

TENDER DOCUMENT
(Financial Bid)

**RENOVATION WORKS FOR DRINKING WATER FACILITY &
TOILET BLOCKS**

AT

DAULAT RAM COLLEGE

**4, PATEL MARG, MAURICE NAGAR,
UNIVERSITY OF DELHI,
DELHI-110007**



PART-B
(FINANCIAL BID)

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ABSTRACT OF COST

RENOVATION WORKS FOR DRINKING WATER FACILITY AND TOILET BLOCKS

<u>S. No.</u>	<u>SECTION 1 : ITEM OF CIVIL WORK</u>	<u>AMOUNT</u>
1.00	Dismantling & Demolishing	Rs. /-
2.00	Earth Work	Rs. /-
3.00	Concrete Work	Rs. /-
4.00	R.C.C. Work	Rs. /-
5.00	Brick Work	Rs. /-
6.00	Marble Work	Rs. /-
7.00	Steel Work	Rs. /-
8.00	Wood Work	Rs. /-
9.00	Flooring	Rs. /-
10.00	Finishing	Rs. /-
11.00	Water Proofing Work	Rs. /-
12.00	Aluminium work	Rs. /-
13.00	Glass bricks	Rs. /-
Total		Rs. /-

<u>S. No.</u>	<u>SECTION 2: ITEM OF PLUMBING WORK</u>	<u>AMOUNT</u>
1.00	Sanitary fixture & fittings	Rs. /-
2.00	Soil, waste , vent water pipes	Rs. /-
3.00	Internal & external water supply	Rs. /-
4.00	Sewage and Drainage System	Rs. /-
Total		Rs. /-

S. No.			SECTION 3: ITEM OF DRINKING WATER EQUIPMENT		AMOUNT	
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1.00	Drinking Water Equipment	Rs.		/-
Total		Rs.		/-

S. No.			SECTION 4: ITEM OF ELECTRICAL WORK		AMOUNT	
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1.00	Fixture	Rs.	/-
2.00	Erection of tube light fixture	Rs.	/-
3.00	Wiring	Rs.	/-
4.00	Circuit and sub main wiring	Rs.	/-
5.00	Cable & termination	Rs.	/-
6.00	Earthing	Rs.	/-
7.00	Distribution board	Rs.	/-
TOTAL OF SECTION 4		Rs.	/-

GRAND TOTAL OF SECTION 1, 2, 3 & 4						
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SCHEDULE OF QUANTITIES						
RENOVATION WORKS FOR DRINKING WATER FACILITY AND TOILET BLOCKS AT DAULAT RAM COLLEGE						
SECTION-1 : CIVIL WORK						
Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	
1.0	DISMANTLING & DEMOLISHING					
1.01	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	25.00	Cum			/-
1.02	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge	15.00	Cum			/-
1.03	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer - in - charge.	85.00	Sqm			/-
	Dismantling old plaster with tiles or without tiles or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meters lead.					
	In cement mortar	28.00	Sqm			
1.04	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge					
	In cement mortar	50.00	Cum			/-
1.05	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
	Of area 3 sq. metres and below	40.00	Nos.			/-
1.06	Disposal of malba by mechanical transport including loading and unloading stacking etc. complete as per direction of Engineer in Charge to authorized M.C.D. dumping ground including carriage of material by mechanical transport including loading and unloading and stacking.					
	Building rubbish (Upto a lead of 20 Km)	21.00	Cum			

1.07	Dismantling Urinal complete with all accessories including C.P. fittings flushing cistern complete with all accessories and C.P. fittings (Price to be paid per urinal), wash basin complete with all accessories including taps, bibcocks etc, W.C., complete with all accessories including C.P. fittings and separate bibcock including flushing cistern complete with all accessories and C.P. fittings of any size including stacking of useful materials near site and disposal of unserviceable materials within 50 meters lead.	8.00	Each			
1.08	Removal of sunken slab debris below top concrete layer and stacking within 50 meters lead.	30.00	Cum			
	Total of Dismantling & Demolishing			Rs.		/-
2.0	EARTH WORK					
2.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed.					
	a) All kinds of soil	55.00	Cum			/-
2.02	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
	All kinds of soil.	20.00	Cum			/-
2.03	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	32.00	Cum			/-
2.04	Disposal of surplus earth by mechanical transport including loading, unloading for a lead upto 3.00 Km.	16.00	Cum			/-
2.05	Carriage of earth by manual means including loading, unloading and stacking	33.00	Cum			/-
2.06	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					
	All kinds of soil.	14.00	Cum			/-
2.07	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete	10.00	Cum			

