

SCHEDULE/BILL OF QUANTITIES

Tender No: BHU/P&E/10/2024-25/28 DATED 04.10.2024

Name of the work: Tender document for Composite Contractor for Internal refurbishing (2nd to 5th floor) and allied Civil works including external façade works, internal electrical & external works (LT), fixed Firefighting system, Automatic fire detection & Alarm system, Public Address and Voice evacuation system (Basement-2 to 6th floor), Telecom & data cabling works at existing LHO building at Bhubaneswar, Odisha.					
SR.	TRADE	SECTION		TENDER AMOUNT	QUOTED AMOUNT
1	CIVIL WORKS-EXTERNAL, ROAD WIDENING, DRAIN WORK & LANDSCAPE WORK	A		27,813,587.81	27,813,587.81
2	INTERNAL CIVIL WORKS-DISMANTLING/DEMOLITION, PEST CONTROL, MASONARY & ALLIED WORKS, FLOORING, CLADDING & GRANITE WORKS & WASHROOM/PHE RENOVATION)	B		42,300,835.55	42,300,835.55
3	INTERIOR FURNISHING WORKS	C		57,592,925.24	57,592,925.24
4	MISCELLANEOUS GRAPHICS, SIGNAGE & ROLLER BLINDS	D		2,425,350.00	2,425,350.00
5	ELECTRICAL WORKS	E		32,376,694.38	32,376,694.38
6	FIREFIGHTING WORKS	F		30,058,142.60	30,058,142.60
7	DATA TELECOM & NETWORKING	G		3,005,720.00	3,005,720.00
8	TOTAL FOR REPAIR & RENOVATION WORKS			195,573,255.58	195,573,255.58
9	BUY BACK ITEMS (DEDUCT)	H		2,643,505.00	2,643,505.00
	TOTAL FOR THE PROJECT (9-8)			192,929,750.58	192,929,750.58

SR NO	DESCRIPTION	UNIT	QTY	RATE(Rs.)	AMOUNT(Rs.)
A	A) CIVIL WORKS-EXTERNAL, ROAD WIDENING, DRAIN WORK & LANDSCAPE WORK				
I	EXTERNAL FAÇADE WORKS				
1	SCAFFOLDING WORK				
	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to Eight story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin - charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding & number of times of unfolding/ dsimantaling.	SQM	2,810.00	286.61	805,374.10
2	DISMANTLING OF EXISTING STONE WORK AND PLASTER (EXTERNAL AREAS)				
	Dismantling/removal of existing External Stone work with Plaster, (thickness as per site condition) where ever required as per the direction of the Architect/Bank including disposal of unserviceable materials/debris from site by trucks to nearest dumping yard of Municipal Corporation (including all covering to ensure safety, shifting to ground floor, loading, unloading and lead) as per instructions and direction by Architect/Bank. Building premises should be kept clean from any encumbrances. The rate shall also include providing of necessary protection sheets to cover the existing work area & movement.	SQM	2,565.00	160.00	410,400.00
3	DISMANTLING OF EXISTING PLASTER (EXTERNAL AREAS)				
	Dismantling old plaster as per site condition or raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	SQM	2,565.00	54.65	140,177.25
4	EXTERNAL CEMENT PLASTER WITH POLYMER MIX:				
	Providing and laying following thickness of plaster of exterior with Polymer mix grade 15mm to 18 mm thick. With plastering waterproofing materials in cement mortar 1:4:2 (1cement : 4 fine sand : 2 coarse sand) to all types of brick masonry work/ RCC surfaces including wall, jambs and sills, all levels, locations in line, level & finished to receive dado / cladding etc. Rates shall include the additional chicken mesh where two material meet (column to wall, wall to beam, lintel to beam, corners of walls/columns etc complete). (Cement Make; Ambuja/Ultratech / ACC/Lafarge). Sand; River Sand Non Course. (Polymer make; Dr.Fixit, Pedilite)	SQM	2,565.00	547.42	1,404,132.30

5	FIXING OF HPL (HIGH PRESSURE LAMINATE) AT ALL HEIGHT				
	Supply and installation of High Pressurised Laminates (HPL) of 6mm thick exterior grade F-quality panels of standard size with both side décor. HPL exterior panels are duromer high-pressure laminates (HPL) as per EN 438-6 type EDF manufactured with norm conformity of EN 438-7 using patented NT technology (NT is Non fading high performance acrylic polyurethane surface technology). Panels will be double hardened including acrylic polyurethane resin and thermally cured under high pressure. These panels will have CE-mark necessary for their use in building applications. Installation of HPL panels will be done by MBE rivets (with fixed and sliding points) with recommended Aluminium section of 2 mm thick and L section 2 mm thick held by Aluminium wall bracket with wind load and dead load slot as per design, anchored by standard anchor fasteners along with Thermal separator. Design of Aluminium should be submitted to the architect with design calculation. Installation of HPL panels will be done using rear ventilated principles only, which is ensured by providing ventilation gap minimum 200cm ² /per meter (for free flow of air behind the façade) the façade and using the framework with no horizontal section. (Make: Fundermax/Trespa/Rheau) (Basic Rate of HPL ; Rs. 3100/- per Square Metre)	SQM	2,565.00	6,170.00	15,826,050.00
II	EXTERNAL SITE DEVELOPMENT & WINDOW FIXING ON ALL END WALLS OF THE BUILDING				
1	ROAD - DEMOLITION				
	Dismantling/removal of existing Road P.C.C, Chipping the existing CC screeding (thickness up to 100-150 mm) Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. The rate shall also include providing of necessary protection sheets to cover the existing work area.				
	a) For road works	CUM	48.00	2,062.92	99,020.34
	b) For drain works	CUM	70.00	2,062.92	144,404.66
2	EXCAVATION				
	Excavation of earthwork by mechanical means (Hydraulic excavator/drilling machine)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	a) for all kinds of soil	CUM	95.00	153.81	14,612.29
	b) for Ordinary drain/Concrete of existing drain	CUM	17.00	298.69	5,077.67
3	SAND FILLING				
	Supplying and filling in plinth with sand under floors, including watering,ramming, consolidating and dressing complete.	CUM	33.00	1,799.79	59,393.01
	PCC & KERB STONE				
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size) (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course; Locally available)	CUM	49.00	5,772.88	282,871.19
5	Providing, laying and making kerb channel 30 cm wide and 50 mm thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth, centering & shuttering etc. complete and as per direction of Engineer-in-charge. (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course; Locally available)	SQM	71.00	473.14	33,592.63
6	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge), of size preferably 300mm Height X 600 mm Length, same to be laid on Brick work / PCC work, cost to include the same. The above to be approved From the architect. (Cement Make; Ambuja/Ultratech / ACC/Lafarge) (Sand Make; River Sand Non Course; Locally available) (Kerb Stone : Precast)	CUM	64.00	8,574.24	548,751.19

CONCRETE PAVEMENTS & DRAIN WORKS					
7	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge. The spiral stairs at rearside need to be dismantled.	KG	5,000.00	3.85	19,250.00
Mass/Plain Cement Concrete for road heightening					
8	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete. (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make: River Sand Non Course; Locally available)	CUM	106.00	6,774.41	718,087.12
FORM WORK					
9	Centering and shuttering including strutting, propping etc. and removal of form for Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc. (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course; Locally available)	SQM	210.00	624.07	131,054.24
DRAIN WORK					
RCC works					
10	Providing and laying in position specified grade of reinforced cement.1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size) concrete for all work up to plinth level, including the cost of centering, shuttering, finishing and reinforcement - (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course; Locally available)	CUM	58.00	6,183.35	358,634.15
11	Supplying Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. (Make; TATA Steel, RINL/SAIL, JSW Steel). (Cement Make; Ambuja/Ultratech / ACC/Lafarge) (Sand Make; River Sand Non Course; Locally available)	KG	4,526.00	101.70	460,294.20
RCC slab covers to drains:					
12	RCC slab covers to drains: Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC rectangular covers on drains of footpath of various sizes. The precast concrete slab need to be of M-25 grade cement concrete with reinforcement of 10/8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways, neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick provided with 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Architect/Bank.	SQM	106.00	2,611.82	276,853.14
PVC Manhole cover					
13	"ULTRA POLYPLAST" PVC and Plastic Manhole Cover of all size of Regular and Heavy PVC Manhole Cover in square and rectangle shapes Manhole covers are made using thermoset material. The material comprises of cross-linked polyesters combined with fiber glass reinforced materials to sustain against wear-n-tear for heavy load vehicular traffic.the material to be resilient withstands constant exposure to weather or sun without sacrificing security or aesthetics, outer size to be in 24" x 24", 30"x30" size as per site condition, the cost to be calculated in SQM. Make:	SQM	10.00	2,350.00	23,500.00
HARDSCAPE PAVIT FLOORING					
14	Providing & laying of PAVIT FLOORING of 18 to 20mm thickness in the Driveway, in line and level levels & locations in flooring to be layered with EXTERIOR Grade adhesive chemical of approval make OR in Cement & Sand with 1:4 ratio (as per Engineer in-charge / architect) as per standard laid to patterns grouting of joints using approved matching colour tile grout, necessary cutting, mitring, curing, cleaning etc. complete as per detailed drawings, pattern, specification & as per approval of architect. The indicated areas are only laid areas and the quoted price to be inclusive of the wastages as per the pattern indicated in the layouts/drawing . Slope to be maintained till existing drain, Tiles to be laid with approved suitable good quality 2mm PVC spacer and joints to be filled with Laticrete or equiv. make non-stain epoxy grout of approved shade as per detail. Quoted rate to include the cost of curing, cleaning for any stains before handover & protection of finished/completed tile flooring. Size of Pavit can be 100X100 MM / 200X200 MM / 300X300 MM (Make:Pavit/Johnson/Nitco/Kajaria/Qtone/Simpolo) Basic Rate Pavit ; Rs. 755/- per SQM	SQM	2,221.00	1,353.06	3,005,146.26
ENTRY AND EXIT GATES					
15					

	<p>a) Supply & Installation of single panel sliding operational main entrance gate as per received drawing from the Architect. Gate fabricated using M.S. RHS pipe section of section size 100mm x 50mm forming main frame of gate, internal design of gate fabricated using M.S. RHS of section size 50mm x 30mm and SHS of section size 20mm x 20mm. Vertical member placed at distance as indicated in drawing. Gate provided with M.S. sheet closure between two vertical pipe as indicated in drawing. Gate provided with vertical post of 100mm x 100mm box section fabricated using ISMC 100mm x 50mm, these members form as vertical post consisting bearing arrangement for sliding system. Gate provided with bottom track consisting ISMB of 150mm x 75mm, bottom track provided with stiffeners at bottom for rigidity with concrete. for rigidity with concrete. Gate provided with base plate and anchor fastener for post. Gate provided with locking arrangement. Gate install in position in proper line level and plumb bob. Gate provided exterior grade PU mat finish as per requirement. Rate is inclusive of raw material charges, size wise cutting, argon welding, grinding, finishing complete with labour tools and machineries. Installation of Sliding gate including labour, site fitting material, tools, machineries, equipments etc. MS (Make; TATA Steel, JMT Steel, JSW Steel; for details refer to drawings) Size of Single Panel Sliding Gate: 5000mm (L) x 2120mm (H)</p>	Nos	2.00	225,000.00	450,000.00
	<p>AUTOMATED OPERATION SYSTEM OF SINGLE PANEL b) Supply & Installation of automation system for above single panel sliding gate. Automation system consists of gate operator, remote control set, safety photocells, one way push button, flashing lamp complete with installation. Providing all mechanism and system in all panels required for sliding system wire complete with installation. Rate is inclusive of all material, components, hardware with labour, tools and machineries. Three phase supply from 4 pole MCB at required location to be provided from your side. Size of Single Panel Sliding Gate: 5000mm (L) x 2120mm (H)</p>	Nos	2.00	175,000.00	350,000.00
	<p>OPENABLE WICKET GATE c) Supply & Installation of Openable Wicket Gate with Specification same as item no. 1 but single panel openable wicket gate for pedestrian; Rates including Installation of Openable gate including labour, site fitting material, tools, machineries, equipments etc. Size of Single Panel Openable Gate: 1000mm (L) x 2120mm (H)</p>	Nos	2.00	40,003.50	80,007.00
III	FIXING OF WINDOW FIXING ON ALL END WALLS OF THE BUILDING				
1	UPVC WINDOWS				
	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Openable windows, window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and double glazing or as per Manufactures specification, 5mm 8mm spacer 5mm toughened glass with glass bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm upto 2.50 sqm). Manufacture has to take in account the wind load as per local norms. Contractors to submit shop</p>				
	a) For window- W1 (850mmx1500mm)			61.00	
	b) For window- W2 (1500mmx1500mm)			119.00	
	c) Lift lobby Window LW (4421mmx1600mm)			64.00	
	d) Louvers L (6100mm x760mm)			19.00	
	e) Fixed F (1480mmx2135mm)			19.00	
		SQM	282.00	6,869.52	1,937,203.78
IV	REPAIR & REHABILITATION WORKS				

