



SHREE JAGANNATH TEMPLE OFFICE, PURI

BID IDENTIFICATION NO-- 51 / 2023-24 /Dt. 29/1/2024

COVER - II

FINANCIAL BID DOCUMENTS
FOR THE WORK

CONSTRUCTION OF CELEBRATION MANDAP AT BACKSIDE SHREE
PURUSHOTTAMA BHAKTA NIWAS OF SHREE JAGANNATH TEMPLE,
PURI.

(Composite Tender)

Estimated Cost put to Tender : ₹612.35 lakh approx.

CHIEF ADMINISTRATOR
SHREE JAGANNATH TEMPLE, PURI

SCHEDULE OF QUANTITY

CONSTRUCTION OF CELEBRATION MANDAP AT BACKSIDE SHREE PURUSHOTTAMA BHAKTA NIWAS OF SHREE JAGANNATH TEMPLE, PURI.

Estimated cost put to tender: Rs. 612.35 Lakh

Last date & Time of receipt of tender :- Dt _____ up to 3:00 P.M.

Sl no	Description	Unit			Amount
1	Earth work in excavation IN ALL TYPES OF SOILS by mechanical means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including disposal of excavated earth up to 50 m and lift upto 1.5m with all lead and lift including shoring, shuttering & dewatering (if required) with cost of all Labour, Labour cess ,Hire & Running charges of the water pumps, Sundries, T & P required for the work complete as directed by the Engineer- in-charge.				
	Basement floor slab	Cum	952.500	Rs. 232.30	2,21,265.75
2	Earth work in excavation IN ALL TYPES OF SOILS by mechanical means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including disposal of excavated earth up to 50 m and lift upto 1.5m with all lead and lift including shoring, shuttering & dewatering (if required) with cost of all Labour, Labour cess ,Hire & Running charges of the water pumps, Sundries, T & P required for the work complete as directed by the Engineer- in-charge, +1.5m extra lift				
	Basement floor slab	cum	317.500	Rs. 249.06	79,077.50
3	Supplying & Filling foundation trenches , plinth & ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking, royalties and all taxes of sand, cost & conveyance of water, cost of all Labour, labour cess, T&P required for the work etc. complete in all respect as directed by the Engineer- in -charge.	cum	284.90	Rs. 861.00	2,45,298.90
4	Providing and laying plain cement concrete of proportion (1:4:8) in foundation and floors using 4 cm. size black hard crusher broken granite stone metal and screened and washed sharp sand for mortar of approved quality and from approved quarry including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete to required levels laid in layers not exceeding 15 cm. thick in each layer including cost, conveyance, royalties and cost of all labours, labour cess, T&P etc complete as per specification & direction of the Engineer-in-charge.	cum	196.85	Rs. 5,514.40	10,85,509.64
5	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL antitermite treatment (excluding the cost of chemical emulsion) (CPWD Rate - 2019, Item no -2.35) Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	sqm	635.00	Rs. 199.08	1,26,415.39
6	Providing and laying in position ready mixed M-30 grade concrete having compressive strength at 28 days test not less than 300 kg/ sq.cm for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , including the cost of centering, shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, and hoisting, lowering, laying and compacting concrete, watering and curing and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour, Labour cess and T&P required for the work improve workability without impairing strength and durability as per direction of the Engineer - in - charge.				

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a) Basement Floor , Foundation & Plinth, Basement floor slab		cum	422.25	Rs.	7,034.70	29,70,402.08
b) RCC in Plinth Beam		cum	39.30	Rs.	7,856.20	3,08,748.66
c) RCC in column		cum	114.56	Rs.	14,858.30	17,02,166.85
d) RCC in roof beam		cum	28.38	Rs.	14,858.30	4,21,678.55
e) RCC in roof slab		cum	62.06	Rs.	13,451.70	8,34,745.24
f) RCC in S.case		cum	4.96	Rs.	14,807.50	73,445.20
g) RCC in Lintel		cum	1.00	Rs.	14,093.50	14,155.51
h) RCC in Sill		cum	1.00	Rs.	14,093.50	14,155.51
i) RCC in Chajja		sqm	2.70	Rs.	1,179.00	3,183.30
Ground floor						-
a) RCC in column ,C1 (300X450)		cum	15.07	Rs.	14,858.30	2,23,914.58
b)RCC in roof beam		cum	28.38	Rs.	14,858.30	4,21,678.55
c)RCC in roof slab		cum	62.06	Rs.	13,451.70	8,34,745.24
d)RCC in S.case		cum	6.11	Rs.	14,807.50	90,473.83
e)RCC in Lintel		cum	4.32	Rs.	14,093.50	60,891.53
f)RCC in Sill		cum	2.70	Rs.	14,093.50	38,057.52
g)RCC in Chajja		sqm	3.54	Rs.	1,179.00	4,173.66
First Floor						-
a)RCC in column C1 (300X450)		cum	15.07	Rs.	16,586.80	2,49,963.08
b)RCC in roof beam		cum	28.38	Rs.	16,586.80	4,70,733.38
c)RCC in roof slab		cum	107.31	Rs.	14,899.00	15,98,737.20
d)RCC in Lintel		cum	6.10	Rs.	15,669.10	95,581.51
e)RCC in Sill		cum	3.93	Rs.	15,669.10	61,579.56
f)RCC in S.case		cum	6.11	Rs.	16,525.90	1,00,973.25
g)RCC in Chajja		sqm	3.90	Rs.	1,334.00	5,202.60
Terrace Floor						-
a)RCC in column		cum	24.91	Rs.	18,656.40	4,64,730.92
b)RCC in roof beam		cum	6.73	Rs.	18,656.40	1,25,557.57
c)RCC in roof slab		cum	22.88	Rs.	16,631.00	3,80,434.13
d)RCC in Lintel		cum	1.60	Rs.	17,555.10	28,088.16
e)RCC in Sill		cum	1.03	Rs.	17,555.10	18,081.75
f)RCC in Chajja		sqm	0.54	Rs.	1,519.60	820.58
7						-
Supplying Cutting, straightening coiled or bent up M.S. Rod or tor steel of primary steel producers such as SAIL / TATA / RINL / JINDAL STEEL / SHYAM STEEL (grade Fe-500D) etc. including bending, binding, welding and jointing if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors with labour cess etc. (payment will be made on standard weight of B.I.S. for M.S. Rods or tor steel only) etc. complete as per specification & direction of Engineer-in-charge.						
Foundation		Qntl	899.58	Rs.	9,038.70	81,31,033.75
Ground floor		Qntl	178.94	Rs.	9,038.70	16,17,384.98
First floor		Qntl	226.46	Rs.	9,064.80	20,52,814.61
Terrace floor		Qntl	102.78	Rs.	9,002.21	9,25,247.35
8						-
Fly Ash Brick Masonry in cement mortar of mix (1:6) using Fly Ash bricks of different size in Super structure having crushing strength not less than 75 kg per square c.m. with cement and screened & washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge. (A/R 2006, Pg-71, item no-3)						
Basement floor		cum	14.60	Rs.	5,092.70	74,353.42
Ground floor		cum	78.33	Rs.	5,092.70	3,98,911.19
First floor		cum	104.00	Rs.	5,386.10	5,60,154.40
Terrace floor		cum	68.29	Rs.	5,723.00	3,90,823.67

