

SALEM CITY MUNICIPAL CORPORATION

TENDER SCHEDULE

Name of Contractor :

EMD Details **Rs.99,600.00**

Tender Date **17.06.2022**

Name of Work **Construction of Unit Administrative Office Building (FF) to the Anna Park Campus at Omalur Main Road in Division No: 14 of Hasthampatty Ward Office.**

Est. No. **E3 / Est.No. 481 / B / 2021-2022**

Estimate Cost **Rs.99,60,000.00**

1. The Quantities here given are those upon the lump sum tender cost of work is based, but they are subject to alterations, omissions, deductions or additions as provided for the conditions of the contract and do not necessarily show the actual quantities of work to be done. The unit rates are those governing payment for extracts or deductions for omissions according to the contract, as set forth in the preliminary specifications of the (Madras Detailed Standard Specifications) Tamil Nadu building practice and other conditions or specifications of the contract.

2. It is to be expressly understood that the measured work is to be taken nett (not with standing any custom or practice to the contrary) according to the actual quantities when in place and finished according to the drawing or as may be ordered from time to time by the Corporation Engineer and the cost calculated by measurement of weight, of the respective prices, with out additional charge for any necessary contingent works connected herewith. The Rates quoted are for works in 'situ' and complete in every respect.

3. The work must be completed with in Days/Month from the date of receipt of acceptance of this tender.

Item No	Probable Quantity		Description of Work	Rate		Unit in	Amount in
	Figures	Units		Words	Figures	Words	Figure
1			Brick work in cement mortar 1:5 mix using Fly Ash bricks of 230x110x70mm (8 3/4" x 4 1/4" x 2 3/4") from approved quarry including cost and conveyance of all materials to site. Loading and unloading charges and labour charges for mixing, laying and curing etc. complete. Complying with std. specifications				
c	62.00	cu.m	In First floor			cu.m	
d	28.00	cu.m	In Second floor			cu.m	
2			Brick partition walls of 11.50cm thickness using best quality II class Ground moulded chamber burnt bricks of size 9" x 4-3/8" x 2-3/4" in Cement Mortar 1:3 (One Cement and Three Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers.				
b	41.00	Sqm	In First Floor			Sqm	

3			Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard especificaiton.				
a	622.00	sq.m	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.			sq.m	
b	147.00	sq.m	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.			sq.m	
4	230.00	sq.m	Providing additional strutting to centering of RCC slabs of plain surface for every additional 1.0 metre height or part thereof but not less than 30 cm, over the initial 3.00 metre height from floor level using casurina props of 10cm to 13cm dia including cross bracing etc., complete complying with standard specification and as directed by the department officers.			sq.m	

5			Cement Concrete 1:1-1/2:3 (One Cement, One and a half sand and Three hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of works excluding cost of reinforcement grill and fabricating charges centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor / roof slabs wherever necessary and bearing surfaces of walls, beams etc. shall be finished smooth with Cement Mortar 1:3 (One Cement and Three Sand) and kraft paper laid over it without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers				
c	74.00	cu.m	In First floor			cu.m	
d	30.00	cu.m	In Second Floor			cu.m	

6			Cement Concrete 1:3:6 (One Cement, Three sand and Six broken stone jelly) using 40mm size hard broken stone jelly for dummy columns, excluding cost of centering shuttering reinforcement grills and fabrication charges but including curing etc. complete. (Reinforced Cement Concrete 1:2:4 for slab to be extended upto top of splashing with pressed tiles and future extension rods to be embedded in CC 1:3:6 (One Cement, Three Sand and Six hard broken stone jelly). Dummy columns should be at least 1 metre height)				
b	2.00	cu.m.	For Second floor			cu.m.	
7	14.30	MT	Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification.			MT	
8			Weathering course in brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.				

b	24.00	cu.m	In First Floor			cu.m	
c	1.30	cu.m	In Second Floor			cu.m	
9	277.00	Sq.m	Finishing the top of roof with one course of machine pressed tiles 230mm x 230mm x 20mm size of size of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers			Sq.m	
10	175.00	Sq.m	Paving the floor with best quality Double Charged Vertified Tiles of size 1200 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification.			Sq.m	

