

CLIENT : INDIAN BANK RURAL SELF EMPLOYMENT TRAINING INSTITUTE

PROJECT : PROPOSED CONSTRUCTION OF INDIAN BANK'S RURAL SELF EMPLOYMENT TRAINING INSTITUTE AT TIRUVANNAMALAI,TAMILNADU.

SUBJECT : BILL OF QUANTITY

SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
A	CIVIL BOQ						
1	Scrub jungle including uprooting of trunk 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.	2000.00	sq.m				
2	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.	765.00	cu.m				
3	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.	573.00	sq.m				



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	1. The chemical to be used as insecticides for the treatment shall be Termite oil 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						
4	Supplying and filling in foundations and basement with filling M- sand in layers not exceeding 15 cm. thick, well watered ,rammed and consolidated etc. complete complying with standard specifications.	86.00	cu.m				
5	Plain Cement Concrete 1 : 4 :8 (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.	87.00	cu.m				
6	Refilling the approved good quality earth in plinths, area development etc. wherever specified in layers is not exceeding 200 mm thick, with available earth at site.	547.00	cu.m				
7	Supplying and Filling Gravel :Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc.,complete complying with standard specification.	1270.00	cu.m				
8	Damp proof course with Cement Mortar 1:4 (One Cement and Four crushed stone sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used, finishing and curing etc. complete complying with standard specification.	126.00	Sq.m				



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9	Supplying and erecting Centering and Shuttering for soffits including necessary supports and strutting up to 3.3 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.	Footing, Plinth Beam, etc.	631.00	sq.m				
b.	Plain surfaces such as roof slab, floor slab, beams, lintels, loft, sill slab, staircase waist, portico slab and other similar works.	2016.00	sq.m				
c.	Column Below basement Level	269.00	sq.m				
d.	Square and rectangular columns and small quantities such as sunshades, parapet cum drops, window boxing, fin projections and other similar works.	559.00	sq.m				
10	Providing and laying in position, Standardised Concrete Mix M-25 Grade in accordance with IS:456-2000, using 20mm and down grade hard broken granite stone jelly for all RCC Items of works with minimum cement content of 350kg/m ³ and maximum water cement ratio of 0.50, including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS:9130 to accelerate, rated setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m) 7730kg. of 20mm machine crushed stone jelly and with about (3.3cum) 5156 kg. of 10-12mm machine crused stone jelly and with about (4.79cum) 7670 kg of sand,						



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	but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with Mechanical vibrators, finishing, curing, etc.,and providing fixtures like fan clamps in the RCC Floor / roof slabs wherever necessary without claiming extra, etc., Complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards.						
a	Foundation & Basement	151.00	cu.m				
b	Ground Floor	159.00	cu.m				
c	First Floor	142.00	cu.m				
d.	Terrace Floor	28.00	cu.m				
11	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 recoiling, 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 and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and complete., including all labor charges etc	70.95	MT				
12	Brick work in following Cement Mortar using best quality Country bricks of size 8"3/4 x 41/4" X2 3/4"for foundation and basement including curing, etc.,complete complying with standard specification.						
a	Foundation basement	76.99	cu.m				
b	Ground floor	87.00	cu.m				
c	First Floor	75.00	cu.m				
d.	Terrace Floor	39.00	cu.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
13	Brick partition walls of 11.50cm thickness using best quality Country bricks of size 8"3/4 x 4 1/4" X2 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. (Hoop iron reinforcement will be measured and paid for separately).						
a	Ground Floor	198.00	Sq.m				
b	First Floor	142.00	Sq.m				
14	Providing and applying 8mm to 10mm thick Cement plaster in Cement mortar 1:3 (One part of Cement and Three parts of Sand), to finishing the exposed surfaces of R.C.C. items of works such as Roof (or) floor slabs , beams, and Sun shades etc.to correct plane and level including 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 Enineer in charge. This rate includes the cost of providing Cement Mortar beadings for sun shades, steps,landing slabs, elevation etc. complete complying with standard specifications.	1126.00	sq.m				
15	Providing & applying 12mm to 15mm thick cement plaster in CM 1:5 (1 part of cement: 5 parts of sand) to walls internally 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 chambering 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 labor complete in all respects including all lead, lift and descent and as directed.	2225.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
16	Providing & applying 12mm to 15mm thick cement plaster in CM 1:5 (1 part of cement: 5 parts of sand) to walls internally 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 chambering 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 labor complete in all respects including all lead, lift and descent and as directed.	143.00	sq.m				
17	Providing & applying 18mm to 20mm thick cement plaster in CM 1:5 (1 part of cement: 5 parts of sand) to walls externally in single coat at all levels to correct line and level including scaffolding, rounding off or chambering 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 labor complete in all respects including all lead, lift and descent and as directed.	1286.00	sq.m				
18	Paving the floor with best approved quality fine polished Kota stone slabs of size 600 x 600 of 18 / 20mm with machine cut edges and matching marble slab not less than 100mm width other than Adanga Marbles as border laid over a cement mortar bed of 20mm thick using cement mortar 1:3 (One cement and three sand) fixing the slabs in true right angles with minimum possible width of joints and pointing the joints with white cement mixed with matching colouring pigments and polishing with floor polisher to a high degree of finish 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 Basic Cost 560/- Sq.m	70.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
19	Paving the floor with best quality Stain Free Nano polished Vitrified tiles- 600 x 600 x 8mm of approved color, 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 color pigments etc., complete complying with standard specification Basic Cost-Rs.570/sq.m	618.00	sq.m				
20	Flooring with following ceramic tiles of size 305 x 305 x 6 mm laid over 20 mm thick cement mortar 1:3 (One Cement and Three 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 pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. Basic cost-Rs.430/sq.m	135.00	sq.m				
21	Dadoing the walls with coloured Dadoing Ceramic tiles of size 300mm x 450mm x 8mm 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. Basic Cost 430/- Sq.m	392.00	sq.m				
22	Paving the floor with best approved quality Natural flammed finish granite for flooring/ steps & Landing of 18 / 20mm thick of with machine cut edges laid over a cement mortar bed of 20mm thick using cement mortar 1:3 (One cement and three crushed stone 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 mathcing colouring pigments etc, complete as per standard speicification Basic cost-Rs.1462/sq.m	274.00	sq.m				
23	Supply and fixing of Fine Double side polished granite slab , 20 mm thick (average), for ,urinal including fixing in position cutting ,chipping the wall, masonry touch up works etc. Basic cost-Rs.1850/sq.m	6.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
24	Paving the floor with pre-polished concrete anti-skid step tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., Basic cost-Rs450/sq.m	28.00	sq.m				
25	Supply and fixing of polished granite slab ,18 mm thick (average), for flooring including fixing in position cutting , chipping the wall, masonry touch up works etc. Basic cost-Rs.1500/sq.m	65.00	sq.m				
26	Supplying and fixing fine Single side polished cuddapah slab of 30mm thick for cuboards arrangements including laying to correct alignment with necessary cement mortal and black powder etc., complete with standard specificatins. Basic cost-Rs.500/sq.m	58.00	sq.m				
27	Providing, fabricating and fixing M.S. grills 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.	2420.00	KG				
28	Manufacturing, supplying and fixing of stainless steel hand rails for staircase using 50mm dia 304L grade stainless steel pipe of 1.6mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia stainless steel pipe post of 1mm thick as vertical at 900mm centre with 2 Nos of 25mm dia intermediate horizontal stainless steel pipe of 1.6mm 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,ect.complete.	18.19	Sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
29	Manufacturing, supplying and fixing of stainless steel hand rails for staircase using 50mm dia 304L grade stainless steel pipe of 1.6mm thick will be provided with tubular supports made of 304L grade ss pipe of 25mm dia of 1.6mm thick welded to the railing. The supports will be grouted into the wall and provided with 93mm thick ss circular base plate of 304L grade. The rate shall included for grouting into concrete with necessary supporting arrangements the hand rail in floor polishing buffing, cutting, grinding, conveyance, welding charges, electrical charges, etc. complete.	4.00	Rmt				
30	UPVC Window supplying and fixing UPVC (Un-PLASTICIZED Polyvinyl chloride) windows of casement type (open) from the profile the size of outer frame 60mmx58mm and shutter profile are reinforcement with g/1mm 125GSM and 100% corrosion free, the profiles are multi chambered section with wall thick of 2mm. The EPDM rubber (black color) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power points locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin headed or plain 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.	92.00	sq.m				
	The connecting mechanism between inner and outer frame that enables opening of 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.						