1	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge. For 75 mm average thickness	SQM	210.00	320.34	67,271.19
2	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge for RBars above 12 mm diameter	RMT	300.00	15.64	4,690.68
3	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100 mm upto 200 mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/ balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge. Upto and including 12 mm dia.	EACH	180.00	119.70	21,546.61
4	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer- In-charge complete in all respect.Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	SQM	105.00	241.78	25,386.86
5	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member. Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall include cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping and excluding reinforcement etc (Payment under this item shall be made only after proper wet curing has been done and surface has been <u>satisfactorily evaluated by sounding/tapping with a blunt metal</u>				
a	75 mm thick in Grade M25 with cement content not less than 330 kg per cum	SQM	53.00	482.33	25,563.52
b	100 mm thick in Grade M25 with cement content not less than 330 kg per cum	SQM	53.00	723.47	38,344.15
6	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved.Epoxy injection grout in concrete/RCC work of approved make.	KG	100.00	468.98	46,898.31
B	INTERNAL CIVIL WORKS				
V	DISMANTLING & DEMOLITION WORKS (INTERNAL AREAS)				
1	Dismantling/removal of existing P.C.C at all floor levels, Chipping the existing CC screeding (thickness up to 100-150 mm) Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. The rate shall also include providing of necessary protection sheets to cover the existing work area.	CUM	403.50	2,063.00	832,428.75
2	Dismantling brick tile covering in terracing/floor including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	SQM	592.66	89.28	52,912.48
3	Dismantling 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.	CUM	147.63	1,745.86	257,744.71
4	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	SQM	1,180.09	96.06	113,358.88

5	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge. Note:The Contractor has to submit the layout of existing floor plan & get the same approved Architect/Bank.	SQM	5,492.36	47.75	262,283.51
6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead				
	a) Of area 3 sq. metres and below	SQM	280.00	121.61	34,050.85
	b) Of area beyond 3 sq. metres	SQM	40.00	160.08	6,403.39
7	Removal of Existing Toilet Sanitary Fixtures				
	Removal of existing toilet sanitary fitting (W.C, Wash basins, Urinals, Sinks etc.) with all accessories, GI and CI piping as required including cutting the walls and floors and stacking of serviceable materials and including Disposal of unserviceable materials/debris from site by trucks to nearest dumping yard of Municipal Corporation (including shifting to ground floor, loading, unloading and lead) as per direction by Client or as per the instructions of the Project Manager. Building premises should be kept clean from any encumbrances. The rate shall also include providing of necessary protection sheets to cover the existing work area. Note:Washroom /block of toilets to be considered one unit only				
	a) For Common washroom of size (7600mmX4250mm) of Area 32.30Sqmt	NOS.	10.00	9,000.00	90,000.00
	b) For Common Washroom of size (5200mmX2500mm) of Area 10.30Sqmt	NOS.	4.00	3,000.00	12,000.00
	c) For attached washroom of Size (4600mmX1900mm) of Area 8.70 Sqmt	NOS.	8.00	2,500.00	20,000.00
	d) Dismantling Works inside Duct of size (2600mmX 1000mm)				
8	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge irrespective of diameter of pipe.	RMT	624.00	136.78	85,350.51
9	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge Up to 300 mm diameter	RMT	208.00	386.99	80,494.24
10	Dismantling C.I. or asbestos rain water pipe of various diameter of pipes with fittings and clamps including stacking the material within 50 metres lead :	RMT	104.00	68.01	7,072.88
11	Dismantling of G./C.I. sluice valve various sizes including stacking of useful materials within a lead of 50 metres irrespective of diameter, as per the direction of Bank/Architect.	RMT	52.00	270.76	14,079.66
12	Dismantling of Electrical wiring & Fixtures; Dismantling/Removal of Electrical wiring & Fixtures				
	Dismantling of electrical wiring & fixtures: Dismantling/removal of electrical wiring & fixtures and handing over the same to the client and/or stacking of serviceable material and disposal of unserviceable material. All disposable materials to be disposed to the nearest dumping yard of Municipal Corporation. Building premises should be kept clean from any encumbrances.				
	a) Floor Area	Each	4.00	10,000.00	40,000.00
	b) Common Area (Duct)	Each	1.00	10,000.00	10,000.00
13	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading,transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved. Note: Quantity shall be assessed/ascertained from the number of trips of Vehicle's carrying capacity.	CUM	500.00	223.69	111,843.22
VI	PEST CONTROL				
	Providing Pest Control by appointing a specialized agency as per the specifications mentioned by the Bureau of Indian Standards or Pest Control India (whichever is higher), for General Civil, Plumbing./ Drainage and timber/ Carpentry works, Gypsum/play related work, including a one-year guarantee under suitable undertaking on stamp paper etc, complete as directed. Holes of diameter 12 mm (1/2" approx.) are drilled slanting towards the core of woodwork at a distance of 500 mm (20"). Insecticide is then poured into these holes. Special oil based chemical is sprayed on all vulnerable unpainted woodwork. (Mode of measurement to be on carpet-area of floor and not the area of surface treated)(Make: PCD)	SQM	5,400.00	75.00	405,000.00
VII	CIVIL & MASONARY WORKS				
1	Light Weight Block Work				

	Providing and laying autoclaved aerated cement blocks masonry with 100mm/150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge.(Make: Siporex / AAC/Birla)	CUM	321.22	7,062.42	2,268,556.54
2	Internal Cement Plaster				
	Providing 15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement: 4 coarse sand) (Cement Make; Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course)	SQM	3,951.47	348.94	1,378,829.60
3	External Cement Plaster				
	Providing 18-20 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge. (Cement Make; Ambuja/Ultratech / ACC/Lafarge. Sand Make; River Sand Non Course)	SQM	1,104.94	455.47	503,262.26
4	PCC Flooring				
	Providing and laying Plain Cement Concrete (P.C.C.) flooring average (40 to 125mm Thk) cement mortar of PCC 1:4:8 (1 cement: 4coarse sand:8 graded stone aggregate using 0.65 cum of 40mm nominal size of aggregate and 0.24 cum of 20mm nominal size of aggregate) over the existing floor surface to achieve a perfectly levelled and smooth floor, including finishing of edges near junction - boxes, curing & filling of joints with Asphalt etc1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone;aggregate 40 mm nominal size) (Cement Make: Ultratech/ Ambuja/Ultratech / ACC/Lafarge. Sand Make: River Sand Non Course)	CUM	372.12	5,772.88	2,148,228.68
5	Water Proofing				
	Water Proofing : Providing, applying & testing water proofing treatment of RCC slabs (toilets etc) comprising of the following operations: - Cleaning RCC surfaces and plastering of RCC and brick wall surface with 12mm cement mortar 1:4 (1cement : 4 coarse sand) mixed with CICO admixture as per manufacturer's specifications. - Three coats of waterproofing - (first layer of waterproofing to be @0.253kg/sqm, the second & third layer to be @ 0.126kg/sqm) each admixed with grey cement over a coat of neat cement slurry admixed with chemical CH-9, providing & fixing Mesh cloth at all junctions spreading out 150mm on floor and 150mm on wall and sealing all corners, joints, junctions. 12mm thick protective plaster 1:4 (1 cement: 4 coarse sand) over treated surface etc complete. (Quoted rate to include grouting of RCC surface for any cracks/ fissures). This treatment shall be up to 900mm height on all walls from finished floor level, all around water proof area. (Actual surface area to be measured) Note: Special warranty for 10yrs to be out lined along with authorized specialized applicator executing the job. (Cement Make: Ambuja/Ultratech / ACC/Lafarge) Sand Make; River Sand Non Course)				
	a) For 1st Floor Terrace Area	SQM	856.28		
	b) For Washrooms	SQM	916.07		
	Total		1,772.35	850.00	1,506,499.66
6	Brick Bat Coba				
	Brick Bat Coba: Providing and laying integral cement based Brick Batt Coba treatment of 8" in toilet area with tapering off the treatment towards top including finishing smooth with cement slurry admixed with curing etc. complete in all respects as per specification & as approved by Architects. (Plan area to be measured).	CUM	111.50	6,500.00	724,750.00
7	Core Cutting				
	Making Core Cutting in slabs / beams and any other R.C members to any dia & depth by using 'HILTI' make diamond drilling machine with tolerance for any type of inserts, anchor fasteners etc. all levels. Rate shall include for all charge, preparation of surface, cutting of reinforcement, cleaning the surface, staging, scaffolding application of necessary chemical / foil (HAV) as per manufactures specification with necessary tools and equipment's water and power, removal of debris from the site, staging scaffolding etc. complete, as directed.				
	a) 100 mm Dia	NOS	24.00	800.00	19,200.00
	b) 125 mm Dia	NOS	24.00	800.00	19,200.00
	c) 150 mm Dia	NOS	24.00	950.00	22,800.00
	d) 250 mm Dia	NOS	24.00	1,500.00	36,000.00
	e) 300 mm Dia	NOS	24.00	2,000.00	48,000.00
8	Granite Counter				

