.2 | Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade | 5.00 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 55 | 11.20.1 | Chequerred precast cement concrete tiles 22mm thick in footpath, Ramp & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) Light shade using white cement | 630.00 | m2 | | |
| 56 | 11.41.2 | Providing and laying polished vitrified floor tile in different sizes (thickness to be specified by the manufacturer) with Acid and / or Alkali resistant tiles with water absorptions less than 0.08% and confirming 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. (Lowest retail price not less than Rs. 880/m2) : Size of Tiles 60 x 60 cm (Tiles to be selected by the Engineer in charge) | 1700.00 | m2 | | |
| 57 | 11.46.2 | 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. Size of Tile 600x600 mm (Lowest retail price not less than Rs. 880/m2) (Tiles to be selected by the Engineer in charge) | 120.00 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 58 | 11.39 | Providing and laying rectified Anti skid Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 15622 of approved make in colours white, Ivory, Grey, Fume, Red Brown, 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. (Lowest market rate not less than Rs. 515/m2) (Tiles to be selected by the Engineer in charge) | 210.00 | m2 | | |
| 59 | LMR | Providing and fixing 1st quality joint free germs free ceramic glazed wall tiles 300x600mm size confirming to IS: 15622(thickness to be specified by the manufacture)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 12mm thick bed of cement Mortar 1:3 (1 cement :3Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Wet area) (Lowest market rate not less than Rs. 860/m2) (Tiles to be selected by the Engineer in charge. | 970.00 | m2 | | |
| 60 | 13.1.1 | 12mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) for internal walls, column and beams etc | 9990.00 | m2 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 61 (a) | 13.2.1 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) up to 10m height for external walls | 900.00 | m2 | | |
| 61 (b) | 13.2.1 + 13.22 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 10m to 13m height -external walls | 230.00 | m2 | | |
| 61 (c) | 13.2.1 + (13.22)*2 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 13m to 16m height -external walls | 229.14 | m2 | | |
| 61 (d) | 13.2.1 + (13.22)*3 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 16m to 19m height -external walls | 229.14 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 61 (e) | 13.2.1 + (13.22)*4 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 19m to 22m height -external walls | 229.14 | m2 | | |
| 61 (f) | 13.2.1 + (13.22)*5 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 22m to 25m height -external walls | 229.14 | m2 | | |
| 61(g) | 13.2.1 + (13.22)*6 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 25m to 28m height -external walls | 360.00 | m2 | | |
| 61 (h) | 13.2.1 + (13.22)*6 | 15mm cement plaster on the rough side of single or half brick wall of mix : 1 : 4 (1 cement : 4 fine sand) 25m to 28m height -external walls | 510.00 | m2 | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 62 | 13.9.2 | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement :20 mm cement plaster to top of slab and sunshade | 750.00 | m2 | | |
| 63 | 13.16.1 | 6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) for ceiling plastering | 5650.00 | m2 | | |
| 64 | 13.9.1 | Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster. | 410.00 | m2 | | |
| 65 | 13.80 | 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. | 13900 | m2 | | |
| 66 | 13.43.1 | Applying one coat of cement primer of approved brand and manufacture on wall surface – Cement Primer | 410.00 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 67 | 13.60.1 | Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade –Two or more coats on new work.-internal walls | 13900 | m2 | | |
| 68 | LMR | Lacquer/melamine polishing the wood work including cost of wood thinner, sealer, lacquer/melamine polish, including cost of cotton, sand paper etc. complete | 16.00 | m2 | | |
| 69 | 13.48.3 | Painting Steel work with Delux Multi surface paint to give an even shade. Two or more coat applied @ 0.90 ltr/10sqm over an over an under coat of primer applied @ 0.80ltr/10sqm of approved brand or manufacture. | 155.00 | m2 | | |
| 70 | 13.46.1 | Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) | 2916.56 | m2 | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 71 | 22.5 | Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. | 210.00 | m2 | | |
| 72 | 16.68 | 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, of approved size, 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. | 610.00 | m2 | | |
| 73 | 10.6.1 | Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 – part 1 and M.S. top cover of required thickness for rolling shutters: 80x1.25mm M.S. laths with 1.25 mm thick top cover. | 56.00 | m2 | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 74 | 10.7 | Providing and fixing ball bearing for rolling shutters. | 4 | Each | | |
| 75 | 10.8 | Extra for providing mechanical device chain and crank operation for operating rolling shutters. | | | | |
