COCHIN PORT AUTHORITY

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Tender No: T1/T-2079/2026-C(PRICE BID)

Name of Work :REMODELING OF NEW ADMINISTRATIVE BUILDING AT COCHIN PORT AUTHORITY

SCHEDULE – "II"- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT

Name and Address of the Vendor:

Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
	CIVIL WORKS						
1	**Demolishing cement concrete** manually/ by mechanical means including disposal of material to the nearest engineering site as per direction of Engineer - in - charge .Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	6.14	1,673.82	Rupees One Thousand Six Hundred Seventy Three and Eighty Two Paise Only	**10277.25**	Rupees Ten Thousand Two Hundred Seventy Seven and Twenty Five Paise Only
2	**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 - incharge.	Cum	10.57	3,953.28	Rupees Three Thousand Nine Hundred Fifty Three and Twenty Eight Paise Only	**41786.17**	Rupees Forty One Thousand Seven Hundred Eighty Six and Sixteen Paise Only
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.In cement mortar	Cum	215.65	2,293.43	Rupees Two Thousand Two Hundred Ninety Three and Forty Three Paise Only	**494578.18**	Rupees Four Lakh Ninety Four Thousand Five Hundred Seventy Eight and Seventeen Paise Only
4	**Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling** including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	2817.30	62.73	Rupees Sixty Two and Seventy Three Paise Only	**176729.23**	Rupees One Lakh Seventy Six Thousand Seven Hundred Twenty Nine and Twenty Two Paise Only
5	**Dismantling steel work** manually / by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per directions of Engineer -in-Charge	Kg	3169.63	4.29	Rupees Four and Twenty Nine Paise Only	**13597.71**	Rupees Thirteen Thousand Five Hundred Ninety Seven and Seventy One Paise Only
6	**Dismantling tile work** in floors and **roofs** laid in cement mortar including stacking material within 50 metres lead	Sqm	1523.75	81.71	Rupees Eighty One and Seventy One Paise Only	**124505.61**	Rupees One Lakh Twenty Four Thousand Five Hundred Five and Sixty One Paise Only
7	Taking out doors, windows and clerestory window shutters (steel or wood) including chowkhats,architrave,hold fast,etc complete and stacking within 50 metres lead: Of area 3 sq. metes and below	Each	321.00	408.77	Rupees Four Hundred Eight and Seventy Seven Paise Only	**131215.17**	Rupees One Lakh Thirty One Thousand Two Hundred Fifteen and Seventeen Paise Only
8	**Dismantling stone slab flooring** laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. Note: This item includes skirting and Dado also	Sqm	2948.01	296.61	Rupees Two Hundred Ninety Six and Sixty One Paise Only	**874409.25**	Rupees Eight Lakh Seventy Four Thousand Four Hundred Nine and Twenty Four Paise Only
	NOTE: The above mentioned demolishing/dismantling items are intented for all floors up to 8th floor (For details Tender Document - Part A, Instructions to Tender,Section I						
9	**Disposal of moorum**/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	Cum	883.91	293.83	Rupees Two Hundred Ninety Three and Eighty Three Paise Only	**259719.28**	Rupees Two Lakh Fifty Nine Thousand Seven Hundred Nineteen and Twenty Seven Paise Only
B	**PLAIN CEMENT CONCRETE WORK**						
10	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	27.96	10,365.54	Rupees Ten Thousand Three Hundred Sixty Five and Fifty Four Paise Only	**289820.50**	Rupees Two Lakh Eighty Nine Thousand Eight Hundred Twenty and Forty Nine Paise Only
11	Providing and laying in **sunken in all floors with** autoclaved aerated cement brick bats filling with cement concrete 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size) , including all cost and conveyance of all materials, labour charges etc. complete at all levels as directed by Engineer-in-charge	Cum	27.96	7534.55	Rupees Seven Thousand Five Hundred Thirty Four and Fifty Five Paise Only	**210666.02**	Rupees Two Lakh Ten Thousand Six Hundred Sixty Six and One Paise Only
12	Providing and laying in position **cement concrete** of specified grade excluding the cost of centering and shuttering in all floors with all lifts and lead - : 1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 6 mm nominal size) **(screeding)**	Cum	109.26	7513.83	Rupees Seven Thousand Five Hundred Thirteen and Eighty Three Paise Only	**820961.07**	Rupees Eight Lakh Twenty Thousand Nine Hundred Sixty One and Six Paise Only
C	**REINFORCED CONCRETE WORKS**						
13	Providing and laying in position machine batched and machine mixed design mix **M-25 grade cement concrete** for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying, admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability but excluding the cost of centering, shuttering and reinforcement, as per direction of Engineer-in-charge. Note :- Note:- Minimum Cement content to be used in this item is @ 350 kg/ cum. No payment will be made for excess cement used as per design mix All works above plinth level upto floor V level	Cum	10.43	10,976.69	Rupees Ten Thousand Nine Hundred Seventy Six and Sixty Nine Paise Only	**114486.88**	Rupees One Lakh Fourteen Thousand Four Hundred Eighty Six and Eighty Seven Paise Only

14	Providing and laying in position machine batched and machine mixed design mix **M-30 grade cement concrete** for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Minimum Cement content to be used in this item is @ 380 kg/ cum. No payment will be made for excess cement used as per design mix .All works above plinth level upto floor V level	cum	46.62	11,144.73	Rupees Eleven Thousand One Hundred Forty Four and Seventy Three Paise Only	**519567.31**	Rupees Five Lakh Nineteen Thousand Five Hundred Sixty Seven and Thirty One Paise Only
D	**FORM WORK**						
15	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	323.11	819.76	Rupees Eight Hundred Nineteen and Seventy Six Paise Only	**264872.65**	Rupees Two Lakh Sixty Four Thousand Eight Hundred Seventy Two and Sixty Five Paise Only
16	Centering and shuttering including strutting, propping etc. and removal of form for :Suspended floors, roofs, landings, balconies and access platform	Sqm	126.00	1,032.22	Rupees One Thousand Thirty Two and Twenty Two Paise Only	**130059.72**	Rupees One Lakh Thirty Thousand Fifty Nine and Seventy Two Paise Only
E	**STEEL REINFORCEMENT**						
17	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level.Thermo - Mechanically Treated bars of grade Fe-500D or more	Kg	8029.02	120.06	Rupees One Hundred Twenty and Six Paise Only	**963964.14**	Rupees Nine Lakh Sixty Three Thousand Nine Hundred Sixty Four and Fourteen Paise Only
F	**MASONRY WORKS**						
18	Providing and laying factory made **Precast concrete solid blocks** of 200 mm thickness of grade M10 in superstructure above plinth. Cement mortar 1:6 (1 cement : 6 coarse sand) level up to floor V level	Cum	60.78	10,959.16	Rupees Ten Thousand Nine Hundred Fifty Nine and Sixteen Paise Only	**666097.74**	Rupees Six Lakh Sixty Six Thousand Ninety Seven and Seventy Four Paise Only
19	Solid block masonry using **pre cast solid blocks** (Factory made) of size 30x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure above floor five level upto eighth floor thickness 20cm and above in : CM 1:6 (1 cement : 6 coarse sand) etc complete	Cum	47.86	11,482.00	Rupees Eleven Thousand Four Hundred Eighty Two Only	**549528.52**	Rupees Five Lakh Forty Nine Thousand Five Hundred Twenty Eight and Fifty Two Paise Only
20	Providing and constructing **Solid concrete block masonry** M-10 grade in C.M1:6 (1cement, 6 coarse sand) with Solid blocks of 30x20x10 cm size or nearest and approved quality including scaffolding, raking out of joints,curing, cost and conveyance of all materials,labour, lead, lift, etc. complete for all types of masonry works in super structure (in all height) above the highest plinth level as directed by Engineer-in-Charge at all levels.	Cum	50.20	10148.69	Rupees Ten Thousand One Hundred Forty Eight and Sixty Nine Paise Only	**509464.24**	Rupees Five Lakh Nine Thousand Four Hundred Sixty Four and Twenty Three Paise Only
G	**JOINERY WORKS**						
21	Providing and fixing **Fiber Glass Reinforced plastic (FRP) Door** Frames of cross- section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminated shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.(Toilets)	Rm	113.71	635.59	Rupees Six Hundred Thirty Five and Fifty Nine Paise Only	**72272.94**	Rupees Seventy Two Thousand Two Hundred Seventy Two and Ninety Three Paise Only
22	Providing and fixing to existing **door frames.30 mm thick Fiberglass Reinforced Plastic (F.R.P) flush door shutter** in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used all filler material throughout the hollow panel, casted monoolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS : 14856, complete as per direction of Engineer-in-charge.	Sqm	44.32	4,997.14	Rupees Four Thousand Nine Hundred Ninety Seven and Fourteen Paise Only	**221473.24**	Rupees Two Lakh Twenty One Thousand Four Hundred Seventy Three and Twenty Four Paise Only
23	Supplying And Fixing a pair of **fire rated Solid SS Lever Handle and Mortise** Lock case with Cylinder of approved size and quality for 2 hr fire rated steel doors etc complete all works including all required fixtures as directed by Engineer in Charge.	Each	14.00	4469.00	Rupees Four Thousand Four Hundred Sixty Nine Only	**62566.00**	Rupees Sixty Two Thousand Five Hundred Sixty Six Only
24	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 100 mm	Each	21.00	119.22	Rupees One Hundred Nineteen and Twenty Two Paise Only	**2503.62**	Rupees Two Thousand Five Hundred Three and Sixty Two Paise Only
25	Providing and fixing **aluminium extruded** section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete	Nos	56.00	1,094.45	Rupees One Thousand Ninety Four and Forty Five Paise Only	**61289.20**	Rupees Sixty One Thousand Two Hundred Eighty Nine and Twenty Paise Only
26	Providing and fixing anodised **aluminium frame glazed door** with 8 mm thick clear toughened glass infill, including approved slim frame aluminium sections, necessary clips, seals, fittings and hardware such as door closer with slide channel and hold-open function, offset handle with narrow stile dead lock and door drop-down seal, finished in approved colour and texture, including anodizing ,complete as per architectural drawing and as directed by the Engineer-in-Charge.	sqm	210.92	33381.50	Rupees Thirty Three Thousand Three Hundred Eighty One and Fifty Paise Only	**7040825.98**	Rupees Seventy Lakh Forty Thousand Eight Hundred Twenty Five and Ninety Eight Paise Only

27	Providing and fixing factory-made **uPVC window systems** of varying sizes and configurations, including multi-panel sliding, fixed, casement , Louvered, or any combination thereof,, fabricated from multi-chamber uPVC profiles (min. 62 mm series) in white colour, internally reinforced with galvanized steel for rigidity. The system shall include outer frame (approx. 62 × 62 mm), sliding sash (approx. 42 × 84 mm), aluminium guide rail (10 mm), and H-type coupler as required. Each shutter shall be fitted with 10 mm clear toughened glass, mounted with EPDM gaskets, and shall slide smoothly on double-wheel adjustable rollers with groove. The window shall be provided with a multi-point locking system and white espag handles (without key). All corners shall be fusion-welded, and the installation shall include proper fixing with stainless-steel screws/anchor fasteners and sealing of all perimeter joints using weather-proof silicone sealant over a backer rod, complete in all **as per drawing** and as directed by the Engineer-in-Charge						
27(a)	Size: 1500 x 2000 mm (W1 - fixed + sliding window)	Sqm	12.00	15285.50	Rupees Fifteen Thousand Two Hundred Eighty Five and Fifty Paise Only	**183426.00**	Rupees One Lakh Eighty Three Thousand Four Hundred Twenty Six Only
27(b)	Size: 1000 x 2000 mm (W2 - fixed + sliding window)	Sqm	249.90	14390.50	Rupees Fourteen Thousand Three Hundred Ninety and Fifty Paise Only	**3596185.95**	Rupees Thirty Five Lakh Ninety Six Thousand One Hundred Eighty Five and Ninety Five Paise Only
27(c)	Size: 4000 x 2000 mm (W3 - fixed + sliding window)	Sqm	100.80	12890.50	Rupees Twelve Thousand Eight Hundred Ninety and Fifty Paise Only	**1299362.40**	Rupees Twelve Lakh Ninety Nine Thousand Three Hundred Sixty Two and Forty Paise Only
27(d)	Size: 2450 x 2000 mm (W4A - fixed + sliding window))	Sqm	10.29	13390.50	Rupees Thirteen Thousand Three Hundred Ninety and Fifty Paise Only	**137788.25**	Rupees One Lakh Thirty Seven Thousand Seven Hundred Eighty Eight and Twenty Four Paise Only
27(e)	Size: 2880 x 2000 mm (W4B - fixed + sliding window)	Sqm	12.10	13390.50	Rupees Thirteen Thousand Three Hundred Ninety and Fifty Paise Only	**162025.05**	Rupees One Lakh Sixty Two Thousand Twenty Five and Five Paise Only
27(f)	Size: 1770 x 2000 mm (W5A & W5B - fixed + sliding window)	Sqm	22.30	13390.50	Rupees Thirteen Thousand Three Hundred Ninety and Fifty Paise Only	**298608.15**	Rupees Two Lakh Ninety Eight Thousand Six Hundred Eight and Fifteen Paise Only
27(g)	Size: 2600 x 1000 mm (W6) (Openable/Fixed + louvered + louvered with exhaust provision)	Sqm	10.92	14390.50	Rupees Fourteen Thousand Three Hundred Ninety and Fifty Paise Only	**157144.26**	Rupees One Lakh Fifty Seven Thousand One Hundred Forty Four and Twenty Six Paise Only
27(h)	Size: 2250 x 2100 mm (Openable/fixed window for 3rd & Fourth Floor passage cooridoor)	Sqm	42.52	14390.50	Rupees Fourteen Thousand Three Hundred Ninety and Fifty Paise Only	**611884.06**	Rupees Six Lakh Eleven Thousand Eight Hundred Eighty Four and Six Paise Only
28	Providing and fixing factory-made U**PVC casement ventilator of overall size 1000 mm (W) × 900 mm** (H), fabricated from multi-chamber UPVC profiles (minimum 62 mm series), internally reinforced with galvanized steel for rigidity. The system shall include outer frame (approx. 62 × 62 mm), sash and mullion members (approx. 62 × 80 mm) with necessary reinforcements and accessories. The shutter shall be fitted with 8 mm toughened frosted glass, fixed with EPDM gaskets, and designed to open as per requirement. All corners shall be fusion-welded, and installation shall include proper fixing with stainless-steel screws/anchor fasteners and sealing of perimeter joints using weather-proof silicone sealant over backer rod, complete in all respects as per approved drawing and as directed by the Engineer-in-Charge. Size :1000X900 (V1 & V2 - Openable + louvered + fixed glass with exhaust provision)	Each	21.00	11855.00	Rupees Eleven Thousand Eight Hundred Fifty Five Only	**248955.00**	Rupees Two Lakh Forty Eight Thousand Nine Hundred Fifty Five Only
29	Providing and fixing factory-made **uPVC louver ventilator** of overall size 450 mm (W) × 600 mm (H), fabricated from multi-chamber uPVC profiles (minimum 62 mm series), internally reinforced with galvanized steel for rigidity.The system shall include outer frame (approx. 62 × 62 mm) and fixed/slanted uPVC louvers as per the approved drawing, designed to allow ventilation while restricting direct vision and rainwater entry. All joints shall be fusion-welded, and installation shall include proper fixing with stainless-steel screws/anchor fasteners and sealing of perimeter gaps using weather-proof silicone sealant over backer rod, complete in all as per drawing and as directed by the Engineer-in-Charge Size :450X600 (V - Louvered)	Each	1.00	4469.00	Rupees Four Thousand Four Hundred Sixty Nine Only	**4469.00**	Rupees Four Thousand Four Hundred Sixty Nine Only
30	Providing and fixing 60 mm thick glazed **fire resistant door shutters** of 120 minFire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certifiedas per laboratory approved by Engineer-in-charge, with suitable mounting ondoor frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mmwide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet(zinc coating not less than 120gm/m) duly filled mineral wool insulation havingdensity min 96 kg/m and fixing with necessary stainless steel ball bearing hingesof size 100x89x3mm of approved make, including applying a coat of approvedfire resistant primer or powder coating not less than 30 micron etc all completeas per direction of Engineer-in-charge	Sqm	54.90	13,378.45	Rupees Thirteen Thousand Three Hundred Seventy Eight and Forty Five Paise Only	**734476.91**	Rupees Seven Lakh Thirty Four Thousand Four Hundred Seventy Six and Ninety Paise Only

31	Providing and fixing **fire resistant door frame of section** 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120gm/m²) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m³ . The frame will have a provision of G.I. Anchor fastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded).	Mtr	87.88	2,452.29	Rupees Two Thousand Four Hundred Fifty Two and Twenty Nine Paise Only	**215507.25**	Rupees Two Lakh Fifteen Thousand Five Hundred Seven and Twenty Four Paise Only
32	Providing and fixing glazing in **fire resistant door shutters**, fixed **panels** & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c, including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and asper direction of Engineer-in-charge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	Sqm	33.95	48,622.40	Rupees Forty Eight Thousand Six Hundred Twenty Two and Forty Paise Only	**1650730.48**	Rupees Sixteen Lakh Fifty Thousand Seven Hundred Thirty and Forty Eight Paise Only
33	Providing and fixing factory-made **uPVC louvered duct door**, fabricated from multi-chamber uPVC profiles (minimum 48–60 mm series) with integrated or panel-mounted non-vision uPVC louvers for ventilation. The shutter and frame shall be internally reinforced with galvanized steel sections for rigidity. The system shall include uPVC frame, uPVC shutter with louvers, EPDM gaskets, and all necessary corrosion-resistant hardware such as stainless-steel hinges, tower bolts, handles, and suitable locking arrangement. All corners shall be fusion-welded, and the door shall be installed using stainless-steel screws/anchor fasteners, complete with all materials, labour, and installation as per architectural drawings and as directed by the Engineer-in-Charge.	sqm	58.80	14384.50	Rupees Fourteen Thousand Three Hundred Eighty Four and Fifty Paise Only	**845808.60**	Rupees Eight Lakh Forty Five Thousand Eight Hundred Eight and Sixty Paise Only
34	Providing wood work in frames using Second class teak wood 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	Cum	0.87	1,59,133.04	Rupees One Lakh Fifty Nine Thousand One Hundred Thirty Three and Four Paise Only	**138445.74**	Rupees One Lakh Thirty Eight Thousand Four Hundred Forty Five and Seventy Four Paise Only
35	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	50.71	3,867.12	Rupees Three Thousand Eight Hundred Sixty Seven and Twelve Paise Only	**196101.66**	Rupees One Lakh Ninety Six Thousand One Hundred One and Sixty Five Paise Only
36	Providing and fixing carbon steel galvanised (minimum coating 5 micron) **dash fastener of 10 mm dia** double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/masonry, etc. as per direction of Engineer-in-charge **10 x 120 mm**	Each	126.00	190.30	Rupees One Hundred Ninety and Thirty Paise Only	**23977.80**	Rupees Twenty Three Thousand Nine Hundred Seventy Seven and Eighty Paise Only
37	Providing and fixing **bright finished brass 100 mm mortice latch and lock**, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	Each	46.00	967.32	Rupees Nine Hundred Sixty Seven and Thirty Two Paise Only	**44496.72**	Rupees Forty Four Thousand Four Hundred Ninety Six and Seventy Two Paise Only
38	Providing & fixing fly proof **wire gauze to windows**, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	414.10	1,261.88	Rupees One Thousand Two Hundred Sixty One and Eighty Eight Paise Only	**522544.51**	Rupees Five Lakh Twenty Two Thousand Five Hundred Forty Four and Fifty Paise Only
39	Providing and fixing **12 mm thick frameless toughened glass** door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge	SQM	10.10	5,928.85	Rupees Five Thousand Nine Hundred Twenty Eight and Eighty Five Paise Only	**59881.39**	Rupees Fifty Nine Thousand Eight Hundred Eighty One and Thirty Eight Paise Only
H	**WATERPROOFING WORKS**						
40	Providing and laying **water proofing treatment in sunken portion** of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	Sqm	721.53	686.91	Rupees Six Hundred Eighty Six and Ninety One Paise Only	**495626.17**	Rupees Four Lakh Ninety Five Thousand Six Hundred Twenty Six and Seventeen Paise Only
I	**STRUCTURAL STEEL WORKS**						
41	**Steel work** in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes	Kg	4186.48	216.41	Rupees Two Hundred Sixteen and Forty One Paise Only	**905996.14**	Rupees Nine Lakh Five Thousand Nine Hundred Ninety Six and Thirteen Paise Only

42	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. On steel work	Sqm	212.21	269.12	Rupees Two Hundred Sixty Nine and Twelve Paise Only	**57109.96**	Rupees Fifty Seven Thousand One Hundred Nine and Ninety Five Paise Only
43	**Structural steel work** riveted, bolted or welded in built up sections, trusses. and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	438.26	148.84	Rupees One Hundred Forty Eight and Eighty Four Paise Only	**65230.62**	Rupees Sixty Five Thousand Two Hundred Thirty and Sixty One Paise Only
44	Providing and fixing **stainless steel** (Grade 316) **railing** made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.	Kg	916.40	859.84	Rupees Eight Hundred Fifty Nine and Eighty Four Paise Only	**787957.38**	Rupees Seven Lakh Eighty Seven Thousand Nine Hundred Fifty Seven and Thirty Seven Paise Only
J	**FINISHING WORKS**						
	PLASTERING WORKS						
45	12mm **cement plaster** of mix 1:4 (1 cement : 4 fine sand) including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer-in-Charge at all levels - Internal plastering	Sqm	1948.25	386.34	Rupees Three Hundred Eighty Six and Thirty Four Paise Only	**752686.91**	Rupees Seven Lakh Fifty Two Thousand Six Hundred Eighty Six and Ninety Paise Only
46	**Repairs to plaster** of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 meters lead: With cement mortar 1:4 (1 cement : fine sand)	Sqm	170.62	609.37	Rupees Six Hundred Nine and Thirty Seven Paise Only	**103970.71**	Rupees One Lakh Three Thousand Nine Hundred Seventy and Seventy Paise Only
	PAINTING WORKS						
47	**Removing** dry or oil bound distemper, water proofing cement paint and thelike by scrapping, sand papering and preparing the surface smooth includingnecessary repairs to scratches etc. complete	Sqm	6118.25	28.00	Rupees Twenty Eight Only	**171311.00**	Rupees One Lakh Seventy One Thousand Three Hundred Eleven Only
48	Providing and applying **white cement based putty** of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. The rate shall include cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer-in-Charge at all levels.	Sqm	5046.16	173.72	Rupees One Hundred Seventy Three and Seventy Two Paise Only	**876618.92**	Rupees Eight Lakh Seventy Six Thousand Six Hundred Eighteen and Ninety One Paise Only
49	**Wall painting** with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.Two coats	Sqm	11643.68	158.97	Rupees One Hundred Fifty Eight and Ninety Seven Paise Only	**1850995.81**	Rupees Eighteen Lakh Fifty Thousand Nine Hundred Ninety Five and Eighty Paise Only
50	Applying one coat of **water thinnable cement primer** of approved brand and manufacture having VOC (volatile organic compound) content with Water thinnable cement primer on wall having VOC content less than 50 grams/L. The rate shall include cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer-in-Charge at all levels.	Sqm	9130.83	82.32	Rupees Eighty Two and Thirty Two Paise Only	**751649.93**	Rupees Seven Lakh Fifty One Thousand Six Hundred Forty Nine and Ninety Two Paise Only
51	Finishing walls with **textured interior paint** of required shade : New work (Two or more coats applied @ 3.28 ltr/10 Sq.m) over and including priming coat of interior primer applied @ 2.20kg/10 Sq.m.The rate is including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer-in-Charge at all levels.	Sqm	50.24	1619.50	Rupees One Thousand Six Hundred Nineteen and Fifty Paise Only	**81363.68**	Rupees Eighty One Thousand Three Hundred Sixty Three and Sixty Eight Paise Only
K	**FLOORING WORKS**						
52	Providing and laying fully **vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x600 mm, Purchase Price :Rs. 715 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	3172.66	2189.00	Rupees Two Thousand One Hundred Eighty Nine Only	**6944952.74**	Rupees Sixty Nine Lakh Forty Four Thousand Nine Hundred Fifty Two and Seventy Four Paise Only
53	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	3172.66	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**864391.22**	Rupees Eight Lakh Sixty Four Thousand Three Hundred Ninety One and Twenty One Paise Only
54	Providing and laying fully **vitrified wall tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) . Size of Tile 1200x600 mm, Purchase Price :Rs. 715 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	187.17	2377.00	Rupees Two Thousand Three Hundred Seventy Seven Only	**444903.09**	Rupees Four Lakh Forty Four Thousand Nine Hundred Three and Nine Paise Only
55	**Grouting the joints of Wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	187.17	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**50994.47**	Rupees Fifty Thousand Nine Hundred Ninety Four and Forty Six Paise Only