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31	UPVC VENTILATOR: Supplying and fixing UPVC (Un-PLASTICIZED Polyvinyl chloride) Louvered Ventilators of from the profile the size of outer frame 60x58mm and shutter profile the size of 60x78mm both profile size of 60x78mm both profiles are reinforced with GI/1MM 125GSM and 100% corrosion free , the profile are mulit chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with all over he edges of frame and shutter . The corners and joints should be welded and cleaned. Radiation pin headed glass 4mm thick should be fixed to the wall with 100% packing with screws and silicon packing all aroundthe frame. The ventilator should be got approved from the Executive Engineer before use on work. (SOR M-0675) Pg.no:114	7.00	sq.m				
32	FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and Solid core frames of 3mm wall thickness for styles and rails etc.,	40.00	sq.m				
33	Supplying, fabricating and fixing in position of Alumni Anode using 5.5 mm thick frosted glazed door using rectangular Alumni. Box section of following sizes for frame and shutter with necessary accessories such as rubber beading, Al. Clips, Best track arrangement on top, Aluminum Handles on both sides, stopper bush on top, tower bolt, Locks and glass including all materials, Labour, power consumption charges required for fabrication if necessary chipping, dismantling making necessary holes in RCC Columns, Beams or Masonry wherever necessary with power drill to the extent required and made good to the original conditions after fixing etc., complete. The Alumni. surface must be anodized with matt finish under electrically controlled condition in accordance with IS specification 1868 / 1962 of Anodic fill thickness of not less than 15 Microns (Fifteen) for all sections.	3.00	sq.m				
34	Door Frame: Supplying and fixing first quality teak wood frames for doors, windows, ventilators and other similar joinery works with the following sizes and sections including labour charges for wrought and put up in position and also for fixing hold fast in frames and masonry etc. complete in all floors.						



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a	Teak wood Scantings up to 2M	1.00	Cu.m				
b	Teak wood Scantings over 2M and below 3M	3.20	Cu.m				
35	Supply & Fixing of 32mm thick. single leaf high density interior grade marine plywood shutters pasted both sides with 4mm thk.OST ply of 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 mortise lock , handle, tower bolt , approved equivalent make SS bearing hinges of equivalent make of approved make,2 no floor mounted SS door stopper ect. complete.	56.00	sq.m				
36	Supply & Fixing of 40mm thk.Double leaf high density interior grade marine plywood shutters 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. Make:Kutty,Sharon,Trojan. Accesseorice Make:Dorma, Godrej.1.5mm thk Laminate Basic Cost:810/M2	19.00	sq.m				
37	Providing & fixing Glazed Door. The door shutter to be made from 125x40mm teak wood side & top members along with 200x40mm teak wood bottom member. Item includes fixing 12mm glass fixed with teak wood beading 14x12mm. The door is to be complete with mortice door lock & SS handle , S.S,Stopper, 125mm S.S. hinges (Hettich/ Dorma/ Ozone) etc. All wood surfaces to be malamine polished complete to the satisfaction of Architect / Bank's Engineer.	4.00	sq.m				
38	Supplying and Erecting Pull and Push Type Rolling Shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc(Manually Operated)	4.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
39	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.	2.00	Sq.m				
40	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer with two or more coat of synthetic enamel paint.	3.00	Sqm				
41	Toilet Sunken using broken brick jelly 20 mm gauge The proportion of broken brick jelly to slaked lime being 1:3:6 (1part cement,3 part fine aggregate & 6 part broken brick jelly), well beaten by wooden beaters for giving required slope and thickness required etc	11.00	Cum				
42	Painting two coats of synthetic Enamel paint of approved colour and make over one coat of anti corrosive Zinchromite primer over steel work , 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.	123.00	sq.m				
43	Painting two coats of synthetic Enamel paint of approved colour and make over one coat of anti wood primer over new wood , 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.	106.00	sq.m				
44	Supplying and Painting new plastered surface with two coats of distemping one coat of distemper primer	1126.00	sq.m				



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45	Providing and applying Plastic Emulsion paint finish of approved make & shade in two coats over a coat of approved primer to give an even shade as per manufacturer's instruction to the internal plastered surfaces including preparation of surfaces, scaffolding etc. all complete as per drawings and specification for all heights.	1833.00	sq.m				
46	Providing and applying Emulsion paint finish of approved make & shade in two coats over a coat of approved primer and 2 coats of putty to give an even shade as per manufacturer's instruction to the internal plastered surfaces including preparation of surfaces, scaffolding etc. all complete as per drawings and specification for all heights.	143.00	sq.m				
47	Supplying and painting the walls with one coat of exterior wall primer followed by two coats of exterior-grade emulsion paint, such as Asian Paints (Apex or equivalent) weatherproof emulsion, and, where specified, application of a textured finish, ensuring waterproofing protection, complete in all respects.	1286.00	sq.m				
48	Supplying and preparing surfaces plaster walls RCC Surfaces and applying approved quality of Texture external plastered surfaces and over two coat emulsion and one coat primer to all levels including preparation of surfaces, scaffolding etc. all complete as per drawings and specification for all heights.	281.00	sq.m				
49	Providing and laying water proofing treatment to vertical and surfaces for sunken portion of depressed portions of W.C., and Terrace :i) Ist 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) IInd course of 20mm cement plaster 1:2 (1 cement : 2 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7Kg. per sqm of area. iv) IVth 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.)	632.00	sq.m				



