

## FINANCIAL BID: SCHEDULE -A- SCHEDULE OF RATES AND QUANTITIES

**PROJECT : PROPOSED CONSTRUCTION CANARA BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT THENI,TAMILNADU.**

SI. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
<b>A</b>		<b>CIVIL WORKS</b>					
		<b>Preparatory Works</b>					
1		Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	817.0	sq.m			
		<b>Earth work</b>					
2	2.6.1	Earthwork excavation for foundation (for narrow excavation) to full depth as per designed in all soils and sub soils except soft disintegrated rock not requiring blasting and hard rock requiring blasting and bailing water wherever necessary. Refilling the sides of foundation with excavated earth other than sand in layers of well rammed and compacted and depositing the surplus earth in places shown by the departmental officers with an initial lead of 10m and initial lift of 2m and clearing and leveling the site etc. complete complying with standard specification.	588.0	cu.m			
3	2.34.1 2.35.1	Providing Pre-constructional anti- termite treatment and creating a chemical barrier to the building by injecting chemical emulsion of required concentrations raft slab and beam, under Cellular raft slab, around the footings, column pits, trenches, pits, wall trenches, back fill, plinth filling, junction of wall and floor, side walls of foundation, external perimeter of building,surrounding of pipes expansion joints, etc. as per IS specification and as per the instructions of chemical manufacturer and all as directed.The treatment shall be carried out strictly in accordance with the technical specification and conforming to IS 6313 (PART-2) or equivalent BS specification.	533.0	sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		1.The chemical to be used as insecticides for the treatment shall be CHLOROPYRIPHOS 20% (or) 50% EC and the application shall be dilute one part of chemical 20% or 50% EC with 19 or 49 parts of water to get 1% emulsion and strictly in accordance with the manufacturer's specification.( or) 2.The chemical to be used as insecticides for the treatment shall be IMIDACLOPRID 30.5% S C and the application shall be applied at 0.075% active ingredients concentration i.e. 2.1ml formulated product diluted 1 lit of water and strictly in accordance with the manufacturer's specification. <b>(Note:The Minimum 10 years guarantee for all anti termite treatment works to cover this guarantee 5% of the bill amount will be held till guarantee period.)</b>					
4	2.27	<b>Supplying and filling</b> in foundations and basement with <b>River sand</b> in layers not exceeding 15 cm.thick,well watered,rammed and consolidated etc. complete complying with standard specifications.	78.0	cu.m			
5	4.1.8	<b>Plain Cement Concrete 1 : 4 :8</b> ( one part of cement, four parts of sand and eight parts of hard broken stone ) using 40 mm gauge hand broken hard broken granite stone jelly complying with standard specifications in foundations and basement.	78.0	cu.m			
6	2.25	<b>Refilling</b> the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 200 mm thick., with available earth at site.	347.0	cu.m			
7		Filling the site with approved / <b>STONE DUST</b> / <b>brought from outside</b> including cost of material, conveyance, loading , unloading, levelling the site etc. complete.	108	cu.m			
8		Supplying and <b>Erecting centering</b> for sides and soffits including supports and strutting up to 3.30 m height with all cross bracing for plane surfaces as detailed below, using mild steel sheets of 90 X 60 cm 10 gauge stiffened with MS angle of 25 x 25 x 3mm for boarding, laid over adjustable span & jacks and supported by 50mm dia pipes for general pipes scaffolding systems @ a spacing of 1.20m c/c and vertical connected at a height of 2.0m c/c including 'C' & 'U' clamps and base receiver cup at bottom for connecting pipes etc and removable systems etc complete					
a.	4.3.1	Footing, plinth beam, etc.	254.0	sq.m			
b.	5.9.3	Plain surfaces such as roof slab, floor slab, beams , lintels , loft, sill slab, staircase waist , portico slab and other similar works.	1514	sq.m			