| a) | 10.8.1 | Exceeding 10.00 sqm and upto 16.80 sqm in the area. | 26.00 | m2 | | |
| b) | 10.8.2 | Exceeding 16.80 sqm in area. | 21.00 | m2 | | |
| 76 | 10.9 | Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-in-charge.(area of grill to be measured). | 41.00 | m2 | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 77 | 26.1 | 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 AAMA 2604 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). | 3400 | kg | | |
| 78 | 26.2 | 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: | | | | |
| | | a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming 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 aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, 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 | | | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | b) Fabricating and supplying serrated M.S. hot dip galvanised/Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. | | | | |
| | | c) 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 manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. | | | | |
| | | d) 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. | | | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | e) 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. 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 including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. 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 and as directed by the Engineer-in-Charge. | | | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this subhead However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured 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 accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. 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 NBL Certified laboratories | | | | |
| | | 1. 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” | | | | |
| | | 2. Static Water Penetration Test. (50pa to 1500pa) as per ASTM E-331-09 testing method for a range up to 2000 ml.” | | | | |
| | | 3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml” | | | | |
| | | 4. Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm” | | | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test" Tests to be conducted on site | | | | |
| | | 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000ml" | | | | |
| | | | 520 | m2 | | |
| 79 | 26.3 | 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 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 strengthened clear float glass 6mm thick, spacer tube 12mm wide, 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.26.2). 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. | | | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | (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. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement. | 520 | m2 | | |
| 80 | 26.4 | 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 Engineer-in- Charge. | 52 | m2 | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 81 | 12.52 | Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. | | | | |
| | | Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-charge. | | | | |

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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | 12.52.1 | GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5mm thick with 8mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.''' | 2130 | m2 | | |
| 82 | 26.8 | Design supply & installation of suspended Spider Glozing system designed to withstand the wind pressure as pr IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of | | | | |

| CIVIL WORKS | | | | | | |
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| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as perspecification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. | | | | |
| | | For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured. " | 1180 | m2 | | |
| 83 | 26.7 | Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: | | | | |
| | | a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. | | | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|--|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. | | | | |
| | | c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing | | | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | The item includes cost of all material & labour component, 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 curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium items. The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places. | 105 | m2 | | |
| 84 | 7.23.1.4 | Stone work (machine cut edges) for wall lining etc. backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) : Black and white Granite stone - exposed face fine dressed with rough backing. (stone to be selected by the Engineer in charge):40 mm thick. | 180 | m2 | | |

| CIVIL WORKS | | | | | | |
|-------------|--------------|---|----------|------|----------------------------------|--------------|
| Item no. | DSR Code No. | Item Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 85 | 7.25 | Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required. | 500 | kg | | |
| | | | | | | |