11	19.00	Sq.m	Paving the floor with best approved quality fine polished Granite Stone Slabs of size 1200 x 600 of 18 / 20mm thick of Synthetic Grey, Paradise and similar varieties with machine cut edges laid over a cement mortar bed of 20mm thick using cement mortar 1:3 (One cement and three sand) fixing the slabs with required cement slurry and laid in true right angles with minimum possible width of joints and pointing the joints with white cement mixed with matching colouring pigments etc., The granite stone slabs and other materials to be used shall be got approved by the Executive Engineer concerned before use on work, etc., complete as per standard specification.			Sq.m	
12	30.00	Rm	Providing full nosing to the steps or platforms to the Granite slab of 20mm thick including neat finishing, polishing, cost of powder, tools etc as directed by the departmental officers			Rm	
13	16.00	Sq.m	Flooring with Self design Joint free rectified Ceramic Tiles of size 305 x 305 x 8mm laid over 20mm thick cement mortar 1 :3 (One cement and Tree M-sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary , laying in position and and pointed with the Epoxy chemical filling and necessary spacer at the rate of 0.3kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be Johnson / Kajaria / Somany / Nitco / RAK or Equivalent which has to be got approved by executive Engineer before use on works)			Sq.m	

14	62.00	Sq.m	Dadoing walls with 300x450x8mm best approved quality, white / colour glazed tiles set in Cement Mortar 1:2 (One Cement and Two sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. /sq.mneatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.			Sq.m	
15	23.00	Sq.m	Providing Polymer Coating (Water Proof Coating) for sunken Portion of toilet with following specification and the surface shall be cleaned to remove all dust, foreign, matters lose materials or any other deposits of contamination by rubbing with wire brush. Slurry: Dry blend and polymer liquid blend shall be mixed into the desired ratio as per recommendation of the supplier. The mix shall be stirred throughly until no bubbles remain in the mix. Any lumps found in mix shall be removed. Apply first coat of polymer modified cementitious slurry by brush on wet cleaned surface. After drying, second coat shall be applied on the first coat as directed by the departmental officers etc. The rate inclusive of cost of materials and labour, etc., complete.			Sq.m	
16			Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes 110mm dia having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				

II			163mm Dia PVC Pipe				
a	17.00	Rm	One Floor			Rm	
17	29.90	Sq.m	<p>Supplying wrought fixing Ornamental Teakwood entrance door as per the drawing and designs approved by the departmental officers. The size of the opening is 2.10X 2.40. The outer frame of the door is 150mmx125mm teakwood. The main door shutter opening size is 1.80 X 2.03m. The main door should be double leaves and each door shutter fully panelled. The door panells shall be of 50mm thick teakwood planks with ornamental designs approved by the Executive Engineer. The Lock rail and bottom shall be of 200 x 50mm tk teakwood, top rail 230x50mm tk teakwood. The door frames and shutters shall be given of cost of best approved quality melamine finish. The rate inclusive of cost of approved quality teakwood, 10mm thick designed toughedned glass Special type Heavy Brass Aldrop 300mm X 20mm. Special type heavy Brass tower bolt 300mm Length. Special type heavy Brass tower bolt 250mm Length. The cost includes cost of material, labour charges, conveyance charges, fixing charges, designing charges and glass design charges, electricity charges and all other incidental charges., etc. All materials should be got approved by the Executive Engineer before use on works.</p>			Sq.m	

18	20.00	Sq.m	Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.			Sq.m	
19	30.00	Sq.m	UPVC Window Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed plain or brown colour glass 4mm thick should be provided to the shutter and it should not allow leakage of water even at most ranging storms and should have key lockable action, security protective hinges, strong locking systems and as per size for arresting noise and energy loss. The connecting mechanism between sash and outer frame that enables opening of the window. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The window should be got approved from the Executive Engineer before use on work			Sq.m	

20	3.00	Sq.m	UPVC Ventilator Specification: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Louvered Ventilators of from the profile the size of outer frame 60mm x 58mm and shutter profile size of 60 x 78mm both profiles are reinforced with GI/1mm 125GSM and 100% corrosion free, the profile are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over the edges of frame and shutter. The corners and joints should be welded and cleaned. Radiations pin headed glass 4mm thick should be provided in the louvers. The window should be fixed to the wall with 100% packing with screws and silicon packing all round the frames. The ventilator should be got approved from the Executive Engineer before use on work			Sq.m	
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21			<p>Manufacturing supplying and fixing of steel door Single leaf with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x5mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.</p>				
a	4.20	Sq.m	Single leaf			Sq.m	