56	Providing and laying **Polished Granite stone** flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete asper the architectural drawings with 18 mm thick stone slab over 20 mm (average)thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed withcement slurry and pointing with white cement slurry admixed with pigment ofmatching shade including rubbing , curing and polishing etc. all complete asspecified and as directed by the Engineer-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	150.12	4,988.63	Rupees Four Thousand Nine Hundred Eighty Eight and Sixty Three Paise Only	**748893.14**	Rupees Seven Lakh Forty Eight Thousand Eight Hundred Ninety Three and Thirteen Paise Only
57	Providing and laying **Matt/Antiskid finish vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x600 mm, Purchase Price :Rs.963.90 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	201.30	2189.00	Rupees Two Thousand One Hundred Eighty Nine Only	**440645.70**	Rupees Four Lakh Forty Thousand Six Hundred Forty Five and Seventy Paise Only
58	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	201.30	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**54844.19**	Rupees Fifty Four Thousand Eight Hundred Forty Four and Eighteen Paise Only
59	Providing and laying fully **vitrified wall tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) Size of Tile 1200x600 mm, Purchase Price :Rs. 715 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	1065.90	2377.00	Rupees Two Thousand Three Hundred Seventy Seven Only	**2533644.30**	Rupees Twenty Five Lakh Thirty Three Thousand Six Hundred Forty Four and Thirty Paise Only
60	**Grouting the joints of Wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	1065.90	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**290404.46**	Rupees Two Lakh Ninety Thousand Four Hundred Four and Forty Five Paise Only
61	Providing and fixing 18 mm thick gang saw cut, mirror, polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required **size, approved shade, colour and texture** laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. **Granite stone slab** Area of slab over 0.50 sqm	Sqm	2.37	5717.78	Rupees Five Thousand Seven Hundred Seventeen and Seventy Eight Paise Only	**13551.14**	Rupees Thirteen Thousand Five Hundred Fifty One and Thirteen Paise Only
62	Providing edge moulding to 18 mm thick **Granite counters**, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer -in-Charge.	Rmt	3.95	568.79	Rupees Five Hundred Sixty Eight and Seventy Nine Paise Only	**2246.72**	Rupees Two Thousand Two Hundred Forty Six and Seventy Two Paise Only
63	Extra for providing opening or required size & shape for **wash basin/kitchen** sink in kitchen platform, vanity counter and similar location in marble/granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	40.00	1,089.50	Rupees One Thousand Eighty Nine and Fifty Paise Only	**43580.00**	Rupees Forty Three Thousand Five Hundred Eighty Only
64	Providing and laying **fully vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x2400 mm, Purchase Price :Rs. 1870.03 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	114.10	3277.00	Rupees Three Thousand Two Hundred Seventy Seven Only	**373905.70**	Rupees Three Lakh Seventy Three Thousand Nine Hundred Five and Seventy Paise Only
65	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x2400 mm	Sqm	114.10	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**22163.93**	Rupees Twenty Two Thousand One Hundred Sixty Three and Ninety Two Paise Only
66	Providing and laying **fully vitrified wall** tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) Size of Tile 1200x2400 mm, Purchase Price :Rs. 1870.03 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	95.74	3465.00	Rupees Three Thousand Four Hundred Sixty Five Only	**331739.10**	Rupees Three Lakh Thirty One Thousand Seven Hundred Thirty Nine and Ten Paise Only
67	**Grouting the joints of Wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x2400 mm.	Sqm	95.74	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**18597.50**	Rupees Eighteen Thousand Five Hundred Ninety Seven and Forty Nine Paise Only

68	Providing and laying **fully vitrified floor** tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x1800 mm, Purchase Price :Rs.1733.2 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	242.60	3112.00	Rupees Three Thousand One Hundred Twelve Only	**754971.20**	Rupees Seven Lakh Fifty Four Thousand Nine Hundred Seventy One and Twenty Paise Only
69	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x1800 mm	Sqm	242.60	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**47125.05**	Rupees Forty Seven Thousand One Hundred Twenty Five and Five Paise Only
70	Providing and laying **fully vitrified wall tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) Size of Tile 1200x1800 mm, Purchase Price :Rs. 1733.2 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	45.03	3300.00	Rupees Three Thousand Three Hundred Only	**148599.00**	Rupees One Lakh Forty Eight Thousand Five Hundred Ninety Nine Only
71	**Grouting the joints of Wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x1800 mm	Sqm	45.03	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**8747.08**	Rupees Eight Thousand Seven Hundred Forty Seven and Seven Paise Only
72	Providing and laying **fully vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x1800 mm, Purchase Price :Rs.1733.2 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	60.46	3112.00	Rupees Three Thousand One Hundred Twelve Only	**188151.52**	Rupees One Lakh Eighty Eight Thousand One Hundred Fifty One and Fifty Two Paise Only
73	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x1800 mm	Sqm	60.46	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**11744.36**	Rupees Eleven Thousand Seven Hundred Forty Four and Thirty Five Paise Only
74	Providing and laying **fully vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 1200x600 mm, Purchase Price :Rs715 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	16.21	1909.00	Rupees One Thousand Nine Hundred Nine Only	**30944.89**	Rupees Thirty Thousand Nine Hundred Forty Four and Eighty Nine Paise Only
75	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	16.21	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**4416.41**	Rupees Four Thousand Four Hundred Sixteen and Forty One Paise Only
76	Providing and laying **fully vitrified wall tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) Size of Tile 1200x600 mm, Purchase Price :Rs. 715 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	1.00	2377.00	Rupees Two Thousand Three Hundred Seventy Seven Only	**2377.00**	Rupees Two Thousand Three Hundred Seventy Seven Only
77	**Grouting the joints of Wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 1200x600 mm	Sqm	1.00	272.45	Rupees Two Hundred Seventy Two and Forty Five Paise Only	**272.45**	Rupees Two Hundred Seventy Two and Forty Five Paise Only

78	Providing and laying **fully vitrified floor tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately). Size of Tile 3200x1600 mm, Purchase Price :Rs. 4789.1 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	26.52	6787.00	Rupees Six Thousand Seven Hundred Eighty Seven Only	**179991.24**	Rupees One Lakh Seventy Nine Thousand Nine Hundred Ninety One and Twenty Four Paise Only
79	**Grouting the joints of flooring tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 3200x1600 mm	Sqm	26.52	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**5151.51**	Rupees Five Thousand One Hundred Fifty One and Fifty One Paise Only
80	Providing and laying **fully vitrified wall tiles** in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved brand and manufacturer, in all colours and shades, in skirting , risers of steps and dado up to 2 m height laid with cement based high polymer modified quickset tile adhesive confirming to IS:15477, in in average 6 mm thickness (as per manufactures' specification) including grouting of joints (Payment for grouting of joints to be made Seperately) Size of Tile 3200x1600 mm, Purchase Price :Rs.4789.1 Per Sqm (Excluding GST).The above work shall be carried by an agency having sufficient experience in flooring and only skilled and experienced persones shall be employed for this purpose.	Sqm	5.90	6975.00	Rupees Six Thousand Nine Hundred Seventy Five Only	**41152.50**	Rupees Forty One Thousand One Hundred Fifty Two and Fifty Paise Only
81	**Grouting the joints of wall tiles** having joints of 3 mm width,using epoxy grout mix of 0.7 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg),including filling/grouting and finishing complete as per directon of engineer-in-charge. Size of Tile 3200x1600 mm	Sqm	5.90	194.25	Rupees One Hundred Ninety Four and Twenty Five Paise Only	**1146.08**	Rupees One Thousand One Hundred Forty Six and Seven Paise Only
	INTERIOR WORKS						
L	**PARTITION WALLS**						
82	Providing & fixing **Toilet Cubicle** (of following standard dimension which includes 600mm door size width) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested by national test house. Finish of the compact laminate should be Suede, which includs doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. The product should have Green Guard Certificate. Cubicles shall be of standard dimensions as per drawing (approx. 1100 mm W × 2000 mm H), with door sizes 600 mm and 900 mm × 1750 mm, divider height 1810 mm, and overall cubicle height 2000 mm including 150 mm bottom gap.This also includes providing and fixing in position necessary hardware made out of SS (Grade 302) & Aluminium SS anodized top rail as per manufacturer's specifications & Architects instructions like (1) D Post Door Channel (anodized), (2) Hinges Adaptors, (3) Gravity Hinges (4) Privacy Thumbturn c/w Occupancy Indicator, (5) Coat Hook, (6) Door Knob, (7) Noise Deafening Tape (8) Screws & wall Plugs.All the hardware shall be made of polyamide-6 material. Aluminium D-Post channel of 40mm dia which should be fixed to the wall with SS-304 screws, Door is gripped with the poles by an arrangement of hinge adaptor & hinges. Aluminium poles are incorporated with the rubber strip to reduce the noise effect.	Each	42.00	39415.50	Rupees Thirty Nine Thousand Four Hundred Fifteen and Fifty Paise Only	**1655451.00**	Rupees Sixteen Lakh Fifty Five Thousand Four Hundred Fifty One Only
83	Supplying and installing **urinal partitions** made of 12 mm thick High Pressure Laminate (HPL) compact board conforming to EN 438 / ISO 4586 standards, water-resistant, termite-proof, antibacterial and suitable for wet areas, of size 1980 mm Height x600mm to 900mm width from finished floor level, edges machine-cut and smoothened, both faces having decorative finish of approved shade and design, including providing and fixing with stainless steel (Grade 304) brackets, clamps, U-channels, screws and all necessary hardware complete, fixed to wall using nylon sleeves and stainless steel fasteners, all as per manufacturer's specifications and direction of Engineer-in-Charge.	Each	14.00	5853.00	Rupees Five Thousand Eight Hundred Fifty Three Only	**81942.00**	Rupees Eighty One Thousand Nine Hundred Forty Two Only
84	Providing and fixing **1.5 m high half-height decorative laminate partition** with aluminium framework (50×50×1.4 mm) at 600 mm c/c, double-skin cladded with 12 mm thick BWP 710 plywood on both sides and finished with 1 mm thick decorative laminate (matte or gloss finish) on all exposed surfaces. All edges finished with matching aluminium channels or trims, complete with necessary fittings, adhesives, labour, and materials as per drawings and direction of Engineer-in-Charge.	Sqm	346.00	7532.50	Rupees Seven Thousand Five Hundred Thirty Two and Fifty Paise Only	**2606245.00**	Rupees Twenty Six Lakh Six Thousand Two Hundred Forty Five Only
85	Supply and installation of **Fixed Glass Partition** for Cabin using minimal frame, room dividing solutions.Single glazed mullion free demountable glass partition using Toughened glass in proprietary natural anodised/Black aluminium sections of size 50mm x 30mm with Concealed sealing (No visible Gaskets/Seals) with acoustic rating of Minimum 32 db with third party test certificate. The proile will have Carpert Groove at the Bottom on both sides for accomodating max. mm carpets. The Glass to be fixed with help of Proprietary Stability GRIPPER Clamp to have a stable system. It should consists of intermediate slim junction pro les for Glass to Glass vertical joints, 90 Degree L Junction and T Junction pro les suitably to be used as per room con guration designs.No VISIBLE Clip Lines to provide clutter free view at both side of section. The Glass to be Offset mounted towards outer edge leading to minimum aluminium frame on one side. Optional Pro le Bottom Seal pair for additional accoustic if required. Glass thickness - 10mm(LSG). All Pro les are min 1.5mm thickness including 20 microns of Anodizing,	Sqm	618.50	7760.00	Rupees Seven Thousand Seven Hundred Sixty Only	**4799560.00**	Rupees Forty Seven Lakh Ninety Nine Thousand Five Hundred Sixty Only

86	Providing and fixing **100 mm thick double layer Gypsum Board Partition** as per design. 48mm C stud (0.5mm thick having one flange of 34mm and another flange of 36mm made of GI Steel) placed at 610mm centre to centre in 50mm Gypserra floor and ceiling channel (0.5mm thick have equal flanges of 32mm made of GI steel), which is anchored to the floor & true ceiling using suitable anchor fasteners. The boards are to be fixed to the framework with joints staggered to avoid leakage through joints. A fixing channel of 50mm width (0.9mm thick having two flanges of 9.5mm each) has to be provided at the horizontal joints of the outer layer of boards screw fixed to the studs using metal to metal flat head screws. Also to have an additional 19mm thick ply supports (wherever required) as spacer at the false ceiling level and as sub frames for doors and glazed openings as per details or as per Engineer in charge instruction. Infill from Finished flooring level till false ceiling level. As an acoustic requirement, contractor to affix 25mm glass wool of density 20kg/m³ as indicated in the drawing. The framework to be cladded with inner layer 12.5mm plain board (IS-2095 Part 1:2011) and outer layer with12mm Fireline board fixed on either sides with Drywall screws of 35mm at 300mm C/c and 150mm C/c at periphery of wall.The board or to be fixed vertically to the frame work with joins staggered to avoide leakage through joins. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with jointing compound, Joint paper tape as per recommended practices . Gypsteel Ultra nogging channel is to be fixed using metal to metal flat head screws at the horizontal joints of the board. The Junction of the partition with masonry and all penetration through the partition has to be treated with Hilti / 3M fire and acoustic sealant.	Sqm	943.60	3362.50	Rupees Three Thousand Three Hundred Sixty Two and Fifty Paise Only	**3172855.00**	Rupees Thirty One Lakh Seventy Two Thousand Eight Hundred Fifty Five Only
87	Supply & Installation of **Wall Paneling using fibre cement board** for covering existing Ducts near Windows make of thickness 12mm with dimension of 1220mmX2440mm. Board should be of density 1300kg/ m3 (±50) and should comply to ASTM C 1185 for physical properties and BS 476 – part 5, 6 & 7 for fire resistance. Thermal conductivity should not exceed 0.15 W/m˚K. Board to be fixed using Screws of Tensile strength 34N and Shear strength 68N on frame structure of GI sections of Gypserra suitable gauge or as per the direction of Engineer-In charge with maximum grid of 610X1220mm. Boards joints to be finished with Cement Jointing compound having high adhesive, high flexibility, with minimum density of 1.6gm/cm3 along with self-adhesive Fiber mesh tape as per manufacturer's finishing procedure and as per instruction of engineer in charge.	Sqm	405.91	2791.50	Rupees Two Thousand Seven Hundred Ninety One and Fifty Paise Only	**1133097.77**	Rupees Eleven Lakh Thirty Three Thousand Ninety Seven and Seventy Six Paise Only
M	**FALSE CEILING**						
88.00	Providing and fixing **false ceiling at all height** including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5x25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's 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 drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	2799.11	1702.20	Rupees One Thousand Seven Hundred Two and Twenty Paise Only	**4764645.04**	Rupees Forty Seven Lakh Sixty Four Thousand Six Hundred Forty Five and Four Paise Only

89	Providing and fixing **laminated wooden ceiling** made with 12 mm thick BWP 710 grade plywood panels finished with 1 mm thick decorative laminate (plain or wood grain finish) on the exposed surface, fixed over a concealed supporting grid made of 18 mm BWP 710 grade plywood sections. The framework shall consist of 50 mm wide plywood runners and cross members (or as specified) fixed rigidly to the ceiling using suitable anchor fasteners or wooden cleats at a spacing not exceeding 600 mm c/c in both directions, or as per design. The 12 mm thick plywood ceiling panels shall be securely fixed to the framework using screws and adhesive, ensuring a level and uniform surface. Laminate shall be bonded to the plywood using approved synthetic resin adhesive, pressed uniformly to achieve a bubble-free, smooth finish. All exposed edges shall be finished with matching laminate edge strips or hardwood lipping. Panel joints shall be finished with grooves, cover battens, or matching trims as per design. The work shall include providing and fixing trap doors of required size and finish wherever required, and shall be completed in all respects including surface preparation, cutting, edge finishing, polishing (if applicable), labour, materials, tools, and incidentals, all as per drawings and as directed by the Engineer-in-Charge.	Sqm	416.05	7923.00	Rupees Seven Thousand Nine Hundred Twenty Three Only	**3296364.15**	Rupees Thirty Two Lakh Ninety Six Thousand Three Hundred Sixty Four and Fifteen Paise Only
90	Providing & Fixing of **Aluminium Grid Ceiling (600 x 600 mm) for toilets** on 15mm 'T' Framework of module 600mm x 600mm. Panels of size 584mm x 584mm made out of 0.7mm thick Aluminium Alloy AA 3105. All Tiles shall be manufactured in a single stage manufacturing procedure from a dia, where the notched & level sheet shall be pressed into a lay-in tile by means of a dia. All Tiles shall be bevelled edge. The tiles shall have a total Vertical Height of 12mm & installed height of 10mm including the 2mm bevelled edge. The Tile shall have an outward bent lip of 7mm. The Tile shall be Polyester based, powder coated in white colour. Grid system for fixing ceiling tiles shall comprise of Roll Formed galvanised steel Tees precoated in G.I. caping of white colour. The 15mm main tee runners shall be suspended at an interval of 1200mm centre to centre. The 15mm cross tee runner shall be suspended at 600mm centre to centre and further supported with 15mm cross tee at 600mm centre to centre with interlocking arrangements to form grid of 600mm x600mm. The main tee shall be supported by means of 4mm G.I. rod from slab/roof. The suspension shall be provided at 1200 to 1500mm centre to centre.	Sqm	225.90	3090.50	Rupees Three Thousand Ninety and Fifty Paise Only	**698143.95**	Rupees Six Lakh Ninety Eight Thousand One Hundred Forty Three and Ninety Five Paise Only
91	Providing & Fixing of **Aluminium Grid Ceiling (1200 x 600 mm) for common lobby passage** on 15mm 'T' Framework of module 1200mm x 600mm. Panels of size 1184mm x 584mm made out of 0.9mm thick Aluminium Alloy AA 3105. All Tiles shall be manufactured in a single stage manufacturing procedure from a dia, where the notched & level sheet shall be pressed into a lay-in tile by means of a dia. All Tiles shall be bevelled edge. The tiles shall have a total Vertical Height of 12mm & installed height of 10mm including the 2mm bevelled edge. The Tile shall have an outward bent lip of 7mm. The Tile shall be Polyester based, powder coated in white colour. Grid system for fixing ceiling tiles shall comprise of Roll Formed galvanised steel Tees precoated in G.I. caping of white colour. The 15mm main tee runners shall be suspended at an interval of 1200mm centre to centre. The 15mm cross tee runner shall be suspended at 600mm centre to centre and further supported with 15mm cross tee at 600mm centre to centre with interlocking arrangements to form grid of 1200mm x600mm. The main tee shall be supported by means of 4mm G.I. rod from slab/roof. The suspension shall be provided at 1200 to 1500mm centre to centre.	Sqm	306.10	3615.50	Rupees Three Thousand Six Hundred Fifteen and Fifty Paise Only	**1106704.55**	Rupees Eleven Lakh Six Thousand Seven Hundred Four and Fifty Five Paise Only
92	Providing and fixing a **veneer wooden ceiling made of 12 mm thick** BWP 710 grade plywood panels with a decorative veneer finish, fixed over a concealed framework of 18 mm plywood runners and cross members spaced at max 600 mm centers. Panels shall be bonded with synthetic resin adhesive and securely fixed to the framework using screws and adhesive, with all exposed edges finished with matching veneer strips or hardwood lipping. Joints shall be finished with grooves or cover trims as per design, ensuring a smooth, durable, and aesthetically pleasing ceiling surface. The work shall include providing and fixing a trap door of matching finish and design, complete as per drawings and the directions of the Engineer-in-Charge.	Sqm	61.30	11362.00	Rupees Eleven Thousand Three Hundred Sixty Two Only	**696490.60**	Rupees Six Lakh Ninety Six Thousand Four Hundred Ninety and Sixty Paise Only
93	Supply and installation of a **ceiling cove fabricated** from 12 mm thick moisture-resistant plywood finished with high-pressure laminate in the approved color and texture. The cove shall have smooth, edge-banded profiles with all joints tightly fitted. Installation includes securely fixing the cove to the ceiling and wall structure using appropriate mechanical fasteners and construction adhesive, ensuring the unit is plumb, aligned, and flush. The finished surface shall be durable, moisture-resistant, easy to clean, and provide a seamless, aesthetic transition between ceiling and wall in interior applications.	Rm	90.20	2403.50	Rupees Two Thousand Four Hundred Three and Fifty Paise Only	**216795.70**	Rupees Two Lakh Sixteen Thousand Seven Hundred Ninety Five and Seventy Paise Only
N	**WALL PANELING**						

94	Providing and fixing **laminated wall paneling with 12 mm thick** BWP 710 grade plywood finished with 1 mm thick decorative laminate (plain/wood grain finish) on exposed surface, fixed over a framework of aluminium box section ((50×50×1.4 mm) at 600 mm c/c both ways or as directed. Aluminium framing shall be fixed to the wall using suitable brackets/cleats and fasteners with proper alignment and spacing. The plywood shall be securely screwed to the aluminium framework, and the laminate shall be bonded to the plywood using approved synthetic resin adhesive under controlled pressure to ensure bubble-free surface. All joints between laminate sheets shall be butt jointed with PVC or wooden cover strips, or finished with matching edge tape as per design. Exposed edges shall be finished with matching laminate or hardwood lipping. All materials used shall be of approved make and quality. The work shall be completed in all respects including cutting, fixing, edge finishing, polishing (if required), cleaning, etc., all as per drawing and as directed by the Engineer-in-Charge.	Sqm	23.43	5015.00	Rupees Five Thousand Fifteen Only	**117501.45**	Rupees One Lakh Seventeen Thousand Five Hundred One and Forty Five Paise Only
95	Providing and fixing **Decorative veneer wall paneling** with 12 mm thick BWP 710 grade plywood finished with natural decorative veneer (0.6 mm to 1 mm thick) on exposed surface, fixed over a framework of aluminium box section (50 mm x 50 mm or as specified) placed at 600 mm c/c both ways or as per drawing. The aluminium frame shall be rigidly anchored to the base wall using aluminium cleats or stainless steel brackets with appropriate fasteners, ensuring plumb and level installation. The plywood shall be securely fixed to the aluminium framework using countersunk screws. The veneer shall be bonded to the plywood using approved synthetic resin adhesive and pressed uniformly to avoid bubbles or waviness. Exposed veneer surfaces shall be finished with melamine polish or PU coating (matt/glossy) as specified, including proper sanding and sealing coats. All exposed edges shall be finished with matching veneer edge banding or hardwood lipping. Joints between panels shall be finished flush or with grooved joints as per design intent. The work shall be completed in all respects including materials, labour, tools, and surface protection, all as per approved drawings and as directed by the Engineer-in-Charge.	Sqm	20.79	7172.50	Rupees Seven Thousand One Hundred Seventy Two and Fifty Paise Only	**149116.28**	Rupees One Lakh Forty Nine Thousand One Hundred Sixteen and Twenty Seven Paise Only
96	Providing and fixing **flutted wall paneling with 6 mm thick flexible plywood** (flexi ply) finished with approved factory-made fluted panels on the exposed surface, fixed over a concealed framework made of 12 mm thick BWP 710 grade plywood. The plywood frame shall consist of horizontal and vertical members (minimum 50 mm wide) securely anchored to the wall using rawl plugs, screws, or anchor fasteners at not more than 600 mm c/c or as per site conditions. The 6 mm flexi ply shall be bent and shaped as required, and fixed over the plywood frame using wood screws and adhesive to form the desired curvature or profile.wpc Fluted panels (made of pre-laminated MDF, WPC, PVC, or veneer-finished boards as specified) shall be fixed over the flexi ply surface using approved synthetic resin adhesive and concealed fasteners, ensuring a seamless, aligned finish. All panel joints shall be treated with matching trims or groove profiles as per design, and exposed edges shall be finished with matching edge banding or wooden lipping. The work includes all materials, labour, tools, scaffolding, surface preparation, and finishing, completed as per approved architectural drawings and to the satisfaction of the Engineer-in-Charge.	Sqm	30.50	9134.50	Rupees Nine Thousand One Hundred Thirty Four and Fifty Paise Only	**278602.25**	Rupees Two Lakh Seventy Eight Thousand Six Hundred Two and Twenty Five Paise Only
97	Providing and fixing **100 mm x 100 mm box section** made from 6 mm thick flexible plywood (flexi ply), finished with 1 mm thick decorative laminate (plain or wood grain finish) on all exposed surfaces. The box shall be fabricated in true square or curved form as per design, with properly joined corners using approved wood adhesive and mechanical fastening (screws or pins) to maintain shape. The laminate shall be bonded to the outer surfaces using synthetic resin adhesive, pressed uniformly to ensure a smooth, bubble-free finish. All exposed edges shall be finished with matching laminate strips or hardwood lipping as per design intent.The boxes shall be fixed to the wall using concealed wooden cleats made from 18 mm thick BWP 710 grade plywood or hardwood battens securely anchored to the wall with rawl plugs and countersunk screws. The box sections shall be screwed from the inside or backside onto the cleats, ensuring no visible screw heads on the outer surface. Alternatively, heavy-duty adhesive may be used in combination with concealed screws where specified. Installation shall ensure straight alignment, level placement, and secure fixing.The work includes all materials, fabrication, adhesive, cleats, screws, edge finishing, labour, and installation, completed in all respects as per approved drawings and as directed by the Engineer-in-Charge.	Rm	51.45	5915.50	Rupees Five Thousand Nine Hundred Fifteen and Fifty Paise Only	**304352.48**	Rupees Three Lakh Four Thousand Three Hundred Fifty Two and Forty Seven Paise Only
98	Providing and fixing **wash basin counter** made of 18 mm thick high-density multiwood finished with 18 mm thick approved granite slab on top, fixed over an MS framework made of 25×25×3.2 mm thick square hollow sections (SHS), finished with black epoxy paint. Multiwood shall be cut to required sizes and securely fixed to the MS frame using self-tapping screws through pre-drilled holes or treated wooden battens fixed to the MS structure as required. Granite slab shall be fixed over the multiwood surface using approved stone adhesive, ensuring uniform bonding and level surface. All joints shall be properly aligned, leveled, and finished as per architectural design. The work includes supply, cutting, shaping, edge finishing, fastening, and installation of granite and multiwood, complete in all respects as per drawings and as directed by the Engineer-in-Charge.	Sqm	33.60	13598.5	Rupees Thirteen Thousand Five Hundred Ninety Eight and Fifty Paise Only	**456909.60**	Rupees Four Lakh Fifty Six Thousand Nine Hundred Nine and Sixty Paise Only