9	Fly Ash Brick Masonry in cement mortar of mix (1:4) using Fly Ash bricks of different size in Super structure having crushing strength not less than 75 kg per square c.m. with cement and screened & washed sharp sand for mortar after immersing the bricks for 6 (Six) hours in water before use in works with all necessary projections, splays cutting, circular moulding, corbelling, chamfering, watering and curing etc. including cost, conveyance, stacking, loading, unloading, royalties, all taxes, cost of all labour, Labour cess, scaffolding, sundries and T&P required for the works etc. complete in all respect as directed by the Engineer-in-charge.				
	First floor	cum	6.09	Rs. 5,560.30	33,862.23
10	Providing 12 mm thick cement plaster with cement mortar of mix (1:6) with screened and washed sharp sand for mortar and finished smooth to the rough surface of walls in all heights after racking out joints including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties, with cost of all labour, labour cess, T&P, and scaffolding required for the work etc. complete in all respect and specification and direction of the Engineer in charge. (Outer side plastering)				
	1:6 (1 cement: 6 coarse sand)				
	Basement floor	Sqm	211.50	Rs. 159.00	33,628.50
	Ground floor	Sqm	528.48	Rs. 159.00	84,028.32
	First floor	Sqm	490.66	Rs. 165.00	80,958.90
	Terrace floor	Sqm	650.85	Rs. 171.40	1,11,555.69
11	Providing 16mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary) including watering and curing, rounding of corners etc. complete with cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, T&P and scaffolding required for the work etc. as directed by the Engineer-in-charge.				
	1:6 (1 cement: 6 coarse sand)				
	Basement floor	sqm	663.25	Rs. 226.00	1,49,894.50
	Ground floor	sqm	854.38	Rs. 226.00	1,93,089.88
	First floor	sqm	974.37	Rs. 231.40	2,25,469.22
	Terrace floor	Sqm	209.04	Rs. 236.90	49,521.58
12	Providing 6 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to R.C.C. work after closed deep chipping & slurry treatment including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance and royalties of all materials with cost of all labour, T&P, and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.				
	Basement Floor	sqm	476.18	Rs. 173.10	82,426.76
	Ground Floor	sqm	402.50	Rs. 173.10	69,672.75
	First floor	sqm	476.12	Rs. 177.30	84,416.08
	Terrace floor	sqm	253.12	Rs. 181.70	45,991.90
13	Priming one coat with water bound wall cement primer.				
	Basement floor				

	12mm plastering(Outer side)	211.50	sqm	211.50	Rs. 68.80	14,551.20
	16mm plastering (Inside)	663.25	sqm			-
	6mm plastering	476.18				-
		1139.43	sqm	1139.43	Rs. 68.80	78,392.78
	Ground floor					-
	12mm plastering(Outer side)		sqm	528.48	Rs. 68.80	36,359.42
	16mm plastering (Inside)	854.38				-
	6mm plastering	402.50				-
		1256.88	sqm	1256.88	Rs. 68.80	86,473.34
	First floor					-
	12mm plastering(Outer side)		sqm	490.66	Rs. 71.50	35,082.19
	16mm plastering (Inside)	974.37				-
	6mm plastering	476.12				-
		1450.49	sqm	1450.49	Rs. 70.40	1,02,114.50
	Terrace floor					-
	12mm plastering(Outer side)		sqm	650.85	Rs. 74.30	48,358.16
	16mm plastering (Inside)	209.04				-
	6mm plastering	253.12				-
		462.16	sqm	462.16	Rs. 72.10	33,321.74
14	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.					
	Basement floor					-
	16mm plastering (Inside)	663.25				-
	6mm plastering	476.18				-
		1139.43	sqm	1139.43	Rs. 73.30	83,520.22
	Ground floor					-
	16mm plastering (Inside)	854.38				-
	6mm plastering	402.50				-
		1256.88	sqm	1256.88	Rs. 73.30	92,129.30
	First floor					-
	16mm plastering (Inside)	974.37				-

	6mm plastering	476.12					-
		1450.49	sqm	1450.49	Rs.	74.00	1,07,336.26
	Terrace floor						-
	16mm plastering (Inside)	209.04					-
	6mm plastering	253.12					-
		462.16	sqm	462.16	Rs.	74.70	34,523.35
15	Painting two coats with plastic emulsion paint with a approved quality primer to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, cost of all labour,labour cess, T&P etc. complete as per the direction of the Engineer-in-charge.						
	Basement floor						-
	16mm plastering (Inside)	663.25					-
	6mm plastering	476.18					-
		1139.43	sqm	1139.43	Rs.	93.90	1,06,992.48
	Ground floor						-
	16mm plastering (Inside)	854.38					-
	6mm plastering	402.50					-
		1256.88	sqm	1256.88	Rs.	93.90	1,18,021.03
	First floor						-
	16mm plastering (Inside)	974.37					-
	6mm plastering	476.12					-
		1450.49	sqm	1450.49	Rs.	95.60	1,38,666.84
	Terrace floor						-
	16mm plastering (Inside)	209.04					-
	6mm plastering	253.12					-
		462.16	sqm	462.16	Rs.	97.40	45,014.38
16	Finishing walls with textured exterior paint of required shade :New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm. (CPWD Rate-2019 Item No-13.45)						
	Basement floor						-
	Qty Same as 12mm plastering		sqm	211.50	Rs.	516.70	1,09,282.05
	Ground floor						-
	Qty Same as 12mm plastering		sqm	528.48	Rs.	516.70	2,73,065.62
	First floor						-
	Qty Same as 12mm plastering		sqm	490.66	Rs.	516.70	2,53,524.02
	Terrace floor						-
	Qty Same as 12mm plastering		sqm	650.85	Rs.	516.70	3,36,294.20
17	Decorative plaster Extra for plastering done on moulding, cornices or architraves including neat finish to line and level: In one coat (CPWD Rate-2019 Item No-13.24)						
	Ground Floor		sqm	24.62	Rs.	231.40	5,697.99

