



Uttarakhand Tourism Development Board

Government of Uttarakhand

Infrastructure Development Investment Program for Tourism (Project3)

ADB LOAN No. 3223 –IND

BIDDING DOCUMENT

for

Procurement of

Work of

**Conservation of Cultural Heritage and Urban place-making
In Nainital**

(Following ADB's Single Stage - Two Envelope Bidding Procedure)

Volume II-Price Bid

Issued on : 23/12/2019
Invitation for BidNo. : IDIPT (UK)/T3/NCB/W/03/2019-20
Package No. : UK/IDIPT-III/BHT/01/RT

Employer : **Uttarakhand Tourism Development Board (UTDB)**
Represented by:
The Program Director
Program Management Unit (PMU),
Uttarakhand Tourism Development Board
Pandit Deendayal Upadhyaya Paryatan Bhawan,
Near ONGC Helipad, Garhi Cantt. Dehradun

Country : **India**

**Section 4B - Bidding Forms
- Post qualification -**

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Letter of Price Bid

Date: dd-mm-yyyy

Invitation for Bid No.: IDIPT (UK)/T3/NCB/W/03/2019-20

NCB Package No.:UK/IDIPT-III/BHT/01/RT

To:

The Program Director,
Infrastructure Development Investment Program for Tourism (IDIPT)
Uttarakhand Tourism Development Board (UTDB),
PanditDeendyaUpadhayaParyatanBhawan,
Near ONGC Helipad, GarhiCantonment,
Dehradun – 248171, India

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;

We offer to execute in conformity with the Bidding Documents the following Works:
“Conservation of Cultural Heritage and Urban place-making in Nainital”. The total price of our Bid, excluding any discounts offered in item (d) below is:

- (b) The discounts offered and the methodology for their application are:
- (c) Our Bid shall be valid for a period of **120** days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (e) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **

Name of Recipient	Address	Reason	Amount
.....
.....

- (f) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (g) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (h) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Bank.
- (i) If awarded the contract, the person named below shall act as Contractor's Representative.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

.....

**** If none has been paid or is to be paid, indicate "none**

SUMMARY

S no	Item	Total Amount	
		In Figures	In words
1	Catholic Church		
2	Methodist Church		
3	Municipal Library		
4	Municipal Building		
5	DSA Flat		
6	Gandhi Ashram		
7	DSB College Chapel		
8	Lake Front Development		
9	Railing and Band Stand		
10	Street Furniture		
Total			
	Provisional Sum	9,91,979.05	Nine Lakhs Ninety One Thousand Nine Hundred and Seventy Nine Rupees and Five Paisa
Grand Total			

S.No	Item	Unit	Qty	Rate		Amount
				In Amount	In Words	
Catholic Church						
1	P C C					
1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1.1.1	1.3.6 (1 Cement: 3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	2.06			
2	R C C					
2.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
2.1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	2.02			
2.2	Centering and shuttering including strutting, propping etc. and removal of form for :					
2.2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	12.3			
2.3	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete					
2.3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	202			

3	Brick work					
3.1	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
3.1.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	2.53			
4	Wood work					
4.1	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)					
4.1.1	Second class teak wood 30 mm thick shutters	sqm	2.4			
4.2	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.					
4.2.1	With 2nd class teak wood beading 62X19 mm.	sqm	36			

4.3	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.					
4.3.1	50x50 mm (base and height)	Mtr	15			
5	Steel Work					
5.1	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
5.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.		844.55			
6	Flooring					
6.1	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
6.1.1	25 mm thick.(for verticle & horizontal surface)	Sqm	189.68			
6.2	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement: 5 coarse sand) with joints finished flush.					
6.2.1	Red sand stone	sqm	104.73			

6.3	providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
6.3.1	Marble work	metre	166.6			
7	Roofing					
7.1	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required					
7.1.1	1.00mm thick with zinc coating not less than 275gm/m	sqm	3.84			
7.2	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete					
7.2.1	0.80mm thick with zinc coating not less than 275gm/m	m	43.1			

7.3	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
7.3.1	110mm dia	Mtr	70			
8	Finishing					
8.1	15 mm cement plaster on rough side of single or half brick wall of mix					
8.1.1	1:4 (1 cement: 4 coarse sand)	sqm	36			
8.2	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand)					
8.2.1	Raised and cut pointing	sqm	171.85			
8.3	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade,					
8.3.1	New work (two or more coats) over and including priming coat with cement primer	sqm	82.85			
8.4	Finishing walls with textured exterior paint of required shade					
8.4.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	sqm	351.38			

8.5	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer' specifications including appropriate priming coat,preparation of surface, etc. complete.					
8.5.1	On Steel work	sqm	194.87			
8.6	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.					
8.6.1	100 mm diameter pipes	sqm	21			
8.7	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
8.7.1	Two or more coats on new work	sqm	34.57			
8.8	French spirit polishing					
8.8.1	Two or more coats on new works including a coat of wood filler.	sqm	31.67			
9	Repair Work					
9.1	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	171.85			
10	Dismanting					

10.1	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.					
10.1.1	In cement mortar	Cum	2.53			
10.2	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :					
10.2.1	Thickness above 10 mm up to 25 mm	sqm	11.7			
10.3	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	KG	241.95			
10.4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead	Cum	50			
11	Other Works					

11.1	<p>Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).</p>	Sqm	359.35			
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11.2	<p>Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).</p>	Sqm	359.35			
11.3	<p>Providing and fixing of GRC jail / moulding at walls, as per design and drawing, stone finish, (any colour & pattern as specified in drawing) of unistone or Eco-vision made, to be fixed with SS fastener and cleats. The GRC surface to be finished with mat finish silicon coat, and the entire part to be finished with required support from back. The joints are to be finished with GRC dust, adhesive and pigment, all complete in all respect. In case of moulding the profile will be measured for payment and in case of jail (avg thickness : 25-40mm) only the elevation will be measured for payment.</p>	Sqm	33.8			

11.4	Supplying proving and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preparation of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inclusive in this item. All complete on all respect, free from all defects.					
11.4.1	Benches (DIANA - Ferrous craft)	nos	2			
11.4.2	Dust bins (litter bin- venice - Ferrous craft)	nos	2			
11.5	Sitting bench repairing including wood work, knitting, painting all complete	nos	40			
11.6	Supplying and fixing of 20mm chir wood planking in roof in position including simple mouldings straight work as including supply of all material, labour and T&P etc required for proper completion of work. 20 mm thick	Sqm	11.7			
11.7	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position in Chir Wood	Cum	0.75			
12	Horticulture					
12.1	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	cum	1.64			

12.2	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).	cum	1.64			
12.3	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	sqm	16.4			
12.4	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).					
12.4.1	In rows 5 cm apart in either direction.	sqm	16.4			

12.5	Preparation of beds for hedging and shrubbery by excavating & 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)	cum	1.64			
12.6	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)					
12.6.1	Holes 60 cm dia, and 60 cm deep.	each	55			

12.7	Ground Covers - Providing and Displaying of Duranta Golden plant, having ht.15 to 20 cm bushy shape plant with fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge..	Each	50			
12.8	Shrubs					
12.8.1	Magnolia Fuscata - 600mm high, 450mm c/c	Each	5			
13	Electrical Work					
13.1	Supply & Installation of following outdoor type light fixtures complete with lamp and ballast.					
13.1	Bollard Light 1x26 w CFL dia cast alum bollard with UV stabilizers polycarbonate	Nos	29			
13.2	Supply & Installation of following outdoor type light fixtures complete with lamp and ballast.					
13.3	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light (First Floor and Varandah Area)	Nos	12			
13.4	Supply & Installation of following outdoor type light fixtures complete with lamp and ballast.					
13.5	Focus Light 200 Watt LED IP 65 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdoor Spot Light ETE	Nos	4			

13.6	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
13.7	4C x 16 sq.mm XLPE Al Arm cable	Mtr	150			

13.8	<p>Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .</p>	Mtr	400			
13.9	<p>Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .</p>					

13.9.1	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)	Rmt	100			
13.10	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
13.10.1	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Set	1			
13.11	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion	Set	9			

13.11.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)					
13.12	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion	Set	9			
13.12.1	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)					
13.13	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
13.13.1	2mm thick 50mm dia G.I. Pipe	Mtr	60			
13.14	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	5			

	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 100 A TPN MCCB as incomer					
	1 no 63 A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
13.15	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.					
	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
13.16	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
13.16.1	1x1.5sq.mm	Mtr	1000			
13.16.2	2x2.5sq.mm	Mtr	200			