	Providing and fixing 18 mm thick Granite gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, Washrooms vanity kitchen counters, 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 of edges to give high gloss finish etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red Area of slab over 0.50 sqm Rate including moulding, Groove etc. (Granite Make : Natural) (Basic Rate of Granite: 2200 Rs per SQM)	SQM	47.37	4,587.54	217,311.88
9	Marble Top on Counter				
	Providing and fixing of marble top on storages/ counters as per the architect design marble should be fixed by adhesive chemical line and level the cost should be included with polishing & Fascia finishing and polished and all cutting etc to be included; Rate including moulding, Groove etc. (Basic Rate of Marble: 300 Rs per SQMT) (Make: Natural)	RMT	20.00	4,500.00	90,000.00
10	Cutting/ Hole of Sink/Basin				
	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble / Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	EACH	60.00	829.41	49,764.41
11	Granite Window Sill/Granite Door Jamb				
	Supply Providing & Fixing of Granite Window Sill/Granite Door Jamb of 150mm to 250mm width of uniform colour with 18 mm thick +2mm tolerance machine cut, machine polished in nominal sizes, as per drawing Granite to be fixed with adhesive chemical line and level the cost should be included with polishing & Fascia finishing and polished and all cutting for window etc to be included (Make : Natural Granite)	RMT	765.66	1,250.00	957,075.00
12	Urinal Partition				
	Providing and fixing Urinal Partition with double Granite Stone 19mm+1900 thick machine cut, Italian Marble Urinal Partitions of size 450 x 1150mm ht. in Wall in Gents toilet with cost included of Granite sticking together edge molding, joints finished neatly with coloured cement, curing, hand polishing, cleaning etc. complete, as per the architect design (Granite Basic Cost: 2200 Rs per SQMT) (Natural Granite)	SQM	14.58	4,500.00	65,610.00
VIII FLOORING, DADO & CLADDING WORKS					
1	Carpet Flooring				
	Providing & fixing Carpet of nylon 6.6. fiber based anti- microbial sanitized carpet roll of 4.3mm thickness (18 to 20 ounce) . The carpet should be 100% washable and stain resistant. The product should carry 10 years warranty Note : Qty should include all wasting design pattern as per the architect design. CARPET TILE CT-02: As per approved make, design, shade and color 18-20 ounce (Basic rate of Carpet @ Rs. 165/- per SF) (Carpet Make: Ecosoft/Milican/Welspun)	SQM	866.70	2,318.00	2,009,006.61
2	Vitrified Tiles Flooring				
	Providing and laying full body Vitrified tiles/Antiskid Tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately) (Tiles Make: Nitco/Kajaria/Johnson/Simpolo/Somany)				
	a) Size of Tile 600x1200 mm (For Office Area) Basic price Rs. 970 per SQM	SQM	4,223.42	1,336.57	5,644,888.34
	b) Size of antiskid Tile 600x600 mm (For Washrooms) basic price Rs. 750 per SQM	SQM	339.43	1,241.40	421,371.13
3	Vitrified Tiles Dado				
	Providing and fixing vitrified glazed wall tile polished finish of preferred size (600mmx1200mm) conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (Tiles Make: Nitco/Kajaria/Johnson/Simpolo/Somany) Basic price Rs. 970 per Sqm	SQM	1,343.41	1,500.00	2,015,119.58
4	Vitrified Tiles Skirting				

	Vitrified Tile Skirting: Providing and cladding Vitrified tiles for skirting of approved make and sample in pattern as per detailed drawings in cement paste on a backing coat of cement mortar in ratio of 1 : 3. The rate should be inclusive of cleaning joints and grouting them with neat white cement paste with pigmented additives to match shade of the tile. Skirting to be fixed flush with finished surface of wall in line and level and 6 mm wide groove to be made in wall at the junction of skirting and finished surface of wall etc. complete matching to flooring. (75 mm high) (Tiles Make:Nitco/Kajaria/Johnson/Simpolo/Somany)	RMT	777.21	760.00	590,679.60
5	Italian Marble Flooring Providing and laying machine cut, mirror polished Italian Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. (Basic Rate of Marble : 4300 Rs per SQMT) (Imported or Equivalent Supplier/Lingaraj/Balaji/Thar)	SQM	209.79	7,500.00	1,573,425.00
6	Italian Marble Wall Cladding Providing and fixing Italian Marble Wall Dado with machine cut, mirror/eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc. (Basic Rate of Marble : Rs. 4300 per SQMT) (Imported or Equivalent Supplier/Lingaraj/Balaji/Thar)	SQM	415.57	8,826.10	3,667,891.32
7	Italian Marble Flooring Inlay Providing & Fixing of Italian Marble Flooring INLAY of 75mm to 100mm thk pattern Modern style of 2/3 colours in uniform colour with 18 mm thick +2mm tolerance machine cut, machine polished in nominal sizes, as per drawing & pattern including average 30mm thick adhesive chemical of approval make, sand mortar bedding (1:4) close jointed & floated with matching laid to level as required, curing complete as per specification, machine polished cleaned complete. No extra will be payable towards wastage due to material pattern. (Imported or Equivalent Supplier/Lingaraj/Balaji/Thar)	RMT	59.85	7,000.00	418,950.00
8	SS Strip for Wall Cladding Groove Providing & Fixing of SS 306 Solid Patti Inlay of 6/8mm X 10 mm to be fixed in the Groove, the contractor to ensure the Patti is fixed in line and level, and once it is polished the levelling of the same is maintained with 0 mm tolerance.	RMT	28.00	4,000.00	112,000.00
9	Antistatic Raised Flooring Providing and laying Anti Static Raised Flooring 200mm ht. or 300mm ht. Antistatic raised flooring 1 inch Thickness 600mm x 600mm tile of approved make and specification, fixed on pedestal placed at 600mm c/c horizontally on both direction, attached with stringer beam horizontally in both direction at 600mm c/c. It shall be Clean and stable. Free from bounce and vibration. No lipping between floor panels. At all edges/corners trim angles/bottom angle shall be used, in case of level difference Facia should be used. Cutout shall be made with proper marking as per plan for electrical and data/voice panel. (Location:Server Room & Hub Room)	SQM	46.20	4,766.06	220,191.94
10	Granite Flooring Providing & Fixing of granite FLOORING/DADO of uniform colour with 18 mm thick +2mm tolerance machine cut, machine polished in nominal sizes, as per drawing & pattern including average 30mm thick adhesive chemical of approval make sand mortar bedding (1:4) close jointed & floated with matching laid to level as required, curing complete as per specification, machine polished cleaned complete. No extra will be payable towards wastage due to material pattern	SQM	110.25	3,797.71	418,697.73
11	Granite Wall Cladding Providing and fixing Granite double frame with 16/18mm thick polished all ages the frame to take load of the door shutter in the toilets, the width of the frame to be max. 6" (Basic Cost of Natural Granite 160 Rs per Sqft)	RMT	233.32	1,150.00	268,318.58

12	Composite Wooden Flooring				
	Providing and fixing wooden composite Wooden flooring of 12mm thk with waterproof grade as per industrial standard(Make : Armstrong/Welspun/Vox)	SQM	24.00	5,862.00	140,688.00
13	Antistatic Vinyl Flooring				
	Providing and laying in position 3 to 4 mm thick Antistatic Vinyl flooring of So larbrite Luxury Vinyl Planks or approved make with Antistatic Copper strip with necessary adhesive materials, etc. all complete of approved make as per manufacturer's specifications and colour/design approved by the Architect complete. (Make: Response)	SQM	42.34	1,350.00	57,153.60
WASH ROOM RENOVATION & DUCT REPAIR WORKS					
IX	SOIL, WASTE AND VENT & RAIN WATER SYSTEM - SHAFT & BASEMENT				
1	Supplying & Installation, PVC rain water and vent pipes , (SWR)/pressure confirming to IS 13592 : 1990, 10kg pressure sealent should have voc limit of < 490 and 510 respectively. (conforming to IS 5382) joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions,cowls,etc.,laid under floor/ fixed on walls, and in pipe shafts etc., complete. Make: Ashirvad/ Supreme/Finolex complete				
	a) 315mm dia	Rmt	340.00	3,949.00	1,342,660.00
	b) 200mm dia	Rmt	470.00	1,528.00	718,160.00
2	Supplying, jointing, testing & Commissioning of approved make UPVC pipe SWR Type " B " confirming to IS 13592 with rubber ring/solvent joints for soil waste lines confirming to IS 5382.The quoted rate shall include necessary bends,shoes,supporting, M.S Brackets, G.I.Clamps, anchor fasteners, Grip bolts, nuts and bolts, GI suspenders, etc., complete SHAFT VERTICAL : a) 110 mm O.D b) 75 mm O.D RAIN WATER VERTICAL : a) 160 mm O.D b) 75 mm O.D (From Headrooms)				
	a) 110 mm O.D	Rmt	474.00	380.00	180,120.00
	b) 75 mm O.D	Rmt	130.00	200.00	26,000.00
	a) 160 mm O.D	Rmt	380.00	550.00	209,000.00
	b) 75 mm O.D (From Headrooms)	Rmt	15.00	200.00	3,000.00
3	Supplying and fixing of approved make PVC RAIN WATER COLLECTION KHURRA made out of UPVC with flange with leaf trap grating complete. dome/Side Through Type : a) 160mm dia				
	a) 160mm dia	Nos.	15.00	750.00	11,250.00
4	Providing ,fixing , testing and commissioning of pre-cast P.C.C support blocks of 1:2:6 concrete mix of sizes as given below for pipe supports on the terrace complete.	Cum	5.00	5,500.00	27,500.00
5	Providing ,fixing , testing and commissioning of approved make PVC vent cowl with necessary accessories etc., complete. a) 110mm dia b) 75mm dia				
	a) 110mm dia	Nos	24.00	175.00	4,200.00
	b) 75mm dia	Nos	8.00	100.00	800.00
X	WATER SUPPLY SYSTEM - SHAFT & TERRACE				
1	Supplying & Installation, installing, , jointing, testing and commissioning of approved make rigid chlorinated polyvinyl chloride (CPVC) confirming to ASTM d1784, standards with necessary CPVC fittings, and pipe fitting shall be schedule 80 ASTM f441 ,solvent cements used, to conform to ASTM d-2564, the fittings and specials such as tees, elbows, couplers, bends, enlargers etc.,with CPVC threaded combination / transition specials such as male adapters uPVC threaded female adapters, CPVC fpt tee, CPVC fpt elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar restore the same original condition neatly as directed by the engineer in-charge. Joints to be made with uPVC sealent should have VOC limit of < 490 and 510 respectively. Cement as per ASTM d-2564 . (for shafts and stilt only). for all pump line long bend should be used. Make: Ashirvad/ Astral/Supreme/Finolex/ Oriplast make complete for hot water quoted rates are all CPVC pipe and CPVC fixtures only				
	Terrace & Shaft Verticals : DWS & FWS a) 100 mm dia b) 80 mm dia c) 65 mm dia d) 50 mm dia				
	a) 100 mm dia	Rmt	15.00	4,463.00	66,945.00
	b) 80 mm dia	Rmt	170.00	3,064.00	520,880.00
	c) 65 mm dia	Rmt	170.00	2,238.00	380,460.00
	d) 50 mm dia	Rmt	60.00	950.00	57,000.00
2	Supplying & Installation and providing CPVC valve supreme make with necessary fittings a) 80mm b) 65mm				
	a) 80mm	Nos	10.00	3,500.00	35,000.00
	b) 65mm	Nos	4.00	2,500.00	10,000.00