2.08	Supplying chemical emulsion in sealed containers including delivery as specified.					
	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	5.00	Litre			/-
2.09	Diluting and injecting chemical emulsion for pre-constructional anti termite treatment and creating a continuous chemical barrier under and around the column pits, wall, trenches, basement excavation, top surface of plinth filling, junction of wall and floor ,along external perimeter of building , expansion joints , over the top surface of consolidated earth on which apron is to be laid surroundings of pipes and conduits etc. complete as per specifications (plinth area of building at ground floor only shall be measured for payment.) With Chlorpyrifos/Lindane E.C. 20% with 1% concentration.	50.00	Sqm			/-
Total Earth Work :				Rs.		/-
3.00	CONCRETE WORK					
3.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	45.00	Cum			/-
3.02	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed block, anchor blocks, plain window sills, fillets etc. upto floor five level, excluding the cost of centering, shuttering and finishing :					
	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	14.00	Cum			/-
3.03	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	100.00	Sqm			/-
3.04	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	30.00	per 50kg cement			/-
3.05	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	230.00	Sqm			/-

3.06	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth	6.00	Sqm			/-
Total Cement Concrete work :				Rs.		/-
4.00	R.C.C. WORK					
4.01	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.					
4.01.1	All works upto Plinth level	9.00	Cum			/-
4.01.2	All works above plinth level upto floor V level	30.00	Cum			/-
4.02	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
	Thermo-Mechanically Treated bars	1240.00	Kg			/-
4.03	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete. Above plinth level.					
	Thermo-Mechanically Treated bars	4200.00	Kg			/-
4.04	Centering and shuttering including strutting, propping etc. and removal of form for :					
4.04.1	Foundation, footing, bases of columns etc. for mass concrete	65.00	Sqm			/-
4.04.2	Suspended floors, roofs, landings, balconies, and access platform	135.00	Sqm			/-
4.04.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers	16.00	Sqm			/-
4.04.4	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	14.00	Sqm			/-

4.05	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).					
	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	60.00	Sqm			
4.06	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections.	30.00	m			/-
4.07	Providing and laying in position Locally available stones of thickness 50 mm over T-iron(locally known as: Agra Red SandStone) on the first floor with necessary I-Sections/ joint as to complete satisfaction of the architect.	60.00	Sqm			
	Extra for providing richer mixes at all floor levels.					
4.08	Providing M-30 grade concrete instead of M-25 grade BMC / RMC. (Note:- Cement content considered in M-30 is @ 340 kg/ kg/cum)	10.00	Cum			/-
4.09	Providing M-35 grade concrete instead of M-25 grade BMC / RMC. (Note : Cement content considered in M-35 is @ 350 kg/ cum)	5.00	Cum			/-
Total R.C.C. Work :				Rs.		/-
5.00	BRICK WORK					
5.01	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
	a) Cement mortar 1:6 (1 cement : 6 coarse sand)	24.00	Cum			/-
5.02	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	14.00	Cum			/-
5.03	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
	cement mortar 1:4 (1 cement : 4 coarse sand)	10.00	Sqm			
5.04	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					
	a) Cement mortar 1:4 (1 cement : 4 coarse sand)	60.00	Sqm			/-
5.05	Extra for providing and placing in position 2 nos. 6mm dia MS bars at every third course of half brick masonry	60.00	Sqm			/-
Total Brick Work :				Rs.		/-

6.00	MARBLE WORK					
6.01	Providing and fixing 16-18mm thick gang saw cut mirror polished granite (Basic Rate Rs.3000/- per sq. meter) (premoulded and prepolished) machine cut for Pantry platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.					
	Granite of any color and shade					
6.01.1	Area of slab upto 0.50 sqm.	3.00	Sqm			/-
6.01.2	Area of slab over 0.50 sqm.	16.00	Sqm			/-
6.02	Extra for fixing marble /granite stone, (Basic Rate Rs.3500/- per sq. meter) over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete to the entire satisfaction of the Architect.	25.00	Meters			/-
6.03	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	24.00	each			
6.04	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions (Both side polishing) by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.					
	Granite stone of approved shade	10.00	Sqm			/-
6.05	Granite work gang saw cut (polished and machine cut) of thickness 18 mm (Basic Rate Rs.3500/- per sq. meter) for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).					
	Granite stone of approved shade	285.00	Sqm			