	First Floor		sqm	111.24	Rs.	231.40	25,739.78
18	Providing Mat finished Polished Granite stone prepolished 20mm thick of area above 0.40 Sqm in flooring of approved quality, colour and size in floors, treads on steps and landings in all floors at all height on 20mm thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry, grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the granite tile if required watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess, sundries, T&P required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.						-
	Basement Floor		Sqm	160.48	Rs.	3,021.00	4,84,798.00
	Ground Floor		Sqm	468.50	Rs.	3,044.20	14,26,215.31
	First Floor		Sqm	505.06	Rs.	3,068.60	15,49,822.51
19	Supplying, fitting & fixing of Granite Slab cladding / tile dado using 10mm thick of above 0.10sqm up to 0.40sqm granite slab/ tiles over 12mm thick bed CM(1:3) (1 cement : 3 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge						-
	Basement Floor		Sqm	110.35	Rs.	2,332.70	2,57,418.11
	Ground Floor		Sqm	241.96	Rs.	2,366.50	5,72,588.87
	First Floor		Sqm	215.30	Rs.	2,402.00	5,17,160.21
20	Ceramic tile/ Anti skid tile of 30cmX30cm/ 40cmX40cm special, plain/printed series over 20mm thick bed CM(1:4)						-
	First Floor		Sqm	37.06	Rs.	1,112.60	41,232.96
21	Glazed ceramic tiles 20cmx30cm / 20cm x 20cm special plain / printed series of premium grade 12mm thick bed CM(1:3)						-
	First Floor		Sqm	82.48	Rs.	1,291.00	1,06,481.68
22	2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size HG chips including all cost, conveyance, royalty & taxes etc.comp.to work site for new work as per the specification approved by the department & direction of E.I.C						-
	First Floor						-
	Slab		sqm	563.000	Rs.	368.60	2,07,521.80
23	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. (CPWD Rate-2019, Item No-22.6)						-
	First Floor						-
	Slab		sqm	563.000	Rs.	458.61	2,58,200.04
24	Supplying, fitting and fixing of GI Grill For window etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge						-
	Basement Floor to Terrace floor						-
	Total		kg	2538.00	Rs.	124.50	3,15,981.00

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25	Painting two coat with approved synthetic enamel paint to new wood & iron work including cost, conveyances, royalties of all materials and cost of all labour with T&P required for the work etc. complete as per specification & direction of Engineer in charge.					-
	BasementFloor			5.40	Rs. 156.50	845.10
	Ground Floor	sqm	17.28	Rs. 156.50		2,704.32
	First Floor	sqm	18.00	Rs. 160.30		2,885.40
	Terrace Floor	sqm	1.62	Rs. 164.30		266.17
26	Supply, fitting & fixing of Wood polymer composite (WPC) Door Frames with Rebate cuts and Accessories like - L-clamps and screw, finished cross section size 75mm x 45mm / 90mm x 50mm / 115mm x 55mm with 100% water, Termite and Borer proof with Density of 850 kg/m ³ , 100% recycleable, no contraction/ Expansion, Bend proof, Crack proof with 10yrs written warrantee, 100% Formaldehyde, phenol and Toxic free, swelling proof, screw holding capacity 70kg per screws with all necessary hardware fitting & fixtures etc complete as per directions of EIC.					-
	BasementFloor					-
	D1	rmt	18.00			-
	Ground floor	rmt	55.80			-
	First Floor	rmt	64.20			-
	Terrace Floor					-
	D1	rmt	12.00			-
		rmt	150.00		721.78	1,08,267.72
27	Solid Teak wood shutter Providing , fitting & fixing of Solid Teak wood door shutter with including fitting & fixtures etc of approved make including cost of all materials, all labour, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-Charge					-
	Ground floor					-
	D2	Sqm	3.78		6813.00	25,753.14
28	Masonite door shutter Providing , fitting & fixing of Masonite door shutter with including fitting & fixtures etc of approved make including cost of all materials, all labour, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-Charge					-
	BasementFloor					-
	D1	Sqm	5.67			-
	Ground floor					-
	D1	Sqm	15.12			-
	First Floor	Sqm	18.90			-
	Terrace Floor					-
	D1	Sqm	3.78			-
		Sqm	43.47		6760.00	2,93,857.20
29	Supplying, fitting, fixing up UPVC window made up aluminum Section 151-154, 151-155, as windows frame section No. 151- 155, 151-153 and 151-167 as shutter frame with 5mm thick toughened reflective glass as panel fitted with rubber beading including locking arrangement including all fitting including cost of materials all taxes labour, T&P etc. complete as per direction of Engineer-incharge.					-
	BasementFloor					-
	V	sqm	10.80			-
	Ground floor	sqm	34.56		30	1,036.80
	First floor	sqm	36.00			-
	Terrace floor					-
	W	sqm	3.24			-
		sqm	84.60		9,669.60	8,18,048.16

30	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, cost of all labour, labour cess, T&P etc. required for the work complete in all respect as per direction of the Engineer-in-charge.				
		kg	733.05	Rs. 342.00	2,50,703.10
31	Waterproofing treatment of Basement raft, retaining wall				
	Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.				
		Kg	1705.56	332.40	5,66,928.14
32	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane ..				
		sqm	971.00	563.50	5,47,158.50
33	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation				
		sqm	971.00	103.50	1,00,498.50
34	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).				
		408.00 sqm	408.00	145.50	59,364.00
	Total		A		39450103.95
PH ITEMS					
35	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Each	6	₹ 11,129.09	₹ 66,774.54

36	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Half stall urinals with 10 litre P.V.C. automatic flushing cistern	Each	4	₹ 13,246.36	₹ 52,985.44
37	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 required: White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	EACH	22	₹ 10,434.57	₹ 2,29,560.54
38	Providing and fixing 600x600 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	EACH	22	₹ 2,471.98	₹ 54,383.56
39	Providing and fixing toilet paper holder :C.P. Brass	Each	6.00	₹ 1,383.51	₹ 8,301.06
40	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm CP 2 in 1 Angle stop cock (Prayag)	Each	8.00	₹ 1,482.09	₹ 11,856.72
41	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore	Each	32.00	₹ 1,616.24	₹ 51,719.68
42	Providing and fixing CP towel ring with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	6.00	₹ 749.96	₹ 4,499.76
43	Providing and Fixing (a) Liquid Soap Container - Glass container or Plastic container with Chromium Plated brass lid and brackets fixed to wooden plugs with Chromium Plated brass screws or (b) Chromium Plated brass soap dish complete with Chromium Plated brass brackets fixed to wooden plugs with Chromium Plated brass screws or (c) white glazed tooth brush holder fixed to wooden plugs with Chromium Plated brass screws as per specification. as directed by Engineer in Charge. SOAP DISPENSER, PUSH-BUTTON TYPE, WHITE/SMOKED	Each	12.00	₹ 1,120.27	₹ 13,443.24
44	Providing and fixing jet spray consisting of jet spray, triangular spacer attached with toilet seat hinges, C.P. brass angle stop cock with PVC/C.P brass flexible pipe, wall flange complete as required etc complete and as directed by Engineer in Charge. HAND SHOWER (HEALTH FAUCET) with 8mm dia 1.2 METER LONG FLEXIBLE TUBE AND WALL HOOK.	Each	6.00	₹ 1,050.07	₹ 6,300.42
45	Providing and fixing CP Bottle Trap for Wash basin and sink as directed by Engineer in Charge. Bottle trap 32mm single piece moulded with height of 300 mm, effective length of tail pipe 190 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	Each	22.00	₹ 3,572.25	₹ 78,589.50
46	Supplying all materials, labour, T&P and providing fitting and fixing (Aqua guard) Pure Chill 80 PSS UV of size 750x570x1350mm height with water storage capacity 80 liters along with 2 nos of faucets 1 for cold water and 1 for normal water including a flow of 1.5 ltr per minute etc all complete as per approved drawing,specification and direction of the Engineer in charge. Aquaguard Cooler - Cum Purifier	Each	2.00	₹ 1,12,242.00	₹ 2,24,484.00