	c) 50mm	Nos	20.00	1,500.00	30,000.00
	d) for 100mm ball valve including fitting like CPVC Coller etc. testing checking and complete	Nos	10.00	6,790.00	67,900.00
3	Supplying & installation of water meter Ananad/ Kranthi/ equivalent make with threading type				
	a) 50MM DIA	Nos	2.00	8,700.00	17,400.00
	b) 65MM DIA	Nos	2.00	14,700.00	29,400.00
	c) 80MM DIA	Nos	2.00	16,500.00	33,000.00
	d) 100MM DIA	Nos	2.00	22,000.00	44,000.00
4	Supplying & installation of tank nipple including all fittings				
	a) 100MM	Nos	4.00	1,880.00	7,520.00
	b) 80MM	Nos	4.00	1,009.00	4,036.00
	c) 65MM	Nos	4.00	775.00	3,100.00
	d) 50MM	Nos	4.00	185.00	740.00
5	Supplying & installation of MS slotted angle iron brackets, hangers, supports with necessary drilling holes to suit the insertion of pipe clamps, deburring etc., as per detailed drawing for supporting soil, waste and rain water pipes and water supplying & installation pipes in shafts with suitable MS clamps, bolts, anchor bolts, nuts and washers fixed on shaft walls outer walls etc., complete as directed by the architect/employer..	Kgs	100.00	225.00	22,500.00
6	Supplying, installing, testing and commissioning of suitable automatic level control system comprising of level control instrument, magnetic sensors for sumps and OHT, connected cabling etc.. Complete. Rate quoted shall include min 450m of cable along with 19mm PVC conduit, Contoller panel and integartion with Main Electrical panel for pumps opertaion	Nos.	3.00	25,000.00	75,000.00
7	Supplying, installing, testing and commissioning of approved make uPVC schedule 40 pipes and SCH-80 fittings conforming to ASTM D-1785. Quoted rate shall include necessary fittings like, bends, elbows, reducers, collars, flanges, sadles, adapters, clamps etc., and also including solvent for jonits.(DOM/ Flushing line - inside toilet & shafts).				
	a) 40 mm dia	Rmt	135.00	370.00	49,950.00
	b) 32 mm dia	Rmt	70.00	300.00	21,000.00
	c) 25 mm dia	Rmt	70.00	250.00	17,500.00
	d) 20 mm dia	Rmt	80.00	170.00	13,600.00
8	Supplying, installing, testing and commissioning brass butterfly valves with standard lever confirming to IS standard 13039 with necessary flanges, nuts and bolts etc., complete.				
	a) 100 mm dia - Interconnection	Nos.	2.00	17,500.00	35,000.00
	b) 80 mm dia - Outlet from OHT	Nos.	2.00	15,200.00	30,400.00
	c) 65 mm dia - Outlet from OHT	Nos.	3.00	13,200.00	39,600.00
	d) 50 mm dia - Outlet from OHT	Nos.	7.00	8,800.00	61,600.00
9	Providing and fixing in position of approved quality high pressure rated Gun Metal Float Valve with copper ball float and brass rods of required length suitable for test pressure of not less than 15 Kg/sqcm of 50 mm size	Nos	3.00	7,500.00	22,500.00
XI	EXTERNAL SEWERAGE SYSTEM				
1	Excavation in all types of soil for laying pipes upto 450mm dia. including forming bottom surface to required level, refilling selected excavated earth around the pipe in layers 150mm thick, watering, consolidating and disposing off the surplus earth with in the site as directed by the site engineer with a lead of 300M etc., complete. Depth of excavation 0.75m to 2.0 m	CUM	150.00	1,000.00	150,000.00
2	Supplying, fixing and testing PVC GULLY trap with rebated top square bodies 300mm x 300mm CI top frame & cover (Double Seal) 110mm dia inlet / outlet set in 75mm thick PCC 1:4:8 bed, masonry Chamber of 230mm thick in CM 1:3, internal and external plastering 12mm thick in CM 1:6 and 1:3 respectively, rate quoted shall include the excavation, jointing to drain in CM 1:1, refilling and ramming etc., complete.	Nos	10.00	7,500.00	75,000.00
3	Construction of inspection chamber with 230mm best quality approved Table Moulded bricks in CM 1:4 over a bed of 100mm thick PCC 1:4:8, internal walls plastered in CM 1:3 and external wall with CM 1:6 with sponge finish, benching and channelling in PCC 1:3:6. Supplying and fixing square RCC frame & cover of size specified below (heavy duty), PVC steps in position as per the detailed drawing. The quoted rate shall also include necessary excavation and internal size of the chamber top cover as specified below.				
	a) Size = 600X600mmx900mm	Nos	4.00	11,500.00	46,000.00
	b) Size = 750X750mmx900mm	Nos	6.00	13,500.00	81,000.00
	c) Size =900mm x 900mmx900mm	Nos	9.00	15,500.00	139,500.00
	d) Size =1200mm x 1200mmx900mm	Nos	2.00	18,500.00	37,000.00

4	Providing ,fixing , testing and commissioning of PVC soil, waste pipes (SWR) confirming to IS 13592 :1990, Type B with rubber ring (confirming IS:5382) joint inclusive of all necessary tees,offsets,door bends, junctions, cowl, fixed specials etc., laid under floor ,on walls,and in pipe shafts etc., complete with suitable type of supports(fabricated by angles, channels, flats etc, with painting with fasteners), anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, including cutting, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also inclusive of civil work in PCC walls and making them good with filler material and finished in cement mortar etc. complete.				
	For Sewerage system				
	a) 110mm dia	Rmt	100.00	470.00	47,000.00
	b) 160mm dia	Rmt	85.00	960.00	81,600.00
	c) 200mm dia	Rmt	50.00	1,495.00	74,750.00
XII	SANITARY & CP FIXTURES				
1	Providing, fixing, testing and commissioning of white vitreous China wall mounting type European water closet with Concealed Cistern with Suitable C.I. chair or other hanging arrangements, WC connection set dia 90 mm complete of approved make including Bakelite seat & cover with C.P. hinges & rubber buffers, C.P. bolts, nut, necessary adaptors etc as required Including cutting & making good the walls & floors wherever required.	Nos	68.00	14,999.00	1,019,932.00
2	Fixing, testing and commissioning 15mm CP HEALTH FAUCET of approved make with necessary CP flexible hose 1000mm long nozzle,CP wall flange etc., complete.	Nos	68.00	1,700.00	115,600.00
3	Fixing, testing and commissioning of Wash basin below/above counter of any shape with 15mm dia CP faucet with waste coupling, 32mm dia CP ' bottle/P ' trap with extension pipe,supporting bracket with necessary steel to support basin, 1 Nos.15mm CP angle valve with 600mm long CP connection pipe and CP wall flanges all of approved make etc.,complete. rate quoted shall include supply of following fittings and accessories also.	Nos	66.00	9,500.00	627,000.00
4	Supplying & installation 15mm dia tall body pillar cock for table top with CP wall flange etc. with extension pipe, nipple 40/50mm length.	Nos	60.00	2,900.00	174,000.00
5	Fixing, testing and commissioning CP toilet paper holder fixed with SS screws complete as per dwg.	Nos	68.00	1,200.00	81,600.00
6	Fixing, testing and commissioning Robe hook with necessary accessories as per dwg	Nos	42.00	750.00	31,500.00
7	Fixing, testing and commissioning soap dispensor with necessary accessories as per dwg	Nos	52.00	1,500.00	78,000.00
8	Providing ,fixing , testing and commissioning of CP Soap dish of approved with necessary fixing materials etc.complete near shower area	Nos	64.00	750.00	48,000.00
9	Providing and fixing approved make paper dispenser fixed with SS screws near all water point etc., complete. near drinking water point		64.00	1,800.00	115,200.00
10	Providing ,fixing , testing and commissioning of Kitchen sink with single bowl and single drain board manufactured from 1mm thick stainless steel, 18G high grade indestructible chrome wall mounted type and necessary wall flanges etc.,complete. trap with extension pipe, 2 no CP angle cock,15mm dia CP sink mixer with Swing Type,1no.40mm dia CP waste coupling, with 1no. 40mm dia CP bottle nickel steel with top quality. Size of sink shall be as per architectural details.Size(600mmx450mm)	Nos	9.00	15,000.00	135,000.00
11	Providing ,fixing , testing and commissioning of 15mm CP 2-way bib-cock with CP flanges including necessary fixing materials etc., complete.(Janitor, tap)	Nos	72.00	1,500.00	108,000.00
12	Providing ,fixing , testing and commissioning of white glazed large flat back Urinals with 40 mm dia CP waste coupling with dome type grating, 40 mm dia CP bottle trap with extension pipe, urinal spreader with push type flush valve SS bolts and nuts to fix the urinal with hangers and brackets complete with wall flanges etc., complete. Size (430x420x655)mm	Nos	43.00	18,500.00	795,500.00
13	Supply, Installing, testing and commissioning of handicapped toilet including water closet, concealed flush tank for closet, Flush panel, 15mm dia Pillar cock with waste coupling, CP angle cock, 32mm dia CP bottle trap with extension pipe, grab bar vertical swing satin , supporting bracket with necessary steel to support basin, 450mm long CP connection pipe and CP wall flanges all of approved make etc.,complete. (Make:Dolphy/Euronics/Urban Desires)	Nos	6.00	45,000.00	270,000.00
	a) Industrial Stainless Steel Jet Hand Dryer with Brush Motor for Common washrooms (1800 watt).	Nos	13.00	25,000.00	325,000.00

	b) Industrial Stainless Steel Jet Hand Dryer with Brush Motor for DGM Cabin (2100 Watt)	Nos	16.00	16,000.00	256,000.00
14	Providing and fixing in place Toilet Paper/Tissue Holder with Cover Make : Euronics Model: RPH08S	Nos.	44.00	250.00	11,000.00
15	Providing and fixing stainless steel coat hooks including cutting and making good the walls complete of following make and type: (or equal approved)	Nos.	48.00	250.00	12,000.00
16	Paper DISPENSER Providing, fixing and commissioning Paper Dispenser, Hand Dryer and Waste Receptacle, as per Manufacture's specification. Make(Dolphy/Metro tree/Origami)	Nos.	8.00	200,000.00	1,600,000.00
XII SEWAGE SYSTEM - INTERNAL					
1	Supplying, laying, jointing, testing and commission-ing approved make UPVC pipe SWR Type " B " with solvent cement joints confirming to IS 4985 , wash basin outlets and Antisiphonage Pipes.The quoted rate shall include necessary chasing in walls making good the same in C.M. 1:4, necessary fittings viz.,elbows, tees etc., with G.I clamps. Anchor fasteners, Grip bolts, nuts and bolts, etc.complete.				
	a) 32 mm Outer dia	Rmt	161.00	130.00	20,930.00
	b) 40 mm Outer dia	Rmt	23.00	160.00	3,680.00
	c) 50 mm Outer dia	Rmt	86.00	190.00	16,340.00
2	Supplying, jointing, testing & Commissioning of approved make UPVC pipe SWR Type " B " confirming to IS 13592 with rubber ring/solvent joints for soil waste lines confirming to IS 5382.The quoted rate shall include necessary bends,shoes,supporting, M.S Brackets, G.I.Clamps, anchor fasteners, Grip bolts, nuts and bolts, GI suspenders, etc., complete				
	INTERNAL :				
	a) 160 mm O.D	Rmt	230.00	906.00	208,380.00
	b) 110 mm O.D	Rmt	682.00	470.00	320,540.00
	c) 75 mm O.D	Rmt	38.00	290.00	11,020.00
3	Supplying, fixing and testing 75 dia 'P'/MULTI FLOOR TRAP with SS frame and grating for floor drains (110 dia) with necessary boss connection for ,40 dia, 50 dia and 63 dia connection and extention pipe up to finished floor level for 110 dia, P trap to be properly supported for water level etc., complete. Rate quoted shall also include the necessary support required for trap.	Nos.	149.00	450.00	67,050.00
	Note: The PVC extension pipe for toilet floor traps extension pipe length should be 150mm above the sunken slab & 500mm from bottom of the slab				
4	Providing, fabricating, Installation & placing in position reinforcement steel of (Fe 500/550SD) TMT bars high yield strength ribbed bars of various diameters and grade conforming to is 1786:85 for reinforced concrete work. The work includes straightening, cutting, bending. cost to include supplying & installation and use of 0.9mm(18 gauge) annealed binding wire double fold to tie the bars in position with min 8 kgs per m.t and providing chairs, pvc cover blocks, loading & unloading, all lead and lifts etc.,complete as per the relevant drawings/ specifications, as directed by the Architect/ Bank. (Cost of chairs & spacers will not be included in the measurement for payment & reconciliation, contractor has to use the cut pieces for making the chairs, also including the cost of curtailment of steel), at all levels, including cost of steel.	KG	2,000.00	101.70	203,400.00
5	Providing and laying RCC of (1:1.5:3) of specified thickness wherever specified in layers of 15 Cms using machine crushed 40mm and downsize graded aggregates for foundation bed of columns footings, stone masonry walls, plinth beams, underground tanks, under/ below flooring, below retaining wall etc., including the cost of form work with cleaning & staging, sub grade preparation, leveling, proper compaction, vibration, rough finishing at the top surface, curing, tools and tackles, all leads & lifts etc., complete, in accordance to specifications & relevant drawings, as directed by the architect /Bank, including cost of cement. sewerage pipe base. including cost of cement. only supplying & installation of material, cement constant : 680 kg/cum	CUM	2.00	6,500.00	13,000.00
6	Drilling with core cutting machine in RCC beams, slabs, floors etc., for Laying pipes and rendering the same in RCC 1:2:4, finishing the same to the satisfaction of the owner or his authorized representative etc., including nominal reinforcement wherever required complete. The quoted rate shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes..(slab thickness considered 150mm to 250mm thick)				
	RCC Slabs.				
	a) 110 mm dia pipes (For EWC /drain/kitchen/pantry)	Nos.	220.00	750.00	165,000.00
	b) 75mm pipes (For floor traps)	Nos.	10.00	700.00	7,000.00