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c.	4.3.2	Square and rectangular columns and small quantities such as sunshades,parapet cum drops,window boxing ,fin projections and other similar works.	581.0	sq.m			
9		<b>DESIGN MIX CONCRETE</b>					
		Supplying and placing of Ready Mix <b>M25 grade -320 KG/CUM minimum cement content of with OPC 53 Grade</b> of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers					
a	5.40.1	Foundation and basement	148.0	cu.m			
b	5.40.2	Ground floor	136.0	cu.m			
c	5.40.2	First Floor	100.0	cu.m			
d	5.40.2	Terrace floor	17.0	cu.m			
		<b>Steel - Fe 500</b>					
10	5.22.6	Supply, fabrication and placing of reinforcement steel of high yield strength ribbed bars of various diameters and grade conforming to IS 1786 for reinforced concrete work. The work includes decoiling, straightening, cutting, bending, fabricating, and placing in position, at all levels including lead and lift, according to drawings, specifications etc. complete and supply & use of 18G black annealed binding wire double fold to tie the bars in position, chairs, pins, spacer bars unauthorised laps which will not be measured separately neither for payment nor for reconciliation and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and including all labour charges etc as directed by departmental officers.	53000.0	Kg			
11		Providing and constructing <b>230 mm thick brick walls</b> in CM 1:5 ( one part of Cement, five parts of River sand ) using Table moulded, Chamber burnt, Stock Bricks of size 9" x 4 1/2 " x 3" including curing, scaffolding ,materials, labours, tools & plant etc. complete.					
a	6.1.2	Foundation basement	45.0	cu.m			
b	6.4.2	Ground floor	82.7	cu.m			
c	6.4.2	First Floor	67.9	cu.m			
e	6.4.2	Terrace floor	30.3	cu.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
12		Providing and constructing <b>110mm thick</b> (Plus or minus 5mm) brick masonry in cement mortar 1:3 for <b>partition walls</b> using well burnt best quality bricks including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding curing cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.					
a	6.13.2	Ground floor	330.0	Sq.m			
b	6.13.2	First Floor	285.0	Sq.m			
		<b>BAND CORNICE WORK</b>					
13		Providing Band cornice work using country brick in cement mortar 1:4 ( 1 cement and 4 river sand)plastered with cement mortar1:4 ( 1 cement and 4 river sand) 12mm thick including rendering smooth with cement at 22.5kg/per 15m length curing necessary scaffolding and centering etc.complete as directed during execution.					
		150mm projection band work	288.00	R.mt			
14		Providing and applying 12 mm thick Cement plaster in <b>Cement mortar 1:3</b> ( One part of Cement and Three parts of Sand ), to finishing the exposed surfaces of R.C.C. items of works such as <b>Roof (or) floor slabs, beams,</b> and Sun shades etc.to correct plane and level including steel scaffolding, hacking of surface, chiselling the undulated surface wherever necessary and curing etc.,( all materials and labour complete in all respects including all lead, lift and descent and as directed by the Engineer in charge.)This rate includes the cost of providing Cement Mortar beadings for sun shades, steps,landing slabs,elevation etc,complete.	1019.0	sq.m			
15		Providing & applying <b>15 mm thick cement plaster</b> in CM 1:4(1 part of cement: 4 parts of sand) to <b>walls internally</b> in single coat at all levels to correct line and level including chicken wire mesh at all joints of brick and concrete surfaces with minimum overlap of 150 mm in all directions, scaffolding, rounding off or chamfering of corners, offsets,fin/ bands, projections,etc.and cleaning of surface,raking out joints,roughening of surface,chiseling the undulated surface wherever necessary and curing, etc.,(all materials and labour complete in all respects including all lead, lift and descent and as directed).	2510.0	sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
16		Providing & applying <b>20 mm thick cement plaster</b> in CM 1:5(1 part of cement:5 parts of sand) to walls <b>externally</b> in single coat at all levels to correct line and level including steel scaffolding, rounding off or chamfering of corners,offsets, fin/ bands,projections, etc.and cleaning of surface,raking out joints, roughening of surface,chiseling the undulated surface wherever necessary and curing, etc.,(all materials and labour complete in all respects including all lead,lift and descent and as directed).	966	sq.m			
17		<b>CEMENT CONCRETE FLOORING</b>					
		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 62 mm thick CC flooring in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated,compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or beybonding noticed shall be rectified by the contractor at his cost).	52	sq.m			
18	11.41.2	Flooring with plain/design <b>Vitrified tiles</b> (colour and shade as directed) of size 600 mm x 600mm x 10mm in all <b>floors and skirting</b> over a base layer of cement mortar 1:3 (one cement and three sand ) with 3mm Pvc spacers and grouting with suitable grouting compound of mactching colour etc.,complete.	535.0	sq.m			
19	11.4	Supplying, laying and fixing in position <b>Anti-skid ceramic tiles</b> of approved size , quality and colour set k in CM 1:3 20 mm thk. Including cutting the tiles to the required size with special cutter where ever necessary and pointing the joints with coloured cement using 0.40 Kg / Sqm including finishing the flooring and pointing the joints flesh with tile surface etc. complete.	99.0	sq.m			
20	11.36	Dadoing the walls with coloured <b>glazed tiles</b> approved size , quality and colour set in CM 1 : 2 - 10 mm thk. And pointed with suitable cement including finishing the joint and pointing flesh with walls and tile surface in all floors at the rate of 0.40 Kg /Sqm etc. complete.	342.0	sq.m			
21		Providing and laying 19 mm thk <b>pre-polished granite</b> of multi red or black granite of approved size and pattern in CM 1:3 , including nosing where ever necessary as per drawings and specifications and as directed by the Engineer in charge.(Corridor,Steps,Entrance)	249.0	Sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
22		Supply and fixing of <b>polished granite slab</b> ,18 mm thick (average), for flooring including fixing in position cutting , chipping the wall, masonry touch up works etc., complete in all respects for all floors as directed by the departmental officers.(Kitchen Plat form,Wash Basin)	10.0	Sq.m			
23	11.26.1	<b>Flooring with kota stone slab</b> of size 600 x 600 of 25mm (one side polished and other side un-polished) in all floors, steps and other area laid in of cement mortar 1:4 (one cement four sand), 25mm thick and pointed with color cement neatly including polishing with polishing stone and oxalic acid etc., so as to perfectly smooth and glossy and including hire charges for polishing machine and power consumption charges etc. The kota 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.	22.9	Sq.m			
24	9.48.1	Providing, fabricating and fixing <b>M.S. grills</b> Windows, and ventilator,gates, ladders, rail pipes, nosing angles, with M.S.lugs in staircase steps etc., made out of M.S rods, flats, angles, pipes, channels etc. including necessary fixtures complete as per drawings and specifications and as directed by the Engineer.	2525	KG			
25		Providing and fixing <b>stainless steel handrail</b> 900mm high (as shownin drawing) made out of stainless steel conforming to SS 304 with 8%to8.5% nickel using50.8mm outer dia at top (with 1.6mm wall thickness) and 38.10mm(1.6mm wall thickness ) stainless steel pipe placed vertically at 1m centre to centre and two horizontal SS pipe 25.40mm outer dia (with 1.2mm wall thickness) welded at a distance of 300mm using TIG welding process with 308L SS electrode (in station building all floor staircases) with necessary bends, flanges and base plates. Rate is inclusive of all materials, labours, lead, lift,etc. as directed by Engineer in-charge.	48.0	sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
26		Providing and fixing aluminium anodized two track/three track <b>Sliding windows and Aluminium Ventilator</b> with fixed glazing using standard design and sections complying to 'INDAL, Specification for sliding section with necessary accessories as specified in Architectural drawing including all fittings, fixtures, locking device aluminium mesh, handle etc, complete. (a, For two track - Frame section bottom, Top and side - section bottom, Top and side - 62x45.5x1.5mm, Shutter section - bottom, Top and side - 40x18x1.5mm. (b, For three track - Frame section bottom, Top and side - 92x45.5x1.5mm, Shutter section - bottom, Top and side - 92x45.5x1.5mm). The sections should be anodized to 15 microns. etc., as directed by departmental officer-1. one mosquito meshed shutter is provided.	104.0	sq.m			
27	9.117	<b>PVC DOOR</b>					
a		Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge.					
	9.117.1	Extrude section profile size 48x40mm	130.00	R.mt			
b	9.118	Providing and fixing to existing door frames					

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
b		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 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised 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 bathroom door shutter).	41.00	sq.m			
28		<b>DOUBLE LEAF FULL GLASS DOOR</b>					
		To be made out of 12mm thk Toughened glass with etching as per design.The glass with etching has to be fixed. with all side and Top rails of size 1 1/4" x 5" and the Bottom rail of size 1 1/2" x 10".The rails to be made out of best quality beach wood.The door shall have 18" long S/S handle and also 2 nos of double action floor spring of specified make. The etching in glass pattern to be followed strictly as per instructions of the Architect or following the drawing attached.NB: Size of the door may slightly vary as per site conditions for matching the elevation of the fixed glazing. All exposed edges of the glass to be machine polished.dorma/Equivalent patch fitting and locking arrangement is to be used for fixing the glass.	5.0	sq.m			
29		Supplying and fixing <b>Double Leaf Flush Door</b> of 32/30mm thickness both side 1.5mm thk laminate and approved brand with T.W.frames of size 125x100mm at side verticals and top 6Nos.of iron hold fast fixed in C.C.1:2:4 and 3Nos.of steel butt hinges 125mm long including wind appliances furniture iron fittings 2Nos.of ss aldrop of 250mm & 2Nos of towel bold of 300mm long for locking arrangements and fixed in position as directed during execution.(ISI STD).etc., complete.	23.0	sq.m			



Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
30		Supply & Fixing of 32mm thk. <b>Single leaf flush door</b> of high density interior grade marine plywood shutters with 100x75mm thick teak wood frame pasted both sides 1.5mm thk.laminate approved design with 35x12mm T.W.lipping on all edges with necessary adhesives and CP screws complying with standard specification.The cost is inclusive of 1 no cylindrical Lock,handel,tower bolt ,approved equivalent make SS ball bearing hinges of quivalent make of aproved make,2 no floor mounted SS door stoper ect.complete as per drawing.	36.0	sq.m			
31		<b>SLIDING DOOR</b> :Providing door with aluminium anodized colour matt finish party glazed partly PLB door with following aluminium door sliding chennal and other fitting etc. complete.	3.0	sq.m			
32		<b>STEEL DOOR</b>					
		Manufacturing, supplying and fixing of Steel doors with following specification.MS angle of size 40x40x6mm at 3.5 kg/m used for outer frame and MS Angle of size 35x35x5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. 18 G CR Sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 kg/m MS flat is welded over the 32x6mm at 1.50kg/m MS Flat on the rear side of the door, sandwiching the CR Sheet for rigidity. Additional stiffeners with 18x5mm at 0.7 Kg/m MS flats are provided diagonally on the rear side of the shutter. 300mm length of hinges 2Nos, for shutter is provided. 6 Nos. of 250mm length hold fasts 200mm length specified at the ends are welded to the outer frame of the door. Tower bolt 2 Nos. at the top provided.	3.8	sq.m			
33		Toilet sunken using broken <b>brick jelly</b> 20 mm gauge The proportion of broken brick jelly to slaked lime being 1:3:6 (1 part cement,3 part fine aggregate & 6 part broken brick jelly),well beaten by wooden beaters for giving required slope and thickness required etc complete complying with standard specifications and as directed by Departmental Officers.	21.0	Cu.m			
		<b>PAINTING WORK</b>					
34		Painting two coats of <b>synthetic Enamel paint</b> of approved colour and make over one coat of anti corrosive Zinchromite primer over new wood / <b>steel work</b> , suitably prepared for receiving the paint by surface scraping, rubbing applying filler etc. including cost of filler, primer, paint all complete as per drawings and specifications.	90.0	sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
35		Painting two coats of <b>synthetic Enamel paint</b> of approved colour and make over one coat of <b>wooden primer</b> over <b>new wood</b> , suitably prepared for receiving the paint by surface scraping, rubbing applying filler etc. including cost of filler, primer, paint all complete as per drawings and specifications.	100.0	sq.m			
36		Providing and applying <b>Acrylic Emulsion paint</b> finish of approved make & shade in two coats over a coat of approved primer and 2 coats of smooth putty to give an even shade as per manufacturer's instruction to the <b>internal ceiling</b> plastered surfaces including preparation of surfaces, scaffolding etc.all complete as per drawings and specification for all heights.	1019.0	sq.m			
37		Providing and applying <b>Acrylic Emulsion paint</b> finish of approved make & shade in two coats over a coat of approved primer and 2 coats of smooth putty to give an even shade as per manufacturer's instruction to the <b>internal wall</b> plastered surfaces including preparation of surfaces, scaffolding etc.all complete as per drawings and specification for all heights.	2168.0	sq.m			
38		Supplying and painting the exterior walls with one coat of wall primer and two coats of <b>Acrylic Exterior emulsion (apex quality of Asian paints or its equivalent)</b> as per manufacturers specifications including preparation of surface curing including Scaffolding etc., complete in all floors complying with standard specifications (The colour and shade of the paint shall be got approved by the Architect/ Engineer before use of work).	966.0	sq.m			
39		<b>Weathering Course Concrete</b> using best quality broken brick jelly of 20 mm uniform guage in pure slaked lime ( NO Sand to be used ( over the RCC roof slab in the proportion of brick jelly to lime being 32 : 121/2 by volume laid over in single layer and consolidated to the required slope and finished thickness and beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime, jaggery water etc. complete complying with standard specifications and as directed	54.0	cu.m			
40	12.55	Finishing the top of the roof with one course of <b>weather proof pressed Tiles</b> of size 300 mm x 300 mm x 18mm thick of approved quality laid in Cement Mortar 1:3 ( One part of Cement and Three parts of Sand ) mixed with water proofing compound at 2% by weight of cement used and the top pointed with approved grouting material etc. complete complying with standard specifications.	559.0	sq.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
41	22.5	Providing and laying <b>water proofing treatment</b> to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. ii) 1st course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. iii) 1st course of applying blown or residual bitumen applied hot at 1.7Kg. per sqm of area. iv) 1st course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	127.0	sq.m			
<b>UNDER GROUND SUMP -15Kld capacity</b>							
42	2.6.1	<b>Earthwork</b> for foundations and depositing on bank with initial lead of 10 Mt. and initial lift of 2 Mt. in sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth. (SS 20 B)	35.00	cu.m			
43	2.25	<b>Refilling</b> the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 100 mm thick., with available earth at site.	8.00	cu.m			
44	2.27	<b>Supplying and filling</b> in foundation and basement with <b>River sand</b> in layers of not more than 10cm thick well watered, rammed and consolidated etc., complete as per standard specification.	2.27	cu.m			
45	4.1.8	Laying the <b>Plain Cement Concrete 1:4:8</b> (One cement four sand and eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de- watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping,removal of form work if it is required and all leads ,lifts and curing etc.. (Derived from S I No 120)	2.27	cu.m			