| | | Total amount for Civil works | | | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 1 | M.R | Providing and fixing white vitreous china Wall Mounted type water closet (European type W.C.pan) with seat and lid, 3/6 litre low level white vitreous Dual Flushing cistern and C.P flush bend with fitting and C.I brackets, 40mm 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. Make:Hindware,Cera,Jaquar etc., WC pan with ISI marked white solid plastic seat and lid (Lowest retail price not less than 10,000/each. Materials to be selected by the Engineer in charge) | 30 | Nos. | | |
| 2 | LMR | Providing and fixing wash basin (half pedestal single unit)) with CI / MS brackets, 15mm CP brass Pillar taps , 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.: White Vitreous China Wash basin size 630 x 450mm with a single 15mm C.P brass pillar tap. Make:Hindware,Cera,Jaquar etc., (Lowest retail price of basin not less than Rs. 4500/each and Pillar tap not less than Rs. 2000/each. Materials to be selected by the Engineer in charge) | 4 | Nos. | | |
| 3 | LMR | Providing and fixing wash basin (counter type) with CI / MS brackets, 15mm CP brass Pillar taps , 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.: White Vitreous China Wash basin size 630 x 450mm with a single 15mm C.P brass pillar tap. Make: Hindware, Cera,Jaquar etc., (Lowest retail price of basin not less than Rs. 3000/each and Pillar tap not less than Rs. 2000/each. Materials to be selected by the Engineer in charge) | 31 | Nos. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 4 | 17.10.1.1 | 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 : Kitchen sink with drain board :510x1040 mm bowl depth 250mm. | 1 | Nos | | |
| 5 | LMR | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931. Make:Hindware,Cera,Jaquar etc., 15 mm nominal bore. (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge) | 60 | Nos. | | |
| 6 | LMR | Providing and fixing C.P. brass long body bib cock (Sink cock)of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore (Lowest retail price not less than 1800/each. Materials to be selected by the Engineer in charge) | 2 | Nos. | | |
| 7 | 18.52.1 | Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc.. | 12 | Nos. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 8 | 18.53.1 | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15mm nominal bore Make:Hindware,Cera,Jaquar etc.. | 100 | Nos. | | |
| 9 | 17.69.1 | Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make: Hindware, Jaquar etc.., | 2 | Nos. | | |
| 10 | 17.28.1.1 | Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.: Semi rigid pipe 32mm dia | 32 | Nos | | |
| 11 | 17.70.2 | Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms. | 32 | Nos | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 12 | 18.65 | Providing and fixing SS soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms. | 62 | Nos. | | |
| 13 | 17.34.1 | Providing and fixing Toilet paper holder . Make:Hindware,Cera,Jaquar etc.,:C.P Brass | 30 | Nos. | | |
| 14 | 17.31 | Providing and fixing 600 x 450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. | 18 | Nos. | | |
| 15 | 17.73.2 | Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms. | 35 | Nos. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------------|---|----------|------|-------------------------------------|--------------|
| Sl.N o. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 16 | MR | Providing & fixing of CP Health faucet. Hand operated spray unit (instand type) . Make:Hindware,Cera,Jaquar etc., (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge) | 30 | Set | | |
| 17 | M.R. | Providing and fixing of over head shower set with shower flange 170 mm long, including shower head and shower arm conforming to I.S Specification of approved make as per directions including all lead and lift etc., complete. (Lowest retail price not less than 1500/each. Materials to be selected by the Engineer in charge) Make:Hindware,Cera,Jaquar etc., | 12 | Nos. | | |
| 18 | LMR | Providing and fixing of CP brass 15 mm dia, 2 in 1 exposed wall mixer cum spout for wall installation with lever control and necessary CP bend for shower connection, including cutting and making good the walls complete as per sample approved by the EIC. (Lowest retail price not less than 3500/each. Materials to be selected by the Engineer in charge) | 3 | Nos. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------------|---|----------|------|-------------------------------------|--------------|
| Sl.N o. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 19 | 18.7 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in caharge. Make:Supreme,Finolex,Prince etc., | | | | |
| | | Internal Work - Exposed on wall | | | | |
| a) | 18.7.2 | 20mm nominal outer dia.Pipes | 100.00 | Mtr. | | |
| b) | 18.7.3 | 25mm nominal outer dia.Pipes | 100.00 | Mtr. | | |
| 20 | 18.8 | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and 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 caharge. Make:Supreme,Finolex,Prince etc., | | | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | | Concealed work including cutting chases and making good the wall etc. | | | | |
| a) | 18.8.2 | 20mm nominal outer dia.Pipes | 100.00 | Mtr. | | |
| b) | 18.8.3 | 25mm nominal outer dia.Pipes | 100.00 | Mtr. | | |