22	17.08	Sq.m	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia Stainless Steel pipe post of 1.00mm thick as vertical at 900mm centre with 2 Nos. of 25mm dia intermediate horizontal stainless steel pipe of 1.60mm thick in between. The vertical pipe has to be welded to the 100 X 100 X 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc. complete			Sq.m	
23	1000.00	Kg	Supplying and fixing of M.S.Grill of approved design for grill gate, grill work to doors and windows openings ramp etc., using necessary mild steel flats for inner and outer members which should be fixed on edges including priming coat of best approved quality red oxide primer etc., complete complying with standard specification.			Kg	

24			<p>Providing suspended Hilux Board False Ceiling of the following types with G.I. perimeter channel of size 0.55mm tk (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling , screw fixed to brick wall/ partition with the help of nylon sleeves and screws at 610mm centres. Then suspending G.I. Intermediate channel of size 45mm (0.90mm thick with two flanges of 15mm each) from the soffit at 1200mm centres with ceiling angle of 25mmx 10mmx0.50mm thick fixed to soffit with G.I Cleat and steel expansion fastners ceiling section of 0.50mm thickness having knurled web of 51.50mm and two flanges of 26mm each with lips of 10.50mm are then fixed to the intermediate channel at 457mm centres. 12.50mm tapered edge Gyp board (confirming to is 2095-1982) is then screw fixed to ceiling section with 25mm dry wall screws at 230mm centres. Screw fixing should be done mechanically either with screw driver or with drilling machine with suitable attachment got approved by the Executive Engineer before use on works in etc., complete complying with standard specification.</p>				
a	76.34	Sq.m`	Using Hilux board plain sheets (10mm thick)			Sq.m`	
25	61.82	Rm	<p>Providing Cornice Work for Gyp Board False Ceiling etc., complete in all floors complying with standard specification and as directed by the departmental officers.</p>			Rm	

26	95.00	Sq.m`	<p>Supply and installation of Anutone (or) Euivalent Brand of Acoustical False Ceiling of subtex nubby, square edge, glass fibre core fully encapsulated ceiling tile of size 595 x 595 x 15mm having volume density 120 Kgs / m3, weight 1.8 / 2.4 / 3 kg / m2 which is suspended by using 0.3mm thick skelet trellis T15 metal grid system. Skelet trellis T15 metal grid system of 600 x 600mm module includes skelet WA15 W30 wall angle with unequal flanges of 15 / 19mm, length 3000mm, fixed along the perimeter of walls with the help of nylon sleeves and suitable fasteners at 300mm centers. Then suspend the skelet MT15 W36 MainT with flange width 15mm, height 32mm and length 3600mm, from the soffit slab with help of soffit cleat and wire rod with leveling spring clip at 1200mm centres. Skelet CT15 W12 CrossT with flange width 15mm, height 26mm and length 1200mm is interlocked into the pre-cut slots in the Main T15 at 600mm centers in the perpendicular direction to the Main T15. Finally, the skelet CT15W06 CrossT with flange width 15mm, height 26mm and length 600mm are interlocked into the pre-cut slots in the CT15W12 CrossT in direction parallel to the Main T15 to result in 600 x 600mm module. The subtex nubby square edge of size 595 x 595 x 15mm shall be placed into the grid size of 600 x 600mm. Ensure arrow marks behind the tiles are oriented in one direction to achieve uniform shade. The systems to achieve noise reduction coefficient not less than 0.9 NRC, so as to have an neat appearance as directed by the department offices. The cost includes, cost of material, cost of labour, scaffolding, transportation, conveyance, etc. complying to standard specification.</p>			Sq.m`	
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27	64.00	Sq.m	<p>Providing and fixing structural glazing fabricated from roll formed sections made of galvanized steel colour coated (Base steel as per IS 513 of 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.72mm. The glass holding section made of 304 grade SS of 0.6mm thick. Galvanized steel sections are to be used as stiffeners inside the colour coated steel / powder coated sections as per the design requirement. Design calculations are made to suit wind pressures as given in IS 875.</p> <p>Paint Specifications: Primer coat with epoxy primer of 5-7 microns thick, finish painted with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns or powder coated with pure polyester powder upto 50-60 microns thick.</p> <p>Dimensions: The section should be of 37 x 53mm for frame vertical, 37 x 53mm for frame horizontal section and section for reinforcement should be of 31 x 55mm. glass holding section should be of 37 x 37mm for top and bottom grids in between should be of 37 x 18mm.....</p>			Sq.m	
28	865.00	Sq.m	<p>Plastering with Cement Mortar 1:5 (One cement and Five P.Sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.</p>			Sq.m	