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46	5.9.3	Supplying and <b>Erecting centering</b> for sides and soffits including necessary supports and strutting up to 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 about 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 specification. (Payment for centering shall be given after the concrete is laid)	58.00	sq.m			
47	5.40.1	Supplying and placing of Ready Mix <b>M25 grade -340 KG/CUM minimum cement content of with OPC 53 Grade</b> of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete for <b>Raft slab Cover slab and wall concrete work</b> Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	12.00	cu.m			
48		Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound <b>Conplast X421IC</b> conforming to IS:2645, @ 150ml per bag of cement (normal setting integral water proofing compound) as specified by the manufacturer over PCC leveling course including preparation of surface, dewatering, finishing, curing etc. all complete as per manufacture's Specification and direction	45.00	sq.m			
49		Supplying, laying and fixing in position <b>ceramic tiles</b> of approved size , quality and colour set k in CM 1:3 - 20 mm thk. Including cutting the tiles to the required size with special cutter where ever necessary and pointing the joints with coloured cement using 0.40 Kg / Sqm including finishing the flooring and pointing the joints flesh with tile surface etc. complete.	31.00	sq.m			
50		Supplying and fixing in position <b>C.I.Manhole covers</b> (heavy duty) mof various sizes of best approved quality and asper standard specifications etc., complete.0.6X0.6M Size etc., complete.	2.00	Nos			
51		<b>Foot rest</b> fixing inside the sump including labour charges etc., complete.	5.00	Nos			

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52		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 25 mm thick <b>granolithic flooring</b> in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated, compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or beybonding noticed shall be rectified by the contractor at his cost).	12.00	sq.m			
53		Carting away the surplus earth and debris to a lead of 5kgm. and dumping in the Land as directed during the execution.	27.00	cu.m			
<b>UNDER GROUND SEPTIC TANK-15Kid capacity</b>							
54	2.6.1	<b>Earthwork</b> for foundations and depositing on bank with initial lead of 10 Mt. and initial lift of 2 Mt. in sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth. (SS 20 B)	27.00	cu.m			
55	2.25	<b>Refilling</b> the approved good quality earth in plinths, area development etc. wherever specified in layers of not exceeding 100 mm thick., with available earth at site.	9.00	cu.m			
56	2.27	<b>Supplying and filling</b> in foundation and basement with <b>River sand</b> in layers of not more than 10cm thick well watered, rammed and consolidated etc., complete as per standard specification.	2.27	cu.m			
57	4.1.8	Laying the <b>Plain Cement concrete 1:4:8</b> (One cement four sand and eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de-watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping, removal of form work if it is required and all leads ,lifts and curing etc.. (Derived from S I No 120)	2.27	cu.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
58	5.9.3	Supplying and <b>Erecting centering</b> for sides and soffits including necessary supports and strutting up to 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 about 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 specification. (Payment for centering shall be given after the concrete is laid)	17.61	sq.m			
59	5.40.1	Supplying and placing of Ready Mix <b>M25 grade -340 KG/CUM minimum cement content of with OPC 53 Grade</b> of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete for <b>Raft and cover slab</b> Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	5.00	cu.m			
60	6.13.2	Providing and constructing <b>110mm thick</b> (Plus or minus 5mm) brick masonry in cement mortar 1:3 for <b>Baffle walls</b> using well burnt best quality bricks including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding, curing, cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.	4.99	sq.m			
61	6.4.2	Providing and constructing <b>230 mm thick brick walls</b> in CM 1:5 ( one part of Cement, five parts of River sand ) using Table moulded, Chamber burnt, Stock Bricks of size 9" x 4 1/2 " x 3" including curing, scaffolding ,materials, labours, tools & plant etc. complete.	4.99	cu.m			
62		Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound <b>Conplast X421IC</b> conforming to IS:2645, @ 150ml per bag of cement (normal setting integral water proofing compound) as specified by the manufacturer over PCC leveling course including preparation of surface, dewatering, finishing, curing etc. all complete as per manufacture's Specification and direction etc.,	62.00	sq.m			
63		Supplying and fixing in position <b>C.I.Manhole covers</b> (heavy duty) of various sizes of best approved quality and as per standard specificationsetc., complete.0.6X0.6M Size etc., complete.	2.00	Nos			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
64		<b>Foot rest</b> fixing inside the sump including labour charges etc., complete.	5.00	Nos			
65		Providing, machine mixing and laying on the P.C.C/ R.C.C. surface in approved panels of 25 mm thick <b>granolithic flooring</b> in cement concrete mix of 1:2:4 (1 Cement: 2 Sand: 4 Aggregate 10 to 12 mm thick) well vibrated, compacted including 45 X 3 mm glass dividing strip, fixed to correct level and finished smooth and cured by keeping surfaces well-covered and protected against excess of an type. (The contractor to provide for preparation of surface by cleaning, hacking and exposing aggregate to achieve the best bond and any curling, lifting or beybonding noticed shall be rectified by the contractor at his cost).	13.52	sq.m			
66		Carting away the surplus earth and debris to a lead of 5kgm. and dumping in the Land as directed during the execution.	27.00	cu.m			
<b>COMPOUND WALL - BOQ</b>							
67	2.6.1	<b>Earthwork excavation</b> for foundation (for narrow excavation) to full depth as per designed in all soils and sub soils except soft disintegrated rock not requiring blasting and hard rock requiring blasting and bailing water wherever necessary. Refilling the sides of foundation with excavated earth other than sand in layers of well rammed and compacted and depositing the surplus earth in places shown by the departmental officers with an initial lead of 10m and initial lift of 2m and clearing and leveling the site etc. complete complying with standard specification.	98.00	cu.m			
68	2.27	<b>Supplying and filling</b> in foundation and basement with <b>River sand</b> in layers of not more than 15cm thick well watered, rammed and consolidated etc., complete as per standard specification.	14.00	cu.m			
69	4.1.8	Laying the <b>Plain Cement concrete 1:4:8</b> (One cement Four sand and Eight broken Machine crushed stone jelly) using HBG Machine creased Machine crushed stone jelly of size 40mm gauge for founding and basement including de- watering if found necessary and laid in layers of not more than 15cms thick etc., complete complying with standard specification and as directed by the departmental officers. The rates inclusive of Centering , shuttering, strutting, propping, removal of form work if it is required and all leads ,lifts and curing etc.. (Derived from S I No 120)	14.00	cu.m			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
70	2.25	Refilling with excavated soil and available earth (other than sand) with out boulders, roots and vegetations complying with standard specification for filling in foundation and basement	41.00	cu.m			
71		Supplying and Erecting centering for sides and soffits including necessary supports and strutting up to 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 about 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 specification. (Payment for centering shall be given after the concrete is laid)					
a	4.3.1	Footing,Plinth Beam	161.10	sq.m			
b	4.3.2	Column	74.51	sq.m			
72	5.40.1	Supplying and placing of Ready Mix <b>M25 grade -320 KG/CUM minimum cement content of with OPC 53 Grade</b> of Concrete confirming to IS 456/2000 for Reinforcement Cement Concrete Structural elements under controlled water cement ratio using 20mm and down graded machine broken granite stone jelly including transportation and pumping excluding cost of centering and shuttering and reinforcement but including curing, finishing etc as directed by departmental officers	36.00	cu.m			
73	5.22.6	Supply fabrication and placing of reinforcement steel of high yield strength ribbed bars of various diameters and grade conforming to IS 1786 for reinforced concrete work. The work includes decoiling, straightening, cutting, bending, fabricating, and placing in position, at all levels including lead and lift, according to drawings, specifications etc. complete and supply & use of 18G black annealed binding wire double fold to tie the bars in position, chairs, pins, spacer bars unauthorised laps which will not be measured separately neither for payment nor for reconciliation and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover, and Steel rod Painting one coat of <b>Anti corrosive Zinchromite primer paint</b> all fully covered with paint in steel rod complete.,including all labour charges etc as directed by departmental officers.	8683.00	Kg			



Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
74	6.4.2	Brick Masonry in <b>cement mortar 1:5</b> (One cement and five sand) in foundations, basement and superstructure walls using second class ground moulded chamber burnt bricks of size 9"x 43/8"x 2 3/4" etc., complete complying with standard specifications and drawings and as directed by departmental Engineers. (Derived from S.I. 163)	47.00	cu.m			
75		<b>External and Internal wall Plastering</b> with cement mortar 1:5 (one cement and five sand) 20mm thick with fine river sand for plastering including curing, neat finishing, etc., complete complying with standard specification and as directed by the Departmental officers.	488.00	sq.m			
76		Grills in top of brick work & <b>Entrance gate</b> (Ms Square type hallow 50mmx75mm--37mm x 37mm M.S hallow sectionl pipe)including M.S.Sheet 8mm thk- Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete: as per drawing etc.,	225.00	kg			
77		Providing and applying <b>White washing Two coats with walls</b> freshly burnt white shell lime in all floors including cost of lime . bule powder fevicol type gum, burshes, scaffolding charges ,ect., complete complying with standard specification and for all heights.	488.20	sq.m			
78		<b>Extrenal Ramp</b> - Supplying and Laying of External ramp with side brick walls and filled with PCC 1: 4: 8 and RCC 1:1.5: 3 with 10mm dia ms rod 200mm c/c	28.10	sq.m			
		<b>SUB-TOTAL OF CIVIL WORKS (A)</b>					
<b>B</b>		<b>PLUMBING &amp; SANITARY WORKS</b>					
		<b>PART-I : SANITARY FITTINGS</b>					
79		Supplying and fixing in position white glazed <b>European water</b> closet with P or S trap and double flapped seat cover, 10 liter capacity low level flushing tank including all internal fittings on CI brackets, 12mm brass nipple, chromium plated brown headed stop cock, 12mm nylon connection connecting with walls and floors same to the original condition etc., complete complying with standard specification and as directed by the Departmental officers.	20.00	Each			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
80		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of WHITE coloured vitreous china under counter <b>Regular rectangular WASH BASIN</b> with brackets / G.I. rag bolts and nuts painted, 32mm dia brass C.P. waste coupling, (heavy) 32mm dia brass C.P. bottle trap, 15mm dia brass C.P. Angle stop cock with flange, 15mm dia brass C.P. cold water connecting pipe, etc., The work shall include,required extension nipples, cutting / chasing and making good the walls and floors - toilets.	24.00	Each			
81		Supplying and fixing in position 15 mm dia Brass <b>Chromium Plated Two way bib cock tap with health faucet</b> with 1Meter length fixible hose with necessary CP fixing nuts of approved make conforming to IS specification and quality including cost of shellac, thread, cutting and threading wherever necessary etc., complete complying with standard specification and as directed by the Departmental officers. (Taps should be got approved by the Executive Engineer before use on the works)	24.00	Each			
82		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of WHITE coloured vitreous china under counter <b>Urinal</b> with brackets / G.I. rag bolts and nuts painted, 32mm dia brass C.P. waste coupling, (heavy) 32mm dia brass C.P. bottle trap, 15mm dia brass C.P. Angle stop cock with flange, 15mm dia brass C.P. cold water connecting pipe, etc., The work shall include,required extension nipples, cutting / chasing and making good the walls and floors - toilets.	4.00	Each			
83		Supplying and fixing best approved best quality brass <b>CP soap tray</b> of size 150 x 100mmx50mm depth including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications. (The soap tray should be got approved by Executive Engineer before use on works).	23.00	Each			
84		Supplying and fixing <b>Chromium plated towel rail</b> of approved make & brand 600 mm long and 20mm dia with chromium plated concealed brackets including cost of teak wood plug and CP Screws etc., Complete complying with standard specification and as directed by the Departmental officers.	13.00	Each			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
85		Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of stainless steel <b>sink with single bowl with drain board</b> supported by C.I./M.S. painted white brackets, C.P. cast brass bottle trap with extension piece, rubber adaptor, wall flange, union, C.P. brass chain rubber plug, including cutting and making good the wall/floors wherever required.	1.00	Each			
		<b>PART - II SOIL, WASTE AND VENT PIPE LINES</b>					
86		Supply and fixing in position best quality <b>PVC IS 4985 - CLASS- III - 6 Kg/Sqcm -Soil/ waste pipes</b> of various size with approved quality and variety of various size confirming having ISI mark and providing leak proof joints including fixing to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, wherever necessary and making chipping good portion to the original condition, complying with standard specification etc., complete.					
a		40mm dia. 6kg class PVC pipes.	36.00	Rmt			
b		50mm dia. 6kg class PVC pipes.	4.00	Rmt			
c		75mm dia. 6kg class PVC pipes.	63.88	Rmt			
d		110mm dia. 6kg class pipes.	41.60	Rmt			
87		Supplying and fixing in position cast iron Nahini / Floor trap with Stainless steel grating / PVC nahini / Floor Trap with PVC Grating type of size 100 x 75 / 75 x 50 mm with best quality gratings of approved brand fixed over a bed of brick jelly lime concrete 1;2;5(One lime two sand and five aggregate ) brick jelly 40mm and finishing with cm 1;3(One cement and three sand) including dismantling masonry wherever found necessary and making good to the original condition and giving connections to the cast iron pipe etc, complete complying with standard specification and as directed by the departmental Officers.	40.00	Each			
88		Supply and fixing in position best quality <b>PVC IS 4985 - CLASS-II - 6 Kg/Sqcm -Rain water pipes</b> of various size having ISI mark and providing leak proof joints with such as Bend, Tee Junction, door etc.,of approved qualityincluding fixing,Scaffolding to the wall with special PVC /MS clamps, etc., and making connection to all sanitary fittings, wherever necessary and making chipping good to the original condition, complying with standard specification etc.,complete.					
a		75mm dia. 6kg class PVC pipes.	3.60	Rmt			
b		110mm dia. 6kg class pipes.	36.00	Rmt			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
89		Supplying and fixing in position of the following dia <b>PVC rain water gratings</b> for rain water pipes ,of approved quality and variety of various size confirming to ISS and including necessary cutting and fixing and giving connection to PVC pipes etc., complete complying with standard specification and as directed by the Departmental Officer.					
a		75mm dia. 6kg class PVC pipes.	1.00	Rmt			
b		110mm dia. 6kg class pipes.	5.00	Rmt			
90		Supplying and fixing in position of the following dia PVC specials such as <b>PVC vent Cowl</b> etc.,of approved quality and variety of various size confirming to ISS amend providing leak proof joint etc., including necessary cutting and fixing and giving connection to PVC pipes etc., complete complying with standard specification and as directed by the Departmental Officer.					
a		75mm dia. 6kg class PVC pipes.	6.00	Rmt			
b		110mm dia. 6kg class pipes.	5.00	Rmt			
		<b>PART-III - EXTERNAL DRAINAGE</b>					
91		Supply and fixing in position best quality <b>PVC IS 4985 - CLASS- III - 6 Kg/Sqcm -Soil/ waste pipes</b> of various size with approved quality and variety of various size confirming having ISI mark and providing leak proof joints including erection of <b>below ground with excavation and refilling</b> etc., and making connection to Manholes / Gully trap, wherever necessary and making chipping good portion to the original condition, complying with standard specification etc., complete.					
a		160mm dia. 6kg class III-pipes.	60.00	Rmt			
92		Supply, laying and ersion of glazed stone ware <b>gully trap</b> (100 x 75 mm) with 100 mm dia, outlet including embedding trap in cement concrete 1:3:6 and constructing chamber of size 300 x 300 mm inside clear in brick masonry 230 mm thick, plaster with water proof cement mortar (1:3) 15 mm thick on both internal and external surfaces inside finished with floating coat of neat cement. The work including excavation to required depth of gully trap and refilling and making good in the surface with Providing and fixing SFRC frame and cover 400 x 400 mm (clear opening) complete complying with std. specification.	5.00	Each			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
93		Supplying and <b>Erection and construction of sewer chambers</b> of required internal dimensions 600x600 upto 0.6 mtr.depth with 230mm brick masonry in C.M.1:5 thk of masonry over bed of 1:2:4 R.C.C. 200 mm thk bove 100 mm thk P.C.C.1;3:6 Cement concrete foundations over sand bed of 100mm thk channelling in 1;2:4 cement concrete, plastering in 1:3 cement mortar for internal and external surface finished with floating coat of neat cement, the work including excavation for required depth of gully trap and refilling and making good in the surface with SFRC cover and frame 600x600mm (clear opening)complete complying with standard specifications etc.,	6.00	Each			
94		Construction of <b>rain water recharge</b> well of 1200mm dia and depth upto 1500mm, in addition 110 dia special blue slotted pipe for bore well,pipe should be laid from bottom of ring well centre to below 1500mm as shown in the drawings, including all types of excavation,occur for pipe, filling of rain water harvesting materials with construction of R.C.C. ring and top 100mm RCC SLAB WITH 450X450mm perforated SFRC manhole and 230mm brick wall in 2'height with below 300mm lengthx100mm thk P.C.C. as per the structural filling the filter media as per drawing.	3.00	Each			
		<b>PART-IV-WATER SUPPLY SYSTEM</b>					
		<b>INTERNAL CONCEALED WORKS</b>					
95		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including Scaffolding & cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Concealed work including chase cutting)complete complying with standard specification and as directed by the Departmental Officer.					
a		25 mm nominal (OD) pipes	103.23	M			
96		<b>EXPOSED PLUMBING WORKS</b>					