13.17	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 5/6 and 15/16 amps modular switch connection etc as required.	Set	2			
13.18	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	25			
13.19	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
13.19.1	12 way TPN DB Double Door	Nos	1			
13.20	DISTRIBUTION BOARD					
13.20.1	63 AMP TP&N	Nos	1			
13.21	Installation of following outdoor type light fixtures complete with lamp and					

	ballast.					
13.21.1	Wall washer light at floor fisture or equivilate HI- Lite/Homdec, LED wall washer light HL-1628	Nos	10			
13.22	Supply & Installation of Endura Walkover 3W	Nos	30			
13.23	Supply & Installation of Letta, LED Spot light, LLPC-RCY004	Nos	31			
13.24	Supply & Installation of Hi-Lite, Crown HYL-LED-08, (40 W)	Nos	10			
13.25	Supply & Installation of Hi-Lite, Lighting poles, HLXT-606, Soudium vapour (150W)	Nos	4			
13.26	Supply & Installation of Hi-Lite, LED outdoor Spot light, HL-116/009 ETE	Nos	8			
13.27	Supply & Fixing Hi-Lite, LED Garden Spike Light, HL-112/003 ETE	Nos	50			
	SUB TOTAL (INR)					
Methodist Church						
	EARTH WORK					
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
1.1	All kinds of soil	cum	3.05			

2	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 up to 50 m and lift upto 1.5 m.	cum	453.81			
3	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. .	sqm	255.42			
4	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	911.25			
	P C C					
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
2	1:3.6 (1 Cement:1.5 Coarse Sand: 3 Graded Stone Aggregate 20 mm nominal size).	cum	48.74			
	R C C					
1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level					

1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	0.69			
2	Centring and shuttering including strutting, ropping etc. and removal of form					
2.1	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	3.96			
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	96			
	Stone Work					
1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with					
1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10.95			
	Brick work					
1	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
1.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	15.39			
	Wood work					

1	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
1.1	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	363			
2	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position					
2.1	Sal wood	cum	1.21			
3	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately -					
3.1	Second class teak wood 30 mm thick shutters	sqm	11.79			
4	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws -					
4.1	Second class teak wood 30 mm thick	sqm	7.92			

5	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :					
5.1	Float glass panes 5.0 mm thick glass panes (weight not less than 12.5 kg per sqm)	sqm	48.46			
6	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10 x 15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	qtl	0.1554			
6.1	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 300x16 mm	each	13			
7	Providing and fixing bright finished brass towerbolts (barrel type)with necessary					
7.1	250X10 mm	each	24			
7.2	150X10 mm	each	32			
8	Providing and fixing bright finished brass handles with screws etc.					
8.1	125 mm	each	54			
8.2	75 mm	each	28			

9	Providing and fixing 2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5mm fixed with wooden adhesive like fevicol etc and screws/ nails on the edges of the prelaminated particle board as per direction of Engineer-in-charge.	mtr	180.12			
	Steel Work					
1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	3837.2 4			
	Flooring					
1	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with					
1.1	Makrana white second quality.	sqm	52.68			

2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarsesand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	36.42			
	Roofing					
1	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required					
1.1	0.80 mm thick with zinc coating not less than 275 gm/m ²	Sqm	24.65			

2	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.				
2.1	0.80mm thick with zinc coating not less than 275gm/m	Sqm	12.2		
3	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.				
3.1	0.80mm thick with zinc coating not less than 275gm/m	m	73.7		
4	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
4.1	In 75x75mm deep chase	m	30.6		
	Finishing				
1	15 mm cement plaster on rough side of single or half brick wall of mix				
1.1	1:4 (1 cement: 4 coarse sand)	sqm	294.71		
2	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade				

2.1	New work (two or more coats) over and including priming coat with cement primer	sqm	299.51			
3	Finishing walls with textured exterior paint of required shade					
3.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	sqm	1408.26			
4	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.					
4.1	100 mm diameter pipes	sqm	20.86			
	Repair Work					
1	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, screws etc. to suit shutter thickness complete	each	4			
	Dismantling					
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	15.39			

2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
2.1	Of area beyond 3 sqm	each	10			
3	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of					
3.1	G.S. Sheet	Sqm	19.25			
4	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	1427.0 9			

5	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required (0.80 mm thick sheet provided)	Sqm	24.65			
6	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.(for verticle & horizontal surface)	Sqm	320.19			
7	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement: 5 coarse sand) with joints finished flush (Red sand stone)	Sqm	20.31			
8	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand)	sqm	22			

9	Providing and applying Birla white putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	295.52			
10	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade Two or more coats on new work	sqm	170.49			
11	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer' specifications including appropriate priming coat, preparation of surface, etc. complete. On Steel work	Sqm	339.33			
12	Providing and fixing bright finish Brass sliding door bolts, , with nuts and screws etc. complete : Size300x16 mm	Nos	13			
13	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	155.04			

14	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-incharge.	sqm	20			
	Horticulture					
1	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).	cum	64.85			
2	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge	sqm	648.45			
3	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).					
3.1	In rows 5 cm apart in either direction.	sqm	648.45			

4	Preparation of beds for hedging and shrubbery by excavating & 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)	cum	11.05			
5	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)					
5.1	Holes 60 cm dia, and 60 cm deep.	each	250			

6	Flooding the ground with water including making kiaries and dismantling the same.	sqm	648.45			
7	Rough dressing the trenched ground including breaking clods.	sqm	648.45			
8	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	648.45			
9	Ground Covers - Providing and Displaying of Duranta Golden plant, having ht.15 to 20 cm bushy shape plant with fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge..	Each	150			
10	Shrubs					
10.1	Magnolia Fuscata - 600mm high, 450mm c/c	Each	50			
	Miscellaneous					

1	Providing and fixing of GRC jail / moulding at walls, as per design and drawing, stone finish, (any colour & pattern as specified in drawing) of unistone or Eco-vision made, to be fixed with SS fastener and cleats. The GRC surface to be finished with mat finish silicon coat, and the entire part to be finished with required support from back. The joints are to be finished with GRC dust, adhesive and pigment, all complete in all respect. In case of moulding the profile will be measured for payment and in case of jail (avg thickness : 25-40mm) only the elevation will be measured for payment.	Sqm	9			
2	Supplying providing and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preapartion of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inclusive in this item. All complete on all respect, free from all defects.					
2.1	Benches (DIANA - Ferrous craft)	Each	9			
2.2	Dust bins (litter bin- venice - Ferrous craft)	Each	6			
3	Making and Fixing Tun Wood Eaves Boards (50 mm thick and 200-225/300 mm wide)as per drawings and design approved by client/ site engineer	Rmt	19.45			

4	Providing and fixing of Ornamental Finial on dormer, all complete as per approved drawings, specification and directions by Engineer In-charge.	nos	4			
5	Sitting bench repairing including wood work, knitting, painting all complete	nos	170			
	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					
1.1	Wall washer light at floor fixture or equivalent HI- Lite/Homdec, LED wall washer light HL-1628	Nos	24			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					
2.1	Bollard Light 1x26 w CFL dia cast alum bollard with UV stabilizers polycarbonate	Nos	17			
3	Installation of following outdoor type light fixtures complete with lamp and ballast.					
3.1	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light (Ground Floor)	Nos	0			
4	Installation of following outdoor type light fixtures complete with lamp and ballast.					
4.1	Focus Light 200 Watt LED IP 65 Integral LED with controller or as eqpt HI Lite/Homdec, LED Outdoor Spot Light ETE	Nos	2			

5	Installation of following outdoor type light fixtures complete with lamp and ballast.					
5.1	Hanging LED light 20W or eqpt HI - Lite, 3m Chain HLXT-606,	Nos	5			
6	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
6.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Mtr	346.1			
6.2	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)	Mtr	207.65			
6.3	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Mtr	692.15			

7	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
7.1	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)	Set	8			
7.2	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	8			
7.3	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Set	2			
8	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
8.1	2mm thick 50mm dia G.I. Pipe	Mtr	60			

9	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	4			
10	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 100 A TPN MCCB as incomer					
	1 no 80 A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.					
	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					

	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
11	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 5/6 and 15/16 amps modular switch connection etc as required.	Set	2			
12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
12.1	1x1.5sq.mm	Mtr	2500			
12.2	2x2.5sq.mm	Mtr	1000			
13	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	28			

14	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
14.1	12 way TPN DB Double Door	Nos	1			
15	DISTRIBUTION BOARD					
15.1	63 AMP TP&N	Nos	1			
16	Supply & Fixing of Hi-Lite Crown Light	Nos	31			
17	Supply & Fixing of Gate Light, Hi-Lite, Lighting pole, HLXT-606, Sodium Vaopur (150 W)	Nos	4			
18	Supply & Fixing of Tree Light, Hi-Lite, LED Outdorr spot light, HL-116/009 ETE	Nos	2			
19	Changeover					
19.1	125 AMP Changeover	Nos	1			
	SUB TOTAL (INR)					

Municipal Library						
	Earth Work					
1	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
1.1	Ordinary rock	cum	32.36			
2	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 up to 50 m and lift upto 1.5 m.	cum	7.82			
3	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.	sqm	214.01			
4	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. .	sqm	59.47			
	P C C					

1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering --All work upto plinth level					
1.1	1:3:6 (1 Cement:3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	6.53			
	RCC					
1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level					
1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	7.96			
2	Centering and shuttering including strutting, propping etc. and removal of form for :					
2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	45.5			
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	875.6			

4	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.					
4.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	CUM	17.58			
	Brick Work					
1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in					
1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	3.12			
2	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in					
2.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	90.47			
3	Marble work gang saw cut (polished and machine cut) of thickness 18 mm 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)					
3.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble. Area of slab over 0.50 sqm	Each	1			
4	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	46.28			
	Wood Work					