	b) Upto 63mm pipes (For wash basin,sink)	Nos.	78.00	650.00	50,700.00
7	Providing ,fixing, testing and commissioning of clean outs fabricated from heavy duty PVC pipe for waste and soil lines inside toilets for effective maintenance, laid true to finished floor level with brass chromium plated frame and screw type of cover and key for opening etc., complete				
	a) 75mm dia	Nos	4.00	100.00	400.00
	b) 110mm dia	Nos	47.00	150.00	7,050.00
	c) 160mm dia	Nos	15.00	200.00	3,000.00
XIII WATER SUPPLY SYSTEM - INTERNAL					
1	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes & fittings (CPVC) SDR.11 The fittings and specials such as tees, elbows, couplers, bends, enlargers etc, with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846.				
INTERNAL : DWS, FWS & HWS					
	a) 20 mm dia	Rmt	1,005.00	200.00	201,000.00
	b) 25 mm dia	Rmt	152.00	350.00	53,200.00
	c) 32 mm dia	Rmt	48.00	450.00	21,600.00
2	Supplying & fixing Nitrile rubber insulation on hot water pipes installed on terrace complete with outer mechanical protection as per specification.				
	a) 20 / 25 / 32 mm dia (13 mm thickness of insulation)	Rmt	30.00	50.00	1,500.00
3	Providing ,fixing , testing and commissioning of approved make Brass ball valves conforming to IS standards 6 with unions etc.,complete. for vertical drop in shaft for Domestic.				
INTERNAL & TERRACE					
	a) 20 mm dia (Screwed ends) - Inlet to toilets	Nos.	76.00	950.00	72,200.00
	b) 25 mm dia (Screwed ends)	Nos.	16.00	1,200.00	19,200.00
	c) 32 mm dia (Screwed ends)	Nos.	15.00	1,350.00	20,250.00
	d) 40 mm dia (Screwed ends)	Nos.	8.00	1,500.00	12,000.00
C INTERIOR FURNISHING WORKS					
XIV CEILING WORKS					
1	GYPSUM CEILING (PASSAGE & TOILET)				
	Providing & Fixing of 12.5 mm thk Gypsum Board false ceiling to G.I. framing in perfect level. Necessary offsets and grooves to be provided at the junction of ceiling & walls/columns/partitions etc., Cut out for light fittings A/C grills etc. Rate to include providing & fixing of necessary Aluminium/wooden/MS frame supports for the above fixtures & additional suspenders & the ceiling in AC duct area as per architects instructions. G.I. frame to consist of proprietary supplied frames & as per manufacturers recommendations suspended from dash fasteners anchored to structural slab by means of G.I.angles. Gypsum Board fixed with proprietary supplied fixing devices & finished. The joint between the sheets of plasterboard are to be covered with jointing paper tape and flushed with UB 888 (all purposes jointing compound) to provide a smooth durable and professional finish. Suspension points and clips shall be able to take a minimum safe load of 50 kgs. including making grooves at the junction of ceiling & walls/columns/partitions etc. Cut-outs for light fittings, A/C grills etc. to be left wherever necessary. the ceiling profile shall be as per Architects instructions. All complete including return air slits etc. & A/C boxing wherever indicated. Gypsum ceiling to be installed as per IGL specifications. Cost to include plastic paint as per specified in the Painting Section Make: Saint Gobain / USG	SQM	3,249.70	1,300.00	4,224,610.10
2	MODULAR CEILING (FOR WORKSTATION& AGM CABIN)				

	<p>Providing and Fixing 15 mm thick densified tegular edged TYPE eco friendly light weight calcium silicate false ceiling tiles of approved texture of size As per Manufacture, in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main "T" at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calcium silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm centre to centre along main 'T' Bottom</p>	SQM	2,354.85	1,500.00	3,532,271.40
	<p>Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.90 (Minimum), light reflection > 85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK. (Make:Armstrong/AMF)</p>				
3	GYPSUM PLASTER				
	<p>Gypsum Plaster / wall punning to be Fire resistant & should form Gyproc Elite 100 One Coat Gypsum Plaster Dry Bulk Density 770 Kg/M3 (Max), Water To Powder Ratio 1:1.25, setting time 20 / 25 Minutes, The plaster should be finished for a proper degree of smoothness. All horizontal lines and surfaces should be tested with a level. The Punning to be complete with scrapped clean, neat, smooth surface to be ready for the paint finish & all necessary grooves to be laid as per architect's design. (Groves will not be paid additional unless and until specified). (Make:Saint Gobain/Trimurti/JK POP)</p>	SQM	2,561.45	430.00	1,101,425.22
4	GYPSUM VERTICAL FACIA				
	<p>Providing and fixing Gypsum facia of 150mm to 250mm high of Gypsum sheets which includes G.I. Perimeter Channels of Non-IGL (Specifications same as above Gypsum Ceiling) (Make:Saint Gobain/Trimurti/JK POP)</p>	RMT	1,045.80	275.00	287,595.00
5	FABRIC STRETCH CEILING (LIFT LOBBY)				
	<p>STRETCH FABRIC : Supply & Installation of Stretch Ceiling with white translucent Film 75%, of Orange/equivalent make with model no OR-TRN-101175 or equivalent on Gi Metal work framing as per company's standards and as per the direction of the company's certified installer.(Retes shall be inclusive of the cost of necessary framings). It shall consist of Custom made Stretch false ceiling to fit exact dimensions with aluminium supports. The ceiling must be stretched and hooked into aluminium rails. Aluminium rails insuring good rigidity, to be fixed to the walls or other supports at the specified level. A proprietary semi rigid PVC hook (for Tensionmounding) is welded on the out line of the stretch ceiling The stretch ceiling to have Nonflammable fabric EURO CLASS B-S2 dO in the European classification of reaction to fire. 10 years warranty and manadatory european make certification. It shall include Supply of 6500K SAMSUNG Pure White LED Lighting with compatible LED driver and wiring in the stretch ceiling box. Lights to be placed in such a manner that no dark patch appears or zebra patter appears. Once lights are installed stretch ceiling to give uniform output with required lux level as per architect / lighting consultant. Rates shall be inclusive of installation of stretch ceiling and LED Lights by professional company's certified installers. Rates shall also include the cost of transportation of materials and also the travelling halting and all other misc. expenses of company s certified installer.(Make : Orange/Euroceil or Equivalent)</p>	SQM	171.36	10,000.00	1,713,600.00
6	METAL CEILING(WASH ROOMS)				

	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross</p> <p>"T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm centre to centre along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p> <p>GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and</p>	SQM	339.43	1,750.00	594,007.16
7	METAL BAFFLE (RAFTER) CEILING				
	<p>Providing & fixing Metal Baffle (Rafters) Ceiling, BAFFLE CEILING consisting of 0.40mm thick 'U' shaped pre-painted GI folded sections of sectional size 50 mm x 150mm, 1200mm long moulded to shape. The centre to centre distance between baffle to be 100 mm & baffle to baffle distance is 50 mm which can be modified as per architect/designers requirement. The baffles shall be fixed to each other using mild steel framework of size 25mmx25mm made using 1mm thick MS sheet which is folded and bent to desired profile finished with powder coating. These mild steel framework/sections shall be inserted between two members and fixed using self interlocking system. The steel framework in turn are fixed on to the true ceiling above using a suitable suspension system consisting of 'J' bolts, nuts, hangers, 6mm GI threaded rod and anchor fasteners and locking clips. Rate to includes necessary supports & other accessories as per manufacturer specification. Baffles : Size - (WxHxL) 25x125x1200 produced from extruded aluminium, End caps are produced from plastic. The rate shall include necessary shapes, designs, patterns .(Measurement shall be taken of the plan area only) Make: Armstrong MB150 or approved equivalent Location: DGM Cabins)</p>	SQM	511.18	4,800.00	2,453,656.32
8	TRAP DOOR				
	<p>Providing and fixing trap door in the false ceiling for HVAC in 19mm thick Ply finished in laminate exposed side of shutter with framework finished. All the edges shall be of teak wood lapping and finished in polished / paint match to laminate shade, inclusive of necessary hardware, locks & 19mm thick Ply support from ceiling and lock etc. complete (Basic Rate of LAMINATE - 50 Rs per Sft)(Ply (Plywood Make: Green-ply / Century Ply/ Archid Ply))</p>	SQM	28.00	5,500.00	154,000.00
XV	DOOR WORKS				
1	SINGLE GLASS DOOR				
	<p>Providing and Fixing GLASS DOOR HINGE with 10MM Clear toughened glass including Glass Door Hardware - 4Nos Hinges WGDH-102 Lock WPF-106, H-Type Handle 25MMx600MMxWPHH-2524 Pelmet Arm Door Closer - hold open unit WDCCS-2000 with saddle plate WG DSP-2000 including Aluminium Modular Door Frame -25MM x50MM or as Approved, Profile with Door Jam (Daar Patti) and Gasket (Black) (all Hardware will be black) (Make:Saint Gobain/Modi/Asahi India)</p>	Nos	94.00	28,000.00	2,632,000.00
	GD- (950 X 2150 MM)				
2	MAIN GLASS DOOR WITH FIRE RATED GLASS PARTITION				