| 21 | LMR | Providing and fixing PVC pipes for water supply arrangements including cost pipes, fittings, solvent cement, testing of pipes, labour charges etc complete : Exposed on wall | | | | |
| a) | LMR | 20mm dia. PVC pipe (12kg/cm2) | 150.00 | Mtr. | | |
| b) | LMR | 25mm dia. PVC pipe (12kg/cm2) | 300.00 | Mtr. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| c) | LMR | 32mm dia. PVC pipe (10kg/cm ²) | 100.00 | Mtr. | | |
| d) | LMR | 50mm dia. PVC pipe (8kg/cm ²) | 150.00 | Mtr. | | |
| 22 | LMR | Providing and fixing PVC pipes for water supply arrangements including cost pipes, fittings, solvent cement, testing of pipes, labour charges etc complete : Concealed work including cutting chases and making good the wall etc | | | | |
| a) | LMR | 20mm dia. PVC pipe (12kg/cm ²) | 200.00 | Mtr. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| b) | LMR | 25mm dia. PVC pipe (12kg/cm ²) | 150.00 | Mtr. | | |
| c) | LMR | 32mm dia. PVC pipe (10kf/cm ²) | 50.00 | Mtr. | | |
| 23 | 18.18 | Providing and fixing Ball Valve (brass) of approved quality, High or low pressure, with plastic floats complete. Make:Lehry,Supreme,Finolex,Prince etc., | | | | |
| | 18.18.2 | 20mm dia nominal bore | 40 | Nos. | | |
| 24 | 18.17 | Providing and fixing Gun metal gate valve with C.I. wheel of approved quality (screwed end). Make: Lehry, Supreme, Finolex, Prince etc., | | | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| a) | 18.17.1 | 25 mm dia nominal bore | 5 | Nos. | | |
| b) | 18.17.2 | 32 mm dia nominal bore | 5 | Nos. | | |
| c) | 18.17.4 | 50 mm nominal bore | 3 | Nos. | | |
| 25 | 18.77 | Cutting holes upto 15 x 15 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 20mm nominal size) including finishing complete. | 40 | each | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 26 | 12.41.2 | Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes. 110 mm diameter | 160 | mtr. | | |
| 27 | 12.42 | Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. | | | | |
| a) | 12.42.1.2 | 110 mm Coupler | 40 | each | | |
| b) | 12.42.3.2 | 110x110x110 mm Single tee with door | 20 | each | | |
| c) | 12.42.5.2 | 110 mm bend | 20 | each | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| d) | 12.42.6.2 | 110 mm Shoe | 5 | each | | |
| 28 | MR | Providing and fixing to the Inlet mouth of rain water pipe S.S grating 110mm diameter and weighing not less than 440 grams. | 5 | Nos | | |
| 29 | M.R. | Providing and fixing PVC soil, waste and vent pipe to IS : 13592 of SWR quality including all fittings, like : Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring / solvent cement by application of leak proof adhesive like FRP paste including cutting holes in walls and floors and making good. Make:Supreme,Finolex,Prince etc., | | | | |
| a) | M.R. | 50mm dia (6kg / sq.cm) | 200.00 | Mtr. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| b) | M.R. | 110mm dia (4 kg / sq.cm) | 200.00 | Mtr. | | |
| c) | MR | 160mm dia (4kg/sq.m) | 100.00 | Mtr. | | |
| 30 | MR | Providing and fixing PVC pipes for external works including all specials and fittings, solvent cement earth work excavation for trenches, refilling and after laying pipes ect complete | | | | |
| a) | MR | 20mm dia PVC pipes, 12kg/cm2 for water supply connection from the existing line | 150.00 | Mtr. | | |
| b) | MR | 25mm dia PVC pipes, 12kg/cm2 for water supply connection from the existing line | 150.00 | Mtr. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|---|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 31 | M.R. | Providing and fixing PVC floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors. Make: Supreme,Finolex,Prince etc., | | | | |
| a) | MR | 110mm dia inlet 110mm dia outlet | 45 | Nos | | |
| 32 | M.R | Providing and fixing CP grating of 6mm thick with rim including setting in floor with white cement mortar and making good the floor (Chilli make) | | | | |
| a) | | 125mm dia | 45 | Nos. | | |
| 33 | 19.7 | Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : | | | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|----------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | Code No. | | | | | |
| a) | 19.7.1.1 | 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) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 6 | Nos. | | |
| b) | 19.7.2 | Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : | | | | |
| | 19.7.2.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 2 | Nos. | | |
| c) | 19.7.3 | Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) : | | | | |
| | 19.7.3.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 4 | Nos. | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|--------------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR Code No. | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 34 | 19.8 | Extra for depth for manholes | | | | |
| a) | 19.8.1.1 | Size 90x80 cm: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 5 | m | | |
| b) | 19.8.2.1 | Size 120x90 cm: with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 10 | m | | |
| 35 | 19.4 | Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm 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) | 19.4.2.1 | 150 x 100mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | 6 | each | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|----------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | Code No. | | | | | |