1	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.					
1.1	Second class teak wood - 30 mm thick shutters	cum	12.34			
2	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws -					
2.1	Float glass panes 5.0 mm thick glass panes (weight not less than 12.5 kg per sqm)	sqm	33.33			
3	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.					
3.1	50x50 mm (base and height)	m	23.38			
4	Providing and fixing bright finish Brass sliding door bolts, , with nuts and screws etc. complete :					
4.1	350x16 mm	Each	2			
5	Providing and fixing bright finished brass towerbolts (barrel type)with necessary					
5.1	250X10 mm	Each	8			

5.2	150X10 mm	Each	40			
6	Providing and fixing bright finished brass handles with screws etc.					
6.1	125 mm	each	6			
6.2	75 mm	each	40			
7	Providing and fixing 2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5mm fixed with wooden adhesive like fevicol etc and screws/ nails on the edges of the prelaminated particle board as per direction of Engineer-in-charge.	m	187.2			
	Steel Work					
1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	3220.2 5			
	Flooring					
1	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
1.1	25 mm thick	sqm	31.16			

2	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
2.1	Marble work	Mtr	38.8			
3	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement: 5 coarse sand) with joints finished flush					
3.1	Red sand stone	sqm	11.18			
4	38 mm thick wood plank flooring of 2nd class teak wood laid, including fixing planks in position including planed, levelled smooth and finished complete.	Sqm	20			
	Finishing works					
1	12 mm cement plaster of mix					
1.1	1:4 (1 cement : 4 fine sand)	sqm	67.5			
2	Providing and applying Birla white putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	309.28			
3	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade					
3.1	New work (two or more coats) over and including priming coat with cement primer	sqm	309.28			

4	Finishing walls with textured exterior paint of required shade					
4.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.	sqm	531.48			
5	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer' specifications including appropriate priming coat,preparation of surface, etc. complete.					
5.1	On Steel work	sqm	159.45			
6	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.					
6.1	French spirit polishing					
	Two or more coats on new works including a coat of wood filler.	sqm	733.07 7			
	Dismantling					
1	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.					
1.1	In cement mortar	cum	7.35			

2	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	kg	1704			
2.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	cum	11.97			
3	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)					
3.1	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	cum	30			

4	<p>Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the Cement Fiber board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and</p>					
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	fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge cement Fiber board conforming to IS: 2095- Par					
4.1	12.5 mm thick tapered edge Cement Fiber Board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks)	sqm	114.61			
5	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-incharge.	sqm	368.81			
6	Lettering with Enamel paint of approved brand and manufacture	1letter/1cm	2000			

7	P/F Wooden semi- round Reak wood beading 19 mm wide and 12 mm thick Fixed to the fibre board ceiling as/design and finishing in golden colour paint, finishing etc. complete.	Rmt	200			
8	P/Making wooden book shelves with openable glass shutters as/ drg. Out of 19 mm thick commercial board sides, Top, Bottom and shelves to be finished in good astar polish, 6 mm commercial ply to be fixed at the back of the rack. All the edges of the board to be finished in - 4 mm thick C.P. Teak wood margin/ Lipping. The Glass Shutters to be out of Steem Beech wood frame in sizes as/ drawing/ instructions at site., with 5 mm thick clear glass panes having bevelling on the out side. The entire rack and shutters etc. to finish in Wax polish. The rack to have Antique design Brass handles approx. 6-8" long, ball/ magnatic catches, brass hinges, mutipurpose locks as per approved brand, SS tower bolts (150 long) on the inside, all hardware inclusive,etc. complete. The Book rack to have a 75 mm high skirting out of 19 mm thick commercial board with cedar/ steem beech veneer,edges finished in 4 mm thick C.P. teak wood margin, finished in wax polish of the following siges.					

9	1200 wide x 2400 ht. excluding skirting x 375 deep	Each	75			
10	450 wide x 2400 ht. excluding skirting x 375 deep	Each	25			
11	1200 wide x 2400 ht. excluding skirting x 450 deep	Each	3			
12	450 wide x 2400 ht. excluding skirting x 450 deep	Each	1			
13	Providing and fixing 2nd class Teak wood door and window frames of 2.5"x 5" size, fixing the frames in position with hold fasts, embedded in C.C. blocks/ metal lugs/ rawl bolts etc. complete applying a coat of anto- termite paint.	Cum	1			

14	<p>P/ making magazine rack out of 19 mm thick Commercial block board of approved make with provision of keeping the old magazines and the current magazines displayed outside. The magazine rack shutters to be top hung openeable type with sliding arrangement as per drawing. The lower portion up to 750 mm to have side hinged openable wooden shutters out of 19 mm thick Commercial block board. All the front surface to be finished in Cedar Veneer on the outside. All edges to be to be finished in 4 mm thick C.P. Teak wood mergin/ lipping duly wax polished with 2 coats of touch wood. The shutters to have Anique look Brass handles of approx. 4"-6" long, Ball/ Magnetic Cathers, Brass Hinges/Pivots, all hardware etc. complete. The magazine rack to have a 75 mm high skirting out of 19 mm thick commercial block board. The front to be finished in Cedar Veneer. The entire rack to be sand papered and finished in Wax polish etc. complete of size 1500 widex 400 deep x 2400 high excluding the skirting.</p>	Each	1			
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15	<p>Providing and making conference table of size 6300 long x 1200 wide tapering to 900 wide on other ends x 730 high as per drawing. Table top out of 25 mm thick O.S. Teak veneer with straight grains with C.P. Teak carbelled border all around out of 30 mm x 50 mm section. All edges to be finished in 4 mm thick C.P. teak wood margins. The table top, borders, margins etc. to be finished in Melamine polish. The Table to be spotted on 4 No. 150 mm dia Chrome plated pedestals, with levelling screws as shown in drawing. The table top to be made in 3 sections, all jointed together with M.S.Tee 65X65x6 mm thick at site & finished in enamel paint as per drawing. All hardware is inclusive.</p>	Each	1			
16	<p>Supplying reading table chairs with arm rest as per design out of C.P. Teak wood with 3" thick foam cushion, fixed onto hard wood frame, including niwar, flat springs etc. complete, finished in white markin and upholstered in fabric of approved design (Rs. 1000/- per metre), duly polished and inclusive of all hardware.</p>	Each	16			

17	Supplying conference chairs of CP Teak with arm rests, foam cushion, chrome plated 4 arm pedestal with swivels and castors upholstered in fabric of approved design (Rs. 1000/- per metre), duly polished and inclusive of all hardware.	Each	22			
18	P/ Making reception / Librarian Table/ Photo copier table as per drawing including 19 mm thick Commercial Block Board to be finished in 1 mm thick laminate of approved make and design, inclusive of corbelled teak wood edges out of 50 mm x 50 mm section inclusive of all hardware, locks, sliding channels, brass hinges etc., wax polish all complete in 3 parts as follows:					
19	750 wide x 730 high x 1800 long with drawer unit as/ drawing on both ends.	Each	1			
20	750 wide x 730 high x 2100 long with drawer unit as/ drawing on one ends.	Each	1			
21	750 wide x 730 high x 1200 long with storage unit below as/ drawing.	Each	1			

22	P/ Making reading tables of size 1200 x 1800 x 730 high as per drawing with table top out of 19 mm thick Commercial block board, finished in approved make and design of 1.0 mm thick Laminate, with corbelled C.P. Teak wood border all around out of 50 mm x 50 mm section, with decorative teak wood supports out of 100 mm x 100 mm C.P. teak wood section, with moulding, grooves, beading etc. as/ design. All the 4 supports of the table to be jointed at the top with teak wood section 40 mm thick x 150 mm wide section, inclusive of all hardware, duly wax polished.	Each	4			
23	P/F Soft Pin up board 19 mm thick mounted on 12 mm thick Commercial ply, covered with approved coloured velvet cloth, P/F C.P. Teak wood beading as/ design to be got approved out of 25 mm x 25 mm size, finished in wax polish, with with arrangement for hanging etc. complete.	Sqm	6			
24	P/F 12 mm thick O.S. Cedar board panels with decorative T.W. beading out of 25 mm x 25 mm all around for display of photographs to be furnished in Wax polish inclusive of all hardware, complete.	Sqm	12			

25	P/F Sofa out of Teak Wood, with arm rests, Finished in wax polish, 4" thick Foam sheet cushions and back over Niwar, springs etc. complete, as per approved image, using approved fabric of Rs. 1000/- per metre.	Each	7			
26	P/F Centre table out of 19 mm thick Commercial board, top to be finished in approved make and design laminate 1.0 mm thick of size 900 x 750 x 450 high with decorative wooden legs as support of size 60 mm x 60 mm out of teak wood, finished in Wax polish. All edges to be finished in wood moulding of approved design.	Each	1			
27	As above, side table of size 600x600	Each	1			
28	P/F Float glass mirror 5 mm thick, mounted on 12 mm thick Commercial ply, with 20 mm x 20 mm Teak wood beading all around, finished in wax polish, including fixing the mirror at specified location.(600x 1800)	Each	1			
29	P/S Umbrella stand out of wood, finished in Melamine polish.	Each	1			
30	P/F Wooden Coat pegs as/ instruction.	Each	6			
31	P/F Roller blinds for windows of approved make and colour.	Each	30			