99	Providing and fixing of **WPC fluted wall paneling** (of approved design, shade, and texture) on the exposed surface, fixed over a framework of aluminium box section (50×50×1.4 mm or as specified) at 600 mm c/c both ways or as directed. The aluminium framework shall be securely fixed to the wall using suitable brackets/cleats and fasteners, ensuring proper alignment and spacing as per manufacturer's recommendations, ensuring a neat, aligned, and seamless installation. All joints between fluted panels shall be treated with matching joint trims or profiles, or as per design. Exposed edges shall be finished with matching WPC edge trims or hardwood lipping, as specified. All materials used shall be of approved make and quality. The work shall be completed in all respects including surface preparation, cutting, fixing, jointing, edge finishing, cleaning, and all related incidentals, in accordance with drawings and as directed by the Engineer-in-Charge.	Sqm	39.23	8559.5	Rupees Eight Thousand Five Hundred Fifty Nine and Fifty Paise Only	**335789.19**	Rupees Three Lakh Thirty Five Thousand Seven Hundred Eighty Nine and Eighteen Paise Only
100	Providing and fixing 12 mm thick **acoustic PET (Polyethylene Terephthalate) panels** with a minimum NRC of 0.75 or as specified, mounted over a 18 mm thick BWP 710 grade plywood backing, which is fixed onto a concealed aluminium framework. The aluminium framework shall be fabricated from powder-coated or anodized extruded aluminium sections (50×50×1.4 mm), securely anchored to the wall or ceiling substrate using approved anchor fasteners at a maximum spacing of 600 mm c/c. The 12 mm plywood shall be fixed onto the aluminium frame using countersunk screws and construction adhesive. The PET panels shall be bonded to the plywood surface using high-strength adhesive or concealed mechanical clips, ensuring a seamless, level, and secure finish. All edges shall be neatly finished with matching trims or groove joints as per design. The work shall include the supply of all materials, fabrication, cutting, edge finishing, installation, and cleaning, completed as per approved drawings and as directed by the Engineer-in-Charge.	Sqm	159.20	3475	Rupees Three Thousand Four Hundred Seventy Five Only	**553220.00**	Rupees Five Lakh Fifty Three Thousand Two Hundred Twenty Only
101	Providing and fixing **stage/podium platform for confrence room with 18 mm thick BWP 710 grade plywood with Polypropylene carpet (400 GSM) covering of 3 mm thick over MS framework** , finished with black colour epoxy paint. Plywood shall conform to IS:710 (BWP 710 grade), cut to required sizes and securely fixed to the MS frame using self-tapping screws through pre-drilled holes or by using treated wooden battens fixed to the MS structure as required. All joints shall be aligned, leveled, and prepared to receive the final finish as per architectural design. The work includes supply, cutting, shaping, edge finishing, fastening, and installation of plywood panels , Entry steps etc complete, all as per drawings and as directed by the Engineer-in-Charge. The shade of the carpet as per approved colour.	Sqm	23.10	6439	Rupees Six Thousand Four Hundred Thirty Nine Only	**148740.90**	Rupees One Lakh Forty Eight Thousand Seven Hundred Forty and Ninety Paise Only
O	**MISCELLANEOUS ITEMS**						
102	Supply and fixing of **8mm thick mirror** with polished edges, installed using stainless steel/chrome-plated mirror studs, including necessary fittings and labour complete as per site requirements.	SQM	51.23	3087.50	Rupees Three Thousand Eighty Seven and Fifty Paise Only	**158172.63**	Rupees One Lakh Fifty Eight Thousand One Hundred Seventy Two and Sixty Two Paise Only
103	Providing and fixing **Decorative Wooden Partition/ Jally work** of size approximately 800 mm wide × 2400 mm high, made of 12 mm thick high-quality plywood with external laminate finish of approved colour and texture, including 150 mm wide plywood frame, 30 mm wide internal grid members forming geometric pattern with diagonal triangular and square openings, and 126 mm high solid base panel, all edges properly sealed and edge-banded, securely fixed to wall true to line and level at Ground Floor Lobby and 6th Floor Lobby, including all materials, accessories, adhesives, fasteners, and labour, complete as per Architectural Drawings and as directed by the Engineer-in-Charge.	Sqm	12.09	14153.00	Rupees Fourteen Thousand One Hundred Fifty Three Only	**171109.77**	Rupees One Lakh Seventy One Thousand One Hundred Nine and Seventy Seven Paise Only
104	Providing and fixing **3D artwork (Lobby area) by approved artist** in the specified area up to height of 5 m, formed using cement mortar of approved mix, anchored with screwed rods or other suitable fasteners as required to achieve the desired design, alignment, and structural stability. The work shall include detailed modeling as per approved drawings, surface preparation, and finishing with two coats of high-quality wall putty followed by approved paint in the required shade and texture to achieve the design intent.The scope of work shall also include all materials, labour, scaffolding, tools and tackles, setting out, curing, surface finishing, cleaning of the site after completion, and carrying out the work in accordance with the architect's/engineer's instructions, complete in all respects.Contractor has to submit concept theme designed by the artist.	Sqm	99.01	10359.50	Rupees Ten Thousand Three Hundred Fifty Nine and Fifty Paise Only	**1025694.10**	Rupees Ten Lakh Twenty Five Thousand Six Hundred Ninety Four and Nine Paise Only
105	Providing and fixing **office signage of size 300 mm × 100 mm**, fabricated from brushed stainless steel or aluminum sheet with titanium gold PVD coating, including computer-cut vinyl or engraved text/graphics as per approved design and font.The signage shall have smooth, polished edges and a uniform titanium gold finish, suitable for indoor office use. It shall be fixed at approved locations and mounting heights using concealed fixing methods (stainless steel studs, adhesives, or brackets), ensuring each sign is level, secure, and free from visible damage. All materials shall be corrosion-resistant, durable, and of high finish quality. The work includes complete fabrication, polishing, transportation, installation, cleaning, and finishing after installation, with protective films removed and site cleared of waste.The contractor shall coordinate installation with other ongoing works and adhere to all safety and ergonomic guidelines. All necessary labour, tools, equipment, mounting hardware, and supervision shall be provided by the contractor.A minimum 12-month warranty shall be provided on materials and installation workmanship.Final acceptance will be subject to inspection and approval by the client or authorized representative.	Each	62.00	3290.50	Rupees Three Thousand Two Hundred Ninety and Fifty Paise Only	**204011.00**	Rupees Two Lakh Four Thousand Eleven Only

106	Providing and fixing **office signage of size 300 mm × 100 mm**, fabricated from high-quality acrylic sheet (minimum 4 mm thick) in approved colour and finish, including computer-cut vinyl text/graphics or engraved lettering as per approved design and font. The signage shall have smooth, polished edges and a clean, glossy finish suitable for indoor office use. It shall be installed at approved locations and mounting heights using concealed fixing arrangements (acrylic spacers, stainless steel studs, or adhesives), ensuring proper alignment, level, and finish. All materials shall be UV-stable, fade-resistant, and durable. The rate shall include all materials, fabrication, transportation, installation, cleaning, and finishing, including removal of protective films and disposal of waste. The contractor shall coordinate installation with other site works and adhere to safety and ergonomic guidelines. All labour, tools, equipment, mounting hardware, and supervision shall be provided by the contractor. A minimum 12-month warranty shall be provided on materials and installation workmanship.Final acceptance shall be subject to inspection and approval by the client or authorized representative.	Each	92.00	1262.50	Rupees One Thousand Two Hundred Sixty Two and Fifty Paise Only	**116150.00**	Rupees One Lakh Sixteen Thousand One Hundred Fifty Only
107	Supply and fixing of high-quality **frosted privacy film/sticker** on glass surfaces, including surface cleaning, cutting to required size and design, and application using water-based adhesive solution, ensuring a smooth, bubble-free finish as per approved pattern and as directed by the Engineer-in-Charge.	Sqm	188.05	1392.00	Rupees One Thousand Three Hundred Ninety Two Only	**261765.60**	Rupees Two Lakh Sixty One Thousand Seven Hundred Sixty Five and Sixty Paise Only
108	Supply, fabrication, and installation of solid **acrylic LED-illuminated logo** with company name "Cochin Port, Cochin Port Authority" for interior application, overall size 137 cm × 54 cm, comprising logo 32 cm high, letters 'Cochin Port' 12 cm high and 'Cochin Port Authority' 6.5 cm high, in single-color LED illumination with 30 mm projection from surface, including necessary power supply, wiring, supports, and all accessories complete as per approved architectural drawing and as directed by the Engineer-in-Charge	Each	10.00	30000.00	Rupees Thirty Thousand Only	**300000.00**	Rupees Three Lakh Only
109	Providing and supplying **heavy duty injection adhesive** for rebar fixing using Epoxy resin of 330/500ml HILTI HIT-RE 500 V3/or equivalent for fixing rebar.Embedment depth as mentioned from the Structural consultants, including supplying two component system consisting of resin and hardener in 3:1 ratio; filling above mentioned mortar with standard dispenser before inserting rebar strictly as per the manufacturers recommendations.The installation and the setting instructions should be strictly followed as per the manufacturers recommendations.The chemical anchor shall carry ETA, COLA and DIBT approval and fire approval. Application can be done in both wet & dry concrete condition, corrosion tested. The approved chemical shall be installed in hammer drill, diamond coring holes , including cost and conveyance of all materials, labour charges,tool rental charges, lead,lift etc complete as directed by Engineer-in-Charge at all levels. (The above work shall be carriedout by an agency having sufficient experience. Only skilled and experienced persons shall be employed for this purpose.) For fixing 12 mm Dia bar with a hole dia of 14-16 mm. (Excluding the cost of reinforcement)	Each	10.00	1071.50	Rupees One Thousand Seventy One and Fifty Paise Only	**10715.00**	Rupees Ten Thousand Seven Hundred Fifteen Only
110	Providing and supplying **heavy duty injection** adhesive for rebar fixing using Epoxy resin of 330/500ml HILTI HIT-RE 500 V3/or equivalent for fixing rebar.Embedment depth as mentioned from the Structural consultants, including supplying two component system consisting of resin and hardener in 3:1 ratio; filling above mentioned mortar with standard dispenser before inserting rebar strictly as per the manufacturers recommendations.The installation and the setting instructions should be strictly followed as per the manufacturers recommendations.The chemical anchor shall carry ETA, COLA and DIBT approval and fire approval. Application can be done in both wet & dry concrete condition, corrosion tested. The approved chemical shall be installed in hammer drill, diamond coring holes , including cost and conveyance of all materials, labour charges,tool rental charges, lead,lift etc complete as directed by Engineer-in-Charge at all levels. (The above work shall be carriedout by an agency having sufficient experience. Only skilled and experienced persons shall be employed for this purpose.) For fixing 16mm Dia bar with a hole dia of 20mm. (Excluding the cost of reinforcement)	Each	10.00	2131.50	Rupees Two Thousand One Hundred Thirty One and Fifty Paise Only	**21315.00**	Rupees Twenty One Thousand Three Hundred Fifteen Only
111	Supplying and fixing **PVC coated polyester fabric roller blinds** of approved make, design, and shade, complete with extruded aluminium roller tube (minimum 1.2 mm thick), powder-coated brackets, bottom rail, stainless steel bead chain or approved control mechanism, and all accessories for smooth operation, including all materials, labour, and installation at all heights, as per manufacturer's specifications and directions of the Engineer-in-Charge.	Sqm	434.58	1,533.00	Rupees One Thousand Five Hundred Thirty Three Only	**666211.14**	Rupees Six Lakh Sixty Six Thousand Two Hundred Eleven and Fourteen Paise Only

112	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)- cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including: (b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nutsand washers etc. of stainless steel grade 316, of the required capacity and in required numbers. (c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. (d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places. Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. . The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 1. Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr 2. Static Water Penetration Test. (50pa to 1500pa) as per ASTME- 331-09 testing method for a range up to 2000 ml. 3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml 4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site. 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.	Sqm	498.77	3907.92	Rupees Three Thousand Nine Hundred Seven and Ninety Two Paise Only	1949153.26	Rupees Nineteen Lakh Forty Nine Thousand One Hundred Fifty Three and Twenty Five Paise Only
113	Providing, assembling and s**upplying vision glass panels**IGUs) comprising of hermeticallysealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened toughened glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned toughened glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted toughened glass 6mm thick substrate with reflective soft coating on face # 2,+ 12mm Airgap + 6mm Heat Strengthened toughened glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	Sqm	498.80	4,139.69	Rupees Four Thousand One Hundred Thirty Nine and Sixty Nine Paise Only	2064877.37	Rupees Twenty Lakh Sixty Four Thousand Eight Hundred Seventy Seven and Thirty Seven Paise Only
114	Providing and laying factory made chamfered edge **Cement Concrete paver blocks** in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-inCharge **80 mm thick** C.C. paver block of M-35 grade with approved colour design and pattern.	Sqm	81.52	1,215.06	Rupees One Thousand Two Hundred Fifteen and Six Paise Only	99051.69	Rupees Ninety Nine Thousand Fifty One and Sixty Nine Paise Only

115	Supply and installation of a custom-made Glass Reinforced Concrete **(GRC) Column for aesthetic elevational purpose,** complete with bottom and top coping as per design and drawing. GRC shall be manufactured using white cement, alkali resistant glass fibre, silica sand, water with admixtures and pigmented cured with acrylic thermal plastic with dimensions 575 - 600 mm dia & height 7.3m or as per approved drawing. The rate shall be inclusive of finishing with acid wash as per specification, moulding of any pattern as per conception design including preparing the moulds for casting, making the grc composite material, applying the material in moulds, demoulding the cured GRC elements from moulds, grinding and finishing the demoulded GRC elements, fixing at site, finishing the groves. Applications to be done strictly as per manufacturers specification.	Each	4.00	4,10,000.00	Rupees Four Lakh Ten Thousand Only	1640000.00	Rupees Sixteen Lakh Forty Thousand Only
116	Supply and installation of 18mm thick **V-Board (fiber cement board)** conforming to IS 14862, fixed over approved GI framework using self-drilling screws, including all necessary cutting, shaping, edge finishing, joint treatment with tape and sealant, and complete with all materials, labour, tools, scaffolding, and handling as per manufacturer's specifications and approved architectural drawings, finished in all respects	Sqm	132.30	2,351.50	Rupees Two Thousand Three Hundred Fifty One and Fifty Paise Only	311103.45	Rupees Three Lakh Eleven Thousand One Hundred Three and Forty Five Paise Only
117	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm. (For ramp area)	Sqm	20.56	81.70	Rupees Eighty One and Seventy Paise Only	1679.75	Rupees One Thousand Six Hundred Seventy Nine and Seventy Five Paise Only
118	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	Sqm	81.52	146.66	Rupees One Hundred Forty Six and Sixty Six Paise Only	11955.72	Rupees Eleven Thousand Nine Hundred Fifty Five and Seventy Two Paise Only
119	Kota stone slab flooring over 20 mm (average) thick base laid over and joined 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 (Above car poarch area)	Sqm	95.82	2168.81	Rupees Two Thousand One Hundred Sixty Eight and Eighty One Paise Only	207815.37	Rupees Two Lakh Seven Thousand Eight Hundred Fifteen and Thirty Seven Paise Only
120	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.(Above car poarch area)	Sqm	4.12	2621.27	Rupees Two Thousand Six Hundred Twenty One and Twenty Seven Paise Only	10799.63	Rupees Ten Thousand Seven Hundred Ninety Nine and Sixty Three Paise Only
121	Providing and laying tactile tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge. (For ramp area)	Sqm	20.60	2246.01	Rupees Two Thousand Two Hundred Forty Six and One Paise Only	46267.81	Rupees Forty Six Thousand Two Hundred Sixty Seven and Eighty Paise Only
Q	**FURNITURES**						
	Table						
122	Providing and fixing **L - Shaped office table** with integrated side storage, of overall size 2400 mm × 2300 mm × 750 mm height, fabricated from 25 mm thick pre-laminated particle board with decorative laminate finish on both sides and 2 mm thick matching PVC edge lipping on all exposed edges, as per approved drawing and design. The table shall be supported on gable ends, modesty panel, and side storage unit for rigidity. The side storage unit (750 mm height) shall consist of 2 open shelves, 2 shutters, and 2 drawers, complete with all required hardware such as concealed hinges, soft-close telescopic drawer channels, stainless steel handles (approximately 100 mm long), and locking arrangement of approved make. All materials, labour, hardware, tools, and incidental charges shall be included, and the work shall be completed in accordance with the approved drawing, manufacturer's specifications, and as directed by the Engineer-in-Charge.	Each	5.00	1,13,940.50	Rupees One Lakh Thirteen Thousand Nine Hundred Forty and Fifty Paise Only	569702.50	Rupees Five Lakh Sixty Nine Thousand Seven Hundred Two and Fifty Paise Only
123	L SHAPE TABLE Providing and fixing in position an **Executive Cabin Table (L-Shaped)** of approximate size 2400 mm (L) × 2300 mm (W) × 750 mm (H) made of 18 mm thick pre-laminated engineered wood board conforming to IS:12823, with 2 mm PVC edge banding all around. The table shall have a modesty panel, return unit with lockable 3-drawer pedestal (1 filing and 2 utility drawers), CPU unit, cable manager, and keyboard tray (if required). All hardware such as hinges, channels, locks, and handles shall be of approved make. The surface shall be scratch-, heat-, and stain-resistant, finished in approved colour and shade. Complete with all fittings, accessories, and installation as directed by the Engineer.	Each	6.00	88834.00	Rupees Eighty Eight Thousand Eight Hundred Thirty Four Only	533004.00	Rupees Five Lakh Thirty Three Thousand Four Only

124	Specification: Size:1800L x 750D x 750Ht Providing and fixing **T3 Cabin Table** with side composite storage of overall size 1800mm(L) x 750mm(D) x 750mm(H) with side unit 1200mm(L) x 450mm(D) x 750mm(H) made of 25mm thick pre-laminated particle board (E1 grade) finished with 2mm PVC edge banding on all exposed edges, supported on MS powder-coated "Colours" type legs with horizontal MS support beams, all MS parts powder-coated with minimum 60-micron thickness in approved colour. The table shall have a 450mm high perforated metal modesty panel and a 450mm long aluminium flip-up wire manager with soft closure, MS cable dump, and vertical MS vertebrae for cable management. The side storage unit shall be made of 18mm thick pre-laminated particle board for top, sides, and shutters, 9mm thick pre-laminated particle board for back, all exposed edges with 2mm PVC lipping, fitted with finger groove handles and Cam Lock (T3 type). All hardware such as hinges, slides, and locks shall be of approved make. The entire table and storage shall be factory finished, smooth, durable, and installed complete as per approved drawings and as directed by the Engineer-in-charge.	Each	34.00	46284	Rupees Forty Six Thousand Two Hundred Eighty Four Only	1573656.00	Rupees Fifteen Lakh Seventy Three Thousand Six Hundred Fifty Six Only
125	Size: 1500L X 750D X 750Ht Providing and fixing **T4 Cubicle Table** having a table top made of 25mm thick pre-laminated particle board conforming to E1 norms, finished with 2mm thick PVC edge banding on all exposed edges. The table shall be supported on MS powder-coated "Colours" type legs with supporting MS beams for rigidity and stability, all MS components duly powder-coated with a minimum 60-micron thickness in approved shade. Wire management system shall consist of a 450mm long aluminium flip-up cover with soft closure mechanism and provision for mounting electrical switches and sockets on MS tray, along with intermediate leg having wire entry cover for neat cable routing. The unit shall be factory finished, installed complete in position, and executed as per approved drawings and as directed by the Architect/Engineer-in-charge	Each	61.00	21225.00	Rupees Twenty One Thousand Two Hundred Twenty Five Only	1294725.00	Rupees Twelve Lakh Ninety Four Thousand Seven Hundred Twenty Five Only
126	**WORKSTATION L Shape** - PARTITION SYSTEMSize: 1350 X 600 Specifications - Partition system Partition: Height - 1200mm frame with top and sides in Aluminium trims and junctions with diecast caps. Table Top: 25mm thick Pre laminate particle board with 2mm PVC edge lipping on all exposed edges Support: 18mm thick pre laminated gable ends. Wiremanagement : 65mm Grommet cap on table & One metal raceway tile to mount switches below table top level for power and skirting tile for data. Tile Finishes : Above table top Level: Fabric Tiles, one glass marker tile & one magnetic tile per workstation. Below table Top level: Pre-Laminated tiles and metal skirting tile on Main spine towards userT5. The work shall be completed in accordance with the approved drawing, manufacturer's specifications, and as directed by the Engineer-in-Charge.	Each	167.00	42400	Rupees Forty Two Thousand Four Hundred Only	7080800.00	Rupees Seventy Lakh Eighty Thousand Eight Hundred Only
127	**Conference table** Size: 6000 X 1760 X 750 mm Ht Specifications Table Top: 25mm thick pre laminated particle board with 2mm PVC edge lipping. Support: End Legs: 50mm thick pre laminated particle board with 2mm PVC edge lipping & 3 equal drawer pedetal. Modesty Panel: 18mm thk pre lam board with 2mm PVC edge lipping of 450mm Ht. Wire Management: * Continuous PVC Cable Tray with provision to mount switches and sockets as per client requirement. * Vertical wire entry cover for wire uptake from floor to cable tray and Slide connect for switch access. * Slide connect Configuration - Standard switch configuration no deviation 2 Power, 2 USB Charger 1 Network 1 HDMIT6 WORK STATION	Each	1.00	305000	Rupees Three Lakh Five Thousand Only	305000.00	Rupees Three Lakh Five Thousand Only
128	Providing and fixing a **V-shaped boardroom meeting table** as per design suitable for seating approximately 26–28 persons, including tabletop, understructure, modesty panels, leg frames, and a complete cable management system. The tabletop shall be made of 25 mm thick pre-laminated particle board (E1 grade) finished with 1 mm high-pressure laminate in approved shade and 2 mm PVC edge banding, all edges machine-pressed and rounded. The understructure shall be fabricated from 50×25×1.6 mm thick MS rectangular hollow sections, epoxy powder-coated (min. 60 microns) in approved colour with necessary cross supports and adjustable levelling glides. Modesty panels of 18 mm pre-laminated MDF/particle board matching the tabletop finish shall be provided for stability and concealment of cables. Cable management shall include 450 mm aluminium flip-up boxes with soft closure and provision for power and data sockets mounted on MS trays beneath the tabletop, with wiring concealed within the frame. The table shall have an overall height of +75 cm with an inner recessed presentation zone at +65 cm as shown in drawing, ensuring smooth, flush joints and premium workmanship. The finish shall be in approved laminate (e.g., walnut/oak) with matching modesty panels and powder-coated metal legs. All hardware such as mini-fix connectors, screws, and fasteners shall be of approved make. The item includes complete supply, fabrication, transportation, assembly, and installation at site, cleaning and finishing, and carrying a minimum one-year warranty on workmanship and materials	Each	1	432500	Rupees Four Lakh Thirty Two Thousand Five Hundred Only	432500.00	Rupees Four Lakh Thirty Two Thousand Five Hundred Only
	CHAIR						

129	Providing and fixing Medium Back Revolving **Office Chair with adjustable headrest,** ergonomically designed mesh back made of high-quality nylon frame with breathable mesh upholstery, self-calibrating multi-lock reclining mechanism for synchronized back and seat movement, height-adjustable lumbar support, one-way (height-adjustable) armrests with soft-touch pads, seat constructed from durable plywood with high-density PU moulded foam upholstered in approved fabric, supported on a heavy-duty five-star nylon base with smooth-rolling twin-wheel casters, including cost and conveyance of all materials, labour, tools, and tackles, etc., complete as directed by the Engineer-in-Charge. **The colour shall be as approved by the Engineer-in-Charge**, and the chair shall be supplied with a minimum 3-year manufacturer warranty.	Each	11.00	18255	Rupees Eighteen Thousand Two Hundred Fifty Five Only	200805.00	Rupees Two Lakh Eight Hundred Five Only
130	Providing and fixing **Medium Back Mesh Office Chair** with ergonomically designed mesh back made of high-quality nylon frame and breathable mesh upholstery, self-calibrating multi-lock reclining mechanism for synchronized back and seat movement, height-adjustable lumbar support, one-way (height-adjustable) armrests with soft-touch pads, seat made of durable plywood with high-density PU moulded foam upholstered with approved fabric, supported on a heavy-duty nylon five-star base with smooth-rolling twin-wheel PU casters, including cost and conveyance of all materials, labour, tools, and tackles, etc., complete as directed by the Engineer-in-Charge. **The colour shall be as approved by the Engineer-in-Charge,** and the chair shall be supplied with a minimum 3-year manufacturer warranty.	Each	326	10219.5	Rupees Ten Thousand Two Hundred Nineteen and Fifty Paise Only	3331557.00	Rupees Thirty Three Lakh Thirty One Thousand Five Hundred Fifty Seven Only
131	Providing and fixing Medium Back **Visitor Chair** with backrest made of PP(Polypropylene) with fibre outer shell and square mesh upholstery, fixed armrests made of PP with fibre, seat constructed from durable material upholstered with approved fabric, supported on a 2.1mm thick fixed round tubular mild steel cantilever base, powder-coated chrome finish, including cost and conveyance of all materials, labour, tools, and tackles, etc., complete as directed by the Engineer-in-Charge. **The colour shall be as approved by the Engineer-in-Charge**, and the chair shall be supplied with a minimum 3-year manufacturer warranty. a) Ground Floor Conference Room chair : 80 Nos (Selected Colour Shade)	Each	252.00	8119	Rupees Eight Thousand One Hundred Nineteen Only	2045988.00	Rupees Twenty Lakh Forty Five Thousand Nine Hundred Eighty Eight Only
132	Providing and supplying centre table of size 900 x 600 mm and 600 mm height, suitable for waiting areas. The table shall have a wooden frame and legs made of high-quality seasoned hardwood, finished with approved wood stain and protective clear polish. The tabletop shall be fitted with an 8 mm thick clear glass top with polished edges, fixed securely over the wooden frame using clear silicone spacers. All joints and surfaces shall be neatly finished, and the item completed in all respects as per approved design and directions of the Engineer/Architect.	Each	11.00	14550	Rupees Fourteen Thousand Five Hundred Fifty Only	160050.00	Rupees One Lakh Sixty Thousand Fifty Only
133	Providing and fixing custom Reception Table of size 8000mm (L) x 700mm (D) x 1100mm (H), fabricated using 19mm thick BWP plywood with necessary internal supports. The table shall have all exposed surfaces finished with 12mm thick solid acrylic surface (approved make), and all recessed/internal surfaces finished with 1mm thick laminate of approved shade. It shall include a 6mm thick lacquered glass fixed with 3M double-sided tape as per architectural drawing, one modular 3-drawer mobile pedestal unit, one powder-coated metal CPU trolley, and a 75mm dia wire manager. The item shall include all necessary hardware such as SS 'H' handles, telescopic slides, ISI-marked locks with master key, hinges, teakwood lipping/moulding finished with melamine polish, and all required fasteners. Complete in all respects as per architectural drawing and instructions of the Engineer-in-Charge.	Sqm	9.24	44870	Rupees Forty Four Thousand Eight Hundred Seventy Only	414598.80	Rupees Four Lakh Fourteen Thousand Five Hundred Ninety Eight and Eighty Paise Only
134	Providing and fixing Storage made of 18 mm thick BWP 710 ply for Carcass and shutter,finished with selected 1mm laminate of approved make. Internal shelf to be made with 9 mm thk. BWP 710 plywood finished with approved 0.7 mm thk colour laminate. All extrnal surfaces includes top, sides, shutters finished with 1.0 mm thk. approved laminate in specified colours and make running on (approved materials) channel,hinges, wheels and guide complete, including locking arrangement for storage	Sqm	306.14	16873.5	Rupees Sixteen Thousand Eight Hundred Seventy Three and Fifty Paise Only	5165720.78	Rupees Fifty One Lakh Sixty Five Thousand Seven Hundred Twenty and Seventy Eight Paise Only
	MEP						
R	**PLUMBING**						
	SANITARY FIXTURES (SUPPLY+FIXING)						
135	Supplying and Fixing at site in position white glazed vitreous china a.**Wall mounted** type (European style) water closet with C.P bolts, nuts, soild white plastic seat and lid, PVC brass hinges and rubber buffers with suitable cistern flushing complete include cutting and making good the walls and floors wherever requried.including Concealed Flush Tank,Minimum Unit Rate for supply, not less than 29000. (Flush tank-Concealed- Gebberit 2 switch model) and (WC-Cera Cat No. :S1044183)	Each	49.00	31900	Rupees Thirty One Thousand Nine Hundred Only	1563100.00	Rupees Fifteen Lakh Sixty Three Thousand One Hundred Only
136	Supplying and Fixing at site in position white vitreous china wash basin with C.I/MS brackets painted white, C.P brass waste coupling of standard pattern, CP tube and union, including cutting and making good the walls wherever required complete. (CERA Cat No. :S2020185), ,Minimum Unit Rate for supply, not less than 4100	Each	43.00	4950	Rupees Four Thousand Nine Hundred Fifty Only	212850.00	Rupees Two Lakh Twelve Thousand Eight Hundred Fifty Only
137	Supply & Fixing at site in position C.P ablution spray health faucet with eye hook, one metre long flexible tube with wall flange all compete including cutting and making good the walls wherever required. (Including good quality angle cock) [Health faucet-Jaquar ALD-CHR-573]+[Angle valve-JaquarOPP-CHR-15053PM] Minimum Unit Rate for supply, not less than 2550	Each	49.00	3000	Rupees Three Thousand Only	147000.00	Rupees One Lakh Forty Seven Thousand Only