| 36 | 2.1 | 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 : | | | | |
| | 2.10.1.2 | Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia. | 150.00 | Rmt | | |
| 37 | 19.6 | 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 : | | | | |
| | 19.6.2 | 150 mm dia. R.C.C. pipe | 150.00 | Mtrs | | |

| INTERNAL PLUMBING AND SANITATION WORKS | | | | | | |
|--|----------|--|----------|------|----------------------------------|--------------|
| Sl.No. | DSR | Description | Quantity | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | Code No. | | | | | |
| 38 | 18.48 | 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 | 30000 | Ltrs | | |
| 39 | 3860 | Supplying, conveying and fixing Heavy duty CI Mh cover and frame 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) : | 3 | Each | | |
| | | TOTAL COST | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|------|-------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| A | POINT WIRING | | | | |
| 1 | Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm, FR PVC insulated copper conductor single core cable etc. as required. | | | | |
| | Group C | 510 | Point | | |
| 2 | Wiring for twin control light point with 1.5sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm FR PVC insulated copper conductor single core cable etc as required | 20 | Point | | |
| 3 | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed PVC conduit as required. | | | | |
| 3.1 | 2 x 1.5sq.mm + 1 x 1.5sq.mm earth wire | 1430 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|---------|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 3.2 | 2 x 2.5sq.mm + 1 x 2.5sq.mm earth wire | 4099.89 | m | | |
| 3.3 | 2 x 4sq.mm +1 x 4sq.mm earth wire | 1960 | m | | |
| 3.4 | 2 x 6 sqmm + 1 x 6 sqmm earth wire | 200 | m | | |
| 4 | Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. | | | | |
| 4.1 | 2 pair | 3360 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|------|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 4.2 | 4 pair | 2240 | m | | |
| 5 | Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required. | 175 | m | | |
| 6 | Supplying and fixing of following sizes of PVC conduit along with the accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required. | | | | |
| 6.1 | 20 mm | 4000 | m | | |
| 6.2 | 25 mm | 7225 | m | | |
| 6.3 | 40 mm | 100 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 6.4 | 50 mm | 100 | m | | |
| 7 | Supplying and fixing of following sizes (nominal size) on surface or in recesss with suitable size of phenolic laminated sheet cover in front including painting etc as required. | | | | |
| 7.1 | 200mm x 300 mm x 60 mm deep | 5 | Each | | |
| 7.2 | 250mm x 300mm x 100 mm deep | 10 | Each | | |
| 8 | Supply and fixing following modular socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. | | | | |
| 8.1 | Telephone outlet | 160 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 8.2 | TV antenna outlet | 5 | Each | | |
| 9 | Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. | 20 | Each | | |
| 10 | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required. | 110 | Each | | |
| 11 | Supply and fixing following size / module, GI / PVC box along with modular base & cover plate for modular switches in recess etc as required. | | | | |
| 11.1 | 1 or 2 module | 185 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 12 | Supplying and fixing suitable size GI / PVC box with modular plate and cover in front on surface or in recess including providing and fixing 1 no. 3 pin 6 amps modular socket outlet and 6 amps modular switch, connection, painting etc. as required | 250 | Each | | |
| 13 | Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 16 & 6 amps modular socket outlet and 16 amps modular switch, connection etc. as required | 110 | Each | | |
| 14 | Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required. | 55 | Each | | |
| 15 | Installation, testing and commissioning of prewired, fluorescent fittings / compact fluorescent fitting / of all types, complete with all accessories and tube etc. directly on ceiling /wall, including connections with 1.5 sq.mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. | 165 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|------|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 16 | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required. | 20 | Each | | |
| 17 | Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) | 50 | Each | | |
| 18 | Installation of exhaust fan upto 450mm dia sweep in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. | 30 | Each | | |
| 19 | Supplying and drawing of UTP 4 pair CAT 6 LAN cable in the existing surface / recessed steel / PVC conduit as required. | 3920 | m | | |
| | TOTAL OF POINT WIRING | | | | |
| B | DISTRIBUTION BOARD | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 20 | Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board / DB including drilling holes in cubicle panel, making connections, etc. as required. | | | | |
| 20.1 | 100A 16kA TP MCCB | 2 | Each | | |
| 20.2 | 125A 16kA TP MCCB | 5 | Each | | |
| 21 | Supplying and fixing following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with provision of 100 / 125 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.) | | | | |