32	P/ Installing, commissioning Fire detection system consisting of ISI mark S/F ionization type 20 No. smoke detectors, with plugbase, dual chamber, dual source type, with base LED, 1 No. Electronic hooter, control panel with battery backup, including wiring in PVC Conduits, armoured cable etc. as required, duly tested.	Each	1			
33	P/ Supplying benches made in combination of cast iron and wooden members as design. 3 seater each.	Each	2			
	Miscellaneous works					
1	Supplying and applying of fire alarm system including all material, packing, transportation etc. all included	LS	1			
2	Supplying proving and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preapartion of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inclusive in this item. All complete on all respect, free from all defects.					
2.1	Benches (DIANA - Ferrous craft)	Nos	2			
2.2	Dust bins (litter bin- venice - Ferrous craft)	Nos	2			

3	Supplying and fixing of 20mm chir wood planking in roof in position including simple mouldings straight work as including supply of all material, labour and T&P etc required for proper completion of work. 20 mm thick	Sqm	20			
4	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :					
4.1	Chir wood	Rmt	1308.8			
5	Providing and fixing of Tun Wood Ornamental Finial on dormer, all complete as per approved drawings, specification and directions by Engineer In-charge.	Each	12			
	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					
1.1	Wall washer light at floor fixture or equivalent HI- Lite/Homdec, LED wall washer light HL-1628	Nos	10			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					
2.1	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light	Nos	7			
3	Installation of following outdoor type light fixtures complete with lamp and					

	ballast.					
3.1	Focus Light 200 Watt LED IP 97 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdoor Spot Light ETE	Nos	4			
4	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
4.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Rmt	200			
4.2	4C x 16 sq.mm XLPE Al Arm cable	Rmt	150			

5	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
5.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	4			
5.2	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Set	4			
6	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
6.1	2mm thick 50mm dia G.I. Pipe	Rmt	50			
7	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	4			

	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 63 A TPN MCCB as incomer					
	1 no 40A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
8	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.					
	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
9	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
9.1	1x1.5sq.mm	Mtr	750			
9.2	2x2.5sq.mm	Mtr	450			

10	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 15/16 amps modular switch connection etc as required.	Set	5			
11	Installation of following outdoor type light fixtures complete with lamp and ballast.					
11.1	Bollard Light 1x26 w CFL dia cast alum bollard with UV stabilizers polycarbonate	Nos	15			
12	Supply & fixing of crown light	Nos	2			
13	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	20			

14	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
14.1	12 way TPN DB Double Door	Nos	1			
15	DISTRIBUTION BOARD					
15.1	63 AMP TP&N	Nos	1			
16	Changeover					
16.1	125 AMP Changeover	Nos	1			
	SUB TOTAL (INR)					
Municipal Building						
	EARTH WORK					
1	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					

1.1	Ordinary rock	cum	1.296			
	PCC					
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1.1	1:3:6 (1 Cement:3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	50.605			
	RCC					
1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level					
1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	18.014			
2	Centering and shuttering including strutting, propping etc. and removal of form for :					
2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	81.276			
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	2521.96			
	Brick work					

1	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
1.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	1.766			
2	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.					
2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	23.52			
3	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement: 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with					
3.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	17.28			
	Wood Work					
1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position					
1.1	Sal wood	cum	0.88			

2	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.					
2.1	Second class teak wood - 30 mm thick shutters	sqm	98.28			
3	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.					
3.1	Second class teak wood - 30 mm thick	sqm	138.29			
4	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)					
4.1	5.0 mm thick instead of 4 mm thick.	sqm	13.5			
5	Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory					
5.1	With 2nd class teak wood beading 62X19 mm.	sqm	48.6			
6	Providing and fixing bright finish Brass sliding door bolts, , with nuts and screws etc. complete :					
6.1	300x16 mm	each	36			

7	Providing and fixing bright finished brass butt hinges with necessary screws etc.					
7.1	100x85x5.5 mm (heavy type)	each	516			
8	Providing and fixing bright finished brass towerbolts (barrel type)with necessary					
8.1	250X10 mm	each	40			
8.2	150X10 mm	each	332			
9	Providing and fixing bright finished brass handles with screws etc.					
9.1	125 mm	each	160			
9.2	75 mm	each	246			
	Steel Work					
1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	3297.9			
	Flooring					
1	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with					
1.1	Makrana white second quality.	sqm	20.94			

2	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
2.1	25 mm thick.	sqm	299.43			
3	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
3.1	Marble work	Rmt	20			
4	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :					
4.1	Second class teak wood	sqm	120			
5	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
5.1	Size of tile 60cm x 60cm	Sqm	340			

	Roofing					
1	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete					
1.1	0.80mm thick with zinc coating not less than 275gm/m	Rmt	61.24			
2	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required (0.80 mm thick sheet)	Sqm	27			
3	Providing and fixing 15 cm wide 45 cm over all semi circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc. including making necessary connections with rain water pipes complete					
3.1	0.80mm thick with zinc coating not less than 275gm/m	m	97.6			

4	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75mm deep chase	m	25			
5	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the	sqm	215.18			

	Cement Fiber board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings forlight fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge cement Fiber board conforming to IS: 2095- Par					
	Finishing					
1	12 mm cement plaster of mix					
1.1	1:4 (1 cement : 4 fine sand)	sqm	568.62			
2	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) Raised and cut pointing					
2.1	Raised and cut pointing	Sqm	76.95			

3	Providing and applying Birla white putty of average thickness 1.5 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	1688.4 1			
4	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade					
4.1	New work (two or more coats) over and including priming coat with cement primer	sqm	1783.9 6			
5	Finishing walls with Acrylic Smooth exterior paint of required shade :					
5.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	1884.5 5			
6	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc.complete.					
6.1	On Steel work	sqm	196.12			
7	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
7.1	Two or more coats on new work	sqm	753.8			

8	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	2131.93			
	Repair works					
1	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	76.95			
	Dismantling					
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
1.1	Of area 3 sqm and below	each	372			
2	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead					
2.1	Thickness above 25 mm up to 40 mm	sqm	11.78			
3	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.					

3.1	In cement mortar	cum	6.4			
4	Demolishing stone rubble masonry 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 :					
4.1	In cement mortar	sqm	23.28			
5	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	340.12			
6	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
6.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	6.23			
7	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	cum	45			

8	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. (For the purpose of measurement the entire treated surface will be measured.)</p>	sqm	80			
Horticulture & Landscape works						
1	<p>Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).</p>	cum	1.26			

2	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).	cum	1.26			
3	Mixing earth and sludge or manure in proportion specified or directed.	sqm	6.3			
4	Ground Covers -					
4.1	Providing and Displaying of Duranta Golden plant, having ht.15 to 20 cm bushy shape plant with fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge..	Each	30			
5	Shrubs					
5.1	Magnolia Fuscata - 600mm high, 450mm c/c	Each	10			
	Miscellaneous works					

1	Providing and fixing of GRC jali / moulding at walls, as per design and drawing, stone finish, (any colour & pattern as specified in drawing) of unistone or Eco-vision made, to be fixed with SS fastener and cleats. The GRC surface to be finished with mat finish silicon coat, and the entire part to be finished with required support from back. The joints are to be finished with GRC dust, adhesive and pigment, all complete in all respect. In case of moulding the profile will be measured for payment and in case of jali (avg thickness : 25-40mm) only the elevation will be measured for payment.	Sqm	68.41			
2	Supplying providing and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preapartion of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inclusive in this item. All complete on all respect, free from all defects.					
2.1	Benches (DIANA - Ferrous craft)	Nos	2			
2.2	Dust bins (litter bin- venice - Ferrous craft)	Nos	2			

3	Providing, supplying and fixing new clock in the clock tower and making it functional, (rate shall include all kind of work including the finishing work of adjacent surfaces after the fixing of clock), all work complete as mentioned in the drawing and instruction of site in-charge	each	4			
4	Removing the existing clock from the clock tower, storing it safely & refixing it & making it functional, (rate shall include all kind of work including the finishing work of adjacent surfaces after the fixing of clock), all work complete as mentioned in the drawing and instruction of site in-charge	each	4			
5	Supplying and fixing of 20mm chir wood planking in roof in position including simple mouldings straight work as including supply of all material, labour and T&P etc required for proper completion of work. 20 mm thick	Sqm	67.4			
6	Making and Fixing Tun Wood Eaves Boards (50 mm thick and 200-225/300 mm wide)as per drawings and design approved by client/ site engineer	Rmt	155.45			

7	Providing and fixing Rebar(reinforcement bar)with Hiliti or equivalent Resin bonded epoxy fixing method including anchor fastner,materials,equipment ,labour,scaffolding complete as per direction of engineer,cost of reinforcement bar is not included in this item.Rebar has to be designed for full strength in M25 grade of concrete and the depth embedment is to be provided accordingly. 12mm Dia	Nos	100			
8	Providing and fixing of Tun Wood Ornamental Finial on dormer, all complete as per approved drawings, specification and directions by Engineer In-charge.	Nos	4			
9	Lettering with Enamel paint of approved brand and manufacture	Letter /Cm	2000			
10	Removing enamel paint by scrapping, using required chemical, controlled heat/flame as per requirement and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	722.78			
11	Providing and Fixing Chicken wire mesh under layer of plster	Sqm	568.62			
	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					

1.1	Focus Light 200 Watt LED IP 97 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdoor Spot Light ETE	Nos	3			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					
2.1	LED Ceiling Surface Light IP 65 integral or eqpt HI Lite/ homdec, LED Light	Nos	190			
3	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
3.1	4 core x 50 Sqmm XLPE al. Armoured (Main to FP)	Nos	100			
3.2	4Core x 25Sqmm XLPE Al Armoured (FP to DB)	Nos	300			
3.3	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Nos	500			

4	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
4.1	4 core x 50 Sqmm XLPE al. Armoured (Main to FP)	Set	8			
4.2	4Core x 25Sqmm XLPE Al Armoured (FP to DB)	Set	10			
4.3	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	15			
5	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
5.1	2mm thick 50mm dia G.I. Pipe	Rmt	20			

6	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	6			
7	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	MCB 32 AMP 4 nos					
	1 no 150 A TPN MCCB as incomer					
	1 no 125 A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.					
2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.						