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50	Providing water proof plastering on top of chajjas in cement mortar 1:4 (1 Cement:4 C.Sand) , 20 mm thick including providing and removing scaffolding. , rounding of all corners wherever required smooth rendering etc. , complete mixing with water proof compound of approved make (Fosrock , Build plast chemicals) as per manufacturers specifications with a minimum of 150 ml per bag of cement used including curing etc., compete with all lead and lift charges for all heights.	81.00	sq.m				
51	Weathering Course Concrete using best quality broken brick jelly of 20 mm uniform gauge 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, jiggery water etc. complete complying with standard specifications and as directed	48.00	cu.m				
52	Finishing the top terracotta tiles of roof with one course of machine pressed tiles of size 230mm x 230mm x 20mm 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.,	487.00	sq.m				
53	Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound Conplast X 421IC 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.	45.00	sq.m				



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	UNDER GROUND SUMP						
54	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.	27.00	Cum				
55	Supplying and filling in foundations and basement with filling M-sand in layers not exceeding 15 cm. thick, well watered, rammed and consolidated etc. complete complying with standard specifications.	2.00	Cum				
56	Plain Cement Concrete 1:4:8 (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.	2.00	Cum				
57	Supplying and erecting centering and shuttering for soffits including necessary supports and strutting upto 3 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 specifcaiton. (Payment for centering shall be given after the concrete is laid).	57.00	Sqm				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
58	Providing and laying in position, Standardised Concrete Mix M-25 Grade in accordance with IS:456-2000, using 20mm and down grade hard broken granite stone jelly for all RCC Items of works with minimum cement content of 350kg/m ³ and maximum water cement ratio of 0.50, including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS:9130 to accelerate, rated setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m) 7730kg. of 20mm machine crushed stone jelly and with about (3.3cum) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79cum) 7670 kg of sand,	9.00	Cum				
	but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with Mechanical vibrators, finishing, curing, etc.,and providing fixtures like fan clamps in the RCC Floor / roof slabs wherever necessary without claiming extra, etc., Complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards.						
59	Steel - Fe 500 D/Fe 550D: 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 recoiling, 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 and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and complete.,	1.17	MT				
60	Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound Conplast X4211C 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.	35.00	Sqm				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
61	Supplying, laying and fixing in position ceramic tiles 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. Basic cost-Rs.430/sq.m	29.00	Sqm				
62	Supplying and fixing in position C.I.Manhole covers (heavy duty) of various sizes of best approved quality and as per standard specification setc., complete.0.6X0.6M Size etc., complete.	1.00	Nos				
63	PVC mould CI steps for sump	8.00	Nos				
	SEPTIC TANK						
64	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.	27.00	Cum				
65	Supplying and filling in foundations and basement with filling M-sand in layers not exceeding 15 cm.thick,well watered,rammed and consolidated etc. complete complying with standard specifications.	2.00	Cum				
66	Plain Cement Concrete 1:4:8 (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.	2.00	Cum				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
67	Supplying and erecting centering and shuttering for soffits including necessary supports and strutting upto 3 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 specifcaiton.(Payment for centering shall be given after the concrete is laid).	59.00	Sqm				
68	Providing and laying in position, Standardised Concrete Mix M-25 Grade in accordance with IS:456-2000, using 20mm and down grade hard broken granite stone jelly for all RCC Items of works with minimum cement content of 350kg/m ³ and maximum water cement ratio of 0.50, including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS:9130 to accelerate, rated setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m) 7730kg. of 20mm machine crushed stone jelly and with about (3.3cum) 5156 kg. of 10-12mm machine crused stone jelly and with about (4.79cum) 7670 kg of sand,	9.00	Cum				
	but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with Mechanical vibrators, finishing, curing, etc.,and providing fixtures like fan clamps in the RCC Floor / roof slabs wherever necessary without claiming extra, etc., Complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards.						