29	770.00	Sq.m	Special ceiling plastering and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, fascia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three P.Sand) 10mm thick including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers			Sq.m	
30	785.00	Sq.m	Providing Wall Putty including labour charges etc., complete in all floors complying with standard specification and as directed by the departmental officers.			Sq.m	
31	785.00	Sq.m	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			Sq.m	
32	524.00	Sq.m	Painting the wall two coats with approved weather proof Exterior Emulsion paint over one primer coat of over cement plastered wall surface ect., complete complying with standard specification.			Sq.m	

33	18.00	Sq.m	Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification.			Sq.m	
34			Supplying, laying and jointing CPVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using CPVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, CPVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges, etc., complete complying with standard specifications. The CPVC pipes shall be got approved by Executive Engineer before use on works.				
a	67.00	Rm	25 mm dia CPVC Pipe			Rm	
35			Supplying CPVC Specials (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements				

a	16.00	Each	25 mm dia CPVC Elbow			Each	
b	12.00	Each	25 mm dia CPVC TEE			Each	
c	8.00	Each	25 mm dia CPVC Union			Each	
d	12.00	Each	25 mm dia UPVC Nipple			Each	

36			Supplying, laying and jointing UPVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using UPVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.				
			Internal Water Supply Arrangements using UPVC pipes and UPVC specials				
a	66.00	Rm	25 mm dia UPVC Pipe			Rm	
b	60.00	Rm	32 mm dia UPVC Pipe			Rm	

c	40.00	Rm	40 mm dia UPVC Pipe			Rm	
d	10.00	Rm	50 mm dia UPVC Pipe			Rm	
37			Supplying, laying and jointing UPVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using UPVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, PVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges upto 4 metre height above ground level, etc., complete complying with standard specifications. The PVC pipes shall be got approved by Executive Engineer before use on works.				
			External Water Supply Arrangements using UPVC pipes and UPVC specials				

b	10.00	Rm	40 mm dia UPVC Pipe			Rm	
38			Supplying UPVC Specials (with working pressure 10 kg. / sq.cm.) in water supply arrangements (both in internal and external water supply arrangements				
			UPVC Union				
a	8.00	Each	25 mm dia union			Each	
b	11.00	Each	32 mm dia union			Each	
c	12.00	Each	40 mm dia union			Each	
d	14.00	Each	50 mm dia union			Each	

			UPVC Elbow				
d	12.00	Each	25 mm dia Elbow			Each	
f	8.00	Each	32 mm dia Elbow			Each	
g	8.00	Each	40 mm dia Elbow			Each	
h	9.00	Each	50 mm dia Elbow			Each	
III			UPVC Tee				

i	12.00	Each	25 mm dia Tee			Each	
j	10.00	Each	32 mm dia Tee			Each	
k	9.00	Each	40 mm dia Tee			Each	
l	4.00	Each	50 mm dia Tee			Each	
V			UPVC Reducer				
m	12.00	Each	32 x 25 mm dia Reducer			Each	

n	12.00	Each	25 x 20 mm dia Reducer			Each	
o	12.00	Each	20 x 15 mm dia Reducer			Each	
39			Supplying and fixing in position first quality and approved variety of Gun metal Gate Valve / Wheel Valve with BIS make of the following dia including cost of shellac, thread balls, etc., complete complying with standard specifications (for both internal and external water supply arrangements). The valves to be used on work shall be got approved by the Executive Engineer before use on work.				
l			Gate Valve				
a	2.00	Each	25 mm dia G.M. Gate Valve			Each	
b	2.00	Each	32 mm dia G.M. Gate Valve			Each	

c	1.00	Each	40 mm dia G.M. Gate Valve			Each	
d	1.00	Each	50 mm dia G.M. Gate Valve			Each	
40	2.00	Each	Supplying and fixing in position Indian Water Closet (Oriya type) of size 580 x 440mm colour glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to PVC pipes (including the cost of 110mm dia PVC pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Executive Engineer before use on works).			Each	