6.06	Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).					
	Stainless steel cramps	60.00	Kg			/-
6.07	Extra for providing antiskid grooves of size 6mm x 6mm (3nos.) on tread of riser as per detail drawing and directed by Engineer-In-charge.	10.00	Metre			/-
6.08	Extra for pre finished nosing to treads of steps of marble stone	10.00	Metre			/-
	Total Marble Work :			Rs.		/-
7.0	STEEL WORK					
7.0	Providing and fixing IISMB 250 x 125mm including fixing the ends in CC 1:1.5:3 bed blocks of 150 mm high over 6 mm MS plate .	850	Kg			
	Total Steel Work :			Rs.		/-
8.00	WOOD WORK					
8.01	Providing and fixing SS tower bolts ISI marked with necessary screws etc. complete:					
	250x10 mm	6.00	Each			/-
	150x10 mm	21.00	Each			/-
8.02	Providing and fixing Anodised Aluminium sliding bolts ISI marked with necessary screws etc. complete:					
	300x16 mm	6.00	Each			
8.03	Providing and fixing SS handle ISI marked with necessary screws etc. complete:					
	125 mm	27.00	Each			/-
8.04	Providing and fixing SS hanging floor door stopper with necessary screws etc. complete:					
	a) Twin rubber stopper	27.00	Each			/-
8.05	Providing and fixing stainless steel AISI 316 grade sign plates (120mmx120mmx1.5mm) of kich make					
	a) Female satin code-SBIFS	3.00	Each			/-
	b) Mal, satin Code- SB2MS	3.00	Each			/-
8.06	Providing and fixing stainless steel AISI 316 grade PU handles (For wooden and glass doors)of KICH make 22mm diax 350mm of code no. PH2214\$C of combined glossy and satin finish.	21.00	Each			/-



8.07	Providing and fixing lever handle with 2 package (for toilet main door) 1. tubler lever handle code no 21133506, 2. sash lock with 57mm backset, 20 mm forend, etc 61mm & 20 SS strike plate, 3. euro profile cylinder with one side thumb turn other side emergency release slot length 60 mm of stainless steel of hettich make.	27.00	Each			/-
8.08	Providing and fixing bright finished brass 100mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete: (Best make of approved quality)	6.00	Each			/-
8.09	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :					
	35 mm thick including ISI marked Stainless steel butt hinges with necessary screws.	27.00	Each			/-
8.10	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.	46.00	Sqm			/-
8.11	Providing wood work in frames of doors, windows, clerestory windows and other frames, with rought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length including cost of Melamine polish matt finish on exposed visible areas.					
	steam beech teak wood	1.10	Cum			
8.12	Extra for providing lipping with steam beech teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	140.00	R.M.			/-
8.13	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	48.00	Sqm			/-
8.14	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work /CC/ R.C.C. and making good etc. complete					
	50mm long	42.00	Nos.			/-





8.15	Supplying Fabricated & installing at site in DuPont Corian Solid Surface material of 12 mm thickness (Basic Cost Rs. 10000 per sq. meter) duly CNC chiseled & Inlayed and of approved shades with base of 19 mm thk. marine ply on slab casted over M.S. Angles and design as per attached drawing to be installed in the drinking water area upto complete satisfaction of the Architect.	6.00	Sqm			
Total Wood Work :				Rs.		/-
9.00	FLOORING					
9.01	Providing, fixing & laying of 16-18 mm Granite stone slab (Basic Rate Rs. 3500/- per sq. meter) flooring over 20 mm (average) thick base laid over and jointed with joints treated with white cement, mixed with matching pigment, epoxy touch ups with base of cement mortar 1:4 (1 cement : 4 coarse sand) : Note: All joints to be in one line.					
	a) 16-18 mm thick (minimum 600 mm by 900 mm) derived from 2400 mm x 1200 mm slab . The individual toilets have to have minimum joints	135.00	Sqm			/-
9.02	Providing, fixing & laying of Military Green Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and mirror/granite polishing complete with base of cement mortar 1:4 (1 cement : 4 coarse sand) :					
	a) 25 mm thick	60.00	Sqm			/-
Total Flooring Work :				Rs.		/-
10.00	FINISHING					
10.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 coarse sand)	750.00	Sqm			/-
10.02	6 mm cement plaster of mix: 1:3 (1 cement : 3 fine sand)	160.00	Sqm			/-
10.03	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)	36.00	Sqm			/-
10.04	Finishing walls with textured exterior paint of required shade					
	New work/Old work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm	80.00	Sqm			/-
10.05	Providing and applying plaster of paris putty of 2 mm - 6mm thickness over plastered surface to prepare the surface even and smooth complete.	475.00	Sqm			/-




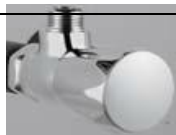

10.06	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					
10.07	Two coats Old/new	535.00	Sqm			/-
10.08	White washing with lime to give an even shade					
	New /old work (three or more coats)	20.00	Sqm			/-
10.09	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof	10.00	Sqm			/-
Total Finishing Work :						/-
11.00	WATER PROOFING					
11.01	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C kitchen and the like consisting of :					
	(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 of junction of vertical and horizontal surface.					
	(ii) IInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding of junction of vertical and horizontal surface.					
	(iii) IIIrd course of applying blown or/residual bitumen applied hot at 1.7 kg per sqm of area.					
	(iv) IVth course of 400 micron thick PVC sheet (Overlaps at joints of PVC sheet should be 100mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	100.00	Sqm			/-
11.02	Providing and filling light weight (Density 500 kg / Sqm) Foam concrete in sunken areas of toilet and WC as directed by the Architect	27.00	Cum			/-
11.03	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following operation:					
	a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound conforming to IS 2645 over the RCC slab including cleaning the surface before treatment.					