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including Scaffolding & cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Exposed work including chase cutting, bracket fixing)complete complying with standard specification and as directed by the Departmental Officer.					
a		20mm nominal(OD) pipes	QRO	M			
b		25mm nominal(OD) pipes	18.00	M			
c		32mm nominal(OD) pipes	14.40	M			
d		40mm nominal(OD) pipes	55.84	M			
e		50mm nominal(OD) pipes	QRO	M			
		<b>PART -V- EXTERNAL PLUMBING WORKS</b>					
97		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SDR-11) Pipes conforming to IS 15778 having thermal stability cold Metro water with brass and CPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step CPVC solvent cement with including cutting of chase including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, Concealed work including chase cutting)complete complying with standard specification and as directed by the Departmental Officer.					
a		25 mm nominal (OD) pipes	16.20	M			
b		32 mm nominal (OD) pipes	33.00	M			
c		100 mm nominal (OD) pipes	12.00	M			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
98		Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (CPVC-SPEAR) ball valve with and CPVC fittings with jointing of pipes with one step CPVC solvent cement with including cutting of chase in cluding testing of the joint complete and making good the walls etc., Rate is inclusive of all material,tools,and tackels taxes,levels VAT etc., all complete with standard specifications and at directed by the Department Officer for both internal and external water supply arrangements etc.,					
a		20 mm nominal (OD) pipes	1.00	Each			
b		32 mm nominal (OD) pipes	1.00	Each			
c		40 mm nominal (OD) pipes	1.00	Each			
99		Providing, supplying & laying of <b>Gunmetal</b> type NRV - pressure rating less tahn 16 Kg/Sqcm and IS778 with 2 Nos of MTA with jointing material like shellac, thread including testing of the joints complete and making good the walls etc. Rate is inclusive of all material labour, transportation, tools & tackles taxes, levies VAT etc all complete as per as per specifications, complete complying with standard specification and as directed by the Departmental Officer.					
a		20 DIA	1.00	Each			
b		25 DIA	1.00	Each			
c		32 DIA	1.00	Each			
		<b>PART-VI-WATER PUMPS</b>					
100		Supply, Erection testing and commissioning of Submersible type water pumps 3HP -30Mtrs head with required electrical starter, foundation with control valves and float switches for water pumping from UG sump to OHT Tank [ <b>For Raw water</b> ]	1.00	Each			
101		<b>BORE WELL</b> :Providing boring using hand bore set 150mm dia upto hard formation and boring 100mm dia below this inrock formation including hire charges of Machine bore set and its accessories labour charges and transport charges for drillings preparing the site etc. providing and erecting 110mm dia (O.D.) P.V.C.pipe plain (wall thickness 4.5mm and slotted) upto water column and providing and filling the gap alround the 110mm dia PVC pipe with pebbles including clearing and developing the entire column by using compressor for a minimum time of 12 hours providing danger lights during night time etc and necessary safety measures complete as directed during execution.upto 150m depth below ground level	200.00	Rmt			
<b>SUB TOTAL OF PLUMBING AND SANITARY WORKS(B)</b>							