	<p>Providing and Fixing of tested Saint-Gobain VDS® fully glazed fire-rated unlatched double leaf door system with 120 minutes of integrity and radiation control (EW 120) with symmetrical (bi-directional) fire protection. The frames shall be made of imported cold rolled profiles. The door frames are cold rolled from 1.5 mm steel sheet to form a profile of 50 mm x 50 mm on all sides. The door shutter would have the top rail, side rail and bottom rail dimensions of 50 mm x 50 mm. The overall door opening shall be as per tested evidence and tested as per EN 1634-1 in an accredited international laboratory. The glass shall be CONTRAFLAM LITE (14mm) clear, non-wired, toughened, interlayered, 120 minutes fire-rated glass for integrity and radiation control (EW 120) and insulation (I 20) with a light transmission of 86% and a sound reduction of 38 dB and manufactured in UL & TUV audited facility and including UL-EU Certification (File number R38101) and compliant to class 1(B)1 category of Impact Resistance as per EN 12600. The glass shall be tested for 5000 hours of UV resistance as per EN ISO 12543-4. The glass shall be EPD (Environmental Production Declaration) verified in accordance to EN 15804 and ISO 14025 in which its life cycle assessment is performed considering Cradle to Gate system boundaries. The glass must produce a recycled content declaration committing to a pre-consumer cullet of up to 11% and post-consumer cullet less than 1%. The glass shall provide bi-directional (symmetrical) fire protection. The shutters should be fixed to the frame using weld-on hinges of dimensions 179mm X 20mm. The profiles shall have grooves to incorporate fire-resistant gaskets. The glass should be held in its place with the help of 1.5 mm cold rolled steel beading and Kerafix 2000 ceramic tape with cross section of 4 x 15 mm as per the test</p>				
	<p>The beading shall be clipped on using stainless steel self-tapping screws fixed at a distance of 70 mm from the edges and 150 mm c/c henceforth. The glass panes are to be supported on non-combustible 5 mm thick calcium silicate setting blocks. The door should be fitted with mortise dead lock, offset pull handle 450mm and TS 73V Door closer. The inactive leaf should be fixed to the frame using a tower bolt. The doors shall be manufactured in a TUV audited facility. The doors shall offer C4 level of wind resistance when tested as per EN12211 and shall provide class 4 level of air permeability as per EN 1026. The door shall also be subjected to durability tests as per EN 12400 for C5 classification (200,000 cycles). The doors shall also be tested for class 5 of impact resistance when tested as per EN 13049.</p>				
	<p>The doors shall also be tested for class 4 level of mechanical strength when tested as per EN13115. The doors shall have water tightness level of 8A when tested as per EN 1027. Fire Rated Fixed Glass Partition with Glass Swing Doors (Fixed Glass Size : 600 X 2100-2 Nos) (Door Size : 1000X2100-2 Nos) per Floor, (Make: Saint Gobain/Dorma)</p>	SQM	26.88	64,000.00	1,720,320.00
3	WOODEN DOORS WITH LAMINATE FINISH				
	<p>Shutter: Providing & Fixing Solid Core Flush door with 45 mm thk shutter to be finished with 1mm thk Laminate both side as approved by the architect, complete to give a perfectly smooth finish as instructed by Engineer In-charge / Architect. Item to be completed in all respects as per drawings & instructions and all corner trim to be made out of 6mm thk. teak wood the finish of wood to be balance to get the exact match of Laminate ,the door to be complete with necessary hardware/accessories in SS of approved make & Model i.e., 4 heavy duty hinges, locks with computerised keys, tower bolt, concealed door closer heavy duty, etc of approved make & model . (Laminate basic rate:40/-per sqft), Cost to include all Hardware, Polish / Paint etc Make: Dorset / Hafele /Hettich, Model no Premium Series Door set.</p>				
	<p>Door Frame; Providing and fixing door frame 150mmx100mm made out for 19mm MR Grade Plywood, all three side, the front portion to be finished with wood trim of Laminate finish & polish as per architects drawings and details, the cost should including all materials and labour charges complete.(Note: The door & door frame will have sweed finish 6mm thk felt for sound insulation)(Laminate basic rate:40/-per sqft) Cost to include all Hardware, Polish / Paint etc (Plywood Make: Green-ply / Century Ply/ Austin Ply/Mikasa) (laminate Make: Green/Century/Merino/AICA)</p>				
	Door Size: D1- (900 x 2100 mm)	NOS	33.00	23,500.00	775,500.00
4	WOODEN DOORS WITH VENEER FINISH				

	<p>Shutter: Providing & Fixing Solid Core Flush door with 45 mm thk shutter to be finished with 1mm thk VENEER both side as approved by the architect, complete to give a perfectly smooth finish as instructed by Engineer In-charge / Architect. Item to be completed in all respects as per drawings & instructions and all corner trim to be made out of 6mm thk. teak wood the finish of wood to be balance to get the exact match of Laminate ,the door to be complete with necessary hardware/accessories in SS of approved make & Model i.e., 4 heavy duty hinges, locks with computerised keys, tower bolt, concealed door closer heavy duty, etc of approved make & model . (Veneer basic rate: 120/-per sqft), Cost to include all Hardware, Polish / Paint etc Make; Dorset / Hafele /Hettich, Model no Premium Series Door set. (Plywood Make: Green-ply / Century Ply/ Archid Ply)</p>				
	<p>Door Frame; Providing and fixing door frame 150mmx100mm made out for teak wood, all three side, the front portion to be finished with wood trim polish & polish as per architects drawings and details, the cost should including all materials and labour charges complete.Note: The door & door frame will have sweed finish 6mm thk felt for sound insulation (Veneer basic rate: 120/-per sqft) Cost to include all Hardware, Polish / Paint etc (Plywood Make: Green-ply / Century Ply/ Austin Ply/Mikasa) (laminate Make: Green/Century/Merino/AICA)</p>				
	Size: 900mm x 2100mm Ht Area including DGM Toilets	NOS	16.00	28,500.00	456,000.00
5	WC DOORS SHUTTER WITH LAMINATE FINISH				
	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm², modulus of elasticity 900 N/mm² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.</p>				
	Size of Door : 750 X 2100 (without Frame)	NOS	56.00	16,000.00	896,000.00
6	WPC DOORS FRAME FOR SHAFT				
	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm², modulus of elasticity 900 N/mm² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately).</p>				
	Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
	Frame size 45 x 70 mm(FOR SHAFT)	RMT	148.50	598.18	88,829.43
7	WPC SHUTTER DOORS FOR SHAFT				

	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid board one side white color and other side of board laminated with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/ kitchen cabinet etc. of required sizes comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm², modulus of elasticity 850 N/mm² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel piano hinges/soft close clip on concealed hinges and necessary S.S screws shall be paid separately) FOR 25 MM THICK. (Make:Alstone/IAISHREE/FENESTA/DUROPLAST)</p>	SQM	49.61	3,295.89	163,517.33
8	<p>METAL FIRE DOOR (FOR STAIRS) (with Vision Panel & Panic Bar)</p> <p>Providing and fixing 40 / 60 mm thick glazed fire resistant door shutters of 120 minutes Fire rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled mineral wool insulation having density minimum 96 kg/cum and fixing with necessary stainless steel ball bearing hinges of size 125x89x 3 mm of approved make, panic bar (Push type-UL listed) device for single leaf door(for inside operation), clear fire rated 6 mm this glass with metal vision panel of size(200x300mm), Anchor fastner (10x100mm), fire door closure, pair of SS tower bolt of 300 mm long, mortise dead lock with 70mm cylinder both side, SS D handle(19x250mm) followed by applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-Charge. MAKE:SHAKTI HARMON or equivalent</p>				
	MD1- (1200 x 2100 MM)	Nos	8.00	22,250.00	178,000.00
9	<p>METAL FIRE DOOR (Record Room) (with Vision Panel)</p> <p>Providing and fixing 40 / 60 mm thick glazed fire resistant door shutters of 120 minutes Fire rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled mineral wool insulation having density minimum 96 kg/cum and fixing with necessary stainless steel ball bearing hinges of size 125x89x 3 mm of approved make, device for single leaf door (for inside operation), clear fire rated 6 mm this glass with metal vision panel of size(200x300mm), Anchor fastner (10x100mm), fire door closure, pair of SS tower bolt of 300 mm long, mortise dead lock with 70mm cylinder both side, SS D handle(19x250mm) followed by applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-Charge. MAKE: SHAKTI HARMON</p>				
	MD2- (1200 x 2100 MM)	Nos	20.00	19,700.00	394,000.00
10	<p>DOUBLE DOOR METAL FIRE DOOR (FOR AHU ROOM) (with Vision Panel)</p> <p>Providing and fixing 40/ 60 mm thick glazed fire resistant door shutters of 120 minutes Fire rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled mineral wool insulation having density minimum 96 kg/cum and fixing with necessary stainless steel ball bearing hinges of size 125x89x3 mm of approved make, panic bar(Push type-UL listed) device for single leaf door(for inside operation), clear fire rated 6 mm this glass with metal vision panel of size(200x300mm), Anchor fastener (10x100mm), fire door closure, pair of SS tower bolt of 300 mm long, mortise dead lock with 70mm cylinder both side, SS D handle(19x250mm) followed by applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-Charge</p>				
	MD3- (1600 x 2100 MM) (double door)	NOS	8.00	24,750.00	198,000.00
XVI	PARTITION, PANELLING, STORAGE & MISCELLANEOUS FURNITURE WORKS				
1	DOUBLE GLASS PARTITION(DGM cabin)				

	Providing and Fixing Modular Double glass partition SLENDER-25/30mm x 100mm system at Top, bottom and sides, Including 10+10MM Clear toughened glass, Including Gasket & Glass to glass vertical I, T & L joints to be stick by VHB tape, The profile will be 10-12mm Microns (Black anodized) Sound Transmission Loss of 32 DB approx as per the architect approval. (Make: Saint Gobain/Modi/Asahi India)	SQM	134.95	6,000.00	809,676.00
2	SINGLE GLASS PARTITION (AGM Cabin)				
	Providing and Fixing Modular single glass partition SLENDER-25/30MM x 50/65 MM system at Top, bottom and sides, Including 10MM Clear toughened glass, Including Gasket & Glass to glass vertical I, T & L joints to be stick by VHB tape, The profile will be 10-12mm Microns (Black anodized) Sound Transmission Loss of 32 DB approx as per the architect approval. (Make: Saint Gobain/Modi/Asahi India)	SQM	733.32	3,750.00	2,749,950.00
3	DOUBLE LAYER GYPSUM BOARD PARTITION				
	Providing & fixing 100mm thick Gypsteel® stud partition which includes two layers of tapered edge 12.5mm thick Gypboard® plain (confirming to IS:2095 – 1996-Part-I) is screw fixed with drywall screws of 25mm & 35mm respectively at 300mm centres to either side of 48mm Gypsteel® studs (0.55mm thick having one flange of 34mm and another flange of 36mm made of GI Steel) placed at 610mm centre to centre in 50mm Gypsteel® floor and ceiling channel (0.55mm thick have equal flanges of 32mm made of GI steel) with joints staggered to avoid leakage through joints. A fixing channel of 99mm width (0.9mm thick having two flanges of 9.5mm each) has to be provided at the horizontal joints of the two boards 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 and two coats of Drywall Top Coat (as per recommended practices of Saint-Gobain India Gypsum) and i/c providing and fixing 50mm resin bonded fiber glass wool insulation, 48 kg/ cum density), p/fixing of edge beads, corner protection angle bead, p/f kail wood frames for door frame, cutting for electrical boxes, conduits etc., complete. 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 and two coats of Drywall Top Coat (as per recommended practices of Saint- Gobain India Gypsum)	SQM	1,351.66	2,000.00	2,703,319.08
	Note: (i) The cost to include p/f 10mm laminated grooves at junction of ii) groves for different materials, as per detail dwgs. iii) All exposed edges / corners/ grooves to have proprietary corner / edge bead sections/channels as per Architect's instructions. iv) At all locations where services are penetrating the partition above false ceiling to have additional GI frame work around the duct/cable tray/pipe and the gaps between the frame work and service to be filled with Glass wool with silicon sealant as directed. Skirting: Necessary provision to be made to fix the skirting as per details. v) Contractor to provide Glass wool of 50 density to ensure the sound proof partition. Make: Saint Gobain / USG				
4	GYPROC PLAIN BOARD WITHOUT FRAME				
	Providing & Fixing of 12.5 mm thk Gypsum Board paneling with-out G.I. framing in perfect level. Necessary offsets and grooves to be provided at the junction of ceiling & walls/columns/partitions etc. The joint between the sheets of plasterboard are to be covered with jointing paper tape and. including making grooves at the junction of ceiling & walls/columns/partitions etc. Details to be as per Architects instructions. Make: Saint Gobain / USG	SQM	200.00	550.00	110,000.00
5	ALUMINIUM FRAMING FOR TV FIXING AND DOOR FIXING				
	Providing & Fixing of Aluminium framing of 50 mm X 35 mm, thickness to be as per standards, the Aluminium to be fixed in proper line and level, the aluminium to have 18 mm th ply on one side to fix the TV, the frame to be anchored to the ceiling, floor and walls. Make; Jindal, Hindalco, NELCO	SQM	125.00	2,950.00	368,750.00
6	PELMET				
	Providing and fixing wooden pelmet of 200mm x 200mm, L- Type to be fixed to ceiling/ wall, the pelmet to be finished with Laminate & paint. 18mm thick ply and supported with supports made of 50mm x 50mm wood sections, including finish with 1mm thk laminate of approved quality, on the visible part of the ply, complete as per detailed drawings.	RMT	474.60	1,140.00	541,044.00
7	ACOUSTICAL MOVABLE WALL				