| 21.1 | 4 way TP | 2 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 21.2 | 8 way TP | 5 | Each | | |
| 22 | Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator) | | | | |
| 22.1 | 8 way, Double door | 2 | Nos | | |
| 22.2 | 12 way, Double door | 1 | Nos | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 23 | Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator) | | | | |
| 23.1 | 4 way, Double door | 4 | Each | | |
| 23.2 | 6 way, Double door | 6 | Each | | |
| 23.3 | 8 way, Double door | 4 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 24 | Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FR PVC insulated copper conductor upto the terminal connector/ neutral link, earthing etc as required (But without MCB/ RCCB/ Isolator). (Note: Prewired vertical type MCB TPDB is normally used where 3 phase outlets are required.) | | | | |
| 24.1 | 6 way Double door | 3 | Each | | |
| 24.2 | 8 way Double door | 3 | Each | | |
| 25 | Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | |
| 25.1 | Single pole | 200 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 25.2 | Double pole | 3 | Each | | |
| 25.3 | Triple pole | 34 | Each | | |
| 25.4 | Triple pole and neutral | 14 | Each | | |
| 26 | Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required. | 150 | Each | | |
| 27 | Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 27.1 | 25 amps | 2 | Each | | |
| 27.2 | 40 amps | 1 | Each | | |
| 28 | Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | |
| 28.1 | 25 amps | 4 | Each | | |
| 28.2 | 40 amps | 10 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 28.3 | 63 amps | 6 | Each | | |
| 29 | Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required. | 8 | Each | | |
| 30 | Supplying and fixing FP sheet steel enclosure on surface/ recess along with 16/ 25/ 32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required. | 10 | Each | | |
| 31 | Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps `C' series, SP, MCB in sheet steel enclosure on surface or in recess, with chained metal cover for the socket outlet and complete with connections testing and commissioning etc, as required. | 5 | Each | | |
| 32 | Supplying and fixing 30 amps, 415volts, TPN industrial type, socket outlet, with 4 pole and earth, metal enclosed plug top along with 30amps `C' series, TPN, MCB in sheet steel enclosure on surface or in recess, with chained metal cover for the socket outlet and complete with connections testing and commissioning etc, as required. | 2 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| | TOTAL OF DISTRIBUTION BOARD | | | | |
| C | CABLE LAYING, TERMINATION AND CABLE TRAY | | | | |
| 33 | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. | | | | |
| 33.1 | Upto 35 sq. mm | 140 | m | | |
| 33.2 | Above 35 sq. mm and upto 95 sq. mm | 50 | m | | |
| 33.3 | Above 185 sq. mm and upto 400 sq. mm | 150 | m | | |
| 34 | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. | | | | |
| 34.1 | Upto 35 sq. mm | 40 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 34.2 | Above 35 sq. mm and upto 95 sq. mm | 10 | m | | |
| 34.3 | Above 185 sq. mm and upto 400 sq. mm | 10 | m | | |
| 35 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. | | | | |
| 35.1 | Upto 35 sq. mm (clamped with 1mm thick saddle) | 80 | m | | |
| 35.2 | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp) | 40 | m | | |
| 35.3 | Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp) | 10 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|------|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 36 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. | | | | |
| 36.1 | Upto 35 sq. mm (clamped with 1mm thick saddle) | 1000 | m | | |
| 36.2 | Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp) | 375 | m | | |
| 36.3 | Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp) | 30 | m | | |
| 37 | Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required. | 50 | each | | |
| 38 | Supplying and making end termination with brass compression gland and aluminium / copper lugs including gland earthing for following size of PVC insulated and PVC sheathed / XLPE aluminium / copper conductor cable of 1.1 KV grade as required. | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|-------------------|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 38.1 | 3.5 C x 150 sq.mm | 6 | Each | | |
| 38.2 | 3.5 C x 120 sq.mm | 18 | Each | | |
| 38.3 | 3.5 C x 35 sq.mm | 6 | Each | | |
| 38.4 | 3.5 C x 25 sq.mm | 6 | Each | | |
| 38.5 | 4 x 16 sqmm | 18 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 38.6 | 4 x 10 Sq.mm | 20 | Each | | |
| 38.7 | 4 x 6 sqmm | 20 | Each | | |
| 38.8 | 3 C x 4 Sqmm Cu cable | 8 | Each | | |
| 38.9 | 3 C x 2.5 Sqmm Cu cable | 6 | Each | | |
| 39 | Supplying and installing following size of perforated GI cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with GI suspenders, fixed to wall, including bolts & nuts, horizontal & vertical bends, reducers, tees, cross members & all other accessories as required. | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 39.1 | 300 mm width x 62.5 mm depth x 2.0 mm thickness | 400 | m | | |
| 39.2 | 150 mm width x 50 mm depth x 1.6mm thickness | 100 | m | | |