	b) Laying cement concrete using broken bricks / brick bats 25mm to 100 mm size with 50% cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.					
	c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645.					
	d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300x300 mm square.					
	e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operation to be done in order and as directed and specified by Engineer-in-charge.					
	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	40.00	Sqm			/-
	Total Water Proofing work :			Rs.		/-
12.00	ALUMINIUM WORKS					
12.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
	For fixed portion					
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	100.00	Kgs			/-

12.02	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
	With float glass panes of 5.50 mm thickness	7.50	Sqm			/-
12.03	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.					
	Upto 5mm depth and 5mm width	36.00	Meters			/-
12.04	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.					
	Anodized (AC 15) aluminium	72.00	Nos.			/-
	Total of Aluminium works			Rs.		/-
13.00	GLASS BRICKS					
	P/F clear, special shape, smooth and wavy transparent and satin finished glass blocks of sizes 20 X 20 X 8 cm and 24 X 11.5 X 8 cm of Fidenza Vetroarredo, Italy or Equivalent in ventilator, each glass block to be separated by cement mortar (1:cement, 6:coarse sand) (including cost of shuttering and reinforcement 6mm.)	32	Sqm			
	Total for Glass bricks			Rs.		
	TOTAL FOR SECTION 1 :			Rs.		/-
	SECTION 2 : PLUMBING WORK					
1.00	SUB HEAD-1 SANITARY FIXTURE & FITTINGS					
1.01	Providing and fixing stainless steel ISI 304 (18/8) kitchen sink as per I.S.13983 with C.I. Brackets, stainless steel plug 40mm including painting of fittings and brackets cutting and making good the walls wherever required.					
	Kitchen sink without drain board					
	610x510 mm bowl depth 200 mm	6	Each			
1.02	Providing & fixing P.V.C waste pipe for sink or wash basin including PVC waste fittings complete .					
	Flexible pipe					
	32 mm dia	6	Each			

1.03	Under counter type oval shaped wash basin off white (Parryware make) code: Indus basin c0498 size 550 mm dia fixed below granite slab of counter with splash board over R.C.C. slab as per design with single hole 15mm C.P. brass Jaguar pillar cock auto closing system tap, code 031/008 including making the edges of granite (The cost will include oval under counter wash basin. C.P. Jaguar waste coupling 32mm code no. 709, C.P. Jaguar bottle trap european type 32 mm code no 773, onne numbers angular stop cock with necessary C.P. copper connection pipe with C.P. unions)	12	Each			
1.04	Providing and fixing vitreous china Integrated EFS urinal (Code : DC/AC - C8098/C8097) of parryware/Hindware make of star white/off white color size 645x410x425 mm with fittings, C.I. I.M.S brackets standard size C.P. brass flush pipe, spreaders with unions and clamps and waste coupling of make Jaguar (all in C.P. brass) with bottle trap (Jaguar make) and unions 32mm and other coupling in C.P. brass including painting of fitting and brackets, cutting and making good the walls and floor wherever required including connection to electrical point.	6	Each			
1.5	Providing and fixing water closet squatting pan (Indian type WC pan) with 100mm sand cast Iron P or S Trap, 10 litre of make Jaguar Code: CNS-WHT-OP01	15	Each			
1.06	Providing and fixing white vitreous china extended wall mounting water closet of size 780 x 370 x 690mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 2Ltrs/6Ltrs (adjustable to 4 Ltrs/8Ltrs) including seat cover and cistern fittings, nuts, bolts and gasket etc complete. of Jaguar make Code: KUS-WHT-0114	6	Each			