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
69	Steel - Fe 500 D/Fe 550D: 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 recoiling, 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 and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and complete., including all labor charges etc as directed by departmental officers.	1.22	MT				
70	Brick partition walls of 11.50cm thickness using best quality Country bricks of size 8"3/4 x 4 1/4" X2 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. (Hoop iron reinforcement will be measured and paid for separately).	4.00	Sqm				
71	Providing, supply, mixing laying cement plastering 20mm thick with cement mortar 1:4 mixed with water proofing compound Conplast X4211C 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	64.39	Sqm				
72	Supplying and fixing in position C.I.Manhole covers (heavy duty) of various sizes of best approved quality and as per standard specification etc., complete. 0.6X0.6M Size etc., complete.	1.00	Nos				
73	PVC mould CI steps for sump	8.00	Nos				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
	COMPOUND WALL						
74	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.	478.00	cu.m				
75	Supplying and filling in foundations and basement with filling M sand in layers not exceeding 15 cm. thick, well watered, rammed and consolidated etc. complete complying with standard specifications.	21.00	cu.m				
76	Plain Cement Concrete 1 : 4 : 8 (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.	21.00	cu.m				
77	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	Footing, Plinth Beam, etc.	310.00	sq.m				
b	Square and rectangular columns and small quantities such as sunshades, parapet cum drops, window boxing, fin projections and other similar works.	268.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
78	Providing and laying in position, Standardised Concrete Mix M-25 Grade in accordance with IS:456-2000, using 20mm and down grade hard broken granite stone jelly for all RCC Items of works with minimum cement content of 350kg/m ³ and maximum water cement ratio of 0.50, including admixture (Plasticiser / super plasticiser) in recommended proportions as per IS:9130 to accelerate, rated setting of concrete, improve workability without impairing strength and durability with about (5.0 cu.m) 7730kg. of 20mm machine crushed stone jelly and with about (3.3cum) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79cum) 7670 kg of sand,						
	but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with Mechanical vibrators, finishing, curing, etc.,and providing fixtures like fan clamps in the RCC Floor / roof slabs wherever necessary without claiming extra, etc., Complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards.						
a	Foundation & Basement	67.00	cu.m				
79	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 and providing precast cement/ PVC cover blocks for main reinforcement to ensure specified cover and complete	7.23	MT				
80	Brick work in following Cement Mortar using best quality Country bricks of size 8"3/4 x 4 1/4" X2 3/4"for foundation and basement including curing, etc.,complete complying with standard specification.	55.00	sq.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
81	Providing & applying 18mm to 20 mm thick cement plaster in CM 1:5 (1 part of cement: 5 parts of sand) to walls externally in single coat at all levels to correct line and level including scaffolding, rounding off or champhering 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.	677.00	sq.m				
82	Supplying and fixing mild steel grills for windows, ventilators, Gate etc., including priming one coat necessary fixtures complete as per drawings.	300.00	Kg				
83	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 Zinc chromite priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification.	18.00	sq.m				
84	Supplying and painting the exterior walls with one coat of wall primer and two coats of Acrylic Exterior emulsion (ACE quality of Asian paints or its equivalent) as per manufacturers specifications including preparation of surface, curing the primer coat and including Scaffolding, cleaning the paint drop stains after completion painting works etc., complete in all floors complying with standard specifications	677.00	sq.m				
EXTERNAL DEVELOPMENT							
85	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.	11.00	cu.m				
86	Supplying and filling in foundations and basement with filling M sand in layers not exceeding 15 cm. thick, well watered ,rammed and consolidated etc. complete complying with standard specifications.	120.00	cu.m				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
87	Plain Cement Concrete 1 : 4 :8 (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.	4.00	cu.m				
88	Supplying and Filling Gravel:Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc.,complete complying with standard specification.	578.00	cu.m				
89	Manufacturing, supply & fixing of precast kerb stone of size 400mmx259mmx200mm thick made of M 20 grade of concrete rectangular in shape with one corner chamfered by 100 mm x 100 mm as per approved design i/c cost of all material, labour and curing etc.,complete. as per IRC 5758 - 1984.						
a	Kerb stone	37.98	Sq.m				
90	Supplying and laying of Interlocking Paver Block Stone 63mm thick . Over a base layer of crushed stone sandfilling incl. Cost of materials laying and Labour charges etc.,	1156.00	sq.m				
	SUB TOTAL (A)						
B	PLUMBING AND SANITARY BOQ						
	PART - A SANITARY FITTINGS						
91	Supplying and fixing of floor mounted white colour European water closet Parryware or equivalent, with seat cover and dual flush (3/6 lit) cistern having P trap with seat cover, supplying non corrosive hinges, CP bolts, nuts, washers, providing and fixing dash anchor fastners with bolts / L - brackets with anticorrosive paint cutting grooves in masonry or concrete surfaces, grouting with cement concrete 1:2:4 mix, using 20mm size stone jelly, restoring the damaged portion to their original condition using required materials, fixing the water closet to perfect level, alignment, testing etc. complete. Model Casa C022x	17.00	Each				
92	Supply & Fixing of two in one CP Health Faucet of the closet mounting type with hose connected two way BIB COCK complete fittings. (Make: Parryware or equivalent) Model : Primo health Faucet. Code: E8383A1	17.00	Each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
93	Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of WHITE coloured vitreous china under counter Regular rectangular wash basin 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. Piller 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. (Make: Parryware or equivalent) Model :Atom pro. Code:C897Q	16.00	Each				
94	Supplying & fixing of Long body Bibcock with brackets including fixing over Wall tile dado complete. (Make: Parryware or equivalent)Model: Pluto Collection Code: G3806A1	48.00	Each				
95	Supplying & fixing of Angle valve stopcock with connecting hose and wall flange. (Make: Parryware or equivalent) Model :Cute Code:T9880A1	82.00	Each				
96	Towel Rail :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. (Make:Parryware or equivalent) Code : T5901A1	13.00	Each				
97	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.	16.00	Each				
98	Supplying and fixing best approved best quality CP stop cock 15mm dia including cost of brass screws, etc., complete complying with standard specifications. (Make: Parryware or equivalent) Code:T3511A1	8.00	Each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
99	Flat Back Urinal :Providing and keeping in stores, shifting to the place of installation, fixing, testing and commissioning of white vitreous china white color large flat back urinal with CP angle cock spreader flushing supported by CI/MS bracket including built in waste grating,C.P. cast brass bottle trap with extension piece, wall flanges,flush piping, (Make: Parryware or equivalent) Code:C0501	8.00	Each				
100	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. (Make: Parryware or equivalent) Model :Coral Code:T9825A1, Model :Alpha Shower Code:T9885A1	13.00	Each				
101	Supplying & fixing of Coat hook with brackets including fixing over Wall tile dado / door shutter using suitable size non-corrosive screw nails etc. complete.(Make: Parryware or equivalent)	17.00	Each				
	PART - B SOIL, WASTE AND VENT PIPE LINES						
102	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.						
a	40mm dia. 6kg class PVC pipes.	28.00	Rmt				
b	50mm dia. 6kg class PVC pipes.	42.00	Rmt				
c	75mm dia. 6kg class pipes.	114.00	Rmt				
d	110mm dia. 6kg class pipes.	60.00	Rmt				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
103	Supplying and fixing in position PVC nahini /Floor Trap with PVC Grating type of size 100x75/75x50 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)wherever found necessary and making good to the original condition and giving connections to the PVC pipes etc.,	44.00	Each				
104	Supply and fixing in position best quality PVC IS 4985 - CLASS-II - 4 Kg/Sqcm -Rain water pipes of various size having ISI mark and providing leak proof joints with such as Bend, Tee Junction, door etc.,of approved qualityincluding fixing 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.	6.00	Rmt				
b	110mm dia. 4kg class pipes.	62.00	Rmt				
105	Supplying and fixing in position of the following dia PVC rain water gratings 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.,						
a	75mm	1.00	Nos				
b	100mm x 75mm	2.00	Nos				
106	Supplying and fixing in position of the following dia PVC specials such as PVC vent Cowl 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.,						
a	75mm dia	6.00	Nos				
b	110mm dia	5.00	Nos				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
	PART-C - EXTERNAL DRAINAGE						
107	Supply and fixing in position best quality PVC IS 4985 - CLASS- III - 6 Kg/Sqcm -Soil/ waste pipes of various size with approved quality and variety of various size confirming having ISI mark and providing leak proof joints including erection of below ground with excavation and refilling 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	75mm dia. 6kg class III-pipes.	24.00	Rmt				
b	110mm dia. 6kg class III-pipes.	8.60	Rmt				
c	160mm dia. 6kg class III-pipes.	147.00	Rmt				
108	Supply, laying and erection of glazed stone ware gully trap (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.	10.00	Each				
109	Supplying and Erection and construction of sewer chambers of required internal dimensions 450x450 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 above 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 450x450mm (clear opening)complete complying with standard specifications etc.,	13.00	Each				



SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
110	Construction of rain water recharge 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.	2.00	Each				
D. WATER SUPPLY SYSTEM							
111	Internal Concealed Works						
	Providing, supplying & laying of Unplasterized Poly Vinyl Chloride (UPVC-SDR-11 Pipes conforming to IS 15778 having thermal stability cold water with brass and UPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step UPVC 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)						
a	20 mm nominal (OD) pipes	190.00	Rmt				
b	32 mm nominal (OD) pipes	191.00	Rmt				
E.EXPOSED PLUMBING WORKS							
112	Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (UPVC-SDR-13.5) Pipes conforming to IS 15778 having thermal stability cold water with brass and UPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step UPVC 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, Exposed work including chase cutting, bracket fixing)						



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
a	32mm nominal(OD) pipes	58.00	M				
F. EXTERNAL PLUMBING WORKS							
113	Providing, supplying & laying of Chlorinated Poly Vinyl Chloride (UPVC) Pipes conforming to IS 15778 having thermal stability cold Metro water with brass and UPVC fittings like Elbow, Brass Tee, Brass Elbow, Offsets, Tee with clamps @1.00 meters spacing, with jointing of pipes with one step UPVC 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)						
a	40mm UPVC pipes	355.00	Rmt				
114	Providing, supplying & laying of Gunmetal 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 all complete as per as per specifications,						
a	32 DIA	2.00	Each				
b	40 DIA	4.00	Each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
115	Supply and delivery of clear water vertical wet type single phase 2.00 H.P submersible pump 2.00 H.P suitable for 100mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS9283 /1995 and as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 % etc...(The make and quality of pump set to be got approved by the Executive Engineer before use on works.)	1.00	Each				
116	Supplying and erection of horizontal shaft centrifugal mono block power pump set of single phase 2.00 H.P of best approved quality and make with ISI mark on suitable pedestal with foundation bolt and nut including labour supplying and fixing of starter and main switch suitable for 2.00 H.P pumpset on suitable angle iron frame work with necessary labour including panel board, supply and run off 4 of 10 Sq.mm, in P V C pipe with 14 SWG TC wire including fixing of suction pipe and foot valve up to a maximum depth of 7m and delivery pipes upto the exterior wall of pump room etc., complete and operating the pumps on trial run for 3 days. (The make and quality of pump set to be got approved by the Executive Engineer before use on works.) (TWAD- Pa no:103 Sl.no:45)200mx60m	1.00	Each				
117	Drilling of bore wells in alluvial soil or sedimentary strata of clay and sand or sand stone, shale, pebbles, boulders etc., by first taking a pilot bore of 150 mm dia and then enlarging to the required dia by direct or reverse rotary mud circulation method including charges for all T&P, cost of fuel, labour charges, bentonite mud and water required for drilling at the site shown by the departmental officers including construction of mud pit etc., complete.						
a	Upto180 m Depth ending below ground level	180.00	Rmt				
118	Reaming 150mm dia Pilot bore to 300mm dia bore as directed by the departmental officers upto required depth						