| 40 | Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required | | | | |
| 40.1 | 50 mm dia | 100 | m | | |
| 40.2 | 100 mm dia | 100 | m | | |
| | TOTAL FOR CABLE LAYING, TERMINATION & CABLE TRAY | | | | |
| | | | | | |
| D | EARTHING & LIGHTNING PROTECTION | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 41 | Earthing with GI earth pipe 4.5 m long, 40mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal or coke and salt complete as required. | 8 | Set | | |
| 42 | Providing and fixing 25 mm x 5 mm GI strip on surface or in recess for earth connections etc. as required. | 600 | m | | |
| 43 | Supply and providing 8 SWG dia copper wire on surface or in recess for earth connection | 100 | m | | |
| 44 | Providing and fixing 8 SWG dia G.I. wire on surface or in recess for loop earthing as required. | 100 | m | | |
| 45 | Providing and fixing of lightning protection finial, made of 25mm dia 300mm long, copper tube, having single prong at top, with 85mm dia 3mm thick copper base plate including holes etc complete as required. | 3 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 46 | Providing and fixing GI tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required (horizontal run) | 150 | m | | |
| 47 | Providing and fixing GI tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required (vertical run) | 200 | m | | |
| 48 | Providing and fixing testing joint, made of 20 mm x 3 mm thick GI strip, 125 mm long, with 4 nos of GI bolts, nuts, chuck nuts and spring washers etc complete as required. | 6 | Each | | |
| 49 | Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required. | 120 | m | | |
| | | | | | |
| | TOTAL FOR EARTHING & LTG. PROTECTION | | | | |
| E | LT CABLE | | | | |
| 50 | Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) amended upto date. | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|-------------------|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 50.1 | 3.5 C x 150 sq.mm | 80 | m | | |
| 50.2 | 3.5 C x 120 sq.mm | 250 | m | | |
| 50.3 | 3.5 C x 35 sq.mm | 100 | m | | |
| 50.4 | 3.5 C x 25 sq.mm | 150 | m | | |
| 50.5 | 4 x 16 sqmm | 200 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 50.6 | 4 x 10 Sq.mm | 240 | m | | |
| 50.7 | 4 x 6 sqmm | 250 | m | | |
| 51 | Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Copper conductor power cable confirming to IS 1554 amended upto date. | | | | |
| 51.1 | 3 C x 4 Sqmm Cu cable | 150 | m | | |
| 51.2 | 3 C x 2.5 Sqmm Cu cable | 120 | m | | |
| | TOTAL OF LT CABLES | | | | |
| F | LIGHT FIXTURES | | | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 52 | Supply of surface mounted LED downlight fixture 18W, with all accessories like driver, connector etc complete. (GE GDS018.40S1 / Equi) | 20 | Nos | | |
| 53 | Supply of surface mounted LED downlight fixture 24W, with all accessories like driver, connector etc complete. (GE GDS024.40S0 / Equi) | 6 | Nos | | |
| 54 | Supply and installation of recess mounted LED downlight fixture 18W, with all accessories like driver, connector etc complete. (GE GDR018.40S1 / Crompton LCDH-20-CDL/Equi) | 135 | No | | |
| 55 | Supply and installation of recess mounted adjustable type LED light fixture 15W, with all accessories like driver, connector, etc complete. (Philips BBS311 lx DLED -5000 WH / Equi). | 40 | No | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 56 | Supply of 28 W T5 surface mounted fluorescent luminare CRCA sheet steel box type fitting with electronic ballast (THD less than 10%) with 28W T5 lamp with all accessories complete. (Philips TMS 122M lxTL5-28W EBT / GE GET CI 1x28 C/s HF / Crompton T5JB1328EB) | 80 | No | | |
| 57 | Supply and installation of recess mounted 4x14W light fixture, complete with all accessories like electronic ballast (THD less than 10%) , 14W lamps etc complete with suitable length chain, anchor fastener, hook etc for the proper installation. (TBS 869 4xTL5-14W EBP D8 / GE SOC 414 / Crompton T5CQS11414EBB). | 95 | No | | |
| 58 | Supply of 18W surface mounted fluorescent luminare CRCA sheet steel box type fitting with electronic ballast (THD less than 10%) with 18W lamp with all accessories complete. (Philips TMS 520/118 / GE LMS 14 DN / Crompton T5JB13114EB) | 65 | No | | |
| | | | | | |
| 59 | Supply & installation of surface mounted suspended type LED downlight fixture 12W, with all accessories like driver, connector, suspension mechanism etc complete. (GE GDP012.40L1 / Equi) | 5 | Nos. | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 60 | Supply and installation of Decorative Wall fan 400 mm sweep, 230V.1Ph, complete with Openable mesh Cover string Operated etc as required. (Crompton WM Wind Flo / Usha Helix high speed / Khaitan Merlin Hi speed) | 5 | No | | |
| 61 | Supply of ceiling fan 1200 mm sweep,230V, 1Ph, complete with double ball bearing, motor blades, down rods, canopy, capacitor etc complete as required. (Crompton Riviera / Usha Maxx Air / Khaitan Newtec) | 20 | No | | |
| 62 | Supply of 300 mm dia medium duty Industrial type exhaust fan complete with louvers and cable from ceiling rose / connector to fan. (Usha Turbo Hi speed / Crompton Driffair / Khaitan Euro Metal). | 3 | No | | |