	Providing and fixing Acoustical sliding folding partition – Manually Operated of 100U thickness having 50db sound insulation with Single Roller (without any door panel) size -as per Drawings Palace 110 56dB OG-system Track-2C Trolley-FG2 Opening Width as per drawings, Opening Height as per drawings sq.m. 6 Standard Panels, 1 Adjusting Panels, 2 Wall Stanchions, Wicket Panel, - Double Wicket Panel, Pass door Slab/True Ceiling Height as per drawings. Finishing not part of the cost. Cost to include the above Acoustic partition provided by the company, the area would be measured including the above partition (Make: Dormakaba / Hafele)	SQM	58.21	30,000.00	1,746,360.00
	PANELLING				
8	PLY PANELING WITH LAMINATE FINISH				
	Providing & Fixing 12 / 18 mm thk Ply panneling with 1mm laminate in proper line and level, the contractor to ensure all edges are finished in Teak wood lipping etc finish of reputed make reputed make as per the architect design (Plywood Make: Green-ply / Century Ply/ Archid Ply)(laminare Make: Green/Century) Basic cost of laminate @ 430/-per SQM	SQM	84.00	3,000.00	252,000.00
9	PLY PANELING WITH VENEER FINISH				
	Providing & Fixing 12 / 18 mm thk Ply paneling with 4mm veneer finish in proper line and level, the contractor to ensure all edges are finished in Teak wood lipping etc of reputed make as per the architect design (Plywood Make: Green-ply / Century Ply/ Archid Ply)(Veneer Make: Plywood Make: Green-ply / Century Ply/ Archid Ply)(Veneer Make: Basic cost of Veneer @ 120/- per sq ft	SQM	633.60	4,750.00	3,009,600.00
10	PLY PANELING WITH BACK PAINTED GLASS				
	Providing and fixing in 12 / 18 mm Ply in proper line and level, the contractor to ensure all edges are finished in Teak wood lipping etc position writing board with in glass of 6mm, back painted Glass as per architect design (Plywood Make: Green-ply / Century Ply/ Archid Ply)	SQM	115.50	3,250.00	375,375.00
11	MIRROR PANELLING				
	Providing & Fixing 6 mm thk Mirror of reputed make on ply boxing of 18 -19 mm Th, paneling to come out by 100 mm, which will having recess light /conceal light as per architect drawings. Mirror to be fixed with 3 M tape and also to have plastic coating on rare side. LED to be installed for back lighting (Make: Saint Gobain)	SQM	79.20	2,695.00	213,444.00
12	PLAIN PLY PANELLING				
	Providing & Fixing 12 mm thk with ply framing in line and level to take the finished, all edges are finished in Teak wood lipping etc item as per architect design (Plywood Make: Green-ply / Century Ply/ Austin Ply/Mikasa Ply)	SQM	80.00	1,345.00	107,600.00
13	ACOUSTIC BOARD PANELLING (SOFT BOARD)				
	Providing & Fixing of Acoustic Wall Panel made from Polyester short fibre with material consist of a three dimensional network structure with breathable open cells with 10/12mm thickness; Dimension : 1220mm X 2440mm; NRC: upto 0.9 as tested by ARAI; Density : 180kg/m3; Light weight Panel and flexible along with excellent tension/compression stiffness The surface of the tile is resistant to surface wetting rate 99.6% (Make : Techno/Tranquil)	SQM	172.80	3,750.00	648,000.00
14	ACOUSTIC FABRIC PANELLING				
	Providing and fixing 'Acoustical Fabric Wall Panelling' with square edges made of fibre glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colours as per the choice of the Architect/ Person in-charge of size 2100x600, 1200x600 or 600x600 mm providing a minimum sound absorption level of 0.90 NRC to be affixed to wall using Wall panel with 8mm commercial plywood on gypsum partition and construction adhesives as per the instructions laid down by the manufacture, the two panel will have groove of 8-12mm gap, which should be of aluminum /SS chanel 1mm thikness dually powder coated /Anodising as per architect approvals.	SQM	144.00	4,500.00	648,000.00
15	GYPSUM BOARD PANELLING				

	Providing & fixing wall Gypsum paneling Gypsteel® stud paneling which includes one layers of tapered edge 12.5mm thick Gypboard® plain (confirming to IS:2095 – 1996-Part-I) is screw fixed with drywall screws of 25mm & 35mm respectively at 300mm centres to either side of 48mm Gypsteel® studs (0.55mm thick having one flange of 34mm and another flange of 36mm made of GI Steel) placed at 610mm centre to centre in 50mm Gypsteel® floor and ceiling channel (0.55mm thick have equal flanges of 32mm made of GI steel) with joints staggered to avoid leakage through joints. A fixing channel of 99mm width (0.9mm thick having two flanges of 9.5mm each) has to be provided at the horizontal joints of the two boards 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, Note: (i) The cost to include p/f 10mm laminated grooves at junction of ii) groves for different materials, as per detail dwgs. iii) All exposed edges / corners/ grooves to have proprietary corner / edge bead sections/channels as per Architect's instructions. iv) At all locations where services are penetrating the partition above false ceiling to have additional GI frame work around the duct/cable tray/pipe and the gaps between the frame work and service to be filled with Glass wool with silicon sealant as directed. Skirting: Necessary provision to be made to fix the skirting as per details.(Gypsum Make : Saint Gobain/Gyproc)	SQM	448.00	1,600.00	716,800.00
16	PLY BOXING				
	Provided & Fixing Ply boxing with ply framing of 12 / 18 mm thick to ensure line and leave, thickness of box 100mm contractor should ensure finishing on all edges in TW Patti, all exposed edges to have polish, paint	SQM	40.00	1,750.00	70,000.00
17	BELOW WASH BASIN COUNTER STORAGE				
	Providing & Fixing below Storage to be made in wood frame / aluminium frame 19mm, marine ply to be fix to the top to be granite(as per Architect's shade, design & make) the base to be of laminate finish as per design. The storage to have all shelf's, shutters to be finish laminate with complete Hardware as per details. Basic cost of laminate @ 430/-per SQM	SQM	47.52	7,530.00	357,825.60

18	BELOW KITCHEN COUNTER STORAGE				
	Providing & Fixing below Storage to be made in wood frame / aluminium frame 19mm, marine ply to be fix to the top to be granite (as per Architect's shade, design & make) the base to be of laminate finish as per design. All Edges to have PVC lipping Patti of 2mm th, Matching to laminate, all internal to be laminate finish of .8 mm. The storage to have all shelf's, shutters to be finish laminate with complete Hardware as per details. Basic cost of laminate @ 430/-per SQM	SQM	16.00	7,530.00	120,480.00
19	SHELF				
	Providing & Fixing 35mm x 250 /300mm shelf with ply boxing in veneer finished with melamine polish, contractor to take all the hardware in cost. as per the direction of Architect/Bank.	RM	20.00	2,130.00	42,600.00
20	Alluminium Skirting				
	Providing & Fixing of 50mm/75mm wide with powder coating Alluminium Skirting profile on walls/ Gypsum partitions as per Architect Drawings	RM	100.00	1,500.00	150,000.00
XVII	PAINTING WORK				
	Product description				
	Luster Paint interior wall finish - luster provide a very tough and durable finish to your weall. When applied with roller, it imparts a characterstic pattern on to the wall.				
	Performance features and benefits				
	Luster Paint interior wall finish - luster is solvent based. It develops a characterstic lustrous pattern when rolled. On drying it develops a hard tough film which is highly durable, washable and exhibits superior water repellency. This makes wall painted with luster stain resistant and very easy to maintain.				
	Recommended usage				
	Luster Paint interior wall finish - luster is an interior wall finish that can be applied on suitably prepared masonry walls.				
	Recommended Application				
	Apply 2 coats of interior wall finish - luster for repainting and 3 coats for fresh surface painting as given below				
	Product				
	sand the surface with emery paper 180 and wipes clean				
	a) Paint wall primer (brush ,spray) - product code - 0359 - Thinner - mineral turpentine oil - Dilution %(by vol) - 8 to 10 brush/15 to 20 spray, Application viscosity (sec) - 30 to 40 brush/ 20 to 25 spray recoating period (hrs) - 6 to 8hrs				
	b) Paints acrylic wall putty (putty knife) - product code - 1354 - Thinner - water - Dilution %(by vol) - As required, Application viscosity (sec) - N.A.,recoating period (hrs) - 4 to 6 hrs				
	sand with emery paper 180 and wipe clean				
	a) Paint wall primer (brush ,spray) - product code - 0359 - Thinner - mineral turpentine oil - Dilution %(by vol) - 8 to 10 brush/15 to 20 spray, Application viscosity (sec) - 30 to 40 brush/ 20 to 25 spray recoating period (hrs) - 6 to 8hrs				
	Sand with emery paper 320 and wipe clean				
	paints interior wall finish - luster(LF) 1st Coat (Brush, Roller,Spray) - product code - 0126 - Thinner - mineral turpentine oil - Dilution %(by vol) - 7 to 9 brush/19 to 21 spray, Application viscosity (sec) - 35 to 40 brush/ 20 to 25 spray recoating period (hrs) - 8hrs				
	paints interior wall finish - luster(LF) 2nd Coat (Brush, Roller,Spray) - product code - 0126 - Thinner - mineral turpentine oil - Dilution %(by vol) - 7 to 9 brush/19 to 21 spray, Application viscosity (sec) - 35 to 40 brush/ 20 to 25 spray recoating period (hrs) - 8hrs				
	Technical Data				
	a) Coverage: on smooth primed masonry surface by brushing followed by rolling: 1coats: 20 - 24sq.mtr/ltr, 2coats: 10 - 14sq.mtr/ltr				
	b) Drying Time: Surface dry time - 2-3 hrs.				
	c) Gloss levels/sheen levels: 30-45 on glass plate at 60degree celcius - silky smooth finish				
	d) Flash Point - (IS 101/1987,part 1,sec 6): 35degree Celcius(95degree F)				
	e) Stability of thinned paint - use within 24hrs.				
	f) shelf - life: 3years from date of manufacture in original tightly closed containers away from direct sunlight and excessive heat.				
	Make: Jotun/Asian/Berger/Dulux				
	Precautions				
	a) kindly refer to the MSDS for paints interior wall finish - luster which gives detailed information on safety measures while handling the paint. b) Store the product at ambient condition in well ventilated locations and away from the source of ignition and fire. c) Avoid eye and skin contact. In case of eye and skin contact, wash with plenty of clean water d) do not inhale or inject. In case of inhalation move to fresh air seek medical attention if symptoms persist in both the cases. e) use protective equipment like rubber/ polythene gloves, safety goggles/ glasses, face mask while handling the paint - this is required for all paints. f) Do not apply when ambient temperature is less than 10degree celcius or if the temperature might drop to this level within 4hrs of application.g) Tinted paints need through shaking immediately after tinter addition as well as before use.				