41			Supplying and fixing in position white glazed European Water Closet 10 litre capacity PVC flushing tank fixed on to wall of best quality and approved make with 100 mm "P" or "S" trap connecting with PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelain low level flushing tank with a pair of CI brackets, etc., complete with all fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings such as 15mm brass connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe including cost of 600mm length of 110mm dia PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition etc. complete complying with standard specifications.				
a	4.00	Each	Colour glazed European Water Closet with 10 litre capacity PVC flushing tank fixed with CI brackets			Each	

42	6.00	Each	Supply and fixing in position of best Indian make white glazed earthenware lipped mouth flat back urinal of best quality and approved make of size 430mm x 260mm x 350mm with GI pipe, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm dia brass nipple 2 Nos., and fixing the urinals in position with necessary TW plugs, clamps, screws, etc., including dismantling masnory and re-doing the same to the original condition, etc., including painting the pipe with two coats of best quality approved synthetic enamel paint over one coat of red oxide primer and checked without any leakage etc. complete complying with standard specifications and as directed by the departmental officers.			Each	
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43			<p>Supplying and fixing in position best quality and approved make Indian made white / colour glazed earthenware wash hand basin of size 550 x 400mm (with pedestal / without pedestal) with a pair of cast iron brackets, including cost 15mm dia brass CP pillar tap, 32mm dia "B" class GI waste pipe with rubber plug and chain, 15mm dia GM wheel valve, 15mm brass nipple, 15mm dia nylon connection, 32mm dia CP brass waste coupling including fixing of wash basin using CI brackets on to the wall in position with TW plugs and screws, rubber washers, white lead and giving necessary water supply connection and painting the brackets with two coat of painting over a priming coat of anti-corrosive paint including testing for leakages etc., complete complying with standard specification and as directed by the departmental officers. (The wash hand basin and specials should be got approved by the Executive Engineer before use on works).</p>				
a	6.00	Each	Colour Glazed Wash Hand Basin A) Without Pedestal			Each	
44	6.00	Each	<p>Supplying and fixing in position Indian make bevelled edge mirror of approved quality and brand PVC / Fibre Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved colour fixed with brass screws, rawl plug, etc., complete complying with standard specification</p>			Each	

45	6.00	Each	Supplying and fixing best approved best quality brass CP soap tray of size 150 x 150mm including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications.			Each	
46	6.00	Each	Supplying and fixing approved best quality brass CP towel rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plugs and CP screws, etc., complete complying with standard specifications.			Each	
47	6.00	Each	Supplying and fixing in position CP shower rose with CP stop cock arrangement of size 15mm dia inlet and 100mm outlet to the pipe line with necessary cutting, threading and jointing using shellac etc., complete complying with standard specification and as directed by the departmental officers			Each	
48	8.00	Each	Supplying and fixing in position 15mm dia brass CP screw down tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary			Each	

49			Supplying and fixing in position best quality PVC soil / waste pipes of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. (The PVC pipes should be got approved by the Executive Engineer before use on works). The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid below ground level				
a	15.00	Rm	75mm dia PVC soil / waste pipe			Rm	
b	15.00	Rm	110mm dia PVC soil / waste pipe			Rm	
50			Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming to BIS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re-doing the dismantled portion to original condition etc., complete complying with standard specifications.				

a	4.00	Each	75mm dia PVC Elbow			Each	
b	4.00	Each	75mm dia PVC Tee			Each	
c	4.00	Each	75mm dia PVC Tee with single door			Each	
d	4.00	Each	75mm dia PVC Bend			Each	
e	6.00	Each	110mm dia PVC Elbow			Each	
f	6.00	Each	110mm dia PVC Tee			Each	

g	6.00	Each	110mm dia PVC Tee with single door			Each	
h	6.00	Each	110mm dia PVC Bend			Each	
51	8.00	Each	Supplying and fixing position PVC Nahani Trap / Floor Trap of the 100 x 75mm with stainless steel gratings sizes with best stainless steel gratings of approved brand and quality, fixed over a bed of brick jelly lime concrete 1:2:5 (One part of lime, two part of sand and five part of 40mm gauge brick jelly) and finished with Cement Mortar 1:3 (One Cement, Three sand) including dismantling masonry works wherever found necessary and making good the dismantled portions to the original condition and giving connection to the PVC pipes, etc., complete complying with standard specification.			Each	