	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
8	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm. FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit, with piano type switch, phenolic, laminated sheet, suitable size MS Box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.					
8.1	Group C	Point	230			
9	Supply & fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required					
9.1	a) 5/6 Amp switch	Nos	40			
9.2	b) 3 pin 5/6 AMP socket outlet	Nos	40			
10	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 15/16 amps modular switch connection etc as required.	Set	90			
11	S/F of 3 Pin 5 AMPS ceiling rose on the existing junction box / wooden block including connection etc as reqd	Each	25			

12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
12.1	1x1.5sq.mm	Mtr	3000			
12.2	2x2.5sq.mm	Mtr	1500			
13	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	70			
14	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
14.1	16 Way	Nos	3			

15	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
15.1	4 way	Nos	3			
16	63 AMP TP&N	Nos	3			
17	100 Amp isolater	Nos	3			
18	Supply & Fixing of Polr light, Hi-lite, Crown Hylt-LED-08 (40 W)	Nos	16			
19	Installation of following outdoor type light fixtures complete with lamp and ballast.					
19.1	Bollard Light 1x26 w CFL dia cast alum bollard with UV stabilizers polycarbonate	Nos	8			
20	Supply & Fixing of Tree Light, Hi-Lite, LED Outdorr spot light, HL-116/009 ETE	Nos	3			
21	Supply & Fixing of LED Metal and glass Bajaj LED Street Light (Ordinary Light)	Nos	15			
22	Changeover					
22.1	125 AMP Changeover	Nos	1			
	SUB TOTAL (INR)					

	DSA Flat					
	EARTH WORK					
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. .	sqm	533.79			
	P C C					
1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering All work upto plinth level					
1.1	1:3:6 (1 Cement:3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	14.4			
	R C C					
1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level					
1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	0.31			
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					

2.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	43.4			
	Brick work					
1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in					
1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	13.34			
2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
2.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	0.41			
3	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in					
3.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	16.38			
	Wood Work					
1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position					
1.1	Sal wood	cum	1.88			

2	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately - Second class teak wood					
2.1	30 mm thick shutters	sqm	30.11			
3	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in charge and panelling with panels of :					
3.1	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed,three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	sqm	4.59			

4	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws - Second class teak wood.					
4.1	30 mm thick	sqm	82.67			
5	Providing and fixing fly proof galvanised M.S. wire gauge to windows and clerestory					
5.1	With 2nd class teak wood beading 62X19 mm.	sqm	15.5			
6	Providing and fixing bright finished brass butt hinges with necessary screws etc.					
6.1	100x85x5.5 mm (heavy type)	each	372			
7	Providing and fixing bright finished brass towerbolts (barrel type) with necessary					
7.1	250X10 mm	each	18			
7.2	150X10 mm	each	76			
8	Providing and fixing bright finished brass handles with screws etc.					
8.1	125 mm	each	72			
8.2	75 mm	each	76			
9	Providing and fixing wooden moulded corner beading of triangular					
9.1	50x50 mm (base and height).	m	41			
	Steel Work					

1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	sqm	1147.08			
2	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) Raised and cut pointing					
2.1	Flush/ Ruled pointing	sqm	284.35			
	Flooring					
1	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with					
1.1	Makrana white second quality.	sqm	41.32			
2	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
2.1	25 mm thick	sqm	201.11			

3	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement: 5 coarse sand) with joints finished flush.					
3.1	Red sand stone	sqm	24.3			
4	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
4.1	Marble work.	Mtr	68.8			
5	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	102.78			
6	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :					
6.1	Second class teak wood	sqm	11.06			

7	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	sq.m	27.36			
8	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
8.1	Size of tile 60cm x 60cm	sqm	165			

9	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	sqm	203.82			
	Roofing					
1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In					
1.1	75x75mm deep chase	Mtr	29			

2	<p>Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the Cement Fiber board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and</p>	sqm	194.5			
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	fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge cement Fiber board conforming to IS: 2095- Par					
	Finishing					
1	12 mm cement plaster of mix					
1.1	1:6 (1 cement : 6 fine sand)	sqm	12.6			
2	15 mm cement plaster on rough side of single or half brick wall of mix					
2.1	1:4 (1 cement: 4 coarse sand)	sqm	350.29			
3	Providing and applying Birla white putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	298.7			
4	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade					

4.1	New work (two or more coats) over and including priming coat with cement primer	sqm	3339.06			
5	Finishing walls with Premium Acrylic Smooth Exterior paint with Silicone additives of required shade					
5.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).	sqm	1270.87			
6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
6.1	Two or more coats on new work	sqm	595.32			
7	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc.complete.					
7.1	On Steel work	sqm	499.99			
8	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	285.6			

8.1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	405			
	Repair works					
1	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	755.01			
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	17.32			
	Dismantling and Demolishing					
1	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	kg	150			
2	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	kg	527.35			

3	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes manually / by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge					
3.1	15 mm to 40 mm nominal bore	m	52			
4	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.					
4.1	In cement mortar	cum	13.5			
5	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metre lead.					
5.1	For thickness of tiles above 25 mm and upto 40 mm	sqm	20.52			
6	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	136.31			
7	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	4			

8	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	cum	80			
Sanitary installation & Water supply works						
1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					
1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	4			
2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					

2.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	4			
3	Providing and fixing controlled flush, low level cistern made of vitreous china with					
3.1	10 litre (full flush) capacity-white	each	4			
4	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. Flexible pipe					
4.1	32mm dia	each	4			
5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shades with 6 mm thick hard board backing:					
5.1	Rectangular shape 453x357 mm	each	4			
6	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	4			
7	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					

7.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	4			
8	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall					
8.1	15 mm nominal outer dia .Pipes.	m	60			
8.2	20 mm nominal outer dia .Pipes.	m	15			
9	Constructing masonry Chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :					
9.1	With F.P.S. bricks	each	4			
10	Providing and fixing uplasticised PVC connection pipe with brass unions :					
10.1	45 cm length					

10.2	15 mm nominal bore	each	4			
11	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltr	1000			
12	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
12.1	15 mm nominal bore	each	12			
13	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
13.1	15mm nominal bore	each	8			
14	Providing and fixing PTMT grating of approved quality and colour.					
14.1	Circular type.					
	100 mm nominal dia.	each	8			
	Miscellaneous works					

1	Providing and fixing of GRC jail / moulding at walls, as per design and drawing, stone finish, (any colour & pattern as specified in drawing) of unistone or Eco-vision made, to be fixed with SS fastener and cleats. The GRC surface to be finished with mat finish silicon coat, and the entire part to be finished with required support from back. The joints are to be finished with GRC dust, adhesive and pigment, all complete in all respect. In case of moulding the profile will be measured for payment and in case of jail (avg thickness : 25-40mm) only the elevation will be measured for payment.	sqm	91.6			
2	Supplying providing and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preapartion of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inclusive in this item. All complete on all respect, free from all defects.					
2.1	Benches (DIANA - Ferrous craft)	No	6			
2.2	Dust bins (litter bin- venice - Ferrous craft)	No	6			
3	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position in Chir Wood	Cum	0.3			

4	Making and Fixing Tun Wood Eaves Boards (50 mm thick and 200-225/300 mm wide)as per drawings and design approved by client/ site engineer	Rmt	80			
5	Directional signage - Providing and fixing in position 0.9M X0.6M signage supported on 50 mm X 50 mm hollow MS section post , 0.9M high, constructed with 5mm thick MS Plate finished with synthetic enamel paint of approved shade and colour over two coats of primer (cost of content development and etching on signage to be separate)	Nos	3			
6	Lettering with Enamel paint of approved brand and manufacture	Nos	10000			
7	Removing enamel paint by scrapping, using required chemical, controlled heat/flame as per requirement and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	122.35			
8	Providing and Fixing Chicken wire mesh under layer of plster	Sqm	80.33			