138	Fixing at site in position soap tray by means of screws and rawl plug embedded in the walls compete including cutting and making good the walls wherever required.[Jaquar ACN-CHR-1131N] Minimum Unit Rate for supply, not less than 695	Each	43.00	925	Rupees Nine Hundred Twenty Five Only	39775.00	Rupees Thirty Nine Thousand Seven Hundred Seventy Five Only
139	Supplying and Fixing at site in position 15mm dia C.P brass bib cocks with wall flange, including cutting and making good the walls wherever required.[JAQUAROPP-CHR-15037PM] a. Long body tap Minimum Unit Rate for supply, not less than 1950	Each	49.00	2175	Rupees Two Thousand One Hundred Seventy Five Only	106575.00	Rupees One Lakh Six Thousand Five Hundred Seventy Five Only
140	Supplying and Fixing at site in position 15mm dia angle valve with CP wall flange etc complete with wall flange including cutting and making good the walls wherever required.[Angle valve-JaquarOPP-CHR-15053PM]Minimum Unit Rate for supply, not less than 1100	Each	112.00	1340	Rupees One Thousand Three Hundred Forty Only	150080.00	Rupees One Lakh Fifty Thousand Eighty Only
141	Supply & Fixing testing and commissioning at site in position S S grattings for toilet drainage. (Viking) Minimum Unit Rate for supply, not less than 675	Each	70.00	800	Rupees Eight Hundred Only	56000.00	Rupees Fifty Six Thousand Only
142	Fixing at site in position **Pillar tap** with CP tube and union, CP tube connector including cutting and making wood the wall wherever required complete (JAQUAR auto closing type PRS-CHR-031) Minimum Unit Rate for supply, not less than 2350	Each	43.00	2590	Rupees Two Thousand Five Hundred Ninety Only	111370.00	Rupees One Lakh Eleven Thousand Three Hundred Seventy Only
143	Supply & Fixing at site in position Bottle trap with CP tube and union, CP tube connector including cutting and making wood the wall wherever required complete.(All wash & Sink)Jaquar SS ,ALD-SSF-769L250X190 Minimum Unit Rate for supply, not less than 2750	Each	43.00	3600	Rupees Three Thousand Six Hundred Only	154800.00	Rupees One Lakh Fifty Four Thousand Eight Hundred Only
144	Supplying and Fixing at site in position **Urinal with sensor** by means of screws and rawl plug embedded in the walls complete including cutting and making good the walls wherever required. (CERA Urinal Calcia EFS ,with integrated EFS Cat No. :S4010101) Minimum Unit Rate for supply, not less than 16000	Each	20.00	18500	Rupees Eighteen Thousand Five Hundred Only	370000.00	Rupees Three Lakh Seventy Thousand Only
	INTERNAL DRAINAGE (Including material & Labour)						
145	Supply & Fixing at site position u PVC pipe of 6kg/cm^2 (IS:4985) including injection moulding fitting with bosses where required e.g. tees, bends, coupling and adapters and jointing with adhesive approved by manufactures including cutting and making good the walls and floors or surface mounted with clamps as required at site (For waste-toilet inside & balcony drain pipes)						
	Internal Wok						
a	110mm(OD)		231.00	700	Rupees Seven Hundred Only	161700.00	Rupees One Lakh Sixty One Thousand Seven Hundred Only
b	75mm	Rmt	252.00	440	Rupees Four Hundred Forty Only	110880.00	Rupees One Lakh Ten Thousand Eight Hundred Eighty Only
c	50mm	Rmt	145.00	370	Rupees Three Hundred Seventy Only	53650.00	Rupees Fifty Three Thousand Six Hundred Fifty Only
	Outside Work						
a	110mm (OD)	Rmt	280.00	750	Rupees Seven Hundred Fifty Only	210000.00	Rupees Two Lakh Ten Thousand Only
b	160mm (OD)	Rmt	120.00	1090	Rupees One Thousand Ninety Only	130800.00	Rupees One Lakh Thirty Thousand Eight Hundred Only
c	75mm	Rmt	15.00	440	Rupees Four Hundred Forty Only	6600.00	Rupees Six Thousand Six Hundred Only
146	SWR -Rain Water Pipe (Type A)						
a	110mm	Rmt	250.00	560	Rupees Five Hundred Sixty Only	140000.00	Rupees One Lakh Forty Thousand Only
b	75mm	Rmt	125.00	395	Rupees Three Hundred Ninety Five Only	49375.00	Rupees Forty Nine Thousand Three Hundred Seventy Five Only
147	Supply & fixing at site in postion uPVC fabricated floor trap & bose tee (if needed) a. Multiple floor trap deep seal	Each	70.00	660	Rupees Six Hundred Sixty Only	46200.00	Rupees Forty Six Thousand Two Hundred Only
148	Supply & fixing at site in position slotted rails in toilet & duct area (including rail leg, U bolt, Nut, washer & anchor fastner						
a	UP to 30cm length	Each	60.00	210	Rupees Two Hundred Ten Only	12600.00	Rupees Twelve Thousand Six Hundred Only
b	UP to 90cm length	Each	120.00	350	Rupees Three Hundred Fifty Only	42000.00	Rupees Forty Two Thousand Only
c	UP to 1 mtr length	Each	100.00	590	Rupees Five Hundred Ninety Only	59000.00	Rupees Fifty Nine Thousand Only
149	Supply & fixing at site in position universal clamps in toilet area including threded rod, nut, washer & anchor fastner						
a	32mm	Each	50.00	50	Rupees Fifty Only	2500.00	Rupees Two Thousand Five Hundred Only
b	50mm	Each	50.00	150	Rupees One Hundred Fifty Only	7500.00	Rupees Seven Thousand Five Hundred Only
c	75mm	Each	10.00	200	Rupees Two Hundred Only	2000.00	Rupees Two Thousand Only
d	110mm	Each	350.00	250	Rupees Two Hundred Fifty Only	87500.00	Rupees Eighty Seven Thousand Five Hundred Only
e	160mm	Each	110.00	300	Rupees Three Hundred Only	33000.00	Rupees Thirty Three Thousand Only
150	Supply & fixing at site in position PVC rodding eye (6 kg cm^2)						

a	160mm rodding eye	Each	12.00	805	Rupees Eight Hundred Five Only	9660.00	Rupees Nine Thousand Six Hundred Sixty Only
b	110mm rodding eye	Each	20.00	590	Rupees Five Hundred Ninety Only	11800.00	Rupees Eleven Thousand Eight Hundred Only
	WATER SUPPLY (Including material & Labour)						
151	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc						
	Inside work						
a	nominal outer dia Pipes 20mm	Rmt	634.00	598.46	Rupees Five Hundred Ninety Eight and Forty Six Paise Only	379424.72	Rupees Three Lakh Seventy Nine Thousand Four Hundred Twenty Four and Seventy One Paise Only
b	nominal outer dia Pipes 25mm	Rmt	121.00	698.26	Rupees Six Hundred Ninety Eight and Twenty Six Paise Only	84489.58	Rupees Eighty Four Thousand Four Hundred Eighty Nine and Fifty Seven Paise Only
c	nominal outer dia Pipes metre 32 mm	Rmt	76.00	823.00	Rupees Eight Hundred Twenty Two and Ninety Nine Paise Only	62547.71	Rupees Sixty Two Thousand Five Hundred Forty Seven and Seventy Paise Only
	Outside work						
151	**DSR Item No.18.9.** 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 onestep CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.						
a	DSR Item No.18.9.3. nominal outer dia Pipes 25mm	Rmt	26.00	395.63	Rupees Three Hundred Ninety Five and Sixty Three Paise Only	10286.51	Rupees Ten Thousand Two Hundred Eighty Six and Fifty Paise Only
b	DSR Item No.18.9.4. nominal outer dia Pipes 32mm	Rmt	51.00	488.25	Rupees Four Hundred Eighty Eight and Twenty Five Paise Only	24900.95	Rupees Twenty Four Thousand Nine Hundred and Ninety Four Paise Only
c	DSR Item No.18.9.5. nominal outer dia Pipes 40mm	Rmt	48.00	626.79	Rupees Six Hundred Twenty Six and Seventy Nine Paise Only	30086.06	Rupees Thirty Thousand Eighty Six and Five Paise Only
d	DSR Item No.18.9.6 nominal outer dia Pipes 50mm (Including Pumping Line)	Rmt	120.00	884.17	Rupees Eight Hundred Eighty Four and Sixteen Paise Only	106100.05	Rupees One Lakh Six Thousand One Hundred and Four Paise Only
e	DSR Item No.18.9.7. nominal outer dia Pipes 65mm	Rmt	276.00	1863.96	Rupees One Thousand Eight Hundred Sixty Three and Ninety Five Paise Only	514452.64	Rupees Five Lakh Fourteen Thousand Four Hundred Fifty Two and Sixty Three Paise Only
f	DSR Item No.18.9.9. nominal outer dia Pipes 100 mm	Rmt	20.00	3642.09	Rupees Three Thousand Six Hundred Forty Two and Eight Paise Only	72841.78	Rupees Seventy Two Thousand Eight Hundred Forty One and Seventy Eight Paise Only
	Inside Work						
152	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 onestep CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes	Rmt	150.00	305.35	Rupees Three Hundred Five and Thirty Five Paise Only	45803.03	Rupees Forty Five Thousand Eight Hundred Three and Two Paise Only
153	Supplying and fixing long MS hot puddle flange fabricated						
a	100mm	Each	5.00	3000	Rupees Three Thousand Only	15000.00	Rupees Fifteen Thousand Only
b	50mm	Each	5.00	1750	Rupees One Thousand Seven Hundred Fifty Only	8750.00	Rupees Eight Thousand Seven Hundred Fifty Only
154	Supply & Fixing at site in position Bronze body lever operated stainless steel ball valve (PN 10) of approved make with necessary MTA fittings in position as per drawings.						
a	20mm	Each	11.00	900	Rupees Nine Hundred Only	9900.00	Rupees Nine Thousand Nine Hundred Only
b	25mm	Each	13.00	1160	Rupees One Thousand One Hundred Sixty Only	15080.00	Rupees Fifteen Thousand Eighty Only
c	32mm	Each	22.00	1985	Rupees One Thousand Nine Hundred Eighty Five Only	43670.00	Rupees Forty Three Thousand Six Hundred Seventy Only

d	40mm	Each	1.00	2750	Rupees Two Thousand Seven Hundred Fifty Only	2750.00	Rupees Two Thousand Seven Hundred Fifty Only
e	50mm	Each	4.00	4450	Rupees Four Thousand Four Hundred Fifty Only	17800.00	Rupees Seventeen Thousand Eight Hundred Only
f	65mm	Each	5.00	5000	Rupees Five Thousand Only	25000.00	Rupees Twenty Five Thousand Only
g	100mm	Each	4.00	5350	Rupees Five Thousand Three Hundred Fifty Only	21400.00	Rupees Twenty One Thousand Four Hundred Only
155	Supply & Fixing Automatic air release valve						
a	25mm dia	Each	12.00	900	Rupees Nine Hundred Only	10800.00	Rupees Ten Thousand Eight Hundred Only
	MISCELLANEOUS ITEMS (Including material & Labour)						
156	Supply & fixing electronic automatic level controller	Each	4.00	26500	Rupees Twenty Six Thousand Five Hundred Only	106000.00	Rupees One Lakh Six Thousand Only
157	Removal of existing plumbing items like CP sanitary and Piping ,then handing over to CoPA						
157.A	Dismantling W.C. Pan/ Wash Basin /Urinal of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge.						
	WC Pan	Each	30.00				
	Wash basin	Each	32.00				
	Urinal	Each	17.00				
	Total	Each	79.00	149.28	Rupees One Hundred Forty Nine and Twenty Eight Paise Only	11793.24	Rupees Eleven Thousand Seven Hundred Ninety Three and Twenty Three Paise Only
157.B	Dismantling PVC concealed pipes (110mm, 75mm, 50mm, 20mm) and dismantling fittings, Shifting of office furniture etc	Each					
	Unskilled Labours	Each	120.00	993.6	Rupees Nine Hundred Ninety Three and Sixty Paise Only	119232.00	Rupees One Lakh Nineteen Thousand Two Hundred Thirty Two Only
158	RCC Slab core cutting and GP2 water proofing upto 110mm dia	Each	12.00	1500	Rupees One Thousand Five Hundred Only	18000.00	Rupees Eighteen Thousand Only
159	RCC Slab core cutting upto 160mm dia and GP2 water proofing	Each	12.00	1750	Rupees One Thousand Seven Hundred Fifty Only	21000.00	Rupees Twenty One Thousand Only
160	RCC Beam core cutting upto 110mm dia	Each	10.00	1250	Rupees One Thousand Two Hundred Fifty Only	12500.00	Rupees Twelve Thousand Five Hundred Only
161	RCC Beam core cutting upto 160mm dia	Each	10.00	1500	Rupees One Thousand Five Hundred Only	15000.00	Rupees Fifteen Thousand Only
S	**FIRE PROTECTION SYSTEM**						
	FIRE HYDRANT SYSTEM						
162	Supply,Installation, testing and commissioning of Horizontal mounted end suction **Electric motor driven Main Pump** suitable for automatic operation rated for 2280 **LPM at 40 mtr head**, high efficency, volute type with cast iron casing, Cast iron impeller pump coupled to a squirrel cage induction motor of **40 HP**, **TEFC**. The operating voltage is 415v 3 phase 50 Hz. The pumpset is of foot mounted type including all accessories such as standard coupling, coupling guard, common baseframe, foundation bolts,etc. complete.Suitable cement concrete foundation duly plastered with anti vibration pads.Make: :KIRLOSKAR	Set	2.00	3,49,421.00	Rupees Three Lakh Forty Nine Thousand Four Hundred Twenty One Only	698842.00	Rupees Six Lakh Ninety Eight Thousand Eight Hundred Forty Two Only
163	Supply,Installation, testing and commissioning of Horizontal mounted end suction **Diesel Engine Driven Standby Pump** suitable for automatic operation rated for 2280 LPM at 40 mtr head, high efficency, volute type with cast iron casing, Bronze impeller pump of 50 HP, with exhaust piping up to 10 mtr with thermal insulation . Suitable cement concrete foundation duly plastered and with anti vibration pads. **(Including Supply installation of control panel)** Make: :KIRLOSKAR	Set	1.00	6,39,343.00	Rupees Six Lakh Thirty Nine Thousand Three Hundred Forty Three Only	639343.00	Rupees Six Lakh Thirty Nine Thousand Three Hundred Forty Three Only
164	Supply, Installation, Testing and Commissioning **Electrically driven Mono block Jockey pump** of capacity **180 LPM** with all the necessary accessories operating on 3 Ph. 50 Hz. 415 V AC supply including foundation bolts etc. complete, The Pump set shall be of **10 HP**. Suitable cement concrete foundation duly plastered and with anti vibration pads.Make: :KIRLOSKAR	Set	2.00	87,105.00	Rupees Eighty Seven Thousand One Hundred Five Only	174210.00	Rupees One Lakh Seventy Four Thousand Two Hundred Ten Only
165	Supplying and fixing air vessel made of 250 mm dia,8 mm thick MS sheet, 1200 mm in height with airrelease valve on top and flanged connection to riser, arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gaugeand painting with synthetic enamel paint of approved shade as required.	Set	1.00	19,402.00	Rupees Nineteen Thousand Four Hundred Two Only	19402.00	Rupees Nineteen Thousand Four Hundred Two Only
166	Supply, installation, testing and commissioning of **Pressure Gauge** with required range/capacity.Make: H-Guru / National	Each	2.00	1,350.00	Rupees One Thousand Three Hundred Fifty Only	2700.00	Rupees Two Thousand Seven Hundred Only
167	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required. 100mm dia Make: H-Guru / National	Each	9.00	8,069.00	Rupees Eight Thousand Sixty Nine Only	72621.00	Rupees Seventy Two Thousand Six Hundred Twenty One Only

168	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required. Make: Indfoss	Each	4.00	1,670.00	Rupees One Thousand Six Hundred Seventy Only	6680.00	Rupees Six Thousand Six Hundred Eighty Only
169	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze seat duly ISI marked complete with nuts, bolts,washers, gaskets conforming to IS13095 of following sizes as required.Make: Karthar/CRI						
a	a) 200 mm Dia	Each	RO	16,248.00	Rupees Sixteen Thousand Two Hundred Forty Eight Only		
b	b) 150 mm Dia	Each	5.00	9,737.00	Rupees Nine Thousand Seven Hundred Thirty Seven Only	48685.00	Rupees Forty Eight Thousand Six Hundred Eighty Five Only
c	c) 100 mm Dia	Each	5.00	7,271.00	Rupees Seven Thousand Two Hundred Seventy One Only	36355.00	Rupees Thirty Six Thousand Three Hundred Fifty Five Only
d	d) 80 mm Dia	Each	12.00	5,406.00	Rupees Five Thousand Four Hundred Six Only	64872.00	Rupees Sixty Four Thousand Eight Hundred Seventy Two Only
170	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts,washers etc.as required :Make: Karthar/CRI					0.00	
a	a) 150 mm Dia	Each	5.00	18,884.00	Rupees Eighteen Thousand Eight Hundred Eighty Four Only	94420.00	Rupees Ninety Four Thousand Four Hundred Twenty Only
b	b) 100 mm Dia	Each	1.00	11,853.00	Rupees Eleven Thousand Eight Hundred Fifty Three Only	11853.00	Rupees Eleven Thousand Eight Hundred Fifty Three Only
c	c) 80 mm Dia	Each	2.00	8,255.00	Rupees Eight Thousand Two Hundred Fifty Five Only	16510.00	Rupees Sixteen Thousand Five Hundred Ten Only
171	Providing, laying, testing & commissioning of 'C' class medium duty MS. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frameand painting with two or more coats of synthetic enamel paint of required shade complete as required :Make: Jindal/TATA 200 mm Nominal Dia	Mtr	20	6,620.00	Rupees Six Thousand Six Hundred Twenty Only	132400.00	Rupees One Lakh Thirty Two Thousand Four Hundred Only
172	Providing, laying, testing & commissioning of 'B' class medium duty MS. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :Make: Jindal/TATA						
a	150 mm Nominal Dia	Mtr	90	2,630.00	Rupees Two Thousand Six Hundred Thirty Only	236700.00	Rupees Two Lakh Thirty Six Thousand Seven Hundred Only
b	100 mm Nominal Dia	Mtr	50	1,925.00	Rupees One Thousand Nine Hundred Twenty Five Only	96250.00	Rupees Ninety Six Thousand Two Hundred Fifty Only
c	80 mm Nominal Dia	Mtr	70	1,514.00	Rupees One Thousand Five Hundred Fourteen Only	105980.00	Rupees One Lakh Five Thousand Nine Hundred Eighty Only
d	65 mm Nominal Dia	Mtr	150	1,330.00	Rupees One Thousand Three Hundred Thirty Only	199500.00	Rupees One Lakh Ninety Nine Thousand Five Hundred Only
e	50 mm Nominal Dia	Mtr	200	1,066.00	Rupees One Thousand Sixty Six Only	213200.00	Rupees Two Lakh Thirteen Thousand Two Hundred Only
f	40 mm Nominal Dia	Mtr	125	966.00	Rupees Nine Hundred Sixty Six Only	120750.00	Rupees One Lakh Twenty Thousand Seven Hundred Fifty Only
g	32 mm Nominal Dia	Mtr	25	785.00	Rupees Seven Hundred Eighty Five Only	19625.00	Rupees Nineteen Thousand Six Hundred Twenty Five Only
h	25 mm Nominal Dia	Mtr	790	711.00	Rupees Seven Hundred Eleven Only	561690.00	Rupees Five Lakh Sixty One Thousand Six Hundred Ninety Only
173	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/Class -II of IS: 3589 i/c fittings like elbows,tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosivetreatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required. Make: Jindal/TATA						
	150 mm Nominal Dia	Mtr	200	5,104.00	Rupees Five Thousand One Hundred Four Only	1020800.00	Rupees Ten Lakh Twenty Thousand Eight Hundred Only

174	Supply, erection, testing and commissioning of instantaneous pattern SS Single Headed Hydrant valve of 63mm Dia With ISI mark, oblique type, instantaneous hose coupling adaptor complete with PVC blank cap etc.Single headed Stainless steel Make: Monsher/Newage	Set	9	6,632.00	Rupees Six Thousand Six Hundred Thirty Two Only	59688.00	Rupees Fifty Nine Thousand Six Hundred Eighty Eight Only
175	Supply of SS Branch Pipe, 63mm female instantaneous inlet, male threaded outlet, With ISI Mark complete with hexagonal base nozzle.Stainless Steel (Grade 304) Make: Monsher/Newage	Set	17	3,402.00	Rupees Three Thousand Four Hundred Two Only	57834.00	Rupees Fifty Seven Thousand Eight Hundred Thirty Four Only
176	Supply of Non Percolated RRL Hose conforming to IS 636-2018 Type 1, 63mm dia, 15 Mtrs length with SS 63 mm pair of male and female couplings With ISI Mark etc. Make: Monsher/Newage	Set	17	4,667.00	Rupees Four Thousand Six Hundred Sixty Seven Only	79339.00	Rupees Seventy Nine Thousand Three Hundred Thirty Nine Only
177	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.(a) 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 (Length 30m) (b) 20 mm nominal internal dia gun metal globevalve & nozzle. (c) Drum and brackets for fixing the equipmets on wall. (d) Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket. Make: Monsher/Newage	Set	9	9,440.00	Rupees Nine Thousand Four Hundred Forty Only	84960.00	Rupees Eighty Four Thousand Nine Hundred Sixty Only
178	Supply and erection of Single Door Hose Cabinet spray painted with PO red colour to accommodate one piece of hose pipe along with one pair of male and female coupling and one branch pipe. The cabinet is made of 20swg M.S Sheet, glass fronted with hinged door and lock. Make: Friends/Capital Gains	Set	9	2,150.00	Rupees Two Thousand One Hundred Fifty Only	19350.00	Rupees Nineteen Thousand Three Hundred Fifty Only
179	Supply and erection of Double Door Weatherproof Hose Cabinet spray painted with PO red colour to accommodate two pieces of 15m RRL hose pipe along with two pair of male and female coupling and two branch pipes. The cabinet is made of 20swg M.S Sheet, glass fronted with hinged door and lock. (For yard hydrants) Make: Friends/Capital Gains	Set	4	2,950.00	Rupees Two Thousand Nine Hundred Fifty Only	11800.00	Rupees Eleven Thousand Eight Hundred Only
180	Supply, installation, testing and commissioning of 68dg Sprinkler Heads. Pendent Type Make: Sharp/Monsher	Each	425	599.00	Rupees Five Hundred Ninety Nine Only	254575.00	Rupees Two Lakh Fifty Four Thousand Five Hundred Seventy Five Only
181	Supply, installation, testing and commissioning of single acting Air Release Valve with screwed inlet 15 mm dia etc.Make: Atom/TBS	Each	2	1,400.00	Rupees One Thousand Four Hundred Only	2800.00	Rupees Two Thousand Eight Hundred Only
182	Supplying and fixing of fire brigade connection of cast iron body with SS male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required: 4 way 150 mm dia M.S. Pipe Make: Karthar/Equi	Set	1	14,820.00	Rupees Fourteen Thousand Eight Hundred Twenty Only	14820.00	Rupees Fourteen Thousand Eight Hundred Twenty Only
183	Supply, fabricating, testing and commissioning of SS Tank Filling Unit connection with 3 nos of 63 mm dia. built - in NRV instantaneous coupling type .etc. Make: Karthar/Equi	Each	1	6,500.00	Rupees Six Thousand Five Hundred Only	6500.00	Rupees Six Thousand Five Hundred Only
184	Yard Hydrant Points attached to ring line-Supplying and fixing Double headed external yard hydrant valve with 2 No. 63 mm dia instantaneous FM Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Stainless Steel cap and chain as required Make: Karthar/Equi	Set	4	10,500.00	Rupees Ten Thousand Five Hundred Only	42000.00	Rupees Forty Two Thousand Only
185	Supplying, installation, testing & commissioning of following SS Strainer Make: Karthar/CRI						
	80mm strainer	Each	2	5,117.00	Rupees Five Thousand One Hundred Seventeen Only	10234.00	Rupees Ten Thousand Two Hundred Thirty Four Only
	100mm strainer	Each	Ro	7,270.00	Rupees Seven Thousand Two Hundred Seventy Only		
	150mm strainer	Each	3	11,682.00	Rupees Eleven Thousand Six Hundred Eighty Two Only	35046.00	Rupees Thirty Five Thousand Forty Six Only
186	Flexible pipe for sprinkler (70cm)Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mmNPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required. Make: Sharp/Monsher/Equi	Each	425	1,495.00	Rupees One Thousand Four Hundred Ninety Five Only	635375.00	Rupees Six Lakh Thirty Five Thousand Three Hundred Seventy Five Only
187	MS Channel support for laying pipes (Hi-Tech Support)	KG	400	145.00	Rupees One Hundred Forty Five Only	58000.00	Rupees Fifty Eight Thousand Only
	AUTOMATIC FIRE ALARM SYSTEM						
188	Supply, Installation, testing and commissioning of Manual Call Point break glass type as per standrad specification.Make: Ravel/Agni/Equi	Each	9	513.00	Rupees Five Hundred Thirteen Only	4617.00	Rupees Four Thousand Six Hundred Seventeen Only
189	Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate & suitable foroperation with amplifier i/c line matching transformer etc.complete as required.Make: Ravel/Agni/Equi	Each	16	600.00	Rupees Six Hundred Only	9600.00	Rupees Nine Thousand Six Hundred Only
190	Supply, Installation, testing and commissioning of **Smoke Detector** as per standrad specification. Make: Ravel/System senseor/GST	Each	206	1,223.00	Rupees One Thousand Two Hundred Twenty Three Only	251938.00	Rupees Two Lakh Fifty One Thousand Nine Hundred Thirty Eight Only
191	Supply, Installation, testing and commissioning of **Heat Detector** as per standrad specification. Make: Ravel/System senseor/GST	Each	2	1,136.00	Rupees One Thousand One Hundred Thirty Six Only	2272.00	Rupees Two Thousand Two Hundred Seventy Two Only
192	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable,600/1000V rated with annealed copper conductor havingXLPE insulation, steel wire armouring & FRLS/HFFR outer sheath complete as required.Make: Finolex/RR/Polycab	Mtr	1850	192.00	Rupees One Hundred Ninety Two Only	355200.00	Rupees Three Lakh Fifty Five Thousand Two Hundred Only