52	10.00	Rm	Supplying, laying and jointing glazed stoneware pipes of 100mm dia of approved best quality with spigot and socket ends (in reverse direction) in dry condition and laid in loose joints (i.e.) without cement and spun yarn, so that the waste water can be drained to the trenches already available, excluding cost of earth work excavation, cost of re-filling with sand / earth, but including laying the pipe in true alignment and gradient and conducting required water supply test for draining with necessary tools and plants, etc., complete complying with standard specifications.			Rm	
53	1.00	Each	Supplying and fixing PVC ventilating shaft of 110mm dia (having working pressure 4 kg. / sq.cm) with 3 metre height including cost of PVC cylindrical cowl of best approved quality etc., complete complying with standard specifications and as directed by the departmental officers			Each	
54	2.00	Each	Supplying and fixing in position first quality and approved variety with ISI mark CI man hole cover of size 600x600 of complete complying with standard specification			Each	
55	5.10	cu.m	Supplying and filling 20mm gauge HBGS stone jelly for dispersion trench including loading conveying and unloading and as directed by the departmental officers etc. complete complying with standard specification.			cu.m	

56	5.10	cu.m	Supplying and filling 40mm guauge HBGS stone jelly for dispersion trench including loading conveying and unloading and as directed by the departmental officers etc. complete complying with standard specification.			cu.m	
57	1.00	No	Supplying and erecting 1 H.P monoblock with ISI mark with necessary accessories (motor should be got approved by Executive Engineer before use onworks) complete complying with standard specification.			No	
58	2.00	Nos	Supplying and fixing of PVC ready made HDPE water storage tanks having 1000 litre capacity made of PVC matertials including necessary provision for conveying, jointing delivery line etc.			Nos	
59	131.00	Nos	Wiring with 2x1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories with MS Modular Junction and modular switch box and 6A modular FT switch (Legrand / Hager / Equivalent) with front plate in flush with wall and making good of the concealed portion with suitable colour for PVC concealed light / Fan Point (For electronic regulator) (5 Points Per Coil) (DATA-A)			Nos	

60	12.00	Nos	Wiring with 2x1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with 3mm thick hylum sheet cover with MS modular switch box and 6A modular FT switch (Legrand) with front plate in flush with wall and making good of the concealed portion with suitable colour for PVC concealed light/fan point (6 Points Per Coil) (For Rooms like Bath, Toilet,& Pump room etc) (DATA-B)			Nos	
61	2.00	Nos	Wiring with 3 x 1.5sqmm(22/0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories in flush with wall with meatal box and one No.6A two way modular switch with front plate and making good of the concealed portion with suitable colour for concealed staircase light point. (DATA-C)			Nos	
62	25.00	Nos	Supply and fixing of 1 No. 6A modular 2 in one 3 pin wall socket with 6A modular FT control switches (Legrand / Hager / Equivalent) concealed in suitable MS modular Box covered with modular white cover plate in flush with wall with earth connection. (DATA-D)			Nos	

63	18.00	Nos	Supply and fixing of 3 modular flush type GI Metal surface box and with 3 modular front plate with 6A/16A 3 pin combined flush type modular shuttered socket with 16A flush type modular switches concealed in suitable Modular surface box covered with modular white cover plate on wall with earth connection. (DATA-E) (for power plugs)			Nos	
64	22.00	Nos	Supply and fixing of 3 Nos. 6A modular 2 in one 3 pin wall socket with 6A modular FT control switches (Legrand / Hager / Equivalent) concealed in suitable Modular surface box covered with modular white cover plate on wall with earth connection (For Computer Plug Socket) (DATA-F)			Nos	
65	13.00	Nos	Supply and fixing of 20A Dp plug and socket insheet enclosure with 32A DPMCB in flush with wall with earth connection (For AC Plug) [Legrand (MDS) / Hager (L&T) Make] [SD-140]			Nos	
66	6.00	Nos	Supply and fixing of 9W LED for BH point. (DATA-G)			Nos	
67	5.00	Nos	Supply and fixing of 12W LED indoor wall decorative fitting with LED bulb complete on the wall with PVC unsheathed copper leads from terminals to the fitting. (DATA-H)			Nos	