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
a	Upto180 m Depth ending below ground level	180.00	Rmt				
119	Supplying, and fixing the following size of PVC pipes of approved quality and variety conforming to pressure IS 4985. The rate is inclusive of cost of pipe, all taxes, conveyance charges of materials and all other labour charges for fixing the PVC pipe as directed by the departmental officers etc., complete complying with standard specifications. The PVC pipe should be got approved by the departmental officers before use on work and Labour Charges for insering PVC casing pipe assembly (with slots and without slots) in the drilled holes including jointing the pipes with PVC couplers with PVC adhesive etc., complete and supplying and packing annular space with pebbles of size and quality as approved by the Departmental Officers.						
	150mm dia PVC Casing Pipe (With or without Slot)						
a	In Bore Well	90.00	Rmt				
120	Charges for developing Borewell with air compressor of 600 CFM capacity (Min 8 Hours) including transportation and labour and fuel charges for the compressor as directed by the departmental officers and conducting yeild test by 'V' notch methods, excluding cost of bore charges and conveyance charges for handling boring						
a	For Borewell	8.00	Hrs				
121	Suppling and fixing PVC bore well end cap of size 165/168mm dia etc., complete complying with standard specifications as directed by departmental officers						
a	End cap	5.00	Nos				
122	Supply of 4.00 Sq.mm / PVC insulated and sheathed, 3 core flat type copper cable for submersible motor complete complying with standard specifications as directed by departmental officers						
a	In bore well	120.00	Nos				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
123	Supply and fixing the Nylon Rope to connect the submersible motor in borewell etc., complete complying with standard specifications as directed by departmental officers						
a	In bore well	90.00	Nos				
	SUB TOTAL (B)						
C	ELECTRCAL BOQ						
A	Main Panel boards (LT Electrical Installation Works)						
124	Supply and fixng of TNEB Meter Board suitable for 3 Phases100A 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 12 mm thickness with necessary bolts and nuts support and supply and fixing of 3 nos 100Amps Fuse unit (500V) 1 no.Netural link copper earth flat size 1" x 1/4" with inter connections of EB meter to Fuse unit by 7/16 Pvc insulated copper With earth connections complete.	1.00	each				
125	Supply and fixing of 100 Amps TPN sheet double break switch with HRC fuse and neutral on suitable angle iron frame work with MS Cable Entry Boxes and with earth Connectios only	1.00	each				
126	Fabrication, Supply, Erection, Testing and Commissioning of CPRI certified Indoor panel board made up of 2mm thickness powder coated CRCA sheet steel with cu bus bar provision (Ph-10x10mm for all phases Ne-10x10mm & E-2X10x3mm) with heat shrinkable insulation and SMC supports, door with industrial lock, Incomer100A TPN MCCB-1Nos.Out going:10 nos. of 63AmpsTPN MCCB ,1set Metering Compartment consisting of 1no Digital multifunctional meter Accuracy class 1.0 with 3nos of CTs100/ 5 amps ratio and RYB cluster type indication lamps with control fuses with provision for locking the indoor panel board complete etc., as per IS standard .The above panel board is to be erected with anchor fastners, bolt and nuts with suitable angles and channels of size 75 x 40mm (Drawing to be approved by the Engineer-in-charge before fabrication.)	1.00	each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
B	LT ,1100V GRADE PVC / XLPE ARMoured UNDERGROUND CABLE						
127	Supply and Laying of 4 x 6 sq.mm. PVC armoured LTUG cable in suitable size HDPE pipe in a trench to be excavated at a depth of 0.75 metre and refilling the earth to make good	350.00	mtr				
128	Supply and Laying of 3 1/2 x 50 sq.mm. PVC armoured LTUG cable in suitable size HDPE pipe in a trench to be excavated at a depth of 0.75 metre and refilling the earth to make good.	50.00	mtr				
	CABLE GLANDS						
129	Supply and fixing of brass cable gland for 4 X 6 Sqmm PVC armoured LT UG cable with earth connection.	20.00	Each				
130	Supply and fixing of brass cable gland for 3 1/2 X 50 Sqmm PVC armoured LT UG cable with earth connection.	2.00	Each				
	CABLE END TERMINATION						
131	Supply and providing cable end termination of 4 X 6 Sqmm PVC LTUG Aluminium armoured cable with necessary Aluminium cable sockets by crimping etc, with electrical connection complete.	20.00	Each				
132	Supply and providing cable end termination of 3 1/2 X 50 Sqmm PVC LTUG Aluminium armoured cable with necessary Aluminium cable sockets by crimping etc, with electrical connection complete.	2.00	Each				
C	EARTHING						
133	Earthing as per the ISI specification with an earth electrode of 2.1 mtr 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	2.00	Each				
134	Plate earthing with copper plate of size 600 x 600 x 3 mm as per the ISI specification with an earth electrode of 2.1 mtr 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.	4.00	Each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
135	Supply and run of 2 of No.8 SWG G.I wire for guarding with grade with No.8 SWG G.I wire at the equal interval of 1.5 Metre.	65.00	mtr				
136	Supply and run of 25mm x 3mm tinned copper flat with necessary clamps / Supports on wall / floor / ground for earth connection.	50.00	mtr				
D	DISTRIBUTION BOARD						
137	Supply and fixing of 4 way Horizontal Triple pole and neutral MCB sheet steel enclosure distribution board with double door (metal) with 1 no. 32A 4P MCB as incoming and 12 nos. 6A to 32A SP MCB as outgoing in flush with wall with earth connection only. Higher End) FOR COMMON LOAD	1.00	Each				
138	Supply and fixing of 12 way Horizontal Triple pole and neutral MCB sheet steel enclosure distribution board with double door (metal) with 1 no. 63A 4P MCB Isolator as incoming and 36 nos. 6A to 32A SP MCB as outgoing in flush with wall with earth connection only. Higher End FOR FLOOR DB (LDB CUM PDB)	2.00	each				
139	Supply and fixing of 4 way Vertical Triple pole and neutral MCB sheet steel enclosure distribution board with double door (metal) with 1 no. 63A 4P MCB switch as incoming and 2 nos 40A TP MCB, 6 nos. 6A to 32A SP MCB as outgoing in flush with wall with earth connection only. Higher End(LIFT CONTROL & UPS CONTROL)	2.00	each				
140	Supply and fixing of 12 way single pole and neutral MCB sheet steel enclosure distribution board with double door (metal) with 1 no. 32A DP MCB switch as incoming and 10 nos. 6A to 32A SP MCB as outgoing on wall with earth connection only. FOR UPS DB	2.00	each				
E	MAINS WIRING						
141	Supply and Run of 2 of 1.5 sq.mm. (36/0.3) PVC insulated SC unsheathed copper conductor of 1100 V grade in suitable PVC rigid pipe Concealed in wall and ceiling with continuous earth wire connection by 1.5 sq.mm. PVC insulated SC unsheathed copper wire and making good of the concealed portion with suitable colour.	400.00	mtr				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
142	Supply and Run of 2 of 2.5 sq.mm. (36/0.3) PVC insulated SC unsheathed copper conductor of 1100 V grade in suitable PVC rigid pipe Concealed in wall and ceiling with continuous earth wire connection by 2.5 sq.mm. PVC insulated SC unsheathed copper wire and making good of the concealed portion with suitable colour.	1350.00	mtr				
143	Supply and Run of 3 of 4 sq.mm. PVC insulated SC unsheathed FRLS copper conductor of 1100 V grade in suitablePVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 4 sq.mm copper wire and making good of the concealed position.	1050.00	mtr				
144	Supply and Run of 3 of 6 sq.mm. PVC insulated SC unsheathed FRLS copper conductor of 1100 V grade in suitablePVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 6 sq.mm copper wire and making good of the concealed position.	60.00	mtr				
145	Supply and Run of 6 of 4 sq.mm. PVC insulated SC unsheathed FRLS copper conductor of 1100 V grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 4 sq.mm copper wire and making good of the concealed position.	60.00	mtr				
146	Supply and Run of 4 of 10 sq.mm. PVC insulated SC unsheathed FRLS copper conductor of 1100 V grade in suitable PVC rigid pipe concealed in wall and ceiling with continuous earth wire connection of 10 sq.mm copper wire and making good of the concealed position.	35.00	mtr				
F	LAN/TELEPHONE/TV/CCTV/SPEAKER CABLE						
147	Supply,laying testing and commissioning of of CATE -6 pair PVC insulated with rigid PVC conduit Pipe open / concealed type and with all necessaries.	2940.00	mtr				
	EMTY PVC CONDUIT						
	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.						
148	25mmdia	200.00	mtr				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
G	POINTS WIRING						
149	Wiring with 2 x1.5 sq.mm. PVC insulated single core unsheathed FRLS copper conductor of 1100 V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with Module GI switch box in flush wall with 6A one way module switch with module front plate with continuous earth wire connection of 1.5 sq.mm copper wire with painting of Suitable colour for Open PVC Light point / fan point (for electronic regulator) (6 points / Coil) Higher End	226.00	point				
150	Wiring with 3 x1.5 sq.mm. PVC insulated single core unsheathed FRLS copper conductor of 1100 V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with Module GI switch box on wall with 6A two way module switch with module front plate with continuous earth wire connection of 1.5 sq.mm copper wire with painting of Suitable colour for Open PVC Stair case Light point Higher End	13.00	point				
151	Wiring, Connecting, Testing & Commissioning with 3 X 1.5sqmm PVC insulated single core unsheathed copper conductor cable of 1100 V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories, including supply and fixing of modular 2 Nos of 6A Two way switch, one step type fan regulator along with moulded front plate in G.I anodised manufacturer's mounting box fixed flush with the wall complete with all accessories as required for Fan Points.(Length of the points will be 5 to 8 mts.) TWO WOAY FAN POINT	2.00	point				
152	Wiring with 2 x1.5 sq.mm. PVC insulated single core unsheathed FRLS copper conductor of 1100 V grade in suitable PVC Rigid pipe on wall and ceiling with PVC accessories with suitable Module GI switch box on wall with 1 no. 6A one way module switch and 1 no. 6A 3/2 pin module socket with module front plate with painting of Suitable colour with continuous earth wire connection of 1.5 sq.mm copper wire for Open PVC conduit Plug point	60.00	point				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
153	Lift Shaft Wiring : Wiring, Connecting, Testing & Commissioning for lift well light point and 6Amps power socket outlet for all 2 floors with 2 x 1.5 sqmm FRLS PVC insulated stranded copper conductor of 1100V grade along with 1 x 1.5 sqmm FRLS PVC insulated standed copper conductor cable as earth wire in MS conduit including providing and fixing switch box, 2 Nos. of 5A single way flush type switch (for controlling light point and socket Outlet) for each floor of the lift well , 1 No. 5A 5 Pin shuttered socket outlet with flush type switch for each floor of the lift well and making necessary connections complete etc	1.00	point				
H	SOCKETS						
154	Supply and fixing of 1 no.6/16A two module socket , 1 no. 16A one module switch with module cover plate (plastic) on suitable module concealed Box (GI) in flush with wall with connections. Higher End.	110.00	each				
155	Supply and fixing of 4nos.6/16A two module socket , 4 nos. 16A one module switch with module cover plate (plastic) on suitable module concealed Box (GI) in flush with wall with connections. Higher End	45.00	each				
156	Supply and fixing of 1no.6A two module socket , 1 no. 6/16A two module socket, 1 no. 6A one module switch, 1 no.16A one module switch with module cover plate (plastic) on suitable module concealed Box (GI) in flush with wall with connections. Higher End	15.00	each				
157	Supply and fixing of 20A 3 pin and 2 pin combined flush type wall socket with 25A swich FOR gyser UNIT in switch along with moulded front plate in G.I anodised manufaturer's mounting box fixed flush with the wall complete with all accessories as required as per the site condition.	3.00	each				
158	Supply and fixing of 20A DP Switch With indicator(2M) 20Amps 3 Pin Socket With Shutter Type , combined flush type wall socket FOR Split AC unit UNIT in switch along with moulded front plate in G.I anodised manufaturer's mounting box fixed flush with the wall complete with all accessories as required as per the site condition.	11.00	each				
159	Supply and fixing of modular type RJ-11 telephone Socket & RJ 45 Data socket housed in GI box to be concealed on wall	10.00	each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
160	Supply and fixing of modular type RJ-11 telephone Socket housed in GI box to be concealed on wall	4.00	each				
161	Supply and fixing of modular type RJ-45 Data socket housed in GI box to be concealed on wall	12.00	each				
	LAN NETWORK SWITCHES - HIGHER END/Un-Managed 10 / 100 / 1000						
162	Supply and fixing of 9U Rack With necessary Works Required as etc	2.00	each				
163	Supply and fixing of 24 Port Patch Panel – Unloaded With necessary Works Required as etc	2.00	each				
164	Supply and fixing of lan network switches - 24 Port With necessary Works Required as etc	1.00	each				
165	Supply and fixing of 1 mtr Patch Cord With necessary Works Required as etc	12.00	each				
166	Supply and fixing of 2 mtr Patch Cord With necessary Works Required as etc	12.00	each				
I	FITTINGS						
167	Supply and fixing of 24W LED 2x2 square type Recessed/Surface fitting with LED (Higher end) on false Ceiling with suitable hanging support from ceiling with PVC unsheathed copper leads from terminals to the fitting.	27.00	each				
168	Supply and fixing of 4Feet LED 20W Fitting with LED 20Wtube (HigherEnd) complete with TW round blocks on wall or ceiling with PVC unsheathed FRLS Copper leads from terminals to the fitting	93.00	each				
169	Supply and fixing of fancy glass shade and 11W CFL for BH point	52.00	each				
170	Supply & Fixing of LED mirror light - 11 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 polycarbonate milky diffuser (ELMR09) @ Mirror	15.00	each				
171	Supply and Fixing of WT bulk Head Fitting With Guard with suitable for 9W CFL / LED lamp and giving connection	21.00	each				