63	Providing and fixing forged brass nickel plated lever operated ball valve of full flow with forged brass hard chrome plated ball with min. working pressure of 15 Kg/cm ² . Lever should be anti rust coating, complete in all respects etc complete and as directed by Engineer in Charge. 20 mm dia	Each	2.00	₹ 1,181.70	₹ 2,363.40
64	25 mm dia	Each	2.00	₹ 1,581.74	₹ 3,163.48
65	32 mm dia	Each	1.00	₹ 2,151.70	₹ 2,151.70
66	40 mm dia	Each	1.00	₹ 2,719.87	₹ 2,719.87
67	Providing & fixing Auto Air vent for cold water supply risers, suitable for pressure not less than 15 Kg/Sq.cm etc complete and as directed by Engineer in Charge. 15 mm nominal bore	Each	3.00	₹ 2,973.65	₹ 8,920.95
68	Providing & fixing gun metal horizontal / vertical non return valve conforming to IS 778 and tested to a pressure not less than 15 Kg/Sqcm, Including rubber gasket, flanges, union, nuts, bolts & washers complete as required etc complete and as directed by Engineer in Charge. 50 mm dia	Each	1.00	₹ 5,255.29	₹ 5,255.29
69	Providing, fixing, testing & commissioning of wafer end type cast iron butterfly valves conforming to IS : 13095 & BS : 5155 PN 10.00 (10.00 Kg/cm) pressure rating (including flanges) etc complete and as directed by Engineer in Charge. 50 mm dia.	Each	1.00	₹ 4,706.07	₹ 4,706.07
70	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm nominal dia Pipes	m	150.00	₹ 731.17	₹ 1,09,675.50
71	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top 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 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 : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	6.00	₹ 13,499.46	₹ 80,996.76
72	Providing & fixing gun metal horizontal / vertical non return valve conforming to IS 778 and tested to a pressure not less than 15 Kg/Sqcm, Including rubber gasket, flanges, union, nuts, bolts & washers complete as required etc complete and as directed by Engineer in Charge. 50 mm dia	Each	2.00	₹ 5,255.29	₹ 10,510.58
73	Providing, fixing, testing & commissioning of wafer end type cast iron butterfly valves conforming to IS : 13095 & BS : 5155 PN 10.00 (10.00 Kg/cm) pressure rating (including flanges) etc complete and as directed by Engineer in Charge. 50 mm dia.	Each	2.00	₹ 4,706.07	₹ 9,412.14
74	Providing, fixing , testing and commissioning water meter with direct reading dial in KL with all necessary fitting such as threaded pieces, unions pressure gauge, isolation cock, flanges piece for future removal, flanges / unions complete with all necessary testing charges and obtaining test certificates from municipal authorities, on following size pipe lines (1 no. strainer shall be provided at inlet & outlet and cost shall be inclusive for the same). The meter shall comply to ISO 4064 standard, feasible for class B or Class A installation etc complete and as directed by Engineer in Charge. 50 mm nominal bore	Each	2.00	₹ 3,033.64	₹ 6,067.28
75	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized PVC pipes conforming to IS: 4984/2016 of the following outside dia for Pressure rating PN-6 including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer in charge. 100 mm diameter	m	150.00	₹ 1,268.00	₹ 1,90,200.00

76	150 mm diameter	m	150.00	₹ 2,062.10	₹ 3,09,315.00
77	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	6.00	₹ 2,991.29	₹ 17,947.74
78	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 300 mm dia. R.C.C. Pipe	m	25.00	₹ 796.69	₹ 19,917.25
79	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	30.00	₹ 15,009.12	₹ 4,50,273.60
80	Supply, Fixing, testing & Commissioning of 2 Nos. Monoblock Centrifugal Pump (One working & one standby) for pumping water from UG sump to the OHT. The rate quoted shall be inclusive of: Suitable control panel indoor wall mounting type . Industrial type electronic liquid level controllers with stainless steel probes / sensors or float switch for automatic operation. 2nos. cast iron lever operated slim seal type butterfly valves of CI body and spheroidal graphite iron disc (SG iron),with nitrile rubber seal,	Set	2.00	₹ 55,000.00	₹ 1,10,000.00
81	Supplying all materials, labour, T&P and providing fitting and fixing (Aqua guard) Pure Chill 80 PSS UV of size 750x570x1350mm height with water storage capacity 80 liters along with 2 nos of faucets 1 for cold water and 1 for normal water including a flow of 1.5 ltr per minute etc all complete as per approved drawing,specification and direction of the Engineer in charge. Aquaguard Cooler - Cum Purifier	Each	2.00	₹ 1,12,242.00	₹ 2,24,484.00
82	Construction of 20000 Liters RCC Over head Tank of Inside size- 6.00 X 3.00 X1.50m(In Third floor) Supplying all materials, labour,T&P and providing cement concrete (1:1.5:3) for RCC work using 12mm HG chips including hoisting,laying,curing and conveyance of all materials to site etc complete.	Cum	16.76	₹ 8,987.90	₹ 1,50,637.20
83	Supplying Cutting, straightening coiled or bent up M.S. Rod or tor steel of primary steel producers such as SAIL / TATA / RINL / JINDAL STEEL / SHYAM STEEL (grade Fe-500D) etc. including bending, binding, welding and jointing if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors with labour cess etc. (payment will be made on standard weight of B.I.S. for M.S. Rods or tor steel only) etc. complete as per specification & direction of Engineer-in-charge.	Qtl	16.76	₹ 9,136.53	₹ 1,53,128.25