68	6.00	Nos	Supply and fixing of WT bulk head fitting with guard (Philips / Bajaj / Crompton / K. Lite) suitable for 11W CFL lamp with CFL [SD-83]			Nos	
69	200.00	Nos	Supply and run of LED strip of capacity 6W - 25mtr role. (Model: Luker LS2835) 12V professional LED strip IP 20 White. (DATA-I)			Nos	
70	10.00	Nos	Supply and fixing of LED driver suitable for 6W LED strips. Model: Luker LSD 03 (DATA-J)			Nos	
71	18.00	Nos	Supply and fixing of Single Box type fitting (Philips / Crompton / Wipro) complete with TW round blocks on wall or ceiling with 4'18W crystal glass LED tube light with PVC unsheathed Copper leads from the terminals to the fitting. (DATA-K)			Nos	
72	13.00	Nos	Renewal by supply fixing of 24W 1X1 LED ultra sleek recess monted iris slim square downlight (Wipro make or eqt) on ceiling with PVC unsheathed copper leads from terminals to the fitting. (DATA-L)			Nos	
73	23.00	Nos	Supply and fixing of 36W LED 2 x 2 Square Type Recess mounted LED slim luminaire with edge lit optics offers uniform and bright illumination fitting (Make:Wipro, Model: Elate / CRCO10) complete with PVC unsheathed leads from terminals to the fitting. (DATA-M)			Nos	

74	30.00	Nos	Supply fixing of 15W LED recessed downlighter with pressure die cast aluminium housing for effective thermal management and high transmission factor PMMA diffuser for better performance (Make: Wipro, Model: Helios / LD90-191-XXX-65) complete on ceiling with PVC unsheathed leads from terminals to the fitting. (DATA-N)			Nos	
75	8.00	Nos	Supply and fixing of 36W LED 2 x 2 Square Type flat panel for surface mounting which provides soft-light and glare free symmetrical illumination. (Make:Wipro, Model: Elate / CRCO10) complete with PVC unsheathed leads from terminals to the fitting. (DATA-O)			Nos	
76	2.00	Nos	Supply and fixing of 48W LED Street light fitting complete (Philips/Havells) with existing GI pipe arrangement complete on the existing post / wall with 16A aerial fuse unit on MS plate with PVC unsheathed copper leads MS clamp and aluminium painting. (DATA-P) (building on wall)			Nos	
77	10.00	Nos	Supply and fixing of High speed (Orient / eqt.) 1200 mm (48") AC ceiling fan complete with Fan Step Regulator 100W - 2 Moduler with 300mm down rod on the existing clamp. (DATA-Q)			Nos	
78	23.00	Nos	Supply and fixing of ORIENT Make AERO QUIET 1200 mm (48") sweep AC ceiling fan complete with Fan Step Regulator 100W - 2 Moduler with 1 meter down rod on the existing clamp. (DATA-R)			Nos	

79	4.00	Nos	Supply and fixing of 300 mm [12"] sweep [light duty] AC exhaust fan complete with necessary wall opening and making good of the wall. [SD-114]			Nos	
80	4.00	Nos	Supply and fixing of louvers shutters arrangements for 300 mm [12"] sweep [light duty] AC exhaust fan. [SD-120]			Nos	
81	1.00	Nos	Supply and fixing of 32A DP MCB in sheet steel enclosure (Legrand make) in flush with wall and making good of the concealed portion with earth connection only. (DATA-S) (for street light control)			Nos	
82	2.00	Nos	Supply and fixing of 12 way single pole and neutral MCB DB with metal door cover with IP 42 protection with 1No. 40 Amps 30mA DP ELCB, 40 Amps DP MCB as incoming and 10 Nos. 6 Amps to 32 Amps SP MCB outgoing in flush with wall and making good of the concealed portion with earth connection only. The MCB DB and MCB's should be with ISI mark (like Legrand / Hager make). (DATA-T) (for lighting)			Nos	
83	2.00	Nos	Supply and fixing of Horizontal type 4 way triple pole neutral MCB DB SS enclosure double door type with 63A 4 pole MCB as incoming and 12Nos 6A to 32A SP MCB as outgoing in flush with wall and making good of the concealed portion with earth connection only. The MCB DB and MCB's should be with ISI mark. (like Legrand / Hager make) (DATA-U)			Nos	