1.07	Under Counter type white oval shaped wash basin off white (parryware make) code :- indus basin CO498 size 550 mm dia fixed below granite slab of counter with splash board over r.c.c slab as per design with single hole 15mm C.P. brass jaguar pillar cock auto closing system tap, code 031/008 including making holes in the granite slab for wash basin finishing and polishing the edges of granite. (The cost will include oval under counter wash basin, c.p jaguar waste coupling 32 mm code no 709, c.p jaguar bottle trap european type 32mm code no 773, one numbers angular stop cock with necessary c.p brass steel tubes i.e Providing and Fixing 30cm long 15mm nominal bore C.P. copper connection pipe with C.P. unions)	12	Each			
1.08	Providing and fixing CP Bib Cock Auto Closing System of make Jaguar Code: PRS-043 for W.C	21	Each			
1.09	Providing and fixing Health Faucet of make Jaguar Code: ALD-CHR-593 for W.C	21	Each			
1.10	Providing & fixing beveled edge mirror of superior glass (of approved quality) complete over 1/2" water proof bwr ply with 3"x1 1/2" th steam beech wood frame with PU polish as per approved sample fixed to wooden cleats with C.P. brass screws and washers complete.	18	Sqm			
1.11	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370mm having pre & post flushing with water (250ml & 500ml consumption) having water inlet from back side, including fixing to wall with suitable brackets all as per manufactures specification of make Jaguar Code: URS-WHT-0704	6	Each			
1.12	Providing and fixing liquid soap container to standard shape including all necessary fittings weighing not less than 500 gms of make jaguar Code: ACN-1137N	23	Each			

1.13	Providing and fixing BottleTrap for Wash Basin and Sink of Jaguar make Code: ALD-769	6	Each			
1.14	Providing and fixing 15mm CP Pillar cock auto closing system of make Jaguar Code: PRS-031	6	Each			
1.15	Providing and fixing Toilet paper holder of make Jaguar Code: Code: AKB-35753 for European W.C	6	Each			
1.16	Providing and fixing C.P. brass angular stop cock of 15mm dia for basin mixer and geyser points of make Jaguar Code: CON-053KN					
a)	15mm nominal bore	50	Each			
1.17	Providing & fixing CP brass Robe hook complete in all respects of Make Jaguar Code: AKB-35791	24	Each			
1.18	Providing & Fixing hand drier of best quality, to be operated with 230 volts, single phase, with fully hygienic condition, with all accessories including cutting and making good the walls, wherever required. (Make Euronics Cat No EH05M)	6	Each			/-
1.19	Providing & Fixing Aerosole Perfume Dispenser (Digital programming) fixed to wooden cleats with C.P brass screws, complete including cutting and making good the walls wherever required. (Make Euronics Cat No EA03)	6	Each			/-
1.20	Providing & Fixing SS body paper towel dispenser Capacity 450-500(Paper Towels)complete with brackets fixed to wall with PVC raw plug with CP brass screws complete in all respects, including cutting and making good the wall wherever required.	6	Each			/-
1.21	Extra Over Providing & Fixing Concealed Cistern in place of Exposed Cistern (For both Indian and European W.C.)	21	Each			/-
Total of SUB HEAD 1				Rs.		/-

2.00	SUB HEAD 2 - SOIL, WASTE, VENT WATER PIPES					
2.01	Providing and fixing soil, waste and vent pipes					
	100mm dia					
	Centrifugally cast (spun) iron socketed pipe as per IS 3989	50	Metre			/-
2.02	Providing and fixing MS Holderbat clamps of approved design to sand cast iron / cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.					
	100mm dia	28	Each			/-
2.03	Providing and fixing bend of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.					
	100mm dia					
	sand cast iron S & S as per IS: 3989	34	Each			/-
2.04	Providing and fixing plain bend of required degree.					
	100mm dia					
	sand cast iron S & S as per IS: 3989	10	Each			/-
2.05	Providing & Fixing Heelrest sanitary bend					
	100mm dia					
	sand cast iron S & S as per IS: 3989	10	Each			/-
2.06	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.					
	100 x 100 x 100mm					
	sand cast iron S & S as per IS: 3989	6	Each			/-
2.07	Providing and fixing single equal plain junction of required degree					
	100 x 100 x 100mm					
	sand cast iron S & S as per IS: 3989	32	Each			/-
2.08	Providing and fixing terminal guard:					
	100mm dia					
	sand cast iron S & S as per IS: 3989	4	Each			/-
2.09	Providing and fixing Collar:					
	100mm dia					
	sand cast iron S & S as per IS: 3989	10	Each			/-
2.10	Providing lead caulked joints to sand cast iron / centrifugally cast (spun) iron pipes and fittings of diameter:					
	100mm dia	18	Each			/-

2.11	Providing and fixing MS stay and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter:					
	100mm dia	24	Each			/-
2.12	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors.					
	100mm inlet and 100mm outlet					
	sand cast iron S & S as per IS: 3989	21	Each			/-
2.13	Cutting chases in brick masonry walls for following sand cast iron / centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 12.5mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand)					
	100mm dia	60	Each			/-
2.14	Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work.					
a)	100mm dia	36	Metre			/-
2.15	Providing and fixing Stainless Steel grating of approved quality and colour.					
	Circular type					
	125 mm nominal dia with 25 mm waste hole.	48	Each			/-
2.16	Providing and fixing on wall face unplasticised- PVC rain water pipes conforming to IS: 13592 TYPE A, including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
	110 mm diameter pipe	15	Metre			/-
2.17	Providing and fixing on wall face unplasticised- PVC moulded fitting/ accessories for unplasticised- PVC rain water pipes conforming to IS: 13592 TYPE A, including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
a)	Coupler					
	110mm	20	Each			/-
b)	Single Tee without door					
	110x110x110mm	25	Each			/-
c)	Bend 87.5 degree					
	110 mm bend	12	Each			/-
d)	Shoe(Plain)					