9	Providing and fixing (PVC best quality) soil / waste / vent and rain water pipes conforming to IS : 3989 complete with all fitting such as collars, junctions, bends, tee's offsets, MS holder bat clamps, lead joints, cutting and making good the walls, floors etc. including painting, earth work, excavation of trenches, re - filling, consolidation etc. complete, as per approval of architect / site engineer					
9.1	100mm dia (heavy type)	m	100			
9.2	75mm dia (heavy type)	m	25			
10	Providing and fixing Toughened glass 12 mm thickness with wooden frame all complete	Sqm	24.66			
	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					
1.1	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light (Ground, First & Second Floor, Varandah Area & Toilet Area)	Nos	50			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					
2.1	Focus Light 200 Watt LED IP 97 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdoor Spot Light ETE	Nos	2			

3	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
3.1	4Core x 35 Sqmm XLPE Al Armoured (Main Cable)	Rmt	150			
3.2	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Rmt	600			

4	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
4.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	3			
4.2	4Core x 35 Sqmm XLPE Al Armoured (Main Cable)	Set	2			
5	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	4			
6	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 125 A TPN MCCB as incomer					

	1 no 100 A TP Contactor (230 V coil)				
	1 no selector switch to select automatic or manual operation				
	1 set of ON/OFF push buttons for manual operation				
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)				
	200 A 4P AL busbar.				
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.				
	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.				
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1		
7	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm. FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit, with piano type switch, phenolic, laminated sheet, suitable size MS Box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.				
7.1	Group C	Point	60		

8	Supply & fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required					
8.1	a) 5/6 Amp switch	Nos	10			
8.2	b) 3 pin 5/6 AMP socket outlet	Nos	10			
9	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 15/16 amps modular switch connection etc as required.	Set	6			
10	S/F of 3 Pin 5 AMPS ceiling rose on the existing junction box / wooden block including connection etc as reqd	Each	10			
11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
11.1	1x1.5sq.mm	Mtr	2000			
11.2	2x2.5sq.mm	Mtr	300			
12	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	30			

13	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
13.1	12 Way	Nos	2			
14	DISTRIBUTION BOARD					
14.1	63 AMP TP&N	Nos	2			
15	Installation of following outdoor type light fixtures complete with lamp and ballast.					
15.1	Wall washer light at floor fixture or equivalent HI- Lite/Homdec, LED wall washer light HL-1628	Nos	15			
16	Supply & Fixing of Letta, LED Spot light, LLPC-RCY004	Nos	20			
17	Supply & Fixing of Exhaust Fan	Nos	6			
18	Changeover					
18.1	125 AMP Changeover	Nos	1			
	SUB TOTAL (INR)					

Gandhi Ashram						
	EARTH WORK					
1	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
1.1	Ordinary rock	cum	333.41			
2	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 up to 50 m and lift upto 1.5 m.	cum	233.02			
3	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared. .	sqm	860			
	PCC					
1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering --All work upto plinth level					

1.1	1:3:6(1 Cement:1.5 Coarse Sand: 3 Graded Stone Aggregate 20 mm nominal size).	cum	195.15			
	R C C					
1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level					
1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	196.43			
2	Centering and shuttering including strutting, propping etc. and removal of form for :					
2.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	327.89			
3	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete					
3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	13115.6			
	Brick work					
1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in					
1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	7.36			

2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
2.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	1.5295			
3	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in					
3.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	158.3			
	Stone Work					
1	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.					
1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	811.4			
	Wood work					
1	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
1.1	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	180			

2	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
2.1	Sal wood	cum	1.5			
3	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.					
3.1	Second class teak wood - 30 mm thick shutters	sqm	18.9			
4	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.					
4.1	Second class teak wood 30 mm thick	sqm	15.03			
5	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :					
5.1	2nd class teak wood 50x20 mm	Mtr	186			

6	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.					
6.1	With 2nd class teak wood beading 62X19 mm	sqm	19.2			
7	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10 x 15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	qtl	0.336			
8	Providing and fixing bright finish Brass sliding door bolts, , with nuts and screws etc. complete :					
8.1	350x16 mm	Nos	9			
9	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :					
9.1	100x85x5.5 mm (heavy type)	each	120			
10	Providing and fixing bright finished brass towerbolts (barrel type)with necessary					
10.1	250X10 mm	each	18			
10.2	150X10 mm	each	24			
11	Providing and fixing bright finished brass handles with screws etc.					
11.1	125 mm	each	36			

11.2	75 mm	each	16			
	Steel Work					
1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	2754			
	Flooring					
1	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
1.1	25 mm thick	sqm	144.48			

2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	32.76			
3	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	sq.m	9			

4	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
4.1	Size of tile 60cm x 60cm	sqm	121.78			
	Roofing					
1	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required					
1.1	1.00 mm thick with zinc coating not less than 275 gm/m ²	sqm	217.52			

2	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.					
2.1	0.80mm thick with zinc coating not less than 275gm/m	m	33			
3	Providing valleys of 90cm wide overall in plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts 8mm dia.. G.I. limpet and bitumen washers complete					
3.1	1.60mm thick with zinc coating not less than 350gm/m	m	28.6			
4	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In					
4.1	75x75mm deep chase	m	23.8			
	Finishing					
1	12 mm cement plaster of mix :					
1.1	1:6 (1 cement: 6 fine sand)	sqm	615.8			
2	Providing and applying Birla white putty of average thickness 1.5 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	261.25			

3	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) Raised and cut pointing					
3.1	Flush/ Ruled pointing	Sqm	409.6			
4	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade					
4.1	New work (two or more coats) over and including priming coat with cement primer	sqm	261.25			
5	Finishing walls with Premium Acrylic Smooth Exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).					
5.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	391.4			
6	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :					

6.1	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	370.72			
7	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc.complete.					
7.1	On Steel work	sqm	714.77			
8	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
8.1	New work (two or more coats) including a coat of approved	Sqm	217.52			
9	steel primer but excluding a coat of mordant solution					
9.1	Two or more coats on new work	sqm	70.06			
	Repair works					
1	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	203.29			
	Dismantling					

1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	8.1			
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
2.1	Of area 3 sqm and below	each	20			
3	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of					
3.1	G.S. Sheet	sqm	217.52			
4	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead					
4.1	Thickness above 10 mm up to 25 mm	sqm	217.52			
5	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.					
5.1	In cement mortar	cum	8.34			

6	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	322.68			
Sanitary installation & Water supply works						
1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :					
1.1	W.C. pan with ISI marked white solid plastic seat and lid	each	2			
2	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
2.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	2			

3	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	each	2			
4	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
4.1	Flexible pipe					
	32mm dia	each	2			
5	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
5.1	Rectangular shape 453x357 mm	each	2			
6	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	2			
7	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					

7.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	2			
8	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. internal work					
8.1	15 mm nominal outer dia .Pipes.	m	50			
8.2	20 mm nominal outer dia .Pipes.	m	10			
9	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :					
9.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	2			

10	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Liter	500			
11	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
11.1	15mm nominal bore	each	3			
12	Providing and fixing PTMT grating of approved quality and colour.					
12.1	Circular type. 100 mm nominal dia.	each	3			
13	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.					
13.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1			

14	<p>Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).</p>	sqm	203.29			
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15	Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	203.29			
16	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-incharge.	sqm	250			
	EXTRA ITEM					
1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position in Chir Wood	Cum	2.72			

2	Supplying and fixing of 20mm chir wood planking in roof in position including simple mouldings straight work as including supply of all material, labour and T&P etc required for proper completion of work. 20 mm thick	Sqm	217.52			
3	Shifting of old dismantled M.S railing from library and lake front development site to Gandhi Ashram site and fixing the same .	Kg.	17369.25			
4	Supplying proving and installation of Cast iron benches, dust bins and related items; as per mentioned below. Necessary site cleaning, preapartion of site, casting of concrete (1:1.5:3) at least of 300X300X300 size, lifting, supporting all charges are inc					
4.1	Benches (DIANA - Ferrous craft)	Nos	4			
4.2	Dust bins (litter bin- venice - Ferrous craft)	Nos	4			
5	Directional signage - Providing and fixing in position 0.9M X0.6M signage supported on 50 mm X 50 mm hollow MS section post , 0.9M high, constructed with 5mm thick MS Plate finished with synthetic enamel paint of approved shade and colour over two coats of primer (cost of content development and etching on signage to be separate)	Nos	1			

6	Making and Fixing Tun Wood Eaves Boards (50 mm thick and 200-225/300 mm wide) as per drawings and design approved by client/ site engineer	Mtr	88.1		
7	Providing and fixing (PVC best quality) soil / waste / vent and rain water pipes conforming to IS : 3989 complete with all fitting such as collars, junctions, bends, tee's offsets, MS holder bat clamps, lead joints, cutting and making good the walls, floors etc. including painting, earth work, excavation of trenches, re - filling, consolidation etc. complete, as per approval of architect / site engineer				
7.1	100mm dia (heavy type)	m	25		
7.2	75mm dia (heavy type)	m	15		
	Horticulture & Landscape works				
1	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	cum	150		
2	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).	cum	150		
3	Mixing earth and sludge or manure in proportion specified or directed.	sqm	750		