84	Supplying all materials, labour, T&P and providing rigid and smooth centering and shuttering for RCC work including false work and dismantling then after casting including cost of materials complete in ground floor. RCC floor roof, chajja etc	sqm	46.25	₹ 883.90	₹ 40,880.38
85	RCC Beam, Column, wall etc	sqm	92.45	₹ 1,465.30	₹ 1,35,466.99
86	Supplying all materials, labour, T&P and providing 6mm thick cement plaster (1:4) over CC work including watering curring and conveyance of all materials to site.	sqm	52.20	₹ 182.30	₹ 9,516.06
87	Supplying all materials, labour, T&P and providing cement punning including watering, curring and conveyance of all materials to site.	sqm	52.20	₹ 36.30	₹ 1,894.86
88	Providing fitting and fixing stainless steel (304 Grade) ladder including fixing to wall necessary welding etc. complete	Kg	80	₹ 323.70	₹ 25,896.00
89	Providing fitting and fixing GI cover made out of GI angle and sheet duly welding and fixing with frame and hinges along with locking arrangement of size 60cmx60cm etc complete as per direction of Engineer-in-charge	Kg	60	₹ 145.00	₹ 8,700.00
	Total	B			3145980.71

Electricals Items

A		Sub-Head I (modular Wiring Items)				
90		Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked Make-Finolex/Anchor/Polycab/HAVELLS/RR KABLE/KEI or equivalent reputed make A category ISI marked as approved with 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked Make-AGK/Anchor/Havells or equivalent reputed make A category ISI marked as approved 6A modular type (false retradant type) switch ISI marked Make-Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, and ceiling rose ISI marked Make- Anchor/Havells of modular type G.I box with metallic cover plate (both side) (false retradant type) Make-Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision)or equivalent reputed make & model A category ISI marked as approved of suitable size, modular box with 1.5 sq. Mm FRLSH PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. CATAGORY AS FOLLOWS ,complete suitable for Residence. All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials				
a)	1.1 MODULAR	GROUP-A	Nos	310	544.00	1,68,640.00
a-1)	1.1.1 M	GROUP-B	Nos	195	771.00	1,50,345.00
a-2)	1.1.2 M	GROUP-C	Nos	70	1054.00	73,780.00

b)	<p>Group control of point in Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked Make- Make- Finolex/Anchor/Polycab/HAVELLS or equivalent reputed make A category ISI marked as approved as approved 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked Make- AKG/Anchor/Kinjal or equivalent reputed make A category ISI marked as approved with 6A modular type((flame retardant type)) switch ISI marked Make- Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, and ceiling rose ISI marked Make- Schneider(Zencelo)/legrand(myrius) /Panasonic (Equivalent model) or equivalent reputed make & model A category ISI marked as approved of modular type G.I box with metallic cover plate (both side) flame retardant type) Make- Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. CATEGORY AS FOLLOWS ,complete suitable for Residence.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after</p>	Nos	112	993.00	1,11,216.00
91	<p>Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)((flame retardant type)) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. Make- Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, complete suitable for for Salaine area.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.</p>	Nos	50	192.00	9,600.00
92	<p>Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge..Make- Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent make & model ISI marked as approved , complete suitable for Residence.(Maximum 02 nos point in one circuit).All the switches & sockets should be warrantied for a period of 10 years against manufacturing defects against which necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.</p>	Nos	20	501.00	10,020.00
93	<p>Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type)((flame retardant type)) with suitable size modular box & cover(flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.. Make- Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make A category ISI marked as approved, (For equipment power)All the switches & sockets should be warrantied for a replacement period of 10 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.</p>	Nos	30	638.00	19,140.00

94		Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLSH/LSZH insulated, copper conductor, single core cable (Finolex/Anchor/Polycab/ HAVELLS/RR KEBLE) or equivalent reputed make A category ISI marked as approved, in recessed PVC conduit Heavy duty FRLS of mentioned size (AKG/Anchor/Kinjal or equivalent ISI marked as approved) as required as per direction of Engg.-in-Charge. Necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for				
a)		2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty flexible conduit (LDB to LSB/LIGHT CKT)(2X1.5+1X1.5)	Mtr	546	127.00	69,342.00
b)		2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit.(BDB to LSB/LIGHT CKT/5A PLUG/INVERTER POINT TO EACH QTR) (2X2.5+1X1.5)	Mtr	1220	141.00	1,72,020.00
c)		4 nos single core 2.5 sq. mm copper wire for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty flexible conduit(LDB to LSB/5A SOCKET) (4X2.5+2X2.5)	Mtr	1220	258.00	3,14,760.00
d)		2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit .(PDB to PSB/ GAYSER POINT/AC POINT/ROOM LIGHT CONTROL TO CORRIDOOR POINT/DG PANEL ESSENTIAL LOAD) (2X4+1X1.5)	Mtr	504	158.00	79,632.00
e)		4 nos single core 4 sq. mm copper wire for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(PDB to PSB/GAYSER. POINT/AC POINT/DG PANEL ACCL TO EACH QTR ESSENTIAL LOAD) (4X4+2X2.5)	Mtr	532	241.00	1,28,212.00
f)		2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty flexible conduit .(LFDB TO LBDB) (2X6+1X2.5)	Mtr	364	189.00	68,796.00
g)		4 nos single core 6 sq. mm copper wire for phase and neutral and 02 nos of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(LFDB TO LBDB/power unit/point) (4X6+2X2.5)	Mtr	252	287.00	72,324.00
h)		4 nos single core 10 sq. mm copper wire for phase and neutral and 02 nos of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit .(LFDB TO FLOOR PANEL TO TPN BDB light) (4X10+2X4)	Mtr	420	414.00	1,73,880.00
i)		4 nos single core 16 sq. mm copper wire for phase and neutral and 02 nos of single core 10 sq. mm copper wire for earth continuity conductor in 40 mm dia non metallic heavy duty flexible conduit.(FLOOR PANEL TO TPN BDB power) (4X16+2X10)	Mtr	308	622.00	1,91,576.00

95		Supplying and fixing 32 amps, 415 volts, TPN, industrial type socket outlet, with 4 pole and earth metal enclosed plug top along with 32 amps. C-series, TP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. . Equievalant higher model of Make- Legrand/Schneider/Siemens/panasonic equievalant reputed make & model A catagory ISI marked as approved.All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	24	4,301.00	1,03,224.00
96		Supplying and fixing following size/ modules, GI box along with modular base & metallic cover plate (both side) plate for modular switches in recess etc as required as per direction of Engg.-in-Charge. MAKE- Legrand/Siemens/Anchor/Panasonic/ Schneider or equievalant reputed make & model A catagory ISI marked as approved .All the Components should be warrantied for a replacement period of 1years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.				
a)		4 moudle(125mmx75mm)	Nos	126	262.00	33,012.00
b)		1 moudle(75mmx75mm)	Nos	116	215.00	24,940.00
c)		12 moudle(200mmx150mm)	Nos	116	477.00	55,332.00
97		Supplying and fixing of following sizes of medium class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge .MAKE KINJAL/ AKG/Anchor or equievalant reputed make A catagory ISI marked as approved				
a)		20 MM	mtrs	182	93.00	16,926.00
b)		25 MM	mtrs	132	95.00	12,540.00
98		Supply and fixing modular type indicator on the existing switch box/cover . Equievalant higher model of Schneider/Hager/Siemens/Anchor/Panasonic make or equievalant reputed make & model A catagory ISI marked as approved as required as per direction of Engg.-in-Charge.All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials	Nos	78	105.00	8,190.00
99		Supplying and installation of AC starter Modular type, Equievalant higher model of Schneider/Hager/Siemens/Anchor/Panasonic make or equievalant reputed make & model A catagory ISI marked as approved coil voltage-415 Volt A.C. & O/L range of 9-14A range on mod Box of suitable size including modular coveras required as per direction of Engg.-in-Charge .All the Components should be warrantied for a replacement period of 5 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	18	617.00	11,106.00
100	MARKET RATE	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover. Equievalant higher model of Schneider/Hager/Siemens/Anchor/Panasonic make or equievalant reputed make & model A catagory ISI marked as approved .as required as per direction of Engg.-in-Charge.All the Components should be warrantied for a replacement period of1 years against defects with necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of	Nos	10	203.00	2,030.00