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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
172	supply and fixing of 30W LED street light fitting with LED (Higher end) with 25 mm dia. GI pipe (class B) with 1 no. 25 mm GI bend complete on the existing post/ on wall with PVC unsheathed copper leads with MS clamps and with painting	8.00	each				
173	supply and fixing of 65 mm dia. (2 -1/2") GI pipe (class B) of 6 metre length with 300mm x 300mm x 6mm MS base plate duly welded at the bottom with concreting with construction of masonry pedestal with suitable SMC box with door arrangement to house 6A SP MCB switch, 2/4 way connector on suitable hylem sheet and supply and fixing of 60W LED street light fitting with LED (Lower end) with 1 metre 32mm dia. GI pipe (class B) Complete with suitable MS clamps for LED steet light fitting and SMC box with PVC unsheathed copper leads from SMC box to fitting and with painting of suitable colour .	11.00	each				
174	Supply and fixing of 1200 mm (48") AC ceiling fan complete with out regulator and 1000mm down rod on the including fan clamp with side plates and cross arm of size 450mm (18")	46.00	each				
175	Supply and fixing of 1400 mm (52") AC ceiling fan complete with stepped electronic 300 W regulator and 300mm down rod on the exising clamp .	4.00	each				
176	Supply and fixing of 400mm Sweep Wall Mounted Fan Circulator complete and including fan clamp with Necessary required Job etc...	6.00	each				
177	Supply and fixing of 300mm (12") sweep (Light duty) AC Exhaust fan complete without provision of hole in the wall.	17.00	each				