193	Talk back unit in each floor-Supplying, installation, testing & commissioning talk back slave station in surface/recess suitable for operation on simplex mode complete with P.T.T. knob & speaker/microphone enclosed in a M.S.(16 SWG)/ ABS box with break glass in front etc. complete as required.Make: Ravel/Agni	Each	9	963.00	Rupees Nine Hundred Sixty Three Only	8667.00	Rupees Eight Thousand Six Hundred Sixty Seven Only
194	Talk back system central module in Fire control room Make: Ravel/Agni	Each	1	65,000.00	Rupees Sixty Five Thousand Only	65000.00	Rupees Sixty Five Thousand Only
195	PA speaker-Ceiling Mounted Loud Speaker: Rated Power – 6 Watts, Rated Voltage: 100 volts,Effective frequency range :(80 Hz to 16000 Hz).(For Indoor Speaker) (Make -Ahuja)	Each	52	1,025.00	Rupees One Thousand Twenty Five Only	53300.00	Rupees Fifty Three Thousand Three Hundred Only
196	Speaker wiring-2 Core 1.5Sq mm FRLSH type Multistranded shielded cable for speaker system Make: Finolex/RR/Polycab	Mtr	1030	61.00	Rupees Sixty One Only	62830.00	Rupees Sixty Two Thousand Eight Hundred Thirty Only
197	25mm Med duty Conduit for speaker (Balco/Precision) ISI approved	Mtr	1030	168.00	Rupees One Hundred Sixty Eight Only	173040.00	Rupees One Lakh Seventy Three Thousand Forty Only
198	Supply, installing, testing and commissioning of Main Fire alarm control panel of 24 zones capacity, with visual LED indications for fire / fault alarms, signals and should have stage alarm facility. The panel shall be fabricated by M.S. sheet and powder coated both inside &Make: Ravell/Agni/Equi out side, door shall be glass fronted type with locking arrangement, as per specification.	Each	1	65,000.00	Rupees Sixty Five Thousand Only	65000.00	Rupees Sixty Five Thousand Only
199	PA System Mic-digital microphone capable of supporting upto 2 zones, inclusive of provision to announce over background music and a press-to-talk key, It should have an Analog-to-digital audio conversion circuit within the call station (Make-Ahuja)	Each	1	9,500.00	Rupees Nine Thousand Five Hundred Only	9500.00	Rupees Nine Thousand Five Hundred Only
200	PA System amplifier-Power Amplifier - 500 watts for the amplification of audio signals for speakers. The amplifier shall support only 2 zones each of 250 watts. It shall be possible to select output voltages of 100 V, 70 V or 50 V, The power amplifier will have a 2 x 16-character display for status display and must be usable free-standing (tabletop) or in a 19" rack mounting arrangement. (make-Ahuja)	Each	1	27,000.00	Rupees Twenty Seven Thousand Only	27000.00	Rupees Twenty Seven Thousand Only
	FIRE EXTINGUISHERS						
201	Supplying, and fixing of Extinguisher- IS 15683-2018,stored pressure type, powder coated with ABC powder conforming to IS 4308 for use in all types of fires ,of 4 Kgs. Capacity, with initial filling in brand new cylinder with powder coated finish, fitted with SS metal union, discharge hose, wall mounting bracket etc. complete,Make: Winmex/Saftyone	Each	40	1,650.00	Rupees One Thousand Six Hundred Fifty Only	66000.00	Rupees Sixty Six Thousand Only
202	Supplying, and fixing of CO2 type fire extinguisher of 4.5 Kgs. Capacity, Cylinder conforming to IS 7285 PESO approved -IS 15683-2018 Make: Winmex/Saftyone	Each	6	4,600.00	Rupees Four Thousand Six Hundred Only	27600.00	Rupees Twenty Seven Thousand Six Hundred Only
203	Supplying, and fixing of CO2 type fire extinguisher of 2 Kgs. Capacity, Cylinder conforming to IS 7285 PESO approved -IS 15683-2018 Make: Winmex/Saftyone	Each	6	3,050.00	Rupees Three Thousand Fifty Only	18300.00	Rupees Eighteen Thousand Three Hundred Only
204	Supplying, and fixing of **clean agent** type fire extinguisher of 4 Kgs.Stored pressure type, powder coated with ABC powder conforming to IS 4308 for use in all types of fires Capacity, with initial filling in brand new cylinder with powder coated finish, fitted with Gun metal union, discharge hose, wall mounting bracket etc. complete, as per IS 15683-2018 Make: Winmex/Saftyone	Each	15	6,500.00	Rupees Six Thousand Five Hundred Only	97500.00	Rupees Ninety Seven Thousand Five Hundred Only
	Fire Signages						
205	Supplying and fixing in position self glowing "FIRE DUCT" sign boards made of luminescent safely, rigid sheet in green colour, photo luminescent with two hanging chains & necessary supports to hang it on ceiling.	Each	9	350	Rupees Three Hundred Fifty Only	3150.00	Rupees Three Thousand One Hundred Fifty Only
206	Supplying and fixing in position self glowing "FIRE EXIT" sign boards made of luminescent safely, rigid sheet in green colour, photo luminescent with two hanging chains & necessary supports to hang it on ceiling.	EACH	18	350	Rupees Three Hundred Fifty Only	6300.00	Rupees Six Thousand Three Hundred Only
207	Supply, installation, testing and commissioning of LED light illuminated EXIT Signage	EACH	18	2950	Rupees Two Thousand Nine Hundred Fifty Only	53100.00	Rupees Fifty Three Thousand One Hundred Only
208	FIRE EVACUATION PLAN(A3 SIZE) in good quality lamination	EACH	9	1000	Rupees One Thousand Only	9000.00	Rupees Nine Thousand Only
209	Removal of existing fire protection system ,then handing over to CoPA						
a	Fitter	EACH	28	1500	Rupees One Thousand Five Hundred Only	42000.00	Rupees Forty Two Thousand Only
b	Helper	EACH	28	1000	Rupees One Thousand Only	28000.00	Rupees Twenty Eight Thousand Only
T	**HVAC**						
A	**Equipment - Full invertor VRF Air Conditioning System**						
	Note: Design to be approved by the OEM prior to the design finalisation.						
	Supply of Air Conditioning System of below mentioned models & capacity and complete with the following. **(Make-Daikin/Mitsubishi Heavy/Toshiba)**						
	OUTDOOR UNITS						

210	Supplying, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling/heating having 100% hermetically sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R-410-A Refrigerant or equivalent, vibration Isolators with suitable foundation etc. complete as required. To have better efficiency condenser fan shall be capable to operate at different speed with respect to load. The unit shall deliver the rated capacity and in confirmation as per IS 18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to deliver 100% of the rated capacity upto 39 0C. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply and BMS compatible. The unit shall be filled with first charge of the refrigerant and ready for use as required. The condenser should be coated with a hydrophilic film to prevent water accumulation on the surface of the heat exchanger, enhance water dispersion, and reduce the risk of degradation, thereby improving overall performance and durability. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per						
a	20HP Outdoor unit or equivalent nearest higher size	Each	4	382220.00	Rupees Three Lakh Eighty Two Thousand Two Hundred Twenty Only	1528880.00	Rupees Fifteen Lakh Twenty Eight Thousand Eight Hundred Eighty Only
b	16HP Outdoor unit or equivalent nearest higher size	Each	10	305776.00	Rupees Three Lakh Five Thousand Seven Hundred Seventy Six Only	3057760.00	Rupees Thirty Lakh Fifty Seven Thousand Seven Hundred Sixty Only
c	14HP Outdoor unit or equivalent nearest higher size	Each	2	267554.00	Rupees Two Lakh Sixty Seven Thousand Five Hundred Fifty Four Only	535108.00	Rupees Five Lakh Thirty Five Thousand One Hundred Eight Only
d	8HP Outdoor unit or equivalent nearest higher size	Each	1	167576.00	Rupees One Lakh Sixty Seven Thousand Five Hundred Seventy Six Only	167576.00	Rupees One Lakh Sixty Seven Thousand Five Hundred Seventy Six Only
	Total no of Odus		17				
	(Minimum 2 ODU per each floor for redundancy)						
	Note-ODU installation with necessary machine foundation recommended by the OEM and vibration dampers to be considered in scope of the HVAC work						
	INDOOR UNITS						
211	Supplying, Installation, Testing and Commissioning of following minimum capacity and external static pressure VRF/VRV ceiling mounted high ductable type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, corded remote control, outer cabinet, vibration Isolators, drain pan, drain pump, other necessary supports etc., suitable for operation on single phase AC supply 230 V ± 10%, 50 Hz complete as required. The Indoor units must shut down upon receiving a singal from the BMS System/Fire Singnals. The cooling capacity of indoor unit will be at air inlet conditions of 27 0C DB and 19 0C WB temperature.						
a	5 Tr Ductable split 1800CFM or equivalent nearest higher size	Each	4	74394	Rupees Seventy Four Thousand Three Hundred Ninety Four Only	297576.00	Rupees Two Lakh Ninety Seven Thousand Five Hundred Seventy Six Only
b	3 Tr Ductable split 1200CFM or equivalent nearest higher size	Each	2	40166	Rupees Forty Thousand One Hundred Sixty Six Only	80332.00	Rupees Eighty Thousand Three Hundred Thirty Two Only
	VRF/VRV 4Way ceiling cassetteSupply and Installation						
212	Supplying, Installation, Testing and Commissioning of following minimum capacity 4 way Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration Isolation, Corded remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, complete, as required. The Indoor units must shut down upon receiving a singal from the BMS System/Fire Singnals. The system shall be capable to adjust air flow as per room requirement in auto mode. The cooling capacity of indoor unit will be at air inlet conditions of 27 degC DB and 19 degC WB temperature.						
a	2.8 Tr Cassette or equivalent nearest higher size	Each	9	40814	Rupees Forty Thousand Eight Hundred Fourteen Only	367326.00	Rupees Three Lakh Sixty Seven Thousand Three Hundred Twenty Six Only
b	2.3 Tr Cassette or equivalent nearest higher size	Each	10	40814	Rupees Forty Thousand Eight Hundred Fourteen Only	408140.00	Rupees Four Lakh Eight Thousand One Hundred Forty Only
c	2 Tr Cassette or equivalent nearest higher size	Each	14	39734	Rupees Thirty Nine Thousand Seven Hundred Thirty Four Only	556276.00	Rupees Five Lakh Fifty Six Thousand Two Hundred Seventy Six Only

d	1.7 Tr Cassette or equivalent nearest higher size	Each	12	35250	Rupees Thirty Five Thousand Two Hundred Fifty Only	423000.00	Rupees Four Lakh Twenty Three Thousand Only
e	1.5 Tr Cassette or equivalent nearest higher size	Each	18	39464	Rupees Thirty Nine Thousand Four Hundred Sixty Four Only	710352.00	Rupees Seven Lakh Ten Thousand Three Hundred Fifty Two Only
f	1.3 Tr Cassette or equivalent nearest higher size	Each	8	38601	Rupees Thirty Eight Thousand Six Hundred One Only	308808.00	Rupees Three Lakh Eight Thousand Eight Hundred Eight Only
g	1.0 Tr Cassette or equivalent nearest higher size	Each	40	27880	Rupees Twenty Seven Thousand Eight Hundred Eighty Only	1115200.00	Rupees Eleven Lakh Fifteen Thousand Two Hundred Only
213	**VRF/VRV High Wall AC- Supply and Installation**						
a	2Tr High wall or equivalent nearest higher size	Each	2	22674	Rupees Twenty Two Thousand Six Hundred Seventy Four Only	45348.00	Rupees Forty Five Thousand Three Hundred Forty Eight Only
b	1.5Tr High Wall or equivalent nearest higher size	Each	2	22027	Rupees Twenty Two Thousand Twenty Seven Only	44054.00	Rupees Forty Four Thousand Fifty Four Only
214	**VRF/VRV 4Way Compact cassette Supply and Installation**					0.00	
a	0.8 Tr Cassette or equivalent nearest higher size	Each	15	25122	Rupees Twenty Five Thousand One Hundred Twenty Two Only	376830.00	Rupees Three Lakh Seventy Six Thousand Eight Hundred Thirty Only
b	0.6 Tr Cassette or equivalent nearest higher size	Each	7	22610	Rupees Twenty Two Thousand Six Hundred Ten Only	158270.00	Rupees One Lakh Fifty Eight Thousand Two Hundred Seventy Only
	Total no of IDUs		143				
B	**Installation - Air Conditioning System**						
215	Supplying, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :						
a	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Mtr	350	256	Rupees Two Hundred Fifty Six Only	89600.00	Rupees Eighty Nine Thousand Six Hundred Only
b	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Mtr	350	346	Rupees Three Hundred Forty Six Only	121100.00	Rupees One Lakh Twenty One Thousand One Hundred Only
c	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Mtr	300	487	Rupees Four Hundred Eighty Seven Only	146100.00	Rupees One Lakh Forty Six Thousand One Hundred Only
d	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2mm	Mtr	300	615	Rupees Six Hundred Fifteen Only	184500.00	Rupees One Lakh Eighty Four Thousand Five Hundred Only
e	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	Mtr	250	739	Rupees Seven Hundred Thirty Nine Only	184750.00	Rupees One Lakh Eighty Four Thousand Seven Hundred Fifty Only
f	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2mm	Mtr	250	904	Rupees Nine Hundred Four Only	226000.00	Rupees Two Lakh Twenty Six Thousand Only
g	25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2mm	Mtr	200	1068	Rupees One Thousand Sixty Eight Only	213600.00	Rupees Two Lakh Thirteen Thousand Six Hundred Only
h	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2mm	Mtr	200	1157	Rupees One Thousand One Hundred Fifty Seven Only	231400.00	Rupees Two Lakh Thirty One Thousand Four Hundred Only
i	31.8 mm dia (OD) (Hard drawn) with tube thickness 1.62mm	Mtr	150	1222	Rupees One Thousand Two Hundred Twenty Two Only	183300.00	Rupees One Lakh Eighty Three Thousand Three Hundred Only
j	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62mm	Mtr	150	1286	Rupees One Thousand Two Hundred Eighty Six Only	192900.00	Rupees One Lakh Ninety Two Thousand Nine Hundred Only
k	38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62mm	Mtr	100	1322	Rupees One Thousand Three Hundred Twenty Two Only	132200.00	Rupees One Lakh Thirty Two Thousand Two Hundred Only
l	41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	Mtr	100	1368	Rupees One Thousand Three Hundred Sixty Eight Only	136800.00	Rupees One Lakh Thirty Six Thousand Eight Hundred Only
216	Supply installation of Refnet Y for branching the copper pipe, Joints shall be of same Original Equipment Manufacturer (OEM) make as of ODUs and IDUs	Each	179	4535	Rupees Four Thousand Five Hundred Thirty Five Only	811765.00	Rupees Eight Lakh Eleven Thousand Seven Hundred Sixty Five Only
217	Supply installation of 'Communication Cable - 1 Pair 22 AWG Shielded Cable with PVC Conduit	Mtr	910	165	Rupees One Hundred Sixty Five Only	150150.00	Rupees One Lakh Fifty Thousand One Hundred Fifty Only

218	Supply installation of 32mm PVC pipes for condensate Drain with 9mm thick Nitrile Rubber Insulation.	Mtr	450	200	Rupees Two Hundred Only	90000.00	Rupees Ninety Thousand Only
219	Supply, fabricate, handle and erect factory fabricated GSS ducting as per drawing, complete with all fittings such as tee bends, special off-chutes, turning vanes, splitter dampers, ins.doors, transformation pieces slip on flanges etc. as reqd. as per IS 655 including suspension and supporting arrangement for plenums, ducts, complete as reqd. and as per specs.(only hitech supports shall be used) wall opening as good as same '0.80mm GSS ducting in sq.m.-22G	Sqm	130	1415	Rupees One Thousand Four Hundred Fifteen Only	183950.00	Rupees One Lakh Eighty Three Thousand Nine Hundred Fifty Only
220	Supply installation of 'THERMAL INSULATION-Supply & fixing of 9 mm thick class 0 nitrile rubber insulation with adhesive as per the recommendation of the manufacture with density 45-55kg/m3	Sqm	130	400	Rupees Four Hundred Only	52000.00	Rupees Fifty Two Thousand Only
221	Supply installation of 'ACOUSTIC INSULATION- Supply & fixing of 10 mm thick class 0 acoustic insulation with adhesive as per the recommendation of the manufacture with density 140-180kg/m3	Sqm	130	950	Rupees Nine Hundred Fifty Only	123500.00	Rupees One Lakh Twenty Three Thousand Five Hundred Only
222	Duct dampers-Supply, fix, balance, and commission louvre type smooth supply air duct dampers made of extruded aluminium linkage, lever, fixing arrangement etc.complete brass bushings	sqm	RO	5250	Rupees Five Thousand Two Hundred Fifty Only		
223	Supply and fixing of powder coated aluminium grilles and diffuser as per specifications	Sqm	10	6285	Rupees Six Thousand Two Hundred Eighty Five Only	62850.00	Rupees Sixty Two Thousand Eight Hundred Fifty Only
224	Supply & installation of 'Fire retardant type canvas connection for 5Tr IDU	Each	4	2000	Rupees Two Thousand Only	8000.00	Rupees Eight Thousand Only
225	Supply & installation of Plenum box for 3Trx2Nos machine connection	Each	1	15000	Rupees Fifteen Thousand Only	15000.00	Rupees Fifteen Thousand Only
226	Supply & installation of 'Fire retardant type canvas connection for 3Tr IDU	Each	2	1800	Rupees One Thousand Eight Hundred Only	3600.00	Rupees Three Thousand Six Hundred Only
227	Supply & installation of wired key card controller	Each	179	2250	Rupees Two Thousand Two Hundred Fifty Only	402750.00	Rupees Four Lakh Two Thousand Seven Hundred Fifty Only
228	Supply & installation of wireless remote controller	Each	179	1000	Rupees One Thousand Only	179000.00	Rupees One Lakh Seventy Nine Thousand Only
229	Supply , Charging and commissioning of Refrigerant Gas R410A as per actual OEM requirements .	Each	1	25000	Rupees Twenty Five Thousand Only	25000.00	Rupees Twenty Five Thousand Only
230	Removal of existing AC system and handing over to CoPA						
	Technician (labour)	Each	7	1500	Rupees One Thousand Five Hundred Only	10500.00	Rupees Ten Thousand Five Hundred Only
	Assistant (labour)	Each	7	1000	Rupees One Thousand Only	7000.00	Rupees Seven Thousand Only
	Equipment						
	Supply and installation of ventillation fans of below mentioned models & capacity and complete with the following.						
	DUCTABLE FAN UNIT						
	(System Air or equivalent make)						
231	6000CFM -Supply installation testing and commissioning of 6000CFM ventillation fan at terrace area with adequate supports or equivalent nearest higher size	Set	4	65000	Rupees Sixty Five Thousand Only	260000.00	Rupees Two Lakh Sixty Thousand Only
232	Supply installation of 600CFM inline DUCT exhaust fan or equivalent nearest higher size	Each	1	9500	Rupees Nine Thousand Five Hundred Only	9500.00	Rupees Nine Thousand Five Hundred Only
233	Supply installation of 500CFM inline DUCT exhaust fan or equivalent nearest higher size	Each	6	8500	Rupees Eight Thousand Five Hundred Only	51000.00	Rupees Fifty One Thousand Only
234	Supply installation of 300CFM inline DUCT exhaust fan or equivalent nearest higher size	Each	14	4500	Rupees Four Thousand Five Hundred Only	63000.00	Rupees Sixty Three Thousand Only
235	Supply installation of Ceiling recessed exhaust fan 20x20cm (Havells make)	Each	10	2000	Rupees Two Thousand Only	20000.00	Rupees Twenty Thousand Only
236	Supply, fabricate, handle and erect factory fabricated GSS ducting as per drawing, complete with all fittings such as tee bends, special off-chutes, turning vanes, splitter dampers, ins.doors, transformation pieces slip on flanges etc. as reqd. as per IS 655 including suspension and supporting arrangement for plenums, ducts, complete as reqd. and as per specs.(only hitech supports shall be used) wall opening as good as same'0.80mm GSS ducting in sq.m.-22G	Sqm	250	1415	Rupees One Thousand Four Hundred Fifteen Only	353750.00	Rupees Three Lakh Fifty Three Thousand Seven Hundred Fifty Only
237	Supply and fixing of ceiling cone diffuser for ventillation 30cmx30cm	Each	98	1150	Rupees One Thousand One Hundred Fifty Only	112700.00	Rupees One Lakh Twelve Thousand Seven Hundred Only
238	Supply installation of 160mm 6kg/sqcm PVC pipe with required supports for ceiling exhaust	mtr	50	1100	Rupees One Thousand One Hundred Only	55000.00	Rupees Fifty Five Thousand Only
U	**ELV**						
	All works to be carried out according to relevant IS specifications whether so mentioned in description of works or not. Only electrically operated instruments including hammer drilling, core cutting, groove cutting and other equipment shall be used for chasing, cutting, drilling, threading etc.						
	The schedule of probable quantities may vary on the higher side or lower side. Hence, during material pocurement, the contractor shall workout the actual quantites based on the good for construction/shop drawings issued for execution as per the project manager's direction. The rate quoted in the tender is for finished actual work done. All extra and surplus material if any will be at contractor's risk and must be carried away from the site upon completion and hand over of the works.						