101	MARKET RATE	S/F of Bakelite angle holder/batten holder (make-Anchor/Havells/Panasonic or equivalent reputed make A category ISI marked as approved) of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge. All the Components should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	EACH	50	58.00	2,900.00
102		Supplying,fixing of Blanking plate(modular type)(false retradant type)) in existing switch box(anti bacterial & false retradant type) including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge..Make-Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision), complete suitable for Salaine area.It should be warranted for a period of 10 years against manufacturing defects against which necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free aftersales service within warranty period for acceptance of materials.	Nos	138	42.00	5,796.00
B		Sub-Head II (Light fitting Fixture & Fan)				
103		Supplying, installation, of exhaust fan of heavy duty 300 mm sweep (Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha/Halonix or equivalent reputed make & model A category ISI marked as approved) of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.	Nos	10	3,056.00	30,560.00
104		Supplying, installation, of exhaust fan of heavy duty 380 mm sweep 1400 rpm with louvers Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha/Halonix or equivalent reputed make & model A category ISI marked as approved) of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.	Nos	12	3,606.00	43,272.00
105		Supplying, installation, testing and commissioning of Air Circulator 16inch (400mm) wall mounting Fan Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha/Halonix or equivalent reputed make & model A category ISI marked as approved) including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.(With fan Regulator) as required as per direction of Engg.-in-Charge.Replacement Warranty will be 1years.	Nos	30	6,788.00	2,03,640.00
105		Supplying, installation, testing and commissioning of 450mm silent operation 3blade wall fan Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha /Halonix or equivalent reputed make & model A category ISI marked as approved) including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge,Replacement Warranty will be 1 years..(With fan Regulator)	Nos	40	1,999.00	79,960.00

106	Supplying and fixing of Energy efficient surface mounted square shape 18 W LED luminaire of dimension of 225x 225 x 35 mm consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 20 watt and lumen output of 1500 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 2.5 KV, L70 B50: 30000 hrs (2 yrs warranty) and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. (Make : (Make: wipro LD80-171-60-XX-SM or similar model of LT/Trilux /Philips/Panasonic/HALONIX or equivalent reputed make & model A category ISI marked as approved).The luminaire should be Replacement Warranty will be 5 years	Nos	176	1969.00	3,46,544.00
107	Supplying and fixing of Energy efficient recess mounted LED luminaire with white powder coated ,pressure die-cast Al housing ,with high transmittivity,non-yellowing PMMA diffuser, with wattage not more than 18 watt and lumen output not less than 2600 Lumen (120 lumens/watt) of size 595 x595 x 70 mm , ,CRI not less than 80,CCT of 5700-6500 degree K,THD less than 10%, with Non integrated isolated driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation), all other accessories , life : 50,000 burning hours (5 years warranty) , Internal surge protection of 3 KV suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge. (Make: wipro LDB1-171-XXX-60-SM or similar model of LT/Trilux /Philips/Panasonic/HALONIX or equivalent reputed make & model A category ISI marked as approved.) The luminaire should be Replacement	Nos	20	1815.00	36,300.00
108	SITC of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 5 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. ((Make: wipro LL20-221 --or similar model of LT/Trilux /Philips/Panasonic/HALONIX or equivalent reputed make & model A category ISI marked as approved.). The luminaire should be Replacement Warranty will be 5 years	Nos	150	791.00	1,18,650.00
109	SITC of Sleek LED 10-12 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessoriesetc, directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. (Make : WIPRO Model No:LL20-111-XXX-60-NE or similar model of PHILIPS/Panasonic/HALONIX or equivalent reputed make & model A category ISI marked as approved.)The luminaire should be Replacement Warranty will be 5 years	Nos	30	726.00	21,780.00
110	SITC of IP 20 Non-integral flexible LED strip light,High optically efficient diffuser,, 3000K with 12 w/mtr @ 5Mtr pool with Driver extra as required as per direction of Engg.-in-Charge (Make : (Make: wipro LS06-005-120---or similar model of LT/Trilux /Philips/Panasonic or equivalent or similar model of /PHILIPS/Wipro/HALONIX or equivalent reputed make & model A category ISI marked as approved.)The luminaire should be Replacement Warranty will be 1 years	Nos	25	1958.00	48,950.00
111	Supplying and fixing of small focus light for small monuments as 10W . 4000 K required as per direction of Engg.-in-Charge (Make: wiproLD98-900----or similar model of LT/Trilux /Philips/Panasonic/HALONIX or equivalent reputed make & model A category ISI marked as approved.)The luminaire should be Replacement Warranty will be 1 year	Nos	25	1366.00	34,150.00

112		Supplying and fixing of step light for gallery STEP as 3W . 2000 K required as per direction of Engg.-in-Charge (Make: wipro LT51 -370-XXX-30-XX or similar model of LT/Trilux /Philips/Panasonic or equivalent reputed make & model A category ISI marked as approved.)The luminaire should be Replacement Warranty will be 5 years	Nos	25	1797.00	44,925.00
113		Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as per direction of Engg.-in-Charge . (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)of ISI mark	Nos	40	31.00	1,240.00
c)		BDBS,DB,AC DB,FLOOR PANELS,MCBS				
114		Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar. Make-LEGRAND-Ekinox3 DB/ Siemens-Betguard/ Schneider- Acti 9/Panasonic(Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 5 years				
a)		4 Way(8+12) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door(FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD) Warranty on DB is 2 years. make legrade/L&T/Anchor	Nos	20	2,157.00	43,140.00
b)		Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but with out MCB/ RCCB/ Isolator) (ALL LIGHT WITH CORRIDOOR/Common Area,EM LIGHT,UPS LOAD, EM LOAD LIGHT LOAD,POWER LOAD) make legrade/L&T/Anchor	Nos	20	1,895.00	37,900.00
c)		2+4 way MCB Enclosure DB (GLAZED door)(only each EM CONNECTION UPS LOAD)	Nos	20	1,623.00	32,460.00
115		Supplying and fixing 20 amps rating, 240 volts, C series, Double poles MCB of Make-LEGRAND-Ekinox3 DB/ Siemens Betguard/ Schneider- Acti 9/L&T (Equivalent model)/Panasonic(Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 5 years .MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault.Warranty on	Nos	20	331.00	6,620.00