	110 mm Shoe	12	Each			/-
2.18	Providing and fixing unplasticised PVC pipe clips of approved design to unplasticised PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with MS screws of required length, including cutting brick work and fixing in cement mortar 1:4(1 cement : 4 coarse sand) and making good the wall etc complet.					
	110mm	12	Each			/-
2.19	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440grams	6	Each			/-
	TOTAL OF SUB HEAD 2 - SOIL,WASTE & VENT WATER PIPES				Rs.	/-
3.00	SUB HEAD 3 -INTERNAL AND EXTERNAL WATER SUPPLY					
3.01	Providing & fixing GI pipes complete with GI fittings and clamps, including cutting & making good the walls etc.					
	Internal work- Exposed on wall					
a)	15mm nominal bore	35	Metre			/-
b)	20mm nominal bore	25	Metre			/-
c)	25mm nominal bore	20	Metre			/-
d)	32mm nominal bore	25	Metre			/-
e)	40mm nominal bore	40	Metre			/-
f)	50mm nominal bore	60	Metre			/-
3.02	Providing & Fixing GI Pipe complete with GI Fittings including trenching and refilling etc.					
	External Work					
	25mm dia Pipe	15	Metre			/-
	50mm dia Pipe	25	Metre			/-
3.03	Making Connection of GI Distribution branch with GI main of following sizes by providing and fixing tee, including cutting and threading the pipe etc complete.					
	50mm to 80mm dia	2	Each			/-
3.04	Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting, including fixing the pipe with clamps at 1 m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
	Concealed work including cutting chases and making good the walls etc.					
a)	15mm nominal outer dia. Pipes.	60	Metre			/-
b)	20mm nominal outer dia. Pipes.	45	Metre			/-
c)	25mm nominal outer dia. Pipes.	22	Metre			/-
d)	32mm nominal outer dia. Pipes.	11	Metre			/-
e)	40mm nominal outer dia. Pipes.	8	Metre			/-

3.05	Providing and fixing gunmetal gate valve with CI wheel of approved quality (Screwed end)					
a)	25mm nominal bore	12	Each			/-
b)	32mm nominal bore	2	Each			/-
c)	40mm nominal bore	8	Each			/-
d)	50mm nominal bore	3	Each			/-
3.06	Painting GI pipes and fittings with synthetic enamel paint over a ready mixed priming coat, both of approved quality for new work.					
a)	20mm nominal bore	40	Metre			/-
b)	25mm nominal bore	50	Metre			/-
c)	32mm nominal bore	50	Metre			/-
d)	40mm nominal bore	60	Metre			/-
e)	50mm nominal bore	80	Metre			/-
3.07	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, out let and overflow pipes but without fittings and the base support for tank. and quantity as specified by the Architect.	10000	per ltrs			/-
3.08	Providing and fixing Ball valve (Brass) of approved quality, High or Low pressure with plastic floats complete.					
	25mm nominal bore	4	Each			/-
3.09	Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality.					
a)	25mm diameter pipe	25	Metre			/-
b)	50mm diameter pipe	35	Metre			/-
3.10	Providing and filling sand of grading zone V or coarser grade around the GI pipes in external work.					
a)	25mm dia nominal bore	25	Metre			/-
b)	50mm dia nominal bore	35	Metre			/-
	TOTAL OF SUB HEAD 3 - Internal and external water supply			Rs		/-
4.00 SUB HEAD 4 - SEWERAGE & DRAINAGE SYSTEM						
4.01	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete					
	200 mm diameter	20	Metre			/-
4.02	Providing and laying Non pressure NP2 RCC Pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing and jointing etc complete.					
	250mm dia RCC Pipe	25	Metre			/-

4.03	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) around stoneware pipes/RCC Pipe including in bed for pipes to be laid in trenches as per standard details.					
	200 mm diameter	20	Metre			/-
	250 mm diameter	15	Metre			/-
4.04	Providing and fixing square mouth S.W. gully trap grade 'A' complete with C.I. Grating brick masonry chamber with bricks of class designation 75 and water tight C.I. Cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design					
	150x100 mm size P type					
	with common burnt clay F.P.S.(non module) brick of class designation 7.5	6	Each			/-
4.05	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C. top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design.					
	Inside size 90x80 cm and 45 cm deep including CI Cover with frame (light duty as per IS:12592) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)					
	with common burnt clay F.P.S.(non module) brick of class designation 7.5	10	Each			/-
4.06	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement :4 coarse sand) including 500x450 mm precast RCC horizontal grating with frame complete as per standard design .					