	All Products must be on Trusted Telecom Portal of DThe system integrator carrying out the SITC shall make the system entirely operational for its intended use, by addition of components ,cables, equipments specific to its make/model even if not specifically mentioned in the BoQ without any additional cost.epartment of Telecommunication, Government of India etc. complete as required.						
	DATA/ TELEPHONE/ TV SYSTEM AND ASSOCIATED WIRING						
	All items supplied and installed to be with an offering of 5Year onsite warranty .						
239	Supply and fixing telephone socket (telephone jack single two line RJ 11 on factory made MS box including supply of box giving connection etc as required.(Legrand/ Schneider/ Wipro)						
	Supply	Each	310	241.00	Rupees Two Hundred Forty One Only	74710.00	Rupees Seventy Four Thousand Seven Hundred Ten Only
	Labour	Each	310	228.00	Rupees Two Hundred Twenty Eight Only	70680.00	Rupees Seventy Thousand Six Hundred Eighty Only
240	Supply and fixing corded telephone(Panasonic)KX-TSC62SXB						
	Supply	Each	310	1,750.00	Rupees One Thousand Seven Hundred Fifty Only	542500.00	Rupees Five Lakh Forty Two Thousand Five Hundred Only
	Labour	Each	310	150.00	Rupees One Hundred Fifty Only	46500.00	Rupees Forty Six Thousand Five Hundred Only
241	Supply/ Drawing of 0.5sq mm cu wire pair in 25mm PVC conduit. (for telephone) (Finolex/ Havell's) (Conduit work for telephone wiring-Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting as required)						
	Supply	Mtr	8100	100.00	Rupees One Hundred Only	810000.00	Rupees Eight Lakh Ten Thousand Only
	Labour	Mtr	8100	63.00	Rupees Sixty Three Only	510300.00	Rupees Five Lakh Ten Thousand Three Hundred Only
242	Supply, Installation OF ARMOURED JELLY FILLED TELEPHONE CABLES Armoured Telephone Cable -50 pair(Finolex/ Havell's)						
	Supply	Mtr	150	369.00	Rupees Three Hundred Sixty Nine Only	55350.00	Rupees Fifty Five Thousand Three Hundred Fifty Only
	Labour	Mtr	150	63.00	Rupees Sixty Three Only	9450.00	Rupees Nine Thousand Four Hundred Fifty Only
243	Supply, Installation OF ARMOURED JELLY FILLED TELEPHONE CABLES Armoured Telephone Cable -100 pair(Finolex/ Havell's)						
	Supply	Mtr	150	674.00	Rupees Six Hundred Seventy Four Only	101100.00	Rupees One Lakh One Thousand One Hundred Only
	Labour	Mtr	150	63.00	Rupees Sixty Three Only	9450.00	Rupees Nine Thousand Four Hundred Fifty Only
244	Supply, Fitting and Termination charge of 50 Pair MDF Box with Krone module.						
	Supply	Each	10	3,500.00	Rupees Three Thousand Five Hundred Only	35000.00	Rupees Thirty Five Thousand Only
	Labour	Each	10	1,000.00	Rupees One Thousand Only	10000.00	Rupees Ten Thousand Only
245	Supply, Fitting and Termination charge of 100 Pair MDF Box with Krone module.						
	Supply	Each	10	5,500.00	Rupees Five Thousand Five Hundred Only	55000.00	Rupees Fifty Five Thousand Only
	Labour	Each	10	1,500.00	Rupees One Thousand Five Hundred Only	15000.00	Rupees Fifteen Thousand Only
246	Mini exhange for HOD rooms -Supply Installation Commissioning and Testing of Fully Unified Communication EPABX System , Complete Converge with Voice, with upto 10 Analouge extensions,Digital Console Rack Mountable Kit In Built Features: Auto Attendend(Voice Response System) Audio Conference Least Call Routing. (Make-Matrix, NEC, Panasonic ,Syntel or equivalent)						
	Supply	Each	4	45,000.00	Rupees Forty Five Thousand Only	180000.00	Rupees One Lakh Eighty Thousand Only
	Labour	Each	4	2,500.00	Rupees Two Thousand Five Hundred Only	10000.00	Rupees Ten Thousand Only
247	Supply and installation of Modular type LAN Socket **(Dual i/o Port)** in suitable metal box as per standards complete as required and as directed by engineer in charge.(Legrand/ Schneider/ Wipro)						
	Supply	Each	845	661.00	Rupees Six Hundred Sixty One Only	558545.00	Rupees Five Lakh Fifty Eight Thousand Five Hundred Forty Five Only
	Labour	Each	845	228.00	Rupees Two Hundred Twenty Eight Only	192660.00	Rupees One Lakh Ninety Two Thousand Six Hundred Sixty Only
248	Supply and installation of **CAT 6E / OFC** cable including the supply installation of 25mm PVC conduit. (Comsol/Commscope cable) with Balco or Precison ISI med duty conduit as per the requirements and standards (finishing the surface back to previous condition for concealed conduiting as required)						
	Supply	Mtr	26125	68.00	Rupees Sixty Eight Only	1776500.00	Rupees Seventeen Lakh Seventy Six Thousand Five Hundred Only

	Labour	Mtr	26125	47.00	Rupees Forty Seven Only	1227875.00	Rupees Twelve Lakh Twenty Seven Thousand Eight Hundred Seventy Five Only
	Supply and installation of OF Cisco 48-port Gigabit Smart Switch (SF350-48P with following specifications or equivalent model from cisco with all the specifications described below)						
249	Supplying, installation, Testing and commissioning of following capacity 48 port Layer 3 manageable Network Switch having features and specifications etc. as mentioned here under: At least 48 X RJ-45 Gigabit Ethernet Ports and additional 4 combo 10/100/1000 base-t/SFP Ports with additional 4 SFP+ ports non-blocking architecture by having Switching capacity of min. 128Gbps and packet forwarding rate of 95Mpps or higher, 16K MAC table. Console Port, USB port, Internal AC Power supply with operating temperature of 0 to +50 0C. Stacking port with stacking support of minimum 8 units per stack. 48K Mac address, 9K or more Jumbo frame, ERPS with enabling ring to converge in less than 50 ms from node or link failure, Static routing, Static, 6to4, ISATAP and GRE, IPv6 Neighbor Discovery (ND), BGP, ISIS, MPLS, VRRP v2, OSPFv2/v3, PBR, Route Redistribution, RIPv1/v2/ng, IP Helper all L3 Protocols should support from day 1 for both IPv6 and IPv4, 802.1x, Port security , Radius C TACACS+ authentication C accounting, DAD, DAI, DoS attack prevention, SSH, Guest VLAN, IP Access List, MAC Access List, Multicast: VLAN, PIM-SM, PIMDM, PIM- SDM, PIM-SMv6, DVMRP v3 and MSDP, IGMP C						
	Supply	Each	20	225000.00	Rupees Two Lakh Twenty Five Thousand Only	4500000.00	Rupees Forty Five Lakh Only
	Labour	Each	20	10,000.00	Rupees Ten Thousand Only	200000.00	Rupees Two Lakh Only
250	Supply and installation of of 12 U, Legrand (H62xW60xD50cm)(Cat no-4654 28) ProTek wall mount side openable . IP55, Front Door with Filter, Louver & Unique key Lock. 10 Socket PDU 6Amp - 1 No. Self adhesive thermal foam from inside. Hood For Air Inlet at front side and with Cantilever Trays 12Nos						
	Supply	Each	20	35,000.00	Rupees Thirty Five Thousand Only	700000.00	Rupees Seven Lakh Only
	Labour	Each	20	2,000.00	Rupees Two Thousand Only	40000.00	Rupees Forty Thousand Only
251	Supply and installation of Readymade 2500mm standard length, prefabricated, perforated cable tray from MS sheet and then hot dip galvanised, of following sizes and associated accessories such as coupler plates, tees, elbow etc. Galvanisation thickness shall be minimum 86 Micron. 200 x 50mm (W x H) - (16 SWG - 1.6mm) with cover						
	Supply	Mtr	100	2,000.00	Rupees Two Thousand Only	200000.00	Rupees Two Lakh Only
	Labour	Mtr	100	200.00	Rupees Two Hundred Only	20000.00	Rupees Twenty Thousand Only
252	Supply and installation of Readymade 2500mm standard length, prefabricated, perforated cable tray from MS sheet and then hot dip galvanised, of following sizes and associated accessories such as coupler plates, tees, elbow etc. Galvanisation thickness shall be minimum 86 Micron. 300 x 50mm (W x H) - (16 SWG - 1.6mm) with cover						
	Supply	Mtr	100	2,500.00	Rupees Two Thousand Five Hundred Only	250000.00	Rupees Two Lakh Fifty Thousand Only
	Labour	Mtr	100	200.00	Rupees Two Hundred Only	20000.00	Rupees Twenty Thousand Only
253	Supply and installation of cat 6e cable including supply installation of 25mm PVC conduit. (Comsol/Commscope cable) with Balco or Precison ISI med duty conduit (for CCTV)(finishing the surface back to previous condition for concealed conduiting as required)						
	Supply	Mtr	2150	68.00	Rupees Sixty Eight Only	146200.00	Rupees One Lakh Forty Six Thousand Two Hundred Only
	Labour	Mtr	2150	47.00	Rupees Forty Seven Only	101050.00	Rupees One Lakh One Thousand Fifty Only
254	Indoor camera-Hikvision DS-2CD1023G0-IUF 2 MP Fixed Bullet Network Camera(STQC certified) or Equivalent model from same brand meeting the same or higher specifications						
	Supply	Each	9	4,550.00	Rupees Four Thousand Five Hundred Fifty Only	40950.00	Rupees Forty Thousand Nine Hundred Fifty Only
	Labour	Each	9	250.00	Rupees Two Hundred Fifty Only	2250.00	Rupees Two Thousand Two Hundred Fifty Only
255	Indoor camera-HIKVISION DS-2CD1323G0E-I 2MP Dome IP Camera Security Camera(STQC certified)or Equivalent model from same brand meeting the same or higher specifications						
	Supply	Each	40	4,800.00	Rupees Four Thousand Eight Hundred Only	192000.00	Rupees One Lakh Ninety Two Thousand Only
	Labour	Each	40	250.00	Rupees Two Hundred Fifty Only	10000.00	Rupees Ten Thousand Only
256	Outdoor Camera-HIKVISION DS-2CD1041G0-I 4MP Bullet IP Camera Security Camera(STQC certified)or Equivalent model from same brand meeting the same or higher specifications						
	Supply	Each	8	6,100.00	Rupees Six Thousand One Hundred Only	48800.00	Rupees Forty Eight Thousand Eight Hundred Only
	Labour	Each	8	250.00	Rupees Two Hundred Fifty Only	2000.00	Rupees Two Thousand Only

	Cisco POE switch 24Port (Dedicated to CCTV network) Catalyst C9300 Series with following specifications or equivalent Cisco make with following specifications						
257	Supplying, installation, Testing and commissioning of following capacity 24 port Layer 3 manageable Network Switch having features and specifications etc. as mentioned here under: At least 24 X RJ-45 Gigabit Ethernet POE Ports and additional 4 combo 10/100/1000 base-t/SFP Ports with additional 4 SFP+ ports non-blocking architecture by having Switching capacity of min. 128Gbps and packet forwarding rate of 95Mpps or higher, 16K MAC table. Console Port, USB port, Internal AC Power supply with operating temperature of 0 to +50 0C. Stacking port with stacking support of minimum 8 units per stack. 48K Mac address, 9K or more Jumbo frame, ERPS with enabling ring to converge in less than 50 ms from node or link failure, Static routing, Static, 6to4, ISATAP and GRE, IPv6 Neighbor Discovery (ND), BGP, ISIS, MPLS, VRRP v2, OSPFv2/v3, PBR, Route Redistribution, RIPv1/v2/ng, IP Helper all L3 Protocols should support from day 1 for both IPv6 and IPv4, 802.1x, Port security , Radius C TACACS+ authentication C accounting, DAD, DAI, DoS attack prevention, SSH, Guest VLAN, IP Access List, MAC Access List, Multicast: VLAN, PIM-SM, PIMDM, PIM- SDM, PIM-SMv6, DVMRP v3 and MSDP, IGMP C						
	Supply	Each	6	150000.00	Rupees One Lakh Fifty Thousand Only	900000.00	Rupees Nine Lakh Only
	Labour	Each	6	10,000.00	Rupees Ten Thousand Only	60000.00	Rupees Sixty Thousand Only
258	Supply and installation of of 6 U, Legrand (H36xW60xD50cm)(Cat no-4654 24) ProTek wall mount side openable . IP55, Front Door with Filter, Louver & Unique key Lock. 5 Socket PDU 6Amp - 1 No. Self adhesive thermal foam from inside. Hood For Air Inlet at front side and with Cantilever Trays 6Nos						
	Supply	Each	3	20,000.00	Rupees Twenty Thousand Only	60000.00	Rupees Sixty Thousand Only
	Labour	Each	3	1,500.00	Rupees One Thousand Five Hundred Only	4500.00	Rupees Four Thousand Five Hundred Only
259	HIKVISION 32 Channel NVR with 4K 1U H.265+ 160 Mbps support with HDMI, and 10TB WD SSD. Camera support upto 5mp Camera						
	Supply	Each	2	59,000.00	Rupees Fifty Nine Thousand Only	118000.00	Rupees One Lakh Eighteen Thousand Only
	Labour	Each	2	5,000.00	Rupees Five Thousand Only	10000.00	Rupees Ten Thousand Only
	CCTV Monitor Displays -Integration						
	CCTV camera shall be integrated with the existing monitor/servers including giving connections etc.. Shall be in the scope of contractor without any additional cost						
	Dual-Band Wi-Fi 6 Access Point in ceiling (Cisco)						
260	Supplying, Installation, Testing and commissioning of indoor Wireless Access Point having features and specifications etc. as mentioned here under - Dual-band Wi-Fi6 (802.11ax) 574Mbps (2.4GHz) + 1200Mbps (5GHz), WI-FI 6 Certified, 1 x RJ45 console port, 1G LAN POE Port, factory reset, WPA/WPA2/WPA3™ Personal/Enterprise, WEP 64/128-bit, SSID broadcast disable, MAC address access control, Internal RADIUS server, SNMP, Customizable Captive Portal, Auto Channel, Works as Access Point, WDS, WDS with AP, Wireless Client, Web (HTTP), Secure Socket Layer (SSL), Traffic control, Support ATF/Fast Roaming/Band Steering, Supports enhanced security – WPA-PSK/WPA2- PSK/WPA3-PSK and RADIUS client, and Cipher negotiation, and MAC/ IP ACL for networks, Certifications: MTCTE, CE, FCC. Should also work as Standalone and must be Compatible with S/W & H/W Controller with addtional features like - Real-Time Monitoring and Alerts, Rich Advanced Features, Centralized Device Management, Role-Based Administration, Real-Time Monitoring, VLAN and Access Control, Auto RF Management and Bandwidth Optimization, Multi-SSID and Captive Portal Authentication.OEM/Product must be on Trusted Telecom Portal of Department of Telecommunication.						
	Supply	Each	60	20,739.00	Rupees Twenty Thousand Seven Hundred Thirty Nine Only	1244340.00	Rupees Twelve Lakh Forty Four Thousand Three Hundred Forty Only
	Labour	Each	60	2,000.00	Rupees Two Thousand Only	120000.00	Rupees One Lakh Twenty Thousand Only
	Wireless controller (Cisco) (Same brand of Wifi AP)						
261	Supplying, Installation, Testing and commissioning of indoor Wireless Controller having features and specifications etc. as mentioned here under- The network controller shall be a dedicated hardware appliance designed for centralized management ofwireless access points, It must support the management of up to 200 networking devices, The system should be on-premise, ensuring data privacyand complete control over network configurations. Itmust include an intuitive user interface for real-timemonitoring, device discovery, firmware upgrades,scheduling, and mass configuration deployment.Features such as role-based administration, multi-sitemanagement. AP to controller communication shall beuse of industry standards-based (IEEE or IETF)CAPWAP or any tunneling protocols as per guidelinesof DoT.The controller should support Layer 2 andLayer 3 device discovery, VLAN configuration, MACACL groups, IGMP snooping, and bandwidthoptimization. Automatic radio frequency (RF)management and access policy enforcement arerequired for reliable wireless performance. Thesolution must offer a comprehensive dashboard withnetwork topology, floor plan views, client and devicelists, and alert notifications. For authentication, it should support a range of methods including localdatabase, external RADIUS, LDAP, and passcode or MAC-based access.It should provide detailed traffic analytics, logs, and customizable reporting for network						

	Supply	Each	2	1,13,228.00	Rupees One Lakh Thirteen Thousand Two Hundred Twenty Eight Only	226456.00	Rupees Two Lakh Twenty Six Thousand Four Hundred Fifty Six Only
	Labour	Each	2	2,500.00	Rupees Two Thousand Five Hundred Only	5000.00	Rupees Five Thousand Only
262	Floor raceway 150 X 45 mm stackable in width in multiples of 150 mm snap fit lid, can be laid exposed to the floor usable on walls as well raw mill finish, can be powder coated in any color or anodized aluminium alloy						
	Supply	m	700	250.00	Rupees Two Hundred Fifty Only	175000.00	Rupees One Lakh Seventy Five Thousand Only
	Labour	m	700	100.00	Rupees One Hundred Only	70000.00	Rupees Seventy Thousand Only
263	Removal of existing all the ELV items ,then handing over to CoPA						
	Technician (labour)	Each	28	1,500.00	Rupees One Thousand Five Hundred Only	42000.00	Rupees Forty Two Thousand Only
	Asistant/Helper (labour)	Each	28	1,000.00	Rupees One Thousand Only	28000.00	Rupees Twenty Eight Thousand Only
264	Supplying, Installation, Testing and commissioning of small form-Pluggable (SFP) for Network Switches. Must be hot Pluggable, RoHS Complaint, etc. complete as required. (Cisco)						
a	1 G SFP + Single Mode/Multi Mode	Each	20	7,018.00	Rupees Seven Thousand Eighteen Only	140360.00	Rupees One Lakh Forty Thousand Three Hundred Sixty Only
b	10 G SFP + Single Mode/Multi Mode	Each	26	14,972.00	Rupees Fourteen Thousand Nine Hundred Seventy Two Only	389272.00	Rupees Three Lakh Eighty Nine Thousand Two Hundred Seventy Two Only
c	40 G SFP + Single Mode/Multi Mode	Each	10	42,110.00	Rupees Forty Two Thousand One Hundred Ten Only	421100.00	Rupees Four Lakh Twenty One Thousand One Hundred Only
265	Supplying, Installation of LC to SC Fibre patch cables 2m length-Optical Fiber Multi Mode or Single Mode LC to LC Fiber Duplex having high precision ceramic ferrule with good concentricity, Fiber corning single mode G652D, Cable Type 2mm with Mechanical specification Apex Offset < 50 µm, Fiber Height + 100 nm, End-face radius of Curvature 7mm < R <25mm, Repeatability < 0.2 db, Working ambient Temperature – 5 0C to +50 0C, Storage Temperature – 10 0C to +50 0C, Length -- 2meter, Type -- LC-LC Duplex etc complete as required.	Each	56	705.00	Rupees Seven Hundred Five Only	39480.00	Rupees Thirty Nine Thousand Four Hundred Eighty Only
266	Supplying Installation Testing and Commissioning of 24 port Cat6E Patch Panel	Each	6	5,278.00	Rupees Five Thousand Two Hundred Seventy Eight Only	31668.00	Rupees Thirty One Thousand Six Hundred Sixty Eight Only
267	Supplying Installation Testing and Commissioning of 48 port Cat6E Patch Panel	Each	20	10,200.00	Rupees Ten Thousand Two Hundred Only	204000.00	Rupees Two Lakh Four Thousand Only
268	Supplying, Installation, Testing and commissioning of following CAT6E Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D etc. complete as required-Copper Patch Cords of length 1m (3ft)	Each	850	173.00	Rupees One Hundred Seventy Three Only	147050.00	Rupees One Lakh Forty Seven Thousand Fifty Only
269	Supplying and drawing following core Multi mode Fiber Optic Cable having corrugated steel armoring, leser optimize 50/125 µm with HDPE jacket, LSZH (Low smoke Zero Halogen), Tight-buffered or loose tube, maximum attenuation: < 3.5 dB/km at 850 nm, < 1.5 dB/km at 1300 nm, bandwidth > 2000 MHz-km at 850 nm, > 500 MHz-km at 1300 nm compliance and certifications: ISO/IEC 11801 Ed. 2.2, ANSI/TIA-568-C.3, ITU-T G.651.1 RoHS compliant. Multi Mode Fiber shall be Central-loose tube filled with Thixotropic jelly, duly following Standards: ISO 11801, IEC 60793- 1/60794-1-2, ITU-T-REC G.652D and Telecordia GR- 20-core, High quality Electro Chromium Coated Corrugated Steel tape (ECCS) and HDPE- Sheath, Operating ambient Temperature should be – 5 0C to +50 0C and Storage Temperature should be – 5 0C to +50 0C, Maximum Attenuation ± 3.5 dB/km at Operational Wavelength 850 nm and ± 1.5 dB / km at Operational Wavelength 1300 nm . type of fiber should be 50/125 / G.652D & Refractive Index should be 1.483/1.478, The value for Mode-filed,Cladding Diameter 50 ± 2.5 µm and 125 ± 1µm correspondingly i/c splicing & marking etc complete as required.(Supply, installation of 25mm Balco or Precison	m	750	109.00	Rupees One Hundred Nine Only	81750.00	Rupees Eighty One Thousand Seven Hundred Fifty Only
270	24 Port LIUSupply and fixing following port Rack Mount loaded LIU with pigtail, Front-mounted cable saddles for jumper management, suitable to manage both splices and terminations, Pre-assembled shelves in multiple configurations, Rubber fiber slotted bracket built-in, metal splice shelf to protect the fibers, 2 fiber spools built-in for 900µm tight buffered fiber storing, Capable of storing up to 3 meters of 900µm tight buffered fiber per adapter, Removable front and rear covers for better access to interior of LIU, Should be Single / Multi mode LC Type fully loaded. Accessory kit consists of cable ties, mounting ear screws, and spiralwrap tube etc complete as required.	Each	2	10,049.00	Rupees Ten Thousand Forty Nine Only	20098.00	Rupees Twenty Thousand Ninety Eight Only
271	Supplying and fixing Patch Cord of Optical Fiber Multi Mode or Single Mode LC to LC Fiber Duplex having high precision ceramic ferrule with good concentricity, Fiber corning single mode G652D, Cable Type 2mm with Mechanical specification Apex Offset < 50 µm, Fiber Height + 100 nm, End-face radius of Curvature 7mm < R <25mm, Repeatability < 0.2 db, Working ambient Temperature – 5 0C to +50 0C, Storage Temperature – 10 0C to +50 0C, Length -- 2meter, Type -- LC-LC Duplex etc complete as required.	Each	10	705.00	Rupees Seven Hundred Five Only	7050.00	Rupees Seven Thousand Fifty Only
V	**AUDIO AND VIDEO System**						

	The system integrator carrying out the SITC shall make the system entirely operational for its intended use, by addition of components ,cables, equipments specific to its make/model even if not specifically mentioned in the BoQ without any additional cost.						
	All items supplied and installed to be with a offering of 5Year onsite warranty .						
	Conference Hall-Ground Floor						
272	Supplying, Installation of LED Wall Screen back stage- full HD or higher resolution (Make-Samsung) and shall be as per latest standards and as per TS in the tender.	Sq.ft	36	16,722	Rupees Sixteen Thousand Seven Hundred Twenty Two Only	601992.00	Rupees Six Lakh One Thousand Nine Hundred Ninety Two Only
273	Supply and installation of 2U rack mount 4 Channel Class D amplifier 2000W with internal DSP 96KHz with 10 band PEQ/ LS6/ LS12/ HS6/ HS12/ APF for each in and out, 20 presets, control through USB through computer, XLR input and XLR loop output connector, speakon connectors for speaker output, Power factor correction. THD< 0.05% in 20Hz to 20KHz, signal to noise ratio > 120 dB, frequency response- 20Hz- 20KHz, damping factor > 2000, amplifier input gain selector switches of 0.7/1.0/1.4 Front panel on/ off switch, front to rear airflow, front panel indication with on screen display Circuit protection- input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer Output circuitry- Class D - full bandwidth PWM modulator with ultra low distortion Power supply- Universal & regulated switch mode power supply with Power Factor Correction, Universal Mains, 90-270V AC Power rating- 500 Watts*4 @ 4Ω Per channel, 500watts*4 @ 8Ω Per channel(Make-3DB PRO)	Each	1	1,17,000.00	Rupees One Lakh Seventeen Thousand Only	117000.00	Rupees One Lakh Seventeen Thousand Only
274	Supply, Installation, Testing & Commissioning of 12-inch, Full range, 2-Way Passive Loudspeaker. Frequency Range (-10 dB)-46 Hz – 20 kHz, Power capacity - 400 W, Sensitivity-96 dB, Maximum Peak SPL-128dB, Coverage Angle-85° conical, LF Driver - 12-inch with 3-inch Voice Coil, HF Driver- 1-inch Exit, 1.75-inch voice coil, compression driver. Nominal Impedance-8Ω, Input Connections-2 × NL4, 1 × barrier strip, Enclosure-Trapezoidal, plywood, black texture paint finish, Perforated, powder-coated steel grille. (MAKE: QSC)	Each	4	63,700.00	Rupees Sixty Three Thousand Seven Hundred Only	254800.00	Rupees Two Lakh Fifty Four Thousand Eight Hundred Only
275	Supply, Installatton, Testing and commissioning of Wall mounting Speakers Bracket	Each	4	3,900.00	Rupees Three Thousand Nine Hundred Only	15600.00	Rupees Fifteen Thousand Six Hundred Only
276	Supply, Installation, Testing & Commissioning of 16 Channel Touch Screen Digital Mixer. 7" Diagonal Color TFT Screen, 16 Mic/Line Inputs (4 XLR, 4 XLR/Jack Combo), 2 Stereo Line Inputs (1/4" TRS), Stereo USB / MP3 Playback, 1 x Talkback Input with XLR Connector, 4 Band Parametric EQ, Gate & Compressor Input Processing, Balanced Main LR Output on 2 x XLR (Line Level), 6 x Balanced Aux Outputs on XLR (Line Level), 1 x Stereo TRS Headphone Output, 1 x Stereo TRS Monitor L/R Output, 1/3 Octave Graphic EQ, 6 Band Parametric EQ, Variable High & Low Pass filters, 8-Band Anti-Feedback Filters, Limiter, Delay Output Processing, Stereo mp3 & 22 x 22 Multitrack Recording & Playback direct to hard drive, 8 DCA Groups with Mute, 8 Mute Groups, 4 Simultaneous Effects Processing including Reverb, Echo, Delay, Chorus, Pitch Shift etc.1/3 Octave RTA assignable to channels or user selectable source, 99 User Scenes, 120 Factory Presete, 99 User Presets. External Control using wifi enabled iOS or Android devices, USB Wifi Adapter Included in Package, Selectable 44.1 kHz ot 48 kHz Sampling Frequency , 32 Bit Floating Point Internal Processing, THD <0.005% at +4 dBu, 20 Hz to 20 kHz, Unity Gain, any input to any output, Dynamic Range 105 dB,Crosstalk -80 dB, S/N Ratio -94 dB, Mic Input	Each	1	1,37,800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only	137800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only
a	Supplying, Installation of Mic -Wireless Handheld Microphone (Make-Norden)	Each	3	35,000.00	Rupees Thirty Five Thousand Only	105000.00	Rupees One Lakh Five Thousand Only
b	Supplying, Installation of Mic - Colar Microphone(Make-Norden)	Each	1	35,000.00	Rupees Thirty Five Thousand Only	35000.00	Rupees Thirty Five Thousand Only
c	Supplying, Installation of Mic -Gooseneck Microphone (Make-Norden)	Each	1	12,000.00	Rupees Twelve Thousand Only	12000.00	Rupees Twelve Thousand Only
d	Supplying, Installation of Microphones Floor Stand	Each	3	3,250.00	Rupees Three Thousand Two Hundred Fifty Only	9750.00	Rupees Nine Thousand Seven Hundred Fifty Only
	Conference Room-2nd Floor						
277	Supplying, Installation of Interactive LED Display 110" (Make-Samsung) Full HD or higher resolution with wall or ceiling mount fittings(Smart Interactive Flat Panel ,Ai, Multitouch Screen Display for Office Use)	Each	1	5,56,000.00	Rupees Five Lakh Fifty Six Thousand Only	556000.00	Rupees Five Lakh Fifty Six Thousand Only
278	Supply and installation of 2U rack mount 4 Channel Class D amplifier 1000W with internal DSP 96KHz with 10 band PEQ/ LS6/ LS12/ HS6/ HS12/ APF for each in and out, 20 presets, control through USB through computer, XLR input and XLR loop output connector, speakon connectors for speaker output, Power factor correction. THD< 0.05% in 20Hz to 20KHz, signal to noise ratio > 120 dB, frequency response- 20Hz- 20KHz, damping factor > 2000, amplifier input gain selector switches of 0.7/1.0/1.4 Front panel on/ off switch, front to rear airflow, front panel indication with on screen display Circuit protection- input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer Output circuitry- Class D - full bandwidth PWM modulator with ultra low distortion Power supply- Universal & regulated switch mode power supply with Power Factor Correction, Universal Mains, 90-270V AC Power rating- 250 Watts*4 @ 4Ω Per channel, 250watts*4 @ 8Ω Per channel(Make-3DB PRO)	Each	1	85,000.00	Rupees Eighty Five Thousand Only	85000.00	Rupees Eighty Five Thousand Only