116	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, single poles MCB of Make-LEGRAND-Ekinox3 DB/ Siemens-Betguard/ Schneider- Acti 9/L&T (Equivalent model)/Panasonic(Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved. the existing MCB DB complete with connections as per direction of Engg-in-Charge. The MCB should be Replacement Warranty will be 5 years.MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault.Warranty on	Nos	150	130.00	19,500.00
117	Supplying and fixing 25Amps DP 240 volts, RCCB,300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABBor equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg-in-Charge. The RCCB should be Replacement Warranty will be 5 years	Nos	20	1,684.00	33,680.00
118	Supplying and fixing 40Amps DP 240 volts, RCCB,300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg-in-Charge. The RCCB should be Replacement Warranty will be 1 years	Nos	37	1,921.00	71,077.00
119	Supplying and fixing 63Amps TPN 415 volts, RCCB,300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg-in-Charge.(for power BDB & AC ODU, 8 way TPN BDB IC).The RCCB should be Replacement Warranty will be 1 years	Nos	38	2,634.00	1,00,092.00
D	(Earthing) INSTALLATION				
120	SITC of materials and installation of pipe earth electrode made out of 50mm dia class B G.I. pipe of 3.0 metre long with arrangements for fitting/ termination of G.I. flat / wire with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.The entire earthing system should be Replacement Warranty will be 5 years	Nos	12	2,453.00	29,436.00
121	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required.as per direction of Engg-in-Charge.	Mtr	78	93.00	7,254.00
122	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg-in-Charge.	Mtr	66	515.00	33,990.00
123	Providing and fixing 50mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg-in-Charge.	Mtr	14	958.00	13,412.00
124	Supplying and making brick masonry pedestal with extra super structure including cement plastering etc as required as per direction of Engg-in-Charge.	Mtr	8	2,500.00	20,000.00
E	CABLING AND END TERMINATION MAIN AREA				
125	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL conductor power cable of 1.1 KV grade POLYCAB/HAVELLS/Finolex or equivalent reputed make ISI marked as approved of following size cables as per direction of Engg-in-Charge. Necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of				
a)	3.5core x 240 sq mm (for main 01 no)	Mtr	120	1,409.00	1,69,080.00

b)		3.5 core x 185 sq mm (DG)	Mtr	96	1,174.00	1,12,704.00
c)		4 core x 70 sq mm (for small power/LIGHT TO FOCUS)	Mtr	80	552.00	44,160.00
126		LAYING OF CABLE				
a		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	38	125.00	4,750.00
b		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand coushing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	Mtr	88	140.00	12,320.00
c)		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	25	40.00	1,000.00
d		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	25	54.00	1,350.00
e		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in open duct etc as required as per direction of Engg.-in -charge.	Mtr	22	32.00	704.00
f		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	Mtr	22	43.00	946.00
g)		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	22	77.00	1,694.00
i)		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 120 SQ. MM From 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	38	123.00	4,674.00
j		Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 400 SQ. MM From 120 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	Mtr	38	126.00	4,788.00
127		Supplying and making end termination with brass compression gland and aluminium lugs for following mentioned size cable.as per direction of Engg.-in-Charge.				
a)		4 core x16sq mm	Nos	10	190.00	1,900.00
b)		3.5 core x70 sq mm	Nos	10	383.00	3,830.00
128		Providing,fixing and laying of fallowing dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth)and refilling as per direction of				
a)		50 mm dia	mtrs	16	408.00	6,528.00
129		Providing,fixing and laying of fallowing dia HDPE pipe (medium class) in ground complete with fitting incl. trenching(75 mm depth)and refilling as per direction of Engg.-in-Charge.				
a)		100 mm dia	mtrs	28	397.00	11,116.00
F		PANELS				
		MAIN PANEL				
130		S/I/T&Commissioning of LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & pented by simens gray powder cote paint is designed as G.A drawing as per direction of Engg.-in-Charge. Warrentee period of replacement of panel & accessories must be 1 years & compelete test certificate must be submitted along with panel board including component list.	Set	1	5,74,000.00	5,74,000.00
		In commer- 01 number of 400 Amps 4P MCCB with Rom & sprader link.25 kA. (make- ABB/Siemens/SCHNEIDER/L&T/Legrand, ISI marked)(Icu=100%Ics)with shunt trip.with axulary for BMS				

		In commer DG- 01 number of 63 Amps 4P MCCB with Rom				
		Busbar- 04 numbers of 630Amps Electrolytic copper				
		Busbar DG - 04 numbers of 630 Amps Electrolytic copper				
		Out going- (ii) 160A 4P MCB 2 NOS FOR POWER BDB				
		Out going- (ii) 63A 4P MCB 6 NOS FOR POWER BDB GF,FDB				
		Out going- (iii) 04 nos 32A 4P MCB LIGHT BDB AC IDU				
		BDB/LIGHT BDB,LIFT,WATER,solar(Legrand/Schneider				
		Out going- (iv) 04 nos 32A 2P MCB LIGHT BDB				
		Instrument- (i) 09 numbers phase indicating lamp with				
		(ii) 01 set of digital type multifunction meter with CT for				
		(iii) 04 nos of 70kA SP VSD WITH 32A SP MCB				
131		HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 200mm(W), of Legrand - Cablofil make or equievalant reputed make & model A catogory, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrentee period oftray must be 1 years & compelete test certificate must be submitted .	mtrs	44	595.00	26,180.00