	with common burnt clay F.P.S.(non module) brick of class designation 7.5	6	Each			/-
4.07	Excavating trenches of required width for pipes, cables etc. Including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5M including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cms in depth including consolidating each deposited layer by ramming, watering, etc. And disposing of surplus excavated soil as directed within a lead of 50 m Hard/dense soil.					
	All kind of soil					
	Pipes, cables etc, exceeding 80mm dia but not exceeding 300 mm dia	45	Metre			/-
4.08	Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.					
	All kind of soil	20	Cum			/-
4.09	12 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix .					
	1:3 (1 cement :3 fine sand)	5	sqm			/-
	TOTAL OF SUB HEAD 4			Rs		/-
	TOTAL FOR SECTION 2:			Rs		/-
	SECTION 3 : DRINKING WATER EQUIPMENT					
Item No.	DSR 2014	Description of Item	Quantity	Unit	Rate	Amount
1.01	Providing & Fixing Water Cooler SWC WITH INBUILT UV PURIFIER 1.00 No. 56,444.44 56,444.44 SWCSDLX680UVA- 60LTR COOLING & 80LTR STORAGE Model No. SWCSDLX680UVA OF Blue Star make.	2	No.			

1.02	SITC of wall hanging drinking water cooler & fountain with AquaPointe Bottle Filler Model - PG8SBF (make Oasis) having rated capacity 8.0 GPH suitable to deliver the normal & cold water through separate tap along with recipient, 100 Micron strainer, flexible bubbler guard, and operation between 20-120 PSI, stainless steel finish, high efficiency cooling system, chiller with refrigerent R-134(a) i/c providing & fixing of necessary hardware like stop valve, TRAP, pipe connector to waste line and supply line (Excluding Civil work).	6	No.			
TOTAL FOR SECTION 3:				Rs		/-
SECTION 4: ELECTRICAL WORK						
1.00	SUB HEAD - 1 : FIXTURE					
	A) LUMINAIRE					
	Description of items	Qty	Unit	Rate	Amount	
	Providing, fixing and supplying of fixtures including whole fixture and lamps					
1.01	Surface mounted light of make Philips - Cat no- Green LED BBS 170 IXDLED-5000 PSU WH	40	No			/-
1.02	LED tube 1200 mm 20vv840T8 of 20 wattage of length 1200mm of lumen output of 1600 of make Philips	31	No			/-
1.03	LED Bulb 350lm of 5 watt of lumens output of 350 of make Philips.	25	No			/-
1.04	Wall bracket light of aluminium material of Decon make	27	No			
	B) OTHER FIXTURE					
1.05	Installation, testing & commissioning of prewired					
1.06	Providing & fixing 1200 mm sweep A.C. Ceiling Fan complete with double ball bearing Fan motor, blades, canopies and standard down rod ref havells Cat no SS-390-white or equivalent make approved by Architect	11	Each			/-
1.07	Providing, fixing & Supply of 300 mm dia. 1400 RPM A.C. exhaust fan of Havells Cat no SS-390-white or equivalent make approved by Architect	10	Each			/-
TOTAL OF SUB HEAD 1				Rs		/-
2.00	SUBHEAD 2. ERECTION OF TUBE LIGHT FIXTURE					
2.01	Erection of wall bracket, bulkhead/ ceiling fitting suitable for all sizes and shapes containing up to two GLS lamps per fitting complete with all accessories including connection etc.as required.	67	Each			/-