279	Supply, Installation, Testing & Commissioning of 12-inch, Full range, 2-Way Passive Loudspeaker. Frequency Range (-10 dB)-46 Hz – 20 kHz, Power capacity - 250 W, Sensitivity-96 dB, Maximum Peak SPL-128dB, Coverage Angle-85° conical, LF Driver - 12-inch with 3-inch Voice Coil, HF Driver- 1-inch Exit, 1.75-inch voice coil, compression driver. Nominal Impedance-8Ω, Input Connections-2 × NL4, 1 × barrier strip, Enclosure-Trapezoidal, plywood, black texture paint finish, Perforated, powder-coated steel grille. (MAKE: QSC)	Each	4	45,000.00	Rupees Forty Five Thousand Only	180000.00	Rupees One Lakh Eighty Thousand Only
280	Supply, Installatton, Testing and commissioning of Wall mounting Speakers Bracket	Each	4	3,900.00	Rupees Three Thousand Nine Hundred Only	15600.00	Rupees Fifteen Thousand Six Hundred Only
281	Supply, Installation, Testing & Commissioning of 16 Channel Touch Screen Digital Mixer. 7" Diagonal Color TFT Screen, 16 Mic/Line Inputs (4 XLR, 4 XLR/Jack Combo), 2 Stereo Line Inputs (1/4" TRS), Stereo USB / MP3 Playback, 1 x Talkback Input with XLR Connector, 4 Band Parametric EQ, Gate & Compressor Input Processing, Balanced Main LR Output on 2 x XLR (Line Level), 6 x Balanced Aux Outputs on XLR (Line Level), 1 x Stereo TRS Headphone Output, 1 x Stereo TRS Monitor L/R Output, 1/3 Octave Graphic EQ, 6 Band Parametric EQ, Variable High & Low Pass filters, 8-Band Anti-Feedback Filters, Limiter, Delay Output Processing, Stereo mp3 & 22 x 22 Multitrack Recording & Playback direct to hard drive, 8 DCA Groups with Mute, 8 Mute Groups, 4 Simultaneous Effects Processing including Reverb, Echo, Delay, Chorus, Pitch Shift etc.1/3 Octave RTA assignable to channels or user selectable source, 99 User Scenes, 120 Factory Presete, 99 User Presets. External Control using wifi enabled iOS or Android devices, USB Wifi Adapter Included in Package, Selectable 44.1 kHz ot 48 kHz Sampling Frequency , 32 Bit Floating Point Internal Processing, THD <0.005% at +4 dBu, 20 Hz to 20 kHz, Unity Gain, any input to any output, Dynamic Range 105 dB,Crosstalk -80 dB, S/N Ratio -94 dB, Mic Input	Each	1	1,37,800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only	137800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only
282	Supplying, Installation of Mic -Wireless Handheld Microphone (Make-Norden)	Each	2	35,000.00	Rupees Thirty Five Thousand Only	70000.00	Rupees Seventy Thousand Only
283	Supplying, Installation of Mic - Colar Microphone(Make-Norden)	Each	1	35,000.00	Rupees Thirty Five Thousand Only	35000.00	Rupees Thirty Five Thousand Only
284	Supplying, Installation of Mic -Gooseneck Microphone (Make-Norden)	Each	5	12,000.00	Rupees Twelve Thousand Only	60000.00	Rupees Sixty Thousand Only
285	Supplying, Installation of Video Conferencing-All-In-One Video Conference Equipment, 4K Video Bar, 20MP Dual Cameras, 140° FOV, Large Room Coverage, Wireless LAN, HDMI In/Out, USB Connectivity (Make-Polycomm/HP /People Link)	Each	1	4,50,000.00	Rupees Four Lakh Fifty Thousand Only	450000.00	Rupees Four Lakh Fifty Thousand Only
	Board Room-6Th floor					0.00	
286	Supplying, Installation of Interactive LED Display 110" (Make-Samsung) Full HD or higher resolution with wall or ceiling mount fittings(Smart Interactive Flat Panel ,Ai, Multitouch Screen Display for Office Use)	Each	1	5,56,000.00	Rupees Five Lakh Fifty Six Thousand Only	556000.00	Rupees Five Lakh Fifty Six Thousand Only
287	Supplying, Installation of Ceiling Mic-Supply of Audio DSP Mixer having 3mic/line Inputs with AEC, 1 line Input without AEC, 2 line Outputs, 1 USB 3.0 Type-B, 2 USB 3.0 Type-A, RJ-45, Max. Resolution: 2560 x 1440p @ 60Hz, 16:9 ratio & Beamforming Microphone Array Ceiling Tile with 24 Microphones, Number of Beams: Two patterns, either 5 or 6 beams, Polar Pattern: Custom, Frequency Response: 150Hz – 16kHz, Amplifier Output Audio: 2 channels, Power: 2x10W Max, 8Ω load, Frequency Response: 20Hz – 22kHz, Configuration: Beam enable/disable, Acoustic Echo Cancellation (AEC) on/off, Noise Cancellation (NC) on/off, Ports type: RJ-45 for P-Link peripheral bus, Daisy-chained upto 6 array (Make-collaborate versa pro ct)	Each	1	2,25,000.00	Rupees Two Lakh Twenty Five Thousand Only	225000.00	Rupees Two Lakh Twenty Five Thousand Only
288	Supply and installation of 2U rack mount 4 Channel Class D amplifier 1000W with internal DSP 96KHz with 10 band PEQ/ LS6/ LS12/ HS6/ HS12/ APF for each in and out, 20 presets, control through USB through computer, XLR input and XLR loop output connector, speakon connectors for speaker output, Power factor correction. THD< 0.05% in 20Hz to 20KHz, signal to noise ratio > 120 dB, frequency response- 20Hz- 20KHz, damping factor > 2000, amplifier input gain selector switches of 0.7/1.0/1.4 Front panel on/ off switch, front to rear airflow, front panel indication with on screen display Circuit protection- input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer Output circuitry- Class D - full bandwidth PWM modulator with ultra low distortion Power supply- Universal & regulated switch mode power supply with Power Factor Correction, Universal Mains, 90-270V AC Power rating- 250 Watts*4 @ 4Ω Per channel, 250watts*4 @ 8Ω Per channel(Make-3DB PRO)	Each	1	85,000.00	Rupees Eighty Five Thousand Only	85000.00	Rupees Eighty Five Thousand Only
289	Supply, Installation, Testing & Commissioning of 12-inch, Full range, 2-Way Passive Loudspeaker. Frequency Range (-10 dB)-46 Hz – 20 kHz, Power capacity - 250 W, Sensitivity-96 dB, Maximum Peak SPL-128dB, Coverage Angle-85° conical, LF Driver - 12-inch with 3-inch Voice Coil, HF Driver- 1-inch Exit, 1.75-inch voice coil, compression driver. Nominal Impedance-8Ω, Input Connections-2 × NL4, 1 × barrier strip, Enclosure-Trapezoidal, plywood, black texture paint finish, Perforated, powder-coated steel grille. (MAKE: Make-QSC)	Each	4	45,000.00	Rupees Forty Five Thousand Only	180000.00	Rupees One Lakh Eighty Thousand Only
290	Supply, Installatton, Testing and commissioning of Wall mounting Speakers Bracket	Each	4	3,900.00	Rupees Three Thousand Nine Hundred Only	15600.00	Rupees Fifteen Thousand Six Hundred Only

291	Supply, Installation, Testing & Commissioning of 16 Channel Touch Screen Digital Mixer. 7" Diagonal Color TFT Screen, 16 Mic/Line Inputs (4 XLR, 4 XLR/Jack Combo), 2 Stereo Line Inputs (1/4" TRS), Stereo USB / MP3 Playback, 1 x Talkback Input with XLR Connector, 4 Band Parametric EQ, Gate & Compressor Input Processing, Balanced Main LR Output on 2 x XLR (Line Level), 6 x Balanced Aux Outputs on XLR (Line Level), 1 x Stereo TRS Headphone Output, 1 x Stereo TRS Monitor L/R Output, 1/3 Octave Graphic EQ, 6 Band Parametric EQ, Variable High & Low Pass filters, 8-Band Anti-Feedback Filters, Limiter, Delay Output Processing, Stereo mp3 & 22 x 22 Multitrack Recording & Playback direct to hard drive, 8 DCA Groups with Mute, 8 Mute Groups, 4 Simultaneous Effects Processing including Reverb, Echo, Delay, Chorus, Pitch Shift etc.1/3 Octave RTA assignable to channels or user selectable source, 99 User Scenes, 120 Factory Presete, 99 User Presets. External Control using wifi enabled iOS or Android devices, USB Wifi Adapter Included in Package, Selectable 44.1 kHz ot 48 kHz Sampling Frequency , 32 Bit Floating Point Internal Processing, THD <0.005% at +4 dBu, 20 Hz to 20 kHz, Unity Gain, any input to any output, Dynamic Range 105 dB,Crosstalk -80 dB, S/N Ratio -94 dB, Mic Input	Each	1	1,37,800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only	137800.00	Rupees One Lakh Thirty Seven Thousand Eight Hundred Only
292	Supplying, Installation of Video Conferencing-All-In-One Video Conference Equipment, 4K Video Bar, 20MP Dual Cameras, 140° FOV, Large Room Coverage, Wireless LAN, HDMI In/Out, USB Connectivity (Make-Polycomm/HP /People Link)	Each	1	4,50,000.00	Rupees Four Lakh Fifty Thousand Only	450000.00	Rupees Four Lakh Fifty Thousand Only
	Cabling system and Miscellaneous						
	Supplying, Installation of following items						
293	Supply and installation of Wall plate transmitter (Make-Kramer)	Each	3	66,000.00	Rupees Sixty Six Thousand Only	198000.00	Rupees One Lakh Ninety Eight Thousand Only
294	Supply and installation of HDMI Receiver with Audio (Make-Kramer)	Each	3	71,000.00	Rupees Seventy One Thousand Only	213000.00	Rupees Two Lakh Thirteen Thousand Only
295	Supply and installation of 1:4 HDMI DA (Make-Kramer)	Each	3	1,45,000.00	Rupees One Lakh Forty Five Thousand Only	435000.00	Rupees Four Lakh Thirty Five Thousand Only
296	Supply and installation of HDMI Receiver (Make-Kramer)	Each	9	35,000.00	Rupees Thirty Five Thousand Only	315000.00	Rupees Three Lakh Fifteen Thousand Only
297	Supply and installation of HDMI Patch Cable 10 ft (Make-Kramer)	Each	3	7,200.00	Rupees Seven Thousand Two Hundred Only	21600.00	Rupees Twenty One Thousand Six Hundred Only
298	Supply and installation of HDMI Patch Cable 6 ft (Make-Kramer)	Each	12	5,500.00	Rupees Five Thousand Five Hundred Only	66000.00	Rupees Sixty Six Thousand Only
299	Supply and installation of HDMI Cable Male to Male 1.4v Gold Plated cable including PVC conduit and HDMI connectors as required . (Make-Comsol/Commscope cable)(Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting for the HDMI cable as required)	m	150	150.00	Rupees One Hundred Fifty Only	22500.00	Rupees Twenty Two Thousand Five Hundred Only
300	Speaker Cable 16 AWG (Make-Kramer) including Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting for speaker wiring as required)	m	500	150.00	Rupees One Hundred Fifty Only	75000.00	Rupees Seventy Five Thousand Only
301	Supply and installation of Microphone Cable (Make-Belden) including Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting for microphone cable as required)	m	200	108.00	Rupees One Hundred Eight Only	21600.00	Rupees Twenty One Thousand Six Hundred Only
302	Supply and installation of Audio Stereo / Control Cable (Make-Kramer) including Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting as required for the audio stereo/control cables)	m	400	210.00	Rupees Two Hundred Ten Only	84000.00	Rupees Eighty Four Thousand Only
303	Supply and installation of STP Cable (Make-Dlink) including Supply, installation of 25mm Balco or Precison ISI med duty conduit to be included along with finishing the surface back to previous condition for concealed conduiting as required for STP cabling)	m	350	65.00	Rupees Sixty Five Only	22750.00	Rupees Twenty Two Thousand Seven Hundred Fifty Only
304	Equipment Rack 600x800 (17U legrand Valrack)	Each	3	20,000.00	Rupees Twenty Thousand Only	60000.00	Rupees Sixty Thousand Only
305	Cabling termination charges as required for the complete audio video system	Each	1	25,000.00	Rupees Twenty Five Thousand Only	25000.00	Rupees Twenty Five Thousand Only
306	Supply and installation of Cisco 8-Port Gigabit PoE Unmanaged Switch	Each	3	15,000.00	Rupees Fifteen Thousand Only	45000.00	Rupees Forty Five Thousand Only
307	Supply and installation of 1.08 m (43") QLED Q8F 4K Samsung Vision TV(for Higher level officials and Board room feed back) with wall or ceiling mount fittings as required.	Each	10	45,000.00	Rupees Forty Five Thousand Only	450000.00	Rupees Four Lakh Fifty Thousand Only
W	**HT ELECTRICAL WORKS**						
	All works to be carried out according to relevant IS specifications whether so mentioned in description of works or not. Only electrically operated instruments including hammer drilling, core cutting, groove cutting and other equipment shall be used for chasing, cutting, drilling, threading etc.						
	The schedule of probable quantities may vary on the higher side or lower side. Hence, during material pocurement, the contractor shall workout the actual quantites based on the good for construction/shop drawings issued for execution as per the project manager's direction. The rate quoted in the tender is for finished actual work done. All extra and surplus material if any will be at contractor's risk and must be carried away from the site upon completion and hand over of the works.						
	DIESEL GENERATOR						
	250 KVA DG-(Kirlosker/Cummins Make)						

308	Supply, installation, testing and commissioning of **Out door type 250 kVA** , 3 phase, 415V, 0.8pf, 50hz. Water cooled Diesel generating set comprising of prime type Diesel engine, alternator, fuel tank, starting system, battery etc. Diesel engine shall be suitable for continuous operation of generator set and satisfies with CPCB IV + or better norms specifications. Generator set inclusive of fly wheel, flexible coupling, air cleaner, corrosion resistor, fan with guard, fuel pump, fuel filter, electrical starting system with starter,12V battery with regulator, instrument panel, rpm indicator, residential silencer protection against low lubrication oil pressure.**(Electronic governor)**Alternator shall be 415V, 3 phase 50 Hz, 4wire 0.8 pf self excited, self regulated brushless type, drip proof conforming to IS:4722 with latest amendments.Floor mounted dust and vermin proof standard control panel consisting of MCCB ,neutral link, voltmeter with selector switch, 3 ammeters of 0-500A range, frequency meter,kW,pf, electronic energy meter, CTs and indicating lamps with fuse and switch control etc.as complete with necessary control wiring, necessary interconnections, fuses, labels and other accessories including first filling of oil and diesel. The Generator shall	Set	1	2127500	Rupees Twenty One Lakh Twenty Seven Thousand Five Hundred Only	2127500.00	Rupees Twenty One Lakh Twenty Seven Thousand Five Hundred Only
309	Shifting ,Testing and comissioning of Existing 250kVA DG with AMF panel to the new location with installation of OEM recommended new machine foundation including materials	Each	1	40732.3	Rupees Forty Thousand Seven Hundred Thirty Two and Thirty Paise Only	40732.30	Rupees Forty Thousand Seven Hundred Thirty Two and Thirty Paise Only
310	Shifting ,Testing and comissioning of Existing 25kVA DG for VTMS to the new location with with installation of OEM recommended new machine foundation including materials	Each	1	25362.1	Rupees Twenty Five Thousand Three Hundred Sixty Two and Ten Paise Only	25362.10	Rupees Twenty Five Thousand Three Hundred Sixty Two and Ten Paise Only
311	Providing roofing, fencing for 25kVA DG set in connection with installation of dg sets. The roofs and fencing to be done with the removed material of the existing 250 kva DG set	sq.m	12	869.15	Rupees Eight Hundred Sixty Nine and Fifteen Paise Only	10429.80	Rupees Ten Thousand Four Hundred Twenty Nine and Eighty Paise Only
312	Providing fencing , roofing, for 250kVA DG set in connection with installation of dg sets. The same shall be done with Al powder coated Roofing sheet(.46mm thick), suitable angles and GI pipes , B class 50 MM .Epoxy painting , door and lock etc. as per standards for DG room as per requirements, including materials.(Fencing using SS material having 1x1inch blocks and wire thickness of minimum 4mm)	sq.m	16	11100	Rupees Eleven Thousand One Hundred Only	177600.00	Rupees One Lakh Seventy Seven Thousand Six Hundred Only
	EXHAUST PIPES						
313	Supply, erection and commissioning of additional length of exhaust pipes with long radius bend from residential silencer with necessary clamps, fixtures, civil works and painted with heat resistant, rust proof, bituminous paint of approved colors to a maximum of 10 m in stages of riser for following sizes including suitable rain guard for top. The exhaust ms pipes shall be of class 'c' type meeting 'is' standards. Fixing shall be done with proper clamps, expansion bolts, support angle of size 40x25x3 mm fixed on the wall inside the duct covering the exposed areas with glass wool covered as instructed by the Engineer.						
a	150MM Exhaust pipe	mtr	40	4887	Rupees Four Thousand Eight Hundred Eighty Seven Only	195480.00	Rupees One Lakh Ninety Five Thousand Four Hundred Eighty Only
b	200MM Exhaust pipe	mtr	30	7346	Rupees Seven Thousand Three Hundred Forty Six Only	220380.00	Rupees Two Lakh Twenty Thousand Three Hundred Eighty Only
	PANEL BOARDS-CPRI APPROVED- [READ SLD DRAWINGS]						
	MSB						
314	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel, all connections and inter-connections including mounting the following switch gears. Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated, . Panel should as per the electrical scheme (the panel shall be fabricated by a CPRI approved vendor)	Set	1	960000	Rupees Nine Lakh Sixty Thousand Only	960000.00	Rupees Nine Lakh Sixty Thousand Only
	Incoming						
	800A, 4P, 50kA ACB with adjustable setting - 1no. 800A Tinned Copper Bus Bar with SMC supports, heat shrinkable sleeves etc complete as required. RYB phase indicating lamps (lamps shall be of LED) with control fuses and switches - For 3 incomer supply.						
	Multifunction Meter - 3 nos.						
	400A, 50KA, FP MCCB-2Nos						
	Load manager,AMF and Sync Module-1Set						
	500A TP AC3 Contactor-2Nos						
	150A TP AC3 Contactor-2Nos						
	LSIG Earth leakage relay with Microprocessor to interrupt fault current-1No						
	Outgoings						
	630A, 35KA, FP MCCB-1Nos						
	500A, 35KA, FP MCCB-3Nos						
	250A, 35KA, FP MCCB-4Nos						
	320A, 35KA, FP MCCB-1Nos						
	Multifunction Meter - 9 nos.						
	Suitable Foundation for the panel board including angle support-1Lot						
	SSB2&3 Panel						

315	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel, ammeters with CTs and Voltmeter with selector switch, all connections and inter-connections including mounting the following switch gears.Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated,	Set	2	230000	Rupees Two Lakh Thirty Thousand Only	460000.00	Rupees Four Lakh Sixty Thousand Only
	Incoming						
	250A,4P MCCB - 1 no.						
	RYB phase indicating lamps (lamps shall be of LED) with control fuses and switches - 1 set.						
	250Tinned Copper bus bar with SMC supports, heat shrinkable sleeves etc complete as required.						
	LSIG Earth leakage relay with Microprocessor to interrupt fault current-1No						
	Outgoings						
	63A, 25KA, TPN MCB-8Nos						
	Suitable Foundation for the panel board including angle support-1Lot						
	SSB 4 panel						
316	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel,all connections and inter-connections including mounting the following switch gears.	Set	1	315000	Rupees Three Lakh Fifteen Thousand Only	315000.00	Rupees Three Lakh Fifteen Thousand Only
	Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated,						
	Incoming						
	500A, 4P MCCB-1Nos						
	RYB phase indicating lamps (lamps shall be of LED) with control fuses and switches - 1 set.						
	500A Tinned Copper bus bar with SMC supports, heat shrinkable sleeves etc complete as required.						
	LSIG Earth leakage relay with Microprocessor to interrupt fault current-1No						
	Outgoings						
	100A, 25KA, TPN MCCB-7Nos						
	63A, 25KA, TPN MCB-1Nos						
	Suitable Foundation for the panel board including angle support-1Lot						
	Fire Panel						
317	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel, all connections and inter-connections including mounting the following switch gears. Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated.	Set	1	190000	Rupees One Lakh Ninety Thousand Only	190000.00	Rupees One Lakh Ninety Thousand Only
	Incoming						
	320A, TPN,ISO - 1no.						
	320A Tinned Copper bus bar with SMC supports, heat shrinkable sleeves etc complete as required.						
	RYB phase indicating lamps (lamps shall be of LED) with control fuses and switches - 1 set.						
	Outgoings						
	160A, 25KA, TPN MCCB-3Nos						
	63A, 16KA, TPN MCB-3Nos						
	Star delta starter-2Nos						
	DOL Starter-2Nos						
	On Off LED indication light-4Set						
	Suitable Foundation for the panel board including angle support-1Lot						
	LIFT PANEL						
318	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, wall mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel, all connections and inter-connections including mounting the following switch gears. Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated.	Set	1	39000	Rupees Thirty Nine Thousand Only	39000.00	Rupees Thirty Nine Thousand Only
	Incoming						
	63A, TPN MCB Isolator-1Nos						
	63A Tinned Copper bus bar with SMC supports, heat shrinkable sleeves etc complete as required.						
	Outgoings						
	40A,4P RCBO,100mA-1Nos						
	25A,DP RCBO,30mA-1Nos						
	6A,SP MCB-4Nos						
	Suitable Foundation for the panel board including angle support-1Lot						

319	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, floor mounted, front operated extensible type MV panel board made out of 14SWG thick CRCA sheet fully compartmentalised, duly rust inhibited, degreasing, zinc phosphating and painted with epoxy paints of approved colour and quality, complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates made of 3mm thick sheet steel,all connections and inter-connections Bus Bar-Tinned Copper Bus Bar, Panels must be type tested for the specified current rating. Painting-PU Coated,	Set	1	428583	Rupees Four Lakh Twenty Eight Thousand Five Hundred Eighty Three Only	428583.00	Rupees Four Lakh Twenty Eight Thousand Five Hundred Eighty Three Only
	200kVAR APFC panel						
	Suitable Foundation for the panel board including angle support-1Lot						
	MV CABLE LAYING AND END TERMINATION						
	MV CABLE LAYING-POLYCAB/Gloster						
320	Supplying and laying the following X.L.P.E insulated 1.1 kV grade aluminium conductor cable conforming IS:1554 (Part-I) in cable trenches as per specifications, including providing of cable route markers in every 50M and at all strategic turning / diversion points etc. Necessary clamping should be provided while installing the cables in trenches etc. as instructed by the Consultant (Cables of FRLSH Type) Supply of 3.5 x300sq. mm AL Cable	mtr	400	1,204.00	Rupees One Thousand Two Hundred Four Only	481600.00	Rupees Four Lakh Eighty One Thousand Six Hundred Only
321	Labour (Cable laying in open trench) (Through loose soil/concreted area / tiled area and finshing back to the previous original condition)-Laying of One Number PVC Insulated And PVC Sheathed/XLPE Power Cable of 1.1kV Grade , Direct in Ground Including Excavation, Sand Cushioning, Protective Covering and Refilling the Trench etc. as required.	mtr	175	552.68	Rupees Five Hundred Fifty Two and Sixty Eight Paise Only	96719.70	Rupees Ninety Six Thousand Seven Hundred Nineteen and Seventy Paise Only
322	Labour (Cable laying in open trench) (Through loose soil/concreted area / tiled area and finishing back to the previous original condition)-Laying of one number additional PVC insulated and PVC sheathed/ XLPE power cable of 1.1KV grade direct in ground **in the same trench** in one tier horizontal formation including excavation,sand cushioning, protective covering and refilling the trench etc as required.	mtr	175	415.10	Rupees Four Hundred Fifteen and Nine Paise Only	72641.80	Rupees Seventy Two Thousand Six Hundred Forty One and Eighty Paise Only
323	Labour (Cable laying in open trench/ building in trench, clamping through wall etc. for PVC insulated and PVC sheathed/ XLPE power cable of 1.1KV grade , 3.5x300 Sqmm etc as required.	mtr	50	263.52	Rupees Two Hundred Sixty Three and Fifty One Paise Only	13175.80	Rupees Thirteen Thousand One Hundred Seventy Five and Eighty Paise Only
324	Termination for 3.5x300 Sqmm AL cable (Supply and labour)	Each	8	1,393.37	Rupees One Thousand Three Hundred Ninety Three and Thirty Seven Paise Only	11146.96	Rupees Eleven Thousand One Hundred Forty Six and Ninety Six Paise Only
	Supplying and laying the following X.L.P.E insulated 1.1 kV grade aluminium conductor cable conforming IS:1554 (Part-I) through tray as per specifications, including providing of cable route markers in every 50M and at all strategic turning / diversion points etc. Necessary clamping should be provided etc. as instructed by the Consultant (Cables of FRLSH Type)						
325	3.5 x240sq. mm AL Cable (2Run)						
	Supply	mtr	200	2,500.00	Rupees Two Thousand Five Hundred Only	500000.00	Rupees Five Lakh Only
	Labour (Cable laying in tray)	mtr	200	215.71	Rupees Two Hundred Fifteen and Seventy One Paise Only	43142.00	Rupees Forty Three Thousand One Hundred Forty Two Only
	Termination (Supply and labour)	Each	8	1,197.48	Rupees One Thousand One Hundred Ninety Seven and Forty Eight Paise Only	9579.86	Rupees Nine Thousand Five Hundred Seventy Nine and Eighty Five Paise Only
326	4CX 240sq. mm AL Cable						
	Supply	mtr	20	1,186.00	Rupees One Thousand One Hundred Eighty Six Only	23720.00	Rupees Twenty Three Thousand Seven Hundred Twenty Only
	Labour(Cable laying in tray)	mtr	20	215.71	Rupees Two Hundred Fifteen and Seventy One Paise Only	4314.20	Rupees Four Thousand Three Hundred Fourteen and Twenty Paise Only
	Termination (Supply and labour)	Each	4	1,197.48	Rupees One Thousand One Hundred Ninety Seven and Forty Eight Paise Only	4789.93	Rupees Four Thousand Seven Hundred Eighty Nine and Ninety Two Paise Only
327	4CX 185sq. mm AL Cable						
	Supply	mtr	20	871.00	Rupees Eight Hundred Seventy One Only	17420.00	Rupees Seventeen Thousand Four Hundred Twenty Only
	Labour(Cable laying in tray)	mtr	20	215.71	Rupees Two Hundred Fifteen and Seventy One Paise Only	4314.20	Rupees Four Thousand Three Hundred Fourteen and Twenty Paise Only
	Termination (Supply and labour)	Each	4	1,020.25	Rupees One Thousand Twenty and Twenty Five Paise Only	4081.00	Rupees Four Thousand Eighty One Only
328	3.5 x240sq. mm AL Cable						
	Supply	mtr	40	1,038.00	Rupees One Thousand Thirty Eight Only	41520.00	Rupees Forty One Thousand Five Hundred Twenty Only
	Labour(Cable laying in tray)	mtr	40	215.71	Rupees Two Hundred Fifteen and Seventy One Paise Only	8628.40	Rupees Eight Thousand Six Hundred Twenty Eight and Forty Paise Only