4	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).					
4.1	In rows 5 cm apart in either direction.	sqm	750			
5	Preparation of beds for hedging and shrubbery by excavating & 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)	cum	13.5			

6	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)					
6.1	Holes 1.2 m dia and 1.2 m deep.	each	250			
7	Flodding the ground with water including making kiaries and dismantling the same.	sqm	750			
7.1	Rough dressing the trenched ground including breaking clods.	sqm	750			
7.2	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	750			
7.3	Supplying and laying of grass selection 1 or equivalent including laying of grass, screening of earth, excavation of field upto 30cm depth and screening the excavated earth, including disposal of waste material and refilling by good earth with sand and manure complete as per direction of Engineer-in-Charge for proper completion of the work.	sqm	750			

	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					
1.1	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light (Ground, First & Second Floor, Varandah Area)	Nos	25			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					
2.1	Focus Light 200 Watt LED IP 97 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdor Spot Light ETE	Nos	4			
3	Installation of following outdoor type light fixtures complete with lamp and ballast.					
3.1	Hanging LED light 20W or eqpt HI - Lite, 3m Chain HLXT-606,	Nos	2			

4	Supplying ,Installation Testing & Commsioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
4.1	4Core x 35 Sqmm XLPE Al Armoured (Main Cable)	Rmt	300			
4.2	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Rmt	150			

5	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
5.1	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	3			
5.2	4Core x 35 Sqmm XLPE Al Armoured (Main Cable)	Set	2			
6	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	3			
7	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 125 A TPN MCCB as incomer					
	1 no 100 A TP Contactor (230 V coil)					

	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.					
	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
8	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm. FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit, with piano type switch, phenolic, laminated sheet, suitable size MS Box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.					
8.1	Group C	Point	25			
9	Supply & fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as					

	required					
9.1	a) 5/6 Amp switch	Nos	5			
9.2	b) 3 pin 5/6 AMP socket outlet	Nos	5			
10	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 15/16 amps modular switch connection etc as required.	Set	5			
11	S/F of 3 Pin 5 AMPS ceiling rose on the existing junction box / wooden block including connection etc as reqd	Each	5			
12	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
12.1	1x1.5sq.mm	Mtr	2000			
12.2	2x2.5sq.mm	Mtr	300			
13	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	15			

14	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					
14.1	8 Way	Nos	1			
15	DISTRIBUTION BOARD					
15.1	63 AMP TP&N	Nos	1			
	SUB TOTAL (INR)					
DSB College Chapel						
	EARTH WORK					
1	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
1.1	Ordinary rock	cum	36			
	P C C					

1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1.1	1:3:6 (1 Cement:3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	7.8			
	Brick work					
1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in					
1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	12.42			
2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarsesand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	38.35			
	Wood work					

1	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding panelling which will be paid for separately.					
1.1	Second class teak wood - 30 mm thick shutters	sqm	24.02			
2	Providing and fixing bright finished brass tower bolts (barrel type)with necessary					
2.1	250X10 mm	each	4			
2.2	150X10 mm	each	12			
3	Providing and fixing bright finished brass handles with screws etc.					
3.1	125 mm	each	4			
3.2	75 mm	each	12			
4	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.					
4.1	50x50 mm (base and height)	m	98.78			
5	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as					
5.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar	Kg	600			

	works.					
	Flooring					
1	Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with					
1.1	Makrana white second quality.	sqm	106.13			
1.2	Extra for pre finished nosing to treads of steps of marble stone.	m	68.74			
2	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 polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
2.1	25 mm thick	sqm	90			

3	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including grouting the joints with white cement and matching pigments etc., complete.	sqm	9.03			
	Roofing					
1	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.					
1.1	0.80 mm thick with zinc coating not less than 275 gm/m ²	sqm	20			
2	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In					
2.1	75x75mm deep chase	m	15			
	Finishing					

1	Providing and applying Birla white putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	21.57			
2	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade					
2.1	New work (two or more coats) over and including priming coat with cement primer	sqm	315.55			
3	Finishing walls with Premium Acrylic Smooth Exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).					
3.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	163.02			
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
4.1	Two or more coats on new work	sqm	327.58			
	Dismantling Work					

1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	1.8			
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	cum	79.78			
3	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	cum	47.77			
4	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					

4.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1			
5	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :					
5.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2			
6	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
6.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	1			
7	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	Each	1			

8	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.					
8.1	10 litre (full flush) capacity-white	Each	3			
9	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
9.1	Flexible pipe 32 mm dia	Each	1			
10	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :					
10.1	Rectangular shape 453x357 mm	Each	1			
11	Providing and fixing PTMT Bottle Trap for Wash basin and sink.					
11.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	1			
12	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	1			

13	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					
13.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	1			
14	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. internal work					
14.1	15 mm nominal outer dia .Pipes.	Mtr	20.3			
14.2	20 mm nominal outer dia .Pipes.	Mtr	8			

15	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation7foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :					
15.1	With F.P.S. bricks	Each	1			
16	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltr	500			
17	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
17.1	15 mm nominal bore	Each	6			

18	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
18.1	15mm nominal bore	Each	6			
19	Providing and fixing PTMT grating of approved quality and colour.					
19.1	Circular type. 100 mm nominal dia.	Each	6			
20	Providing and fixing (PVC best quality) soil / waste / vent and rain water pipes conforming to IS : 3989 complete with all fitting such as collars, junctions, bends, tee's offsets, MS holder bat clamps, lead joints, cutting and making good the walls, floors etc. including painting, earth work, excavation of trenches, re - filling, consolidation etc. complete, as per approval of architect / site engineer					
20.1	100mm dia (heavy type)	Mtr	45.6			
20.2	75mm dia (heavy type)	Mtr	8			
	Electrical Work					
1	Installation of following outdoor type light fixtures complete with lamp and ballast.					
1.1	Wall washer light at floor fixture or equivalent HI- Lite/Homdec, LED wall washer light HL-1628	Nos	45			
2	Installation of following outdoor type light fixtures complete with lamp and ballast.					

2.1	Bollard Light 1x26 w CFL dia cast alum bollard with UV stabilizers polycarbonate	Nos	10			
3	Installation of following outdoor type light fixtures complete with lamp and ballast.					
3.1	LED Ceiling Surface Light light IP 65 integral or eqpt HI Lite/Homdec, LED Light (Ground, First & Second Floor, Varandah Area)	Nos	3			
4	Installation of following outdoor type light fixtures complete with lamp and ballast.					
4.1	Focus Light 200 Watt LED IP 97 Integral LED with controllar or as eqpt HI Lite/Homdec, LED Outdor Spot Light ETE	Nos	2			
5	Installation of following outdoor type light fixtures complete with lamp and ballast.					
5.1	Hanging LED light 20W or eqpt HI - Lite, 3m Chain HLXT-606,	Nos	5			

6	Supplying ,Installation Testing & Commissioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
6.1	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Rmt	150			
6.2	3Core x 16Sqmm XLPE Al Armoured (FP to DB)	Rmt	100			
6.3	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Rmt	400			
6.4	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)	Rmt	400			

7	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
7.1	4Core x 16Sqmm XLPE Al Armoured (Main Panel to FP)	Set	1			
7.2	3Core x 16Sqmm XLPE Al Armoured (FP to DB)	Set	1			
7.3	3 Core x 6 Sqmm XLPE Al Armoured (FP to FL)	Set	1			
7.4	3 Core x 4Sqmm XLPE Al Armoured (FP to FL)	Set	1			
8	Providing & laying in position hume pipes(MP-3 Type) of following sizes in road crossings, paved areas etc., including collars, joints filled with cement mortar 1:4 and provided 75 mm thick cement concrete 1:3:6 and compacted.					
8.1	150 mm dia hume pipe	Rmt	12			

9	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
9.1	2mm thick 50mm dia G.I. Pipe	Rmt	50			
	Earthing					
1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	4			
2	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 125 A TPN MCCB as incomer					
	1 no 100 A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.						