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
<b>C</b>		<b>ELECTRICAL WORKS</b>					
	2.40	<b>MCCB, MCB &amp; DB'S</b>					
102.0		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).					
a	2.4.1	4 way (4 + 12), Double door	1.00	EA			
b	2.4.2	6 way (4 + 18), Double door	4.00	EA			
103.0	2.50	Supplying and fixing of following ways surface/ recess mounting,vertical type, 415 V, TPN MCB distribution board of sheet steel,dust protected, duly powder painted, inclusive of 200 A, tinnedcopper bus bar, common neutral link, earth bar, din bar formounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
a	2.5.1	4 way (4 + 12), Double door	2.00	EA			
104.0		Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess,complete with tinned copper bus bar, neutral bus bar, earth bar,din bar, interconnections, powder painted including earthing etc.as required. (But without MCB/RCCB/Isolator)					
a	2.3.3	12 way, Double door	2.00	EA			
105.0	2.10	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.					
a	2.10.1	Single pole	94.00	EA			
b	2.10.3	Double pole	12.00	EA			
c	2.10.4	Triple pole	10.00	EA			
d	2.10.5	Triple pole and neutral	5.00	EA			
106.0		Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30/100 mA in the existing MCB DB complete with connections, testing and commissioning etc. As required.					
a		63 A	6.00	EA			
107.0	2.20	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.					



Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
a	2.2.13	100 A, 30 kA, TPMCCB	1.00	EA			
108.0	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required..					
a	1.10.1	Group A	180.00	EA			
b	1.10.2	Group B	80.00	EA			
c	1.10.3	Group C	50.00	EA			
109.0	1.11	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	17.00	EA			
110.0	2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	10.00	EA			
111.0	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).	50.00	EA			
112.0	1.32	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 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	20.00	EA			
113.0	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required					
a	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	2000.00	M			
b	1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	600.00	M			
c	1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	60.00	M			
d	1.14.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire	50.00	M			
e	1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	45.00	M			
f	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	50.00	M			
g	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	50.00	M			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
114.0	1.18	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.					
a	1.18.3	6 Pair - CAT6	2000.00	M			
115.0	1.19	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.	100.00	M			
116.0	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
a	1.21.1	20 mm	200.00	M			
b	1.21.2	25 mm	400.00	M			
c	1.21.3	32 mm	200.00	M			
117.0	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required..					
a	1.24.3	15/16 amp switch	40.00	EA			
b	1.24.4	3 pin 5/6 amp socket outlet	120.00	EA			
c	1.24.6	Telephone/data socket outlet	60.00	EA			
d	1.24.7	TV antenna socket outlet	10.00	EA			
e	1.24.8	Bell push	4.00	EA			
118.0		Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	80.00	EA			
119.0	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	40.00	EA			
120.0	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.					
a	1.27.1	1 or 2 Module (75mmX75mm)	150.00	EA			
b	1.27.2	3 Module (100mmX75mm)	100.00	EA			
c	1.27.3	4 Module (125mmX75mm)	40.00	EA			
d	1.27.4	6 Module (200mmX75mm)	40.00	EA			
e	1.27.5	8 Module (125mmX125mm)	60.00	EA			
121.0	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
a	1.28.1	1 or 2 Module	150.00	EA			
b	1.28.2	3 Module	100.00	EA			
c	1.28.3	4 Module	40.00	EA			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
d	1.28.4	6 Module	40.00	EA			
e	1.28.5	8 Module	60.00	EA			
		<b>EARTHING</b>					
122.0	5.12	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	100.00	M			
123.0	5.40	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	2.00	EA			
124.0	5.60	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	2.00	EA			
		<b>CABLE GLANDS &amp; TERMINATIONS</b>					
125.0		Supplying&makingendterminationwithbrasscompressiongl andandaluminiumlugsforfollowingsizeofPVCinsulatedandPVCsheathed/XLPEAluminiumconductor cable of 1.1 KV grade as required.					
a	9.1.26	3.5 Core X 95 Sq.mm ( 45 mm)	4.00	EA			
b	9.1.34	4 X 25 sq. mm (28mm)	5.00	EA			
c	9.1.33	4 X 16 sq. mm (28mm)	5.00	EA			
d	9.1.32	4 X10 sq. mm (25mm)	15.00	EA			
		<b>NON SCHEDULE ITEMS FOR ELECTRICAL AND SERVICES WORK</b>					
		<b>LT ,1100V GRADE PVC / XLPE Armoured UnderGrounds Cables.</b>					
126.0		Supply and fixing of 3.5 X 95Sqmm PVC armoured LT UG cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt.Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	50.00	M			
127.0		Supply and Clamping of 4C X 25 Sqmm PVC LTUG armoured LTUG cable on Post or on Wall with Ms Clamp	50.00	M			
128.0		Supply and fixing of 4c X 16Sqmm PVC armoured LT UG cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt.Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	50.00	M			
129.0		Supply and fixing of 4c X 10 Sqmm PVC armoured LT UG cable in a trench to be excavated at a depth of 0.75metre putting 0.15 mt.Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good.	250.00	M			
		<b>LIGHT FITTING &amp; FAN</b>					