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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
J	CCTV						
178	IP based IR Dome Indoor Camera: SITC of IP Dome camera with 1/2.7" 2MP Progressive Scan CMOS, at 1920 x 1080 Resolution, 25 FPS, Triple streaming, min one H.264 stream & one H.264/MPEG 4 stream compression support, 2.8/4/6 mm Fixed lens, Color image at 0.01 lux, Tamper detection with built in True WDR of 120DB, BLC/HLC, True Day&Night with ICR, Auto Gain Control, 3D Noise Reduction, ONVIF profile S & G Support, Inbuilt Alarm mode for Network loss, Motion Detection. Required wall / ceiling mounting accessories as specified in the Tender Specifications . The camera shall be capable of operating on POE/12VDC/24VAC . The camera shall be certified with CE, FCC, UL and ROHS certifications. Camera shall be supplied along with Suitable adaptor with 3 meter cable and suitable mounting support/back box.	5.00	each				
179	IP based 30 m Bullet/Dome Camera:SITC of IP Dome camera with Progressive Scan CMOS, at 1920 x 1080 Resolution, 25 FPS, Triple streaming, min one H.264 stream & one H.264/MPEG 4 stream compression support, 2.8/4/6 mm Fixed lens, Color image at 0.01 lux, Tamper detection with built in True WDR of 120DB, BLC/HLC, True Day&Night with ICR, Auto Gain Control, 3D Noise Reduction, ONVIF profile S & G Support, Inbuilt Alarm mode for Network loss, Motion Detection. Required wall / ceiling mounting accessories as specified in the Tender Specifications . The camera shall be capable of operating on POE/12VDC/24VAC . The camera shall be certified with CE, FCC, UL and ROHS certifications. Camera shall be supplied along with Suitable adaptor with 3 meter cable and suitable mounting support/back box.	8.00	each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
180	SITC OF RACKS for CCTV Equipments as per following specification,Conforms to DIN 41494 Or Equivalent EIA/ISO/EN/CEA StandardFinish - Powder coated finish with Seven tank pretreatment process meeting ASTM standard Color - Black/off white/grey Fan module Mount Provision on top Cover Welded frame with vented top cover with fan mounting provision, Associated Front Glass or perforated Metal Door with lock & Key and Back vented / Perforated metal door with lock & key and partially vented side panels, free standing on floor with 4 No. casters wheels with 2 no with brakes & 2 No. without brakes, cable oraginesers, Levelers with required 16A/5A power strips including accessories. Number of racks shall be as per the design requirement for switches locations and main cctv equipments. vendor to consider required number of racks as per their requirement	1.00	each				
181	24port 10/100/1000 layer 2 , POE switches with IP multicast snooping and data-driven IGMP support and with minimum two 1000baseT RJ45 uplink ports and two 1000 baseT Fiber uplink ports,patch cords, patch panel and enclosure/rack for switch with mounting supports and all accessories.	1.00	each				
182	SITC of Network Video Recorder:Supply , Installation , Testing and commissioning of 32 Channel NVR (Network Video Recorder), Up to 8-ch IP cameras can be connected, Incoming Bandwidth 320 Mbps, , 4 SATA Hard Disks with interfaces, ANR Technology, H.265/H.264/MPEG4 video compression, 3 x USB at least 1 x USB with 3.0, upport H.265, MJPEG,Supports RAID0, RAID1, RAID5, RAID6 and RAID10 ,Supports HDD hot swap, Supports Dual Power-Redundant, Alarm I/O 16/4, RS-485, RS-232, 2 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface, Multiple network monitoring: Web viewer, CE, FCC, UL certified, including fixing accessories and cable termination with required connectors/Jack, complete in all respect as per instruction of engineer in-charge. Storage to be considered upto 12TTB, 15FPS, 30days Storage and 70% motion based recording . HDD Calculation to be submitted & should be approved by consultant. Rate shall be inclusive of required surveillence hard disk (make: Seagate, Western digital)	1.00	each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
185	Supply and fixing of Water CO2 Stored Pressure Type 9 litres capacity Fire Extinguisher as per new IS 15683 complete with control valve, gun metal cap, pressure gauge, operation sticker, discharge hose, wall mounting bracket, safety clip, etc., as directed by the Departmental -Officers.	2.00	each				
186	Supply, erection, testing and commissioning of fire fighting application monoblock motor pumpset of 450 LPM at 20 metres head to develop 2.0 kg/sq.cm at the heightest and farthest hydrant point to make 10m water jet at the time of fire fighting emergency circumstances, coupled with 3.75KW / 5HP rated three phase 415 volts,50 Hz, 2880 rpm electrical motor, the pump with cast ron body, bronze impeller, rope gland packaging, suction size of 80 mm dia. delivery size of 65 mm dia, including the cost of foundaton concrete anti vibration mounting, rain safety hood and etc. complete as directed by the Departmental Officers	2.00	each				
187	Supply, erection, testing and commissioning of Fire Fighting Application direct on line main control panel to control electrical Terrace Pump Motor of 3.75 KW / 5 HP rated 415 volts / 50 Hz 3 phase, 2880 RPM including necessary auto / manual operations, over load relay, selector switches arrangements, voltmeter and ammeter provision, etc., as directed by the Departmental Officers.	2.00	each				
188	Supply, erection, testing and commissioning of Fire Fighting 2 Way Fire Brigade Inlet with necessary gun metal 63mm dia non-return spring shutter arrangements so that to control one way flow at the time of emergency water supply by fire and rescue service fire engine entry including conveyance, all incidental charges, neccessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary., etc., complete as per standard specification and as directed by the Departmental Officers.	1.00	each				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
189	Supply, installation of Fire Fighting Application 180 degree swinging type, hose reel drum with 20mm dia braided thermoplastic hose of 30 metres long, so as to extend to necessary distance by self rolling spindle wheel including necessary 20mm dia ball valve and open and close spray nozzle, warm clip, etc., as per the standard pattern of any reputed make at every floor nearer to hydrant valve, including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary., etc.,complete as per standard specification and as directed by the Departmental Officers.	3.00	each				
190	Supply, erection, testing and commissioning of Cast iron body and Gun metal or stainless steel internal Non-return valve of following sizes to control one way flow of water to be installed pump room at delivery line and near overhead tank at terrace level near to jockey pump and motor including necessary MS flange of table 'E', gaskets, bolts & nuts, etc. as per IS 5312 including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers.						
	100mm dia	16.00	each				
191	Supply, erection, testing and commissioning of following MS 'C' Class Heavy Duty Pipe as per IS 1239 to withstand a developing pressure of 10 kg. / sq.cm including necessary fittings like MS flange of table 'E', elbows, reducers, gaskets, bolt, nuts with washers & joints as per standard method of arc welding, including one coat metal primer and two coat Post Office Red painting including conveyance, all incidental charges, necessary scaffolding and re-doing the dismantled portions to its original condition wherever found necessary, etc., complete as per standard specification and as directed by the Departmental Officers.						
	100mm dia	40.00	RM				



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SI.NO	DESCRIPTION OF WORK	QTY	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
192	Supply and laying of 4 core 10 sq.mm. armoured copper cable for power wiring to the Terrace Pump Motor with runs of 14 SWG TC wire for earthing, providing in wall with suitable size GI clamps, screws, wooden plug, end termination by using suitable size cable glands, copper sockets and etc., as directed by the Departmental Officers	50.00	RM				
193	Supply and laying of 2 core 1.5 sq.mm. armoured copper cable for control wiring to the Terrace Pump Motor with runs of 14 SWG TC wire for earthing, providing in wall with suitable size GI clamps, screws, wooden plug, end termination by using suitable size cable glands, copper sockets and etc., as directed by the Departmental Officers.	50.00	RM				
194	Earthing arrangements with GI Earth Plate including charcoal and salt with necessary excavation in all soils and to full depth as may be required and masonry work, re-filling the sides of foundation with excavated earth as per the standard specification and as directed by the Departmental Officers.	2.00	Each				
	SUB TOTAL(E)						
A	CIVIL WORKS						
B	PLUMBING AND SANITARY WORKS						
C	ELECTRICAL WORKS						
D	LIFT WORKS						
E	FIRE PROTECTION WORKS						
	ADD GST.....%	18.00					
	GRAND TOTAL INCLUDING GST						