	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					
	MCB 6 to 32 AMP 7 Nos					
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
3.1	1x1.5sq.mm	Mtr	2200			
3.2	2x2.5sq.mm	Mtr	200			
4	Supply & fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 Amps & 15/16 Amps modular socket outlet & 15/16 amps modular switch connection etc as required.	Set	2			
5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	15			

6	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
6.1	12 Way	Nos	1		
7	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required				
7.1	12 Way	Nos	1		
8	DISTRIBUTION BOARD				
8.1	63 AMP TP&N	Nos	1		
8.2	100 AMP Isolator	Nos	1		
9	Changeover				
9.1	125 AMP Changeover	Nos	1		
10	Supply & Fixing of Pole light, Hi-Lite, Crown, HYL-LED-08	Nos	11		
11	Supply & Fixing of Tree light, HI-Lite, LED outdoor spot light, HL-116/009 ETE	Nos	5		
12	LED Metal and glass Bajaj LED Street Light (Ordinary Light)	Nos	8		
13	Supply & Fixing of Exhaust Fan	Nos	2		

SUB TOTAL INR					
LAKE FRONT DEVELOPMENT					
Demolition and Dismantling Works					
1	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.				
1.1	Ordinary rock	Cum	28.95		
2	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 up to 50 m and lift upto 1.5 m.	Cum	33.84		
3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level				
3.1	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	56.81		
4	Centering and shuttering including strutting, propping etc. and removal of form for :				

4.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	268.52			
5	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in					
5.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	Cum	19.93			
6	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.					
6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	182.7			
7	Finishing walls with Premium Acrylic Smooth Exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/ 10 sqm).					
7.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	305.91			

8	Pointing on stone work with cement mortar 1:3 (1 cement :3 fine sand) Raised and cut pointing					
8.1	Flush/ Ruled pointing	Sqm	121.8			
9	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metre lead.					
9.1	For thickness of tiles above 25 mm and upto 40 mm	Sq m	41.25			
10	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.	Cum	41.44			
11	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.					
11.1	In cement mortar	Cum	19.24			
12	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kgs	14899.6			

13	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	Cum	29.9			
	FLOORING					
1	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).					
1.1	Light shade using white cement.	Sqm	1078.5 7			
	RAILINGS					
1	Steel work welded in built up section/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using steel etc. as required.					
1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kgs	15534. 22			

2	Providing and laying 75mm thick compacted bed of dry brick aggregate of 40mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand including finishing smooth etc. complete as per direction of Engineer-in-charge.	Sqm	976.42			
2.1	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	Sqm	377.91			
3	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer' specifications including appropriate priming coat,preparation of surface, etc. complete.					
3.1	On Steel work	Sqm	524			
	STREET FURNITURE					
1	Garden Bench					
1.1	Providing and fixing in position cast iron garden benches as per design ,with finishing complete	Nos	75			
2	Dustbin					
2.1	Pole Hanging Dustbin Steel 120L, tiltable	Nos	75			
3	Repairs to damaged existing cement concrete lamp posts to replicate the existing design and set in its original position, including removal of existing paint , applying primer coat and paint of approved shade, matching the original .	Nos	113			
	SIGNAGE					

1	Directional signage - Providing and fixing in position 0.9M X0.6M signage supported on 50 mm X 50 mm hollow MS section post , 0.9M high, constructed with 5mm thick MS Plate finished with synthetic enamel paint of approved shade and colour over two coats of primer (cost of content development and etching on signage to be separate)	Per piece	10			
2	Regulatory signage - Providing and fixing in position 0.9M X0.6M signage supported on 50 mm X 50 mm hollow MS section post , 1.3 M high, constructed with 5mm thick MS Plate finished with synthetic enamel paint of approved shade and colour over two coats of primer (cost of content development and etching on signage to be separate)	Per piece	5			
3	Descriptive signage with key map/ building plan - Providing and fixing in position 0.9M X0.6M signage supported on 50 mm X 50 mm hollow MS section post , 1.3 M high, constructed with 5mm thick MS Plate finished with synthetic enamel paint of approved shade and colour over two coats of primer (cost of content development and etching on signage to be separate)	Per piece	1			

4	Removal of existing lighting fixtures (square, red coloured) from all light poles along Lower Mall road (Lake side) , dismembering and stacking, disposing within 50metres lead.	Nos	113			
	LANDSCAPING					
	Trenching and Preparation of Ground					
1	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	Cum	528.56			
2	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	Cum	176.19			
3	Supplying and stacking at site dump manure from Badli or other approved source, including carriage upto 1 km manure measured in stacks will be reduced by 8% for payment)					
3.1	Screened through sieve of I.S. designation 20mm	Cum	88.11			
4	Fine Dressing	Sqm	880.95			

5	Mixing earth and sludge or manure in proportion specified or directed.	Sqm	880.95			
6	Supplying and laying of grass selection 1 or equivalent including laying of grass, screening of earth, excavation of field upto 30cm depth and screening the excavated earth, including disposal of waste material and refilling by good earth with sand and manure complete as per direction of Engineer-in-Charge for proper completion of the work.	Sqm	880.95			
7	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50m lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	Cum	18.9			

8	Edging with bricks laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m					
8.1	FPS Brick	Mts	69			
9	Providing and Displaying of Duranta Golden plant, having ht.15 to 20 cm bushy shape plant with fresh and healthy leaves in 20 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-in-charge..	Each	5000			
10	Aspharagus ' densiflorus'	Nos.	150			
11	Shrubs					
11.1	Lantana Cmara Nivea - 300 mm high - 300mm c/c	Nos.	150			
11.2	Magnolia Fuscata - 600mm high, 450mm c/c	Nos.	100			
	Electrical work					
1	Lampost top lights					
	5129 GL.Aluminium casting Acrylic diffuser(Transparent)					
	Finish : Antique Golden/Black					
	With Phillips 14 watt LED Bulb (Vendor: Umair Lights, New Lights)	Nos	500			
2	Providing and fixing in position Bajaj Product code : 110393 Black Painted galvanised pole in different section and gold colour painted decorative rings. Hight 4 Mtr					

	Finish : Antique Golden/Black	Nos	200			
3	Supplying ,Installation Testing & Commissioning of XLPE insulated inner & outer sheathed / armoured aluminium cables as per IS 1554 Part-1 1976 with latest amendments, 1.1 KV grade & of the following sizes, supplied, laid & tied on readymade cable trench/trays or drawn in already installed pipes or clamped to walls, columns, beams or roof. Cable in indoor built trenches on M.S. angle supports with clamps etc. complete as required. All the wire shall be FRLS PVC insulated .					
3.1	4C x 16 sq.mm XLPE Al Arm cable	Mtr	4500			
3.2	4C x 25 sq.mm XLPE Al Arm cable	Mtr	1000			

4	LT Cable End Terminations: Supplying & Fixing Making end terminations joints for the following size of cables including providing heavy duty copper terminal crimping lugs, double compression brass cable glands, effective gland connections and effective terminal connections to the equipment complete as required. All hardware like nuts, bolts plain and spring washers should be plated or galvanized to avoid corrosion					
4.1	4C x 16 sq.mm XLPE Al Arm cable	Set	300			
4.2	4C x 25 sq.mm XLPE Al Arm cable	Set	8			
5	Providing & laying in position hume pipes(MP-3 Type) of following sizes in road crossings, paved areas etc., including collars, joints filled with cement mortar 1:4 and provided 75 mm thick cement concrete 1:3:6 and compacted.					
5.1	150 mm dia hume pipe	Rmt	175			
6	Providing and fixing in position the following size of Heavy duty G.I pipes for drawing underground cables etc. complete with Bends, collars etc.					
6.1	2mm thick 50mm dia G.I. Pipe	Rmt	450			
7	Installation of following outdoor type light fixtures complete with lamp and					

	ballast.					
7.1	Summersible 18W LED Light Fixtures waterproof Wipro/Philips	Nos	18			
8	Summersible Copper Cable 3 Core Armoured	Mtr	150			
9	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required	Set	6			
10	FEEDER PILLAR - (EXTERNAL LIGHTING PANEL)					
	Supply,Installing testing and commissioning of outdoor feeder pillar Board comprising of the following IP 65					
	1 no 100 A TPN MCCB as incomer					
	1 no 100 A TP Contactor (230 V coil)					
	1 no selector switch to select automatic or manual operation					
	1 set of ON/OFF push buttons for manual operation					
	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)					
	200 A 4P AL busbar.					
All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.						

	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.					
	Street Light DB (Outdoor Feeder Pillar) as described above complete	Set	1			
11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC Conduit as required.					
11.1	1x1.5sq.mm	Mtr	3000			
12	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of SINGLE poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Nos	305			
13	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					

13.1	12 Way TPN DB	Nos	2			
13.2	4 way TPN DB	Nos	1			
14	DISTRIBUTION BOARD					
14.1	63 AMP TP&N	Nos	2			
	SUB TOTAL (INR)					
	Railing and Band Stand					
	RENOVATION OF LAKE SIDE RAILING					
1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	40.11			
2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering --All work upto plinth level					
2.1	1:3:6 (1 Cement:3 Coarse Sand: 6 Graded Stone Aggregate 20 mm nominal size).	cum	5.232			
3	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	184.71 8			
4	Smooth finishing of the exposed surface with 6mm thick cement mortar 1:3 (1 Cement : 3 fine sand)	sqm	453.40 6			

5	Finishing walls with Acrylic Smooth exterior paint of required shade :					
5.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	1156			
6	Factory made precast CC post (Overall Dimensions: Baluster Height up to – 800mm; Bottom Rail – 900mm Length X 230mm Breadth X 85 mm Thickness; Top Rail – 900mm Length X 245mm Breadth X 95mm Thickness. Modular system consisting of balusters, top rail, and bottom rail. Bottom and top rail have a 1 inch hole running along the length to assist in connecting adjacent rails using a rebar. Suitably Reinforced placing in position at specified spacing, height as per existing, decorative as per existing design in cement concrete 1:3:6 .	metre	150			
	SUB TOTAL (INR)					
STREET FURNITURE at LAND'S END AND TIFFIN TOP						
1	Benches					
1.1	Providing and fixing in position cast iron garden benches as per design ,with finishing complete	Nos	25			
2	Dustbins					
2.1	Pole Hanging Dustbin Steel 120L, tiltable	Nos	15			
	SUB TOTAL (INR)					