2.02	Supplying, Installation testing commissioning of pre-wired, fluorescent fitting of all types complete with all accessories and tube etc. directly on ceiling / wall including connections with 1.5 sq.mm. PVC insulated copper conductor, single core cable etc. as required.	31	Each			/-
2.03	Supplying & fixing recessed type fan clamp made out of 12 mm dia M.S. rod of required shape in roof slab as required.(as per CPWD specs)	11	Each			/-
2.04	Supply & fixing of electronic modular fan step regulator on existing modulator switch plate , switch box including interconnection but excluding modular plate etc, as required.	11	Each			/-
2.05	Supply, fixing Installation of exhaust fan upto 450mm sweep in the existing opening, including making the opening / hole to suit the size of the above fan, making good, the damages, connections, testing, commissioning etc. as required.	10	Each			/-
2.06	Extra for fixing the louvers / shutters complete with frame for exhaust fan of all sizes.	10	Each			/-
	TOTAL OF SUB HEAD 2			Rs		/-
3.00	SUBHEAD 3. WIRING					
3.01	Wiring for Light point/ Fan point/ Exhaust Fan point/ Call Bell point with 1.5 sq.mm FR PVC insulated Copper Conductor Cable in surface/ recessed PVC Conduit with modular type switch, modular plate, suitable size PVC/G.I. box etc. as required.(Group-C).		Point			
	Group C	70	Each			/-
3.02	Wiring for light/ power plug point with 2 x 1.5 Sq.mm FR PVC insulated copper conductor single core Cable in recessed / surface PVC conduit along with 1 no. 1.5 sq. mm copper conductor wire for loop earthing as required.(For general Light and power plugs)	350	Mtr			/-
3.03	Wiring for light plug point with 2 x 2.5 Sq.mm FR PVC insulated copper conductor single core Cable in recessed / surface PVC conduit along with 1 no. 2.5 sq. mm copper conductor wire for loop earthing as required.(For UPS Light plug)	250	Mtr			/-
3.04	Wiring for power plug with 2 x 4 sq mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit along with 1 no 4 sq mm FR PVC insulated copper conductor single core cable for loop earthing as required. (general & UPS power)	80	Metre			/-

3.05	Supplying and fixing suitable size GI box with modular plate and cover including providing and fixing 3 pin 5/6 Amp modular type socket on switch/separate board (in surface / recessed PVC conduit wiring system) and 5/6 Amp modular type switch Earthing the 3rd pin, painting etc. as required. (For Light & UPS Plugs)	45	Point			/-
3.06	Supplying and fixing suitable size GI box with modular plate and cover including providing and fixing 6 pin 20/16 Amp modular type socket on switch/separate board (in surface / recessed PVC conduit wiring system) and 20/16 Amp modular type switch Earthing the 3rd pin, painting etc. as required. (For general & UPS power plug)	21	Set			/-
	TOTAL OF SUB HEAD 3			Rs		/-
4.00	SUBHEAD 4: CIRCUIT AND SUB MAIN WIRING					
4.01	Wiring for circuit wiring/submain wiring along with earth wire with following sizes with PVC insulated, copper conductor, single core cable in recessed / surface medium class PVC conduit as required.					
	2x1.5 sq. mm + 1x1.5 sq. mm earth wire	150	Mtr.			/-
	2x2.5 sq. mm + 12.5 sq. mm earth wire	200	Mtr.			/-
4.02	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface/recess including cutting the wall and making good the same in case of recessed steel conduit as required (tel excluding inside raceway & speaker, detectors & WIFI)					
	25 mm	75	Mtr.			/-
	TOTAL OF SUB HEAD 4			Rs		/-
5.00	SUBHEAD 5: CABLE & TERMINATION					
5.01	supplying and making outdoor end termination with brass compression glands and aluminium lugs for following size of PVC insulated and PVC sheathed XLPE power cable of 1.1 KV grade as required. 4 core X 6 Sqmm.	18	No			/-
	TOTAL OF SUB HEAD 5			Rs		/-
6.00	SUBHEAD 6 : EARTHING					
6.01	Earthing with G.I. pipe earthing including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as required. (Near MLTP)	2	No			/-

6.02	Supply & laying of one run 6 SWG GI wire at 0.5 meter below ground level from pipe earth electrode including its connection with existing octagonal pole with aluminium lugs by crimping. (Only for pipe earthing)	80	Mtr			/-
	TOTAL OF SUB HEAD 6			Rs		/-
7.00	SUBHEAD 7 : DISTRIBUTION BOARD					
7.01	Supplying & fixing of following ways, single pole and neutral, sheet steel MCB distribution board 240 volts on surface recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs, detachable gland plate, interconnections, phosphatised and powder painted including earthing etc. as required. (without MCBs/RCCB/Isolator)					
	2+4 way, Single door	6	Each			/-
7.02	Providing and Laying earth connector 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 refilling as required	10	rm			/-
7.03	Supplying & fixing 5 amps to 32 amps rating, 240/415 volts, "c" curve, miniature circuit breaker suitable for inductive load of following poles in existing MCB DB complete with connections, testing and commissioning etc as required					
	Double pole	2	Each			/-
	Single pole	6	Each			/-
7.04	Supply and fixing of metal sheet switch box of suitable size for out door installation and providing and fixing and Astro digital time switch (1 phase, 2 wire 110-240 volt AC no/nc programmable type for a week for auto ON/OFF switching) of street light including loop earthing of the box housing time switch near DB with 6 SWG GI wire, aluminium lugs and GI nut bolts as required.	3	No			/-
	TOTAL OF SUB HEAD 7			Rs		/-
	TOTAL FOR SECTION 4:					/-
	GRAND TOTAL OF SECTION 1, 2 & 3					/-