| 63 | Supply of 250mm sweep, 1250 rpm, louvered ventilating fan suitable for single phase 230 volt, 50Hz AC supply complete with motor, capacitor, louvers/shutters and all accessories as required complete. (Make : Usha Crisp Air / Crompton Crossair / Khaitan Vento) | 30 | Nos | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 64 | Supply and installation of IP 65, outdoor LED street light with high pressure die cast aluminium housing, polycarbonate cover, electronic driver etc as required. The light fitting shall be mounted on suitable height pole (max 3mtr height), with suitable arm bracket, pole base, PVC / poly carbonate loop in loop out box, with all necessary accessories as required. The cost of the civil foundation shall be measured along with civil items The light fitting shall be suitably installed with all required accessories to poles. The item shall include 3C x 1.5 sqmm PVC insulated copper unarmoured cable for connecting between the luminaire and the loop in loop out box. (Similar to Philips BRP020 1x10 LED). | 20 | Nos | | |
| | TOTAL OF LIGHT FITTINGS | | | | |
| G | TELEPHONE SYSTEM | | | | |
| 65 | Supplying and fixing Network modular type socket outlet (RJ-45) in 1/2 module GI modular box with modular plate including connections etc. as required. | 145 | No | | |
| 66 | Supply, laying & termination of telephone wires / cables as per DOT specification, with solid annealed Cu conductor of 0.5mm thick, High Density Polyethylene insulated, twisted pair, unarmoured, with outer sheath of low density polyethylene. | | | | |
| 66.1 | 10 pair | 200 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 66.2 | 40 pair | 50 | m | | |
| 66.3 | 50 pair | 120 | m | | |
| 66.4 | 200 pair | 200 | m | | |
| 67 | Supply and Installation of following pair MDF box, back mount frame and original krone connectors with all accessories. | | | | |
| 67.1 | 10 pair | 4 | Each | | |
| 67.2 | 40 pair | 3 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 67.3 | 50 pair | 1 | Each | | |
| 67.4 | 200 pair | 1 | Each | | |
| | | | | | |
| | TOTAL OF TELEPHONE SYSTEM | | | | |
| H | MISCELLANEOUS | | | | |
| 68 | Dismantling and re-installation in new location, the existing 200kVA DG set including its canopy and all accessories like control panel, exhaust pipe, fuel tank and its piping, AMF panel, power and control cables including termination, earth strip, earth pit etc. The testing and commissioning of the DG set has to be done and made operational to the existing system complete as required. | 1 | Set | | |
| 69 | Dismantling and re-installation in new location, the existing 125kVA DG set including its canopy and all accessories like control panel, exhaust pipe, fuel tank and its piping, power and control cables including termination, earth strip, earth pit etc. The testing and commissioning of the DG set has to be done and made operational to the existing system complete as required. | 1 | Set | | |

| ELECTRICAL WORKS | | | | | |
|------------------|---|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 70 | Supply & installation of exhaust gas piping of suitable diameter as per manufactures standard welded black MS, B class pipe confirming to IS:3589 cut to required lengths and installed with necessary bends, supports and clamps, anti-vibration mountings, insulation of exhaust system with mineral wool / Rockwool, 50mm thick wire mesh & aluminum cladding etc. | 50 | m | | |
| 71 | Cladding of existing exhaust pipe with mineral wool / Rockwool, 50mm thick wire mesh & aluminum cladding etc. | 40 | m | | |
| 72 | Dismantling the existing underground / surface mounted cables of following sizes and storing in the place as per the direction of Engineer-in-charge. The cables has to be dismantled without any damage complete as required. | | | | |
| 72.1 | Upto 35sqmm | 200 | m | | |
| 72.2 | Above 35sqmm to 95sqmm | 60 | m | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|-------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 72.3 | Above 95sqmm to 185sqmm | 250 | m | | |
| 73 | Supplying and fixing suitable size modular plate and cover in front on surface or in recess including providing and fixing 3 nos 3 pin 6 amps modular socket outlet and one no. 6 amps modular switch, connection etc. as required | 145 | Point | | |
| 74 | Supplying and fixing of following rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. | | | | |
| 74.1 | 40A TPN C curve MCB | 8 | Each | | |
| 74.2 | 63A TPN C curve MCB | 16 | Each | | |

| ELECTRICAL WORKS | | | | | |
|------------------|--|-----|------|----------------------------------|--------------|
| Item no. | Item Description | Qty | Unit | Rate (Rs. in words & in figures) | Amount (Rs.) |
| 74.3 | 63A DP C curve MCB | 2 | Each | | |
| 74.4 | 40A DP C curve MCB | 2 | Each | | |
| 75 | Supplying and fixing TP sheet steel enclosure on surface/ recess along with 63 amps 415 volts "C" curve FP MCB complete with connections, testing and commissioning etc. as required. | 10 | Each | | |
| 76 | Preparation of drawings and documents for submission to Electrical Inspectorate duly sealed and signed for the total scope of work done. The drawings and documents shall be submitted to client / contractor who is liasoning with statutory bodies for power connection. . | 1 | Job | | |
| | TOTAL COST OF MISCELLANEOUS | | | | |
| | TOTAL COST OF ELECTRICAL WORKS | | | | |