	Termination(Supply and labour)	Each	2	1,197.48	Rupees One Thousand One Hundred Ninety Seven and Forty Eight Paise Only	2394.96	Rupees Two Thousand Three Hundred Ninety Four and Ninety Six Paise Only
329	3.5Cx185Sq.mm AL Cable						
	Supply	mtr	40	762.00	Rupees Seven Hundred Sixty Two Only	30480.00	Rupees Thirty Thousand Four Hundred Eighty Only
	Labour(Cable laying in tray)	mtr	40	215.71	Rupees Two Hundred Fifteen and Seventy One Paise Only	8628.40	Rupees Eight Thousand Six Hundred Twenty Eight and Forty Paise Only
	Termination (Supply and labour)	Each	8	1,020.25	Rupees One Thousand Twenty and Twenty Five Paise Only	8162.00	Rupees Eight Thousand One Hundred Sixty Two Only
330	4Cx16 Sq.mm AL Cable						
	Supply	mtr	580	114.00	Rupees One Hundred Fourteen Only	66120.00	Rupees Sixty Six Thousand One Hundred Twenty Only
	Labour(Cable laying in tray)	mtr	580	52.47	Rupees Fifty Two and Forty Seven Paise Only	30432.60	Rupees Thirty Thousand Four Hundred Thirty Two and Sixty Paise Only
	Termination (Supply and labour)	Each	60	360.29	Rupees Three Hundred Sixty and Twenty Nine Paise Only	21617.64	Rupees Twenty One Thousand Six Hundred Seventeen and Sixty Four Paise Only
331	4Cx35Sq.mm AL Cable						
	Supply	mtr	245	207.00	Rupees Two Hundred Seven Only	50715.00	Rupees Fifty Thousand Seven Hundred Fifteen Only
	Labour(Cable laying in tray)	mtr	245	52.47	Rupees Fifty Two and Forty Seven Paise Only	12855.15	Rupees Twelve Thousand Eight Hundred Fifty Five and Fifteen Paise Only
	Termination (Supply and labour)	Each	14	431.42	Rupees Four Hundred Thirty One and Forty Two Paise Only	6039.88	Rupees Six Thousand Thirty Nine and Eighty Eight Paise Only
332	4Cx25Sq.mm AL Cable						
	Supply	mtr	55	165.00	Rupees One Hundred Sixty Five Only	9075.00	Rupees Nine Thousand Seventy Five Only
	Labour(Cable laying in tray)	mtr	55	52.47	Rupees Fifty Two and Forty Seven Paise Only	2885.85	Rupees Two Thousand Eight Hundred Eighty Five and Eighty Five Paise Only
	Termination (Supply and labour)	Each	2	367.29	Rupees Three Hundred Sixty Seven and Twenty Nine Paise Only	734.58	Rupees Seven Hundred Thirty Four and Fifty Eight Paise Only
333	3.5Cx95Sq.mm AL Cable						
	Supply	mtr	70	420.00	Rupees Four Hundred Twenty Only	29400.00	Rupees Twenty Nine Thousand Four Hundred Only
	Labour(Cable laying in tray)	mtr	20	107.27	Rupees One Hundred Seven and Twenty Seven Paise Only	2145.44	Rupees Two Thousand One Hundred Forty Five and Forty Four Paise Only
	Labour(Cable laying in trench)	mtr	50	472.23	Rupees Four Hundred Seventy Two and Twenty Three Paise Only	23611.50	Rupees Twenty Three Thousand Six Hundred Eleven and Fifty Paise Only
	Termination(Supply and labour)	Each	6	685.61	Rupees Six Hundred Eighty Five and Sixty Paise Only	4113.65	Rupees Four Thousand One Hundred Thirteen and Sixty Four Paise Only
334	3Cx4Sq.mm PVC sheathed Cu Cable						
	Supply	mtr	1400	145.00	Rupees One Hundred Forty Five Only	203000.00	Rupees Two Lakh Three Thousand Only
	Labour(Cable laying in tray)	mtr	1400	52.47	Rupees Fifty Two and Forty Seven Paise Only	73458.00	Rupees Seventy Three Thousand Four Hundred Fifty Eight Only
335	4Cx4Sq.mm PVC sheathed Cu Cable						
	Supply	mtr	175	193.00	Rupees One Hundred Ninety Three Only	33775.00	Rupees Thirty Three Thousand Seven Hundred Seventy Five Only
	Labour(Cable laying in tray)	mtr	175	52.47	Rupees Fifty Two and Forty Seven Paise Only	9182.25	Rupees Nine Thousand One Hundred Eighty Two and Twenty Five Paise Only
336	63A TPN ISO Mounted on smc box (IP66) for supply and installation	Set	21	1,650.00	Rupees One Thousand Six Hundred Fifty Only	34650.00	Rupees Thirty Four Thousand Six Hundred Fifty Only
337	63A 4P Manual Change over for supply and installation	Set	7	2,750.00	Rupees Two Thousand Seven Hundred Fifty Only	19250.00	Rupees Nineteen Thousand Two Hundred Fifty Only
	CONTROL CABLES						

338	Supply, laying & Termination of PVC insulated screened copper control cable, strictly conforming to IS:1554 (part I) 1964 of the following sizes. (FRLSH) for 3Cx2.5 sq.mm supply and installation	Mtr	100	106.00	Rupees One Hundred Six Only	10600.00	Rupees Ten Thousand Six Hundred Only
339	Supply, laying & Termination of PVC insulated screened copper control cable, strictly conforming to IS:1554 (part I) 1964 of the following sizes. (FRLSH)12Cx2.5 sq.mm for supply and installation	Mtr	100	651.00	Rupees Six Hundred Fifty One Only	65100.00	Rupees Sixty Five Thousand One Hundred Only
	EARTHING						
340	Supply and installation of 600mmx600mmx3mm CI plate electrode earth station conforming to IS:3043-1987 / NEC / IEE complete with brick mansonry chamber, CI cover, CI frame ,GI watering pipe of 50 mm dia with funnel having 20G GI wire mesh etc, The CI cover frame/ chamber shall be of 500mm x 500mm x 300mm size. CI manhole cover with frame shall be painted with bitumastic paint, identification of earthpit with yellow paint below the chamber cover, mixtures of charcol & common salt around electrode including digging of pit up to permanent moisture level but not less than 3 metre depth and back filling. (value of earth resistance should be less than 1 ohm)	Set	10	16,374.00	Rupees Sixteen Thousand Three Hundred Seventy Four Only	163740.00	Rupees One Lakh Sixty Three Thousand Seven Hundred Forty Only
341	Supply and providing pipe earthing as per IS 3043 with 2.50 m long 38mm dia B class GI pipe , GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamberwith a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick),brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick,(the finished inside dimension shall be 300 x 300 x 300 mm)including test joint, earth continuity conductor to the plate, and covering at the top .	Set	4	5,500.00	Rupees Five Thousand Five Hundred Only	22000.00	Rupees Twenty Two Thousand Only
342	Supply, laying / fixing of earthing conductor of CU flat / wires jointing as per IS:3043 / 87 in trench walls pulling through pipes etc as required.All Accessories Required to be included but not limited to Bolts, Nuts, Washers Etc.						
a	25x6mm Cu strips	Mtr	200	1,830.00	Rupees One Thousand Eight Hundred Thirty Only	366000.00	Rupees Three Lakh Sixty Six Thousand Only
b	25x3mm Cu strips	Mtr	250	915.00	Rupees Nine Hundred Fifteen Only	228750.00	Rupees Two Lakh Twenty Eight Thousand Seven Hundred Fifty Only
c	Copper No.10 SWG	Mtr	100	97.00	Rupees Ninety Seven Only	9700.00	Rupees Nine Thousand Seven Hundred Only
	MISCELLANEOUS ITEMS						
343	Supplying and installaton following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers MS/GI Suspenders i/c base of suitable size MS/GI angle, bolts & nuts, painting suspenders, fastener etc as required.						
a	900 mm width X 75 mm depth X 2.0 mm thickness	Mtr	30	2,951.15	Rupees Two Thousand Nine Hundred Fifty One and Fourteen Paise Only	88534.38	Rupees Eighty Eight Thousand Five Hundred Thirty Four and Thirty Eight Paise Only
b	600 mm width X 75 mm depth X 2.0 mm thickness	Mtr	75	1,705.86	Rupees One Thousand Seven Hundred Five and Eighty Five Paise Only	127939.35	Rupees One Lakh Twenty Seven Thousand Nine Hundred Thirty Nine and Thirty Five Paise Only
c	450 mm width X 62.5 mm depth X 2.0 mm thickness	Mtr	150	1,427.18	Rupees One Thousand Four Hundred Twenty Seven and Eighteen Paise Only	214077.60	Rupees Two Lakh Fourteen Thousand Seventy Seven and Sixty Paise Only
344	Supply and laying of 1.1kV Grade, 6mm - thick rubber mat of 90 cm wide x 2 m long supply & Installation	Each	10	1,345.00	Rupees One Thousand Three Hundred Forty Five Only	13450.00	Rupees Thirteen Thousand Four Hundred Fifty Only
345	Supply of 11kV grade rubber mat of 3mm thickness and 1m wide x 2m long supply & Installation	Each	2	2,110.00	Rupees Two Thousand One Hundred Ten Only	4220.00	Rupees Four Thousand Two Hundred Twenty Only
346	Supply of 11kV grade rubber gloves supply & Installation	Each	1	810.00	Rupees Eight Hundred Ten Only	810.00	Rupees Eight Hundred Ten Only
347	Providing MV voltage danger notice board 200mmx150mm supply & Installation	Each	3	389.00	Rupees Three Hundred Eighty Nine Only	1167.00	Rupees One Thousand One Hundred Sixty Seven Only
348	Supply and installation of 4 nos of fire bucket with sand supply & Installation	Set	2	1,658.00	Rupees One Thousand Six Hundred Fifty Eight Only	3316.00	Rupees Three Thousand Three Hundred Sixteen Only
349	Supply of first aid box	set	1	1,500.00	Rupees One Thousand Five Hundred Only	1500.00	Rupees One Thousand Five Hundred Only
350	Providing high voltage danger notice board 300mmx200mm supply & Installation	Each	2	389.00	Rupees Three Hundred Eighty Nine Only	778.00	Rupees Seven Hundred Seventy Eight Only
351	Supply & fixing Laminated drawings of electrical lay out and schematic drawing,shock treatment chart etc on good frame work. supply & Installation	Each	1	600.00	Rupees Six Hundred Only	600.00	Rupees Six Hundred Only
352	Supply and installation of L.T. Cable route marker.	Each	10	354.00	Rupees Three Hundred Fifty Four Only	3540.00	Rupees Three Thousand Five Hundred Forty Only

353	Supply, Installation & wiring of emergency trip push button station	Each	2	3,540.00	Rupees Three Thousand Five Hundred Forty Only	7080.00	Rupees Seven Thousand Eighty Only
354	Supply, Installation & wiring of 20KVA APC/Numeric make or equivalent UPS, with minimum 30min back up time and including SMF batteries (Amaron/Exide batteries)(Each Power module shall be </= 10 KVA) (Approx 15000VAH Battery)	Set	7	3,41,772.00	Rupees Three Lakh Forty One Thousand Seven Hundred Seventy Two Only	2392404.00	Rupees Twenty Three Lakh Ninety Two Thousand Four Hundred Four Only
355	Supplying Installation, Testing and Commissioning of following capacity TPN tap off box made of 1.6mm thick sheet steel enclosure duly painted with powder coating on existing rising mains complete with TPN disconnector FSU and HRC fuses, connections, earthing etc. as required.100 A TPN	Set	3	16,564.20	Rupees Sixteen Thousand Five Hundred Sixty Four and Nineteen Paise Only	49692.59	Rupees Forty Nine Thousand Six Hundred Ninety Two and Fifty Eight Paise Only
356	Electrical Inspectorate approval Charges if required .	Each	1	100000	Rupees One Lakh Only	100000.00	Rupees One Lakh Only
X	**LT ELECTRICAL WORKS**						
	All works to be carried out according to relevant IS specifications whether so mentioned in description of works or not. Only electrically operated instruments including hammer drilling, core cutting, groove cutting and other equipment shall be used for chasing, cutting, drilling, threading etc.						
	The schedule of probable quantities may vary on the higher side or lower side. Hence, during material pocurement, the contractor shall workout the actual quantites based on the good for construction/shop drawings issued for execution as per the project manager's direction. The rate quoted in the tender is for finished actual work done. All extra and surplus material if any will be at contractor's risk and must be carried away from the site upon completion and hand over of the works.						
	Supply, installation, testing and commissioning of following MCB distribution board of approved make with provision for fixing RCBO as incomer 3 phase 8 Way TPN MCB DB						
357	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). for 1 phase 16Way SPN MCB DB	Each	14	6,956.93	Rupees Six Thousand Nine Hundred Fifty Six and Ninety Two Paise Only	97396.95	Rupees Ninety Seven Thousand Three Hundred Ninety Six and Ninety Five Paise Only
358	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)	Each	56	3,662.09	Rupees Three Thousand Six Hundred Sixty Two and Nine Paise Only	205077.15	Rupees Two Lakh Five Thousand Seventy Seven and Fourteen Paise Only
359	VTPN DB 8Way \ with 100A TPN ISO+100A F 32A 16KA SP MCB-4NosP RCBO,30ma as incomer Outgoing 63A 25KA TPN MCB-3Nos 40A 16KA TPN MCB-1Nos,supply	Set	7	24,500.00	Rupees Twenty Four Thousand Five Hundred Only	171500.00	Rupees One Lakh Seventy One Thousand Five Hundred Only
360	VTPN DB 6Way, with 63A TPN ISO+63A FP RCBO,30ma as incomer Outgoing 32A 16KA SP MCB-5Nos supply	Set	7	17,500.00	Rupees Seventeen Thousand Five Hundred Only	122500.00	Rupees One Lakh Twenty Two Thousand Five Hundred Only
	MINIATURE CIRCUIT BREAKERS ('C' SERIES)						
361	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. 6A to 32A SP MCB	Each	812	298.47	Rupees Two Hundred Ninety Eight and Forty Seven Paise Only	242357.96	Rupees Two Lakh Forty Two Thousand Three Hundred Fifty Seven and Ninety Six Paise Only
	RCBO						
362	Supply and installation of following rating RCBO of approved make in the existing enclosure and giving interconnection etc. complete as required.						
a	63A, 30mA FP RCBO	Each	7	3,716.89	Rupees Three Thousand Seven Hundred Sixteen and Eighty Eight Paise Only	26018.22	Rupees Twenty Six Thousand Eighteen and Twenty Two Paise Only
b	40A, 30mA DP RCBO	Each	56	3,080.31	Rupees Three Thousand Eighty and Thirty Paise Only	172497.24	Rupees One Lakh Seventy Two Thousand Four Hundred Ninety Seven and Twenty Three Paise Only
c	40A, 30mA FP RCBO	Each	7	3,348.46	Rupees Three Thousand Three Hundred Forty Eight and Forty Six Paise Only	23439.25	Rupees Twenty Three Thousand Four Hundred Thirty Nine and Twenty Five Paise Only
	ELECTRICAL WIRING SYSTEM						
	Note:All wires to be of FRLSH type						
363	**Supply and installation of the following wires**						
a	**2RX1.5** sq.mm PVC insulated copper conductor single core stranded wire(Point Wiring)	Mtr	9150	81.61	Rupees Eighty One and Sixty One Paise Only	746758.95	Rupees Seven Lakh Forty Six Thousand Seven Hundred Fifty Eight and Ninety Five Paise Only
b	**3RX1.5** sq.mm PVC insulated copper conductor single core stranded wire(Point Wiring)	Mtr	4050	110.76	Rupees One Hundred Ten and Seventy Six Paise Only	448580.03	Rupees Four Lakh Forty Eight Thousand Five Hundred Eighty and Two Paise Only
c	**3RX2.5** sq.mm PVC insulated copper conductor single core stranded wire circuit wiring	Mtr	6040	159.73	Rupees One Hundred Fifty Nine and Seventy Three Paise Only	964769.20	Rupees Nine Lakh Sixty Four Thousand Seven Hundred Sixty Nine and Twenty Paise Only

d	**3RX4** sq.mm PVC insulated copper conductor single core stranded wire	Mtr	RO	240.17	Rupees Two Hundred Forty and Seventeen Paise Only		
364	**1RX25** mm medium duty conduit -Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	Mtr	9040	169.05	Rupees One Hundred Sixty Nine and Five Paise Only	1528212.00	Rupees Fifteen Lakh Twenty Eight Thousand Two Hundred Twelve Only
365	Floor raceway 150 X 45 mm stackable in width in multiples of 150 mm snap fit lid, can be laid exposed to the floor usable on walls as well raw mill finish, can be powder coated in any color or anodized aluminium alloy	Mtr	700	350.00	Rupees Three Hundred Fifty Only	245000.00	Rupees Two Lakh Forty Five Thousand Only
	Switched Socket Board Supply and Fixing						
	Complete with suitable size modular type,metal switch boxes, modular type front plates etc. up to and including 6 A modular type SP switches and making good the surface of wall, colour washing etc. complete .						
366	Modular type switches 6A One Way Switch	Each	1250	120.09	Rupees One Hundred Twenty and Eight Paise Only	150109.63	Rupees One Lakh Fifty Thousand One Hundred Nine and Sixty Two Paise Only
377	Module Box and Plate for switches-Supplying and fixing following size/ modules, SS box along with modular base & cover plate for modular switches in recess etc. as required.						
a	2M	Each	175	347.44	Rupees Three Hundred Forty Seven and Forty Three Paise Only	60801.69	Rupees Sixty Thousand Eight Hundred One and Sixty Eight Paise Only
b	4M	Each	840	399.90	Rupees Three Hundred Ninety Nine and Ninety Paise Only	335919.11	Rupees Three Lakh Thirty Five Thousand Nine Hundred Nineteen and Ten Paise Only
c	6M	Each	70	468.69	Rupees Four Hundred Sixty Eight and Sixty Nine Paise Only	32808.43	Rupees Thirty Two Thousand Eight Hundred Eight and Forty Two Paise Only
d	8M	Each	385	529.32	Rupees Five Hundred Twenty Nine and Thirty One Paise Only	203787.66	Rupees Two Lakh Three Thousand Seven Hundred Eighty Seven and Sixty Six Paise Only
e	12M	Each	140	637.75	Rupees Six Hundred Thirty Seven and Seventy Four Paise Only	89284.62	Rupees Eighty Nine Thousand Two Hundred Eighty Four and Sixty Two Paise Only
378	6A Socket Supply and Fixing	Each	1550	142.24	Rupees One Hundred Forty Two and Twenty Three Paise Only	220471.69	Rupees Two Lakh Twenty Thousand Four Hundred Seventy One and Sixty Nine Paise Only
	Supply and installation of 16 A modular type power plug socket controlled with 16A modular type switch						
	Rate to be quoted for 16A Switch	Each	210	181.88	Rupees One Hundred Eighty One and Eighty Eight Paise Only	38194.88	Rupees Thirty Eight Thousand One Hundred Ninety Four and Eighty Eight Paise Only
	Rate to be quoted for 16A socket	Each	210	229.68	Rupees Two Hundred Twenty Nine and Sixty Eight Paise Only	48233.28	Rupees Forty Eight Thousand Two Hundred Thirty Three and Twenty Eight Paise Only
	INSTALLATION OF LIGHT FITTINGS/FANS						
379	Supply, Installation, testing and commissioning of prewired, wall lamp fittings of all types complete with all accessories etc. directly on wall including connection with 1.5 mm², PVC insulated, copper conductor, single core cable etc. as required.						
	Lights-Philips/Wipro/Havells make with models as specified below with 'Equivalent or Better'						
	All lights temperature at 4000K ,Daylight if not specified otherwise						
a	Fixing 5W LED Light (Tiltable light)(Recessed) Havells UNECOADJDLR8WLED857S24-G2	Each	17	926.00	Rupees Nine Hundred Twenty Six Only	15742.00	Rupees Fifteen Thousand Seven Hundred Forty Two Only
b	Fixing 10W LED Wall light (Wall lamp fixture with light bulb) Havells Floret -LHFHCHE1TL1W020	Each	24	887.00	Rupees Eight Hundred Eighty Seven Only	21288.00	Rupees Twenty One Thousand Two Hundred Eighty Eight Only
c	Fixing 25W LED Tube light Havells Regal-batten-T8UPTO1X22WSSBSWHNW	Each	38	797.00	Rupees Seven Hundred Ninety Seven Only	30286.00	Rupees Thirty Thousand Two Hundred Eighty Six Only
d	Fixing Mirror light LED (20w 2feet led tube) Havells LUMELINEPLUSNEOBS10WLED 865SPCSSINDS	Each	37	787.00	Rupees Seven Hundred Eighty Seven Only	29119.00	Rupees Twenty Nine Thousand One Hundred Nineteen Only
e	Fixing down light LED 3W recessed Havells Joy Neo 3WPCCOBE-LHEBAMP7IZ1W003	Each	125	926.00	Rupees Nine Hundred Twenty Six Only	115750.00	Rupees One Lakh Fifteen Thousand Seven Hundred Fifty Only
f	Fixing hanging light Havells glimNXT-S22WLED857WH1200SD	Each	10	5,750.00	Rupees Five Thousand Seven Hundred Fifty Only	57500.00	Rupees Fifty Seven Thousand Five Hundred Only
g	Fixing bulk head LED 10W (Wall mount) Havells RUGBYGENXFTS10WLED865SSYMBOPC	Each	11	1,450.00	Rupees One Thousand Four Hundred Fifty Only	15950.00	Rupees Fifteen Thousand Nine Hundred Fifty Only
h	Green Indication LED	Each	10	1,000.00	Rupees One Thousand Only	10000.00	Rupees Ten Thousand Only

i	Red Indication LED (meeting ongoing)	Each	10	1,000.00	Rupees One Thousand Only	10000.00	Rupees Ten Thousand Only
j	5W LED Down light recessed Havells LUMINSPOTPROR7WLED857S36WHT	Each	68	926.00	Rupees Nine Hundred Twenty Six Only	62968.00	Rupees Sixty Two Thousand Nine Hundred Sixty Eight Only
k	15W LED Down light LED recessed Havells LUMINSPOTLPROR15WLED857S60WHT	Each	152	1,187.00	Rupees One Thousand One Hundred Eighty Seven Only	180424.00	Rupees One Lakh Eighty Thousand Four Hundred Twenty Four Only
l	24W LED Panel light 30x30cm recessed Havells PLUTO 1X1 PLR24WLED857SG2	Each	352	3,581.00	Rupees Three Thousand Five Hundred Eighty One Only	1260512.00	Rupees Twelve Lakh Sixty Thousand Five Hundred Twelve Only
m	LED Profile light (Philips) **(2700K Warm Temperature)**						
380	Supplying Installation, Testing and Commissioning of LED Profile light (as persite requirement) Linear Profile luminaire with aluminium extruded/Die Cast housing with inbuilt driver of following wattage as given below. The luminaire shall be having silicon gasket between optical cover & LED chamber to ensure proper protection. CRI>80, SDCM<5, THD<10%. as per IEC 61000-3-2, under voltage, over voltage protection, driver inbuilt surge protection of 4KV and external surge protection (SPD) of 10 KV common mode/differential mode, Driver Efficiency>85%, EMI/ EMC as per CISPR-15. Luminaire should have efficacy of minimum 65 lm/W for mono colour option. Luminaire shall be complete with replaceable driver and capable of operating at line voltage without any separate power supply from 24 V DC. Fixture shall be suitable to operate at an ambient temperature range of - - 10°C to +50°C and shall have impact resistance of IK 07. Lifetime of complete luminaire (LED ,Driver ,Electrical & control circuitry) shall be at least L70:50000 burning hours at 50°C. Luminaire shall beconforming to BIS (IS 10322) with dully R Number marked and shall be complete with all necessary accessories required for proper working of fixture including connection/inter connection ISI Marked copper conductor of minimum size 1.5sqmm connection cables and accessories ,as required. Wattage per meter (Power supply and driver to be included in the supply and installation) Wattage at minimum 15W/meter	Mtr	50	2,250.00	Rupees Two Thousand Two Hundred Fifty Only	112500.00	Rupees One Lakh Twelve Thousand Five Hundred Only
	Earthing						
381	Rate to be quoted for supply and installation for Copper No.10 SWG	Mtr	2500	97.00	Rupees Ninety Seven Only	242500.00	Rupees Two Lakh Forty Two Thousand Five Hundred Only
382	Supply of skilled/unskilled labour for Removal of all the existing electrical items including and not limited to fittings,Cabling and wiring and handing over to CoPA						
	Electrician	Each	35	1,500.00	Rupees One Thousand Five Hundred Only	52500.00	Rupees Fifty Two Thousand Five Hundred Only
	Helper	Each	35	1,000.00	Rupees One Thousand Only	35000.00	Rupees Thirty Five Thousand Only
	GRAND TOTAL					**17,81,94,481.00**	**Rupees Seventeen Crore Eighty One Lakh Ninety Four Thousand Four Hundred Eighty One Only**
	BIDDER'S QUOTING AREA						
Sl. No.	**Description of Work**	**Departmental Estimated Cost (Rs)**	**Percentage Quoted above/ below the Departmental Amount by the Bidder**		**Above/Below**		
			*** In Figures**	***In Words**			
	Percenatge Quoted above / below the Departmental Amount shown in the above Schedule						
	*** Note**						
	1. The Bidder shall quote both in figures and words						
	2. The Bidders shall also quote Above / Below in words themselves in the last column						
	3. Only two decimal digits will be accepted.						