84	1.00	Nos	Supply and fixing of 6way TPN DB (with MCCB Incomer) double door; IP 43, as per IS 8623 III; Impact resistance IK09; Frame MCCB Incomer & Single Phase / Three Phase MCBs as outgoing (8way, MCCB + 18 Modules) with 100A MCCB as incoming and 6Nos 32A DP MCB and 6Nos 32A SP MCB as outgoing with suitable trunking box MS cable entry boxes and internal connections on suitable angle Iron frame work with earth connection only. The MCB DB, MCCB MCB's should be with ISI mark. (Like Hager/Legrand make/ equivalent) (DATA-V) (Main incoming)			Nos	
85	1.00	Nos	Supply and fixing of 32 A TPNMC switch on suitable angle iron frame work with MS cable entry box with earth connection only [SD-164] (pump room)			Nos	
86	2.00	Nos	Supply & Fixing of AC / DC 76mm Buzzer /call bell suitable for 230 Volts 50 c/s single phase AC supply on suitable TW Board with push switch. [SD-105]			Nos	
87	140.00	Nos	Supply and run of 2 of 1.5 sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in rigid pipe concealed in wall and ceiling and making good of the concealed portion with suitable colour. (DATA-W) (For UPS)			Nos	

88	300.00	Rm	Supply and run of 2 of 2.5 sqmm (36/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in rigid pipe concealed in wall and ceiling with continuous earth wire connection of 14SWG TC wire and making good of the concealed portion with suitable colour. (DATA-X)			Rm	
89	250.00	Rm	Supply and run of 2 of 4sqmm (56/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V Grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 14SWG TC wire and making good of the concealed portion with suitable colour. (SD-57) (for LDB & AC plugs)			Rm	
90	30.00	Rm	Supply and run of 4 of 6 sq.mm. (84/0.3) PVC insulated single core unsheathed copper conductor of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection by 14 SWG TC wire and making good of the concealed portion with suitable colour. (SD-63) (for power DB)			Rm	
91	15.00	Rm	Supply and run of 4 of 10 sq.mm (140/0.3) PVC insulated SC unsheathed Cu Conductor of 1100 V grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection by 14 SWG TC wire and making good of the concealed portion with suitable colour (DATA-Y) (for power DB)			Rm	

92	1.00	Nos	Supply and fixing of 100A TPN sheet double break switch with HRC fuse and neutral on suitable angle iron frame work with earth connection only. (SD-169)			Nos	
93	30.00	Rm	Supply and laying of 3½ x 50 sq.mm PVC LTUG aluminium armoured cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 metre layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good. (SD-206)			Rm	
94	15.00	Rm	Supply and clamping of 3½ x 50 sq.mm PVC LTUG armoured LTUG cable on post or on wall with MS Clamps. (SD-224)			Rm	
95	2.00	Nos	Supply and fixing of brass cable gland for 3½ x 50 sqmm PVC armoured LTUG cable with earth connection. (SD-188)			Nos	

96	1.00	Nos	Supply and fixng of TNEB meter board suitable for 3phase 100A service connection made up of suitable angle iron frame work of size 2 feet x 1-1/2 feet using angle iron of size 1-1/2" x 1-1/2" x 1/4" rigidly fixed on wall covered with hylem sheet of size 2 feet x 1-1/2 feet of 12mm thickness with necessary bolts and nuts supports and supply and fixing of 3 Nos. 100A fuse units (500V), 1 No. neutral link, copper earth flat of size 1" x 1/4" with inter connection of EB meter to fuse units by 16 Sq.mm PVC insulated copper wire with earth connection complete. (SD-130)			Nos	
97	1.00	Nos	Earthing as per the ISI specification with an earth electrode of 2.1mt class 'B' GI pipe of dia not less than 40mm, with copper earth plate of size 125mm x 50mm x 6mm, with necessary funneling arrangements with necessary masonry work and with 38mm RCC cover slab for the brick masonry. (SD-233)			Nos	
98	2.00	Nos	Earthing as per P.W.D standard with an earth electrode of 2 Mtr. Class 'B' GI pipe of dia not less than 32mm complete with necessary masonry work. (SD-234)			Nos	