132		HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461	mtrs	70	690.00	48,300.00
133		HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 . CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 400mm(W), of Legrand - Cablofil make or equivalent reputed make & model A category, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories,bend,cover,supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg-in-Charge. Warrentee period	mtrs	70	913.00	63,910.00
H		AC for Conference hall				
134		Supply installation testing & commissioning of 3 ton 3 phase cassette AC machine complete with inner and outer units to be installed at roof top .Make- Carrier/blue star /Daikin/LG	nos	14	150000.00	21,00,000.00
134		SITC of 200Amp 4 pole MCCB with outgoing 63 Amp 4 pole	job	1	200000.00	2,00,000.00
I		AC for Dainnig hall				
135		Supply installation testing & commissioning of 2 ton Split AC machine complete with inner and outer units .Make- Carrier/blue star /Daikin/LG	nos	18	37,554	6,75,972.00
136		SITC of 200Amp 4 pole MCCB with outgoing 63 Amp 4 pole	job	1	2,00,000	2,00,000.00
J		Lift				
137		SITC of G+3 ,16 Passenger Bed Cum passenger lift with Autodoor close system S.S body complete with ARD .Make - OTIS/Thyssen Krupp /Schnider	Nos	2	26,50,000.00	53,00,000.00
138		MDB Lift 1 No-Incomer 163A 3 P +NL MCCB (25KA) (25KA) with adjustable thermal setting .Bus bar :4 nos .25 x 4 mm EC strips outgoing : 3 nos 63A MCB 'c' 4pole 10 KA with all required accessories .	Set	1	47,000.00	47,000.00
139		DB Lift 1 No-Incomer 63A 4 P +NL MCCB (25KA) (25KA) with adjustable thermal setting .Bus bar :4 nos .25 x 4 mm EC strips outgoing : 3 nos 40A MCB 'c' 10 KA Out going 1 no 63 A RCCB 300ma with all required accessories .	Set	2	33,000	66,000.00
140		Supply installation ,testing & commissioning of 250KVA 11/4 KV copper wound compact substation complete with 11KV UG cable from RMU & 4 no 400Amp 4pole MCCB on L.T side with 300 sq mm x 3 .5 core XLPE 1.1KV grade LT cable with plinth mount Sub Station.Make-Schinder /ABB	Set	1	35,00,000	35,00,000.00
141		SITC of 160KVA DG set with AMF pannel complete with electrical Pannel .Make -Jakson/Kirloskar/Mahindra	Set	1	16,00,000	16,00,000.00
M		(LIGHTENING CONDUCTOR)				
142		AIR TERMINAL & ACCESSORRIES LIGHTNING	NOS	9	372.00	3348.00

143	Reveting, sweating and soldering of copper tape (with another copper tape, base of the finial or any other metallic object) as required .as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.4) The entire LA system should be Replacement Warranty will be 1years	mtrs	98	136.00	13328.00
144	Providing and fixing of copper. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run) as per direction of Engg.-in-Charge.(RATE REFERING OSR 2018 SOR NO-4.7) The entire LA system should be Replacement Warranty will be 1years	mtrs	96	57.00	5472.00
145	Providing and fixing of copper tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For virtical run) as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.8) The entire LA system should be Replacement Warranty will be 1 years	mtrs	66	94.00	6204.00
146	Providing and fixing of testing joint, made of 20 mm x 3 mm thick copper strip, 125 long with 4 nos of S.S bolts, check nuts and spring washer etc complete as required as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.12) The entire LA system should be Replacement Warranty will be 1 years	Each	10	62.00	620.00
147	Providing and laying ofcopper tape 32 mm x 6 mm from earth electrode directly in ground as required as per direction of Engg.-in-Charge. .(RATE REFERING OSR 2018 SOR NO-4.14) The entire LA system should be Replacement Warranty will be 1 years	mtrs	18	91.00	1638.00
148	Maintenance free Safe Earthing Electrodes with ISI G.I. pipe dia 75mm as Secondary electrode with wall thickness of 2.6 mm and the Primary Earthing Electrode will be 50mm X 6mm X 1no M.S. hot dipped galvanized strip filled with a highly conductive & non-corrosive compound in between the Primary Earthing and the secondary Earthing, the Surface Area in will be 7,06,500sqmm for 3mtrs length and Cross Sectional Primary conducting area is 300 sq.mm. An Solid G.I. Base plat seals the unit at the bottom. as per direction of Engg.-in-Charge. (MES-GFC ground Filling compound will be provided in 25 kgs Bags.)(MES-GFC ground Filling compound will be provided in 25 kgs Bags.)(2 bags required for each earthing electrode.)(FOR lightening protection & Building Electrification).The entire earthing system should be Replacement Warranty will be 5 years.Make-OBO/Star-x/ABB or equievalant reputed make & model A catogory.	SET	9	13957.00	125613.00
(N)	DETAIL ELECTRICAL ESTIMATE FOR PROVIDING EXTERNAL ELECTRICAL WITH ILLUMINATION				
	LIGHT SYSTEM				
149	Supplying and fixing of small focus light for External as 6-8W , 4000 K required as per direction of Engg.-in-Charge (Make: wipro----or similar model of LT/Trilux /Philips/Panasonic/HALONIX or equievalant reputed make & model A catagory ISI marked as approved.)The luminaire should be Replacement Warranty will be 5 years	Sets	16	3233.00	51728.00
150	Supplying ,installation & fixing of 11W, High efficient LED with extruded Aluminium housing with PC diffuser.CRI>70, IP65, CCT - 6500K, Ambient temp-0 to 45DegC, Driver efficiency>80%,THD<25%, Powerfactor>0.9, Surge protection-2 kV, Multistage Isolated Constant Current-Constant Voltage driver and Safety Extra Low Voltage Safe level<60V DC as per IEC standard. Luminaire lumen ≥ 565 lumens (51 lm/W). Similar to Wipro Make LB12-131-XXX-65-05 or equivalent Philips/ LT/Trilux make. including with foundation as per the Drawing for inspection as required & as per direction of Engg.-in-Charge.	Sets	10	6458.00	64580.00

151	Supply of materials and installation of pipe earth electrode made out of 50mm dia class B G.I. pipe of 3.0 metre long with arrangements for fitting/ termination of G.I. flat / wire with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge. The entire earthing system should be Replacement Warranty will be 1 years	Nos	6	2453.00	14718.00
152	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required as per direction of Engg.-in-Charge.	Mtr	84	93.00	7812.00
	CABLING, BOX				
153	S/L/T&Commissioning of LT OUT DOOR FLOOR mounted cubical type MCB ENCLOSURE made out by 2mm CRCA steel sheet duly derusted & pented by simens gray powder cote paint is designed as G.A drawing. (FOR USE) with 20A TPN MCB 01 NOLegrand/Schneider/L&T/ABB or equivalent make & model as per direction of Engg.-in-Charge. Necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period 2 years of acceptance of materials	Set	3	2044.00	6132.00
154	Supplying, laying of 3cx2.5 sq.mm copper flexible cable with insulated cover of reputed make, ISI marked with all other concerned materials as per direction of Engg.-in-Charge. Necessary test report & Warrnaty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials	mtrs	66	103.00	6798.00
	Total	C			18638708.00
	Total A+B+C				61234792.66
	Say				61234793.00

Total in words

(Rupees Six Crore Twelve Lakh Thirty Four Thousand Seven Hundred Ninety Three) only for Total 156 (one hundred fifty four) items only

I do offer my rate% in words (.....%) Less/Excess then than/ over the estimated cost of ₹

percentage of Excess/ Less

Tender amount

GST extra

No. of correction.....

No. of over writting.....

No. of interpretation.....

Approved

OSD (Development)
Shree Jagannath Temple

Issued to Sri....., Contractor vide M.R.No.....dtd.....