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
130.0		Supply, Installation, Testing and Commisioining of Recess/surface mount type 36-40 W - cool white 2 By 2 High efficiency recessed LED luminaire made of CRCA powder coated body with high efficiency milky diffuser suitable for 600 X 600 modular ceiling / POP ceiling working input range 145- 265V AC 50 Hz PF > 0.9 and THD < 10 % and 4.5 KV surge withstanding capacity and design life > 35000 Hrs - Make - Philips -Model - RC308B / Elenserve - Model - ELFG39SQI /Crompton - Model - LCTLR-36-FO-CDL/DD	15.00	EA			
131.0		Supply, Installation, Testing and Commisioining of 20 - 22 W LED tube lights extruded aluminium body poly carbonate milky diffuser Long-life electrical driver to deliver optimal performance. voltage window 145-265 V AC 50 Hz and maintain PF > 0.9 Surge up to 2 kV , cool white 5000 K to 6500 K with CRI > 0.8 Make - Philips - Model -Endura LED Batten - BN108C / Elenserve - Model ELBT40	100.00	EA			
132.0		Supply, Installation, Testing and Commisioining of 18 LED surface mount led lights body made of CRCA powder coated body fitted with LED back lite panel light body made of di cast aluminium Milky poly carbonat e diffuser , Long-life electrical driver to deliver optimal performance. working voltage window 145-265 V AC 50 Hz and maintain PF > 0.9 and Surge up to 2.5 kV High efficiency led with efficacy 120 Lumens/watt Cool white - 5000 K to 6500 K with CRI > 0.8 for Passage	20.00	EA			
133.0		Supply, Installation, Testing and Commisioining of 9 - 10 W - cool white LED luminaire made of extruded aluminium body with high efficiency milky diffuser working input range 145- 265V AC 50 Hz PF > 0.9 and THD < 20 % and 2.5 KV surge withstanding capacity and design life > 25000 Hrs - Make - Elenserve -Model - ELBT09 / PHILIPS For toilet	20.00	EA			
134.0		Supply & Fixing of LED mirror light - 9 W warm white 2700K - 3000 K - , Led efficacy - > 100 lumes/watt with inbuilt driver input voltage range 145-265 V AC PF > 0.9 , base body extruded aluminium with polycarnote milky diffuser (ELMR09) @ Mirror	15.00	EA			
135.0		Supply and fixing of 30w Led street light fitting with 19mmdia GI pipe ( class B ) with 1 no of19mm dia GI bend completed on existing post & wall with on MS plate with PVC unsheathed cu leads with clamp and aluminium painting with led lamp.	10.00	EA			
136.0		Supply and fixing of modular type Night lamp In GI box to be concealed on wall	10.00	EA			

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
137.0		Supply and erection of 65mm dia GI pipe (Class B )of 4 mtr Length with 300mmX300mmX 6mm MS base plate Duly Welded at the bottom and with Concreting and construction on Masonary pedestal with Ms box of 30cm x 20cm x 10cm with angle iron frame work with lock and key arrangements and with supply and fixing post top latern fitting and necessary accessories with complete set. suitable for mounting and Supply and Fixing 1 no of 25W LED street light fitting,including The pole should be provided 6A SPMCB housed in DP Box,4 way 16A terminal block,SMC box for loop in and loop out cable arrangements,SMC box for loop in and loop out cable entry and exit in GI pipe of 2.5" dia fitted in pole with clamps.	5.00	EA			
138.0		Providing & Fixing of 1200mm sweep 5 star rated - Group A ceiling fan to be fixed on existing / erected clamps with necessary down rods and with all fixing accessories etc..	75.00	EA			
139.0		Supply Installation Testing Commissioning of Exhaust type Fan With all Accessories etc as required.	20.00	EA			
140.0		Supplying and Fixing of 18" dia wall mounted Fan	5.00	EA			
		<b>LT SERVICE - PANEL BOARD</b>					
141.0		<b>MAIN SWITCH</b>					
		Supply and erection of 125A TPN FSU with HRC fuses in sheet steel enclosure on wall mounting angle iron frame work and with suitable cable box at top and bottom for receiving 1 No.3½C 95 sqmm AYFY cable and 1 No. 4R of 25 sqmm unarmoured copper wires as required near the TNEB meter.	1.00	EA			
142.0		<b>MAIN METER BOARD 3 PHASE</b>					
		Supply, installation, testing and commissioning of cubicle floor/ wall mounting type, Main meter Board with copper bus-bars, bottom and top entry cable chambers for incoming & outgoing cables, dust and vermin proof, fabricated with 16 SWG CRCA sheets with powder coated. Bus-bars shall be electrolytic quality copper with pvc heat shrinkable colour coded sleeves and supported with SMC/DMC at adequate interval. The panel shall be provided with the following:- 3NO OF 200A I/C Fuse carries With Netural link including of Hylam Sheet,1No of 3x125A fuse carrier,1 No of Metering Provisions,1 no 125A TPN FSU, 1 No of Netural Link and Dobule Side Panel Earthing, 10 sq,mm Wires for all Services. and O/G with suitable copper bus bar (33x6mm) 1 set of phase indicating lamp with protection fuses.	1.00	EA			
143.0		<b>MAIN LT PANEL BOARD</b>					

Sl. No.	DSR ITEM No	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT (INR)
		Supply, installation, testing and commissioning of cubicle floor mounting type, Main LT Panel Board with copper bus-bars, bottom and top entry cable chambers for incoming & outgoing cables, dust and vermin proof, fabricated with 16 SWG CRCA sheets with powder coated. Bus-bars shall be electrolytic quality copper with pvc heat shrinkable colour coded sleeves and supported with SMC/DMC at adequate interval. The panel shall be provided with the following:- INCOMER:1 No 125A TP&N 35KA MCCB with rotary handle operating mechanism,1 set of phase indicating lamp with protection fuses,1 No 0-500V 96x96mm electronics voltmeter with selector switch,1 No 0-150A 96x96mm electronics ammeter with selector switch 3 Nos 150/5A 10VA CL:1.0 CT for ammeter. OUTGOING FEEDERS:4 Nos. 100A TP&N 25KA MCCB with operating mechanism and 4 no of 63A TP&N 25KA MCCB with operating mechanism BUS BAR RATING: PH: 1R 32 x 6 mm Cu Flat,NL: 25 x 6 mm Cu Flat,E : 25 x 3 mm Cu Flat	1.00	EA			
		<b>CHANGE-OVER SWITCH</b>					
144.0		Supply and installation of 100A 4P on-load changeover switch in sheet steel enclosure on wall mounting angle iron frame work and including top & bottom cable boxes to receive incoming & outgoing cables.	1.00	EA			
145.0		Supply, installation, testing and commissioning of 60A rated auto phase shifter with single line output for UPS unit.(SLHD 60 of Swift make)	2.00	EA			
146.0		Supply, installation, testing and commissioning of 63A DP auto changeover switch in suitable sheet steel enclosure.	2.00	EA			
<b>SUB TOTAL OF ELECTRICAL WORKS (C)</b>							
<b>SUMMARY</b>							
<b>A</b>	<b>Civil Works</b>						
<b>B</b>	<b>Plumbing &amp; Sanitary works</b>						
<b>C</b>	<b>Electrical works</b>						
	<b>GRAND TOTAL OF ALL WORKS</b>						
	<b>GRAND TOTAL IN WORDS</b>						