	Post application instructions				
	for removing stains, sponge clean with a mild soap solution and wipe clean.Ensure a drying time of 1 week before cleaning.				
	a) 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 two coats wherever required to achieve even shade and colour.	SQM	10,800.00	121.00	1,306,800.00
	b) Texture paint: Preparing the earlier treated surface by scraping, rubbing with sand paper & applying one coat of approved make primer and 3 or more coats of approved colour and shade/pattern of Superior Quality Texture Paint to internal walls including necessary scaffolding etc. complete including applying required thickness of Birla Putty & POP Punning to bring wall in line & plumb. as per direction of Engineer In-charge/ Architect and as per manufacturer's specification complete.	SQM	150.00	700.00	105,000.00
	c) Preparing the earlier treated surface by scraping, rubbing with sand paper & applying one coat of approved make primer and preapring wall to recieve Panelling, fabric, venner etc including necessary scaffolding etc. complete including applying Birla Putty & POP Punning as per direction of Engineer In-charge/ Architect and as per manufacturer's specification complete.	SQM	100.00	120.00	12,000.00
	d) Preparing the surface by scraping rubbing with sand paper applying suitable putty to ensure smooth surface including applying one coat of primer and 2 or more coats of approved colour and shade of Synthetic Enamel Paint to doors / window frames and shutters, MS Railing / Grills etc. as per sample approved by the Engineer In-Charge/ Architect, including necessary scaffolding complete.	SQM	100.00	200.00	20,000.00
5	WALLPAPER (Basic Rate - Rs. 150/- persq.ft.)				
	Preparing the earlier treated surface by scraping, rubbing with sand paper & applying one coat of approved make primer and fixing approved wall paper to internal walls including necessary scaffolding etc. complete including applying Birla Putty & POP Punning as per direction of Engineer In-charge/ Architect and as per manufacturer's specification complete. Asian Paints(Nilaya collection)/Dedecor/Excel/Krshna Mehta)	SQM	200.00	2,000.00	400,000.00
6	Vinyl Work on Walls and Glass				
	Providing & Fixing of Vinyl Art Work on Walls & Glass as per design provided and directed by the Architect.	SQM	200.00	2,500.00	500,000.00
XVIII	MODULAR FURNITURE				
	(Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)				
1	L SHAPE WORKSTATION Size: 1500L x 1500 L x 600D x 750Ht mm Specifications Table Top: 25mm thick MDF with 2mm PVC edge lipping on all exposed edges Support: End Legs: MS powder coated Triangular Loop legs Intermediate Legs: MS powder coated 60X40mm collaborate Loop legs and supporting, Legs to be in rectangular Shape MS cross beams (40X20mm) Wire Management : MS Flipdown cable tray with 450mm Aluminium Flip Up Specifications : MS Powder Coated Horizontal raceway (Cable tray) with separator clips for power and data, Switch plate to mount the switches / sockets as per requirement. Vertical wire entry cover with removable metal cover between the intermediate legs for wire uptake to MS Cable Tray from floor and 450mm Aluminium, Flip Up for switch access. Screen: Full Fabric magnetic screen -450 HT Modesty Perforated metal 1.5 mm Th, (passage sides & Between Workstation)- metal perforated SQR or as per Architects Approvals Sample of workstation to be shown to client and Architect for approvals (Make: Featherlight/ Wipro/Space wood/Godrej)	Nos	303.00	18,000.00	5,454,000.00
2	Linear Workstation Straight legs same as above -1500L *750D *750H Specifications:				

	<p>Table Top: 25mm thick thick MDF board with 2mm, PVC edge lipping on all exposed edges</p> <p>Support:</p> <p>End Legs: MS powder coated Triangular Loop legs</p> <p>Intermediate Legs: MS power coated 60X40mm legs and supporting MS cross beams (40X20mm) Wire Management, MS Flip down cable tray with 450mm Aluminium Flip Up</p> <p>Specifications : MS Powder Coated Horizontal raceway (Cable tray) with separator clips for power and data, Switch plate to mount the switches / sockets as per requirement. Vertical wire entry cover with removable metal cover between the intermediate legs for wire uptake to MS Cable Tray from floor and 450mm Aluminium Flip Up for switch access.</p> <p>Screen: Full Fabric magnetic screen -450 HT</p> <p>Modesty Perforated metal 1.5 mm Th, (passage sides & Between Workstation)- metal perforated SQR or as per Architects Approvals</p> <p>Sample of workstation to be shown to client and Architect for approvals (Make: Featherlite/ Monarch/Space wood/Godrej)</p>	Nos	28.00	12000	336,000.00
3	<p>Hanging Laminate Board</p> <p>Size - 400Lx275ht</p> <p>(Make: Featherlight/ Monarch/Space wood/Godrej)</p>	Nos	80.00	600.00	48,000.00
4	<p>AL name plate</p> <p>(Make: Featherlite/ Monarch/Space wood/Godrej)</p>	Nos	80.00	205.00	16,400.00
5	<p>Providing & fixing Pen holder (Make: Featherlite/ Monarch/Space wood/Godrej)</p>	Nos	160.00	238.00	38,080.00
6	<p>MDF mobile pedestal - 2D+1F with Cylindrical lock</p> <p>Size : 450W X 450D X 600Ht</p> <p>Specifications:</p> <p>Top & Sides: 18mm Thk thick MDF</p> <p>Back: 9mm Thk thick MDF</p> <p>Edge: All exposed area with 2mm thick PVC edge lipping</p> <p>Handle: Finger groove handle</p> <p>Lock: Cam lock</p> <p>(Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)</p>	Nos	331.00	5,000.00	1,655,000.00
7	<p>AGM/CM CABIN TABLE</p> <p>SIZE - 1650L X 750D X 750H</p> <p>Specifications:</p> <p>Table top: 25mm thick thick MDF with 2mm pvc edge banding.</p> <p>Under-structure: Supported on powdercoated Die Legs with supporting beams.</p> <p>Modesty : Sq perforated metal modesty of 450mm Ht</p> <p>Wire management: 350mm Aluminium flipup with soft closure and provision to mount switches and sockets on MS cable dump of 175mm ht (Apple Adoptr) & Intermediate leg with wire entry cover considered.</p> <p>Composite storage - 1050X 450 D X 750MM HT-</p> <p>Specifications:</p> <p>Table Top: 18mm Thk pre laminated particle board</p> <p>Back: 9mm Thk pre laminated particle board with 2mm PVC edge lipping</p> <p>Shutters: 18mm Thk pre laminated particle board</p> <p>Edge: All exposed area with 2mm thick PVC edge lipping</p> <p>Handle: Finger groove handle</p> <p>Lock: Cam lock Screen: Full Fabric Side screen -600 HT</p> <p>Sample of workstation to be shown to client and Architect for approvals (Make: Featherlight/ Wipro/Space wood/Godrej)</p>	Nos	133.00	35,000.00	4,655,000.00
8	<p>DGM CABIN TABLE</p> <p>SIZE - 2400L X 750D X 750H</p> <p>Back Composite Storage - 2400L X 450D X 750HT</p> <p>Specifications</p> <p>Table Top: 25mm thick MDF board with 2mm PVC edge lipping on all exposed edges(Straight/Reverse waterfall edge)</p> <p>Support:</p> <p>End Legs : Powder coated Al die casted Enrich legs</p> <p>Modesty Panel: 18mm thk pre lam board with 2mm PVC edge lipping of 450mm Ht.</p> <p>Wire Management: 450mm Aluminium Flip Up and provision to mount swiches and sockets on PVC cable dump and Vertical wire entry cover or vertebra for wire uptake from floor to cable dump</p> <p>(Make: Featherlite/ Wipro/Space wood/Godrej)</p>	Nos	16.00	42,000.00	672,000.00

9	MEETING TABLE SIZE- 2250L X 1200D X 750HT Specification: Table top: 25mm thick MDF norms finished with 2mm PVC edge banding. Under-structure: Supported on powder coated AL Die casted Enrich Leg & supporting MS beams. Wire management: 450mm Aluminium flipup with soft closure and provision to mount switches and sockets on MS tray & Intermediate leg with wire entry cover considered. (Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)	Nos	10.00	35,000.00	350,000.00
10	VC / Meeting Room TABLE T1 SIZE- 3950L X 1200D X 750HT (In two parts) Specification: Table top: 25mm thick MDF E1 norms finished with 2mm pvc edge banding. Under-structure: Supported on powder coated AL Die casted Enrich Leg & supporting MS beams. Wire management: 450mm Aluminium flipup with soft closure and provision to mount switches and sockets on MS tray & Intermediate leg with wire entry cover considered. (Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)	Nos	3.00	52,000.00	156,000.00
11	VC / Meeting Room TABLE T2 SIZE- 4650L X 1200D X 750HT (In two parts) Specification: Table top: 25mm thick MDF E1 norms finished with 2mm pvc edge banding. Under-structure: Supported on powder coated AL Die casted Enrich Leg & supporting MS beams. Wire management: 450mm Aluminium flipup with soft closure and provision to mount switches and sockets on MS tray & Intermediate leg with wire entry cover considered. (Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)	Nos	1.00	55,000.00	55,000.00
12	Meeting Room & Staff Area Modular Storages : Providing & fixing Modular Storage to be made in 18mm, 8mm thk MDF Board E1 norms (as per Architect's shade, design & make) The storage to have all shelves, shutters & drawers if any to be finish laminate with complete Hardware as per plan. As Per Size & Drawings (Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)	SM	196.56	9,100.00	1,788,696.00
13	Modular Partition : Providing & Fixing of Modular Partition with 25mm thk MDF Board of 55-60mm thickness; Height of Partition-1200 mm; finished with Acoustic Fabric Panels (NRC level of panel is 0.85) finished with powder coated Aluminium Profiles;All Posts viz., 02 way, 03 way, 04 way & 120 deg are also uniquely designed extruded aluminium profiles;from 6063 grade alum alloy, conforming to DIN ISO - 2768-1, comes with aluminium diecast caps to cover;The product can be configured in several shapes and sizes by joining acoustic panels using uniquely designed strong joineries; high pressure die cast connectors of ADC-12 alloy and Nylon injection moulded parts. (Make: Featherlite/ Wipro/Space wood/Godrej/Monarch)	SM	485.86	5,600.00	2,720,793.60
D MISCELLANEOUS WORKS					
XIX MISCELLANEOUS GRAPHICS, SIGNAGE & ROLLER BLINDS					
1 GRAPHICS & SIGNAGES					
1	WAYFINDING SIGNAGE-100x200mm H Providing and fixing Pictogram signage made of 2mm thick Stainless Steel 316 grade (in combination of Black and Bronze finish) as per approved design, images/ letters with silk screen printing technology over doors, walls fixed with 3M double sided tape as per details and approval. Edge of the disc to be made smooth by polishing. Over all size: 100x200mm H.	Nos.	16.00	450.00	7,200.00
2	PICTOGRAMS (Door Signage)-150x200mm H Providing and fixing Pictogram signage made of 2mm thick Stainless Steel 316 grade (in combination of Black and Bronze finish) as per approved design, images/ letters with silk screen printing technology over doors, walls fixed with 3M double sided tape as per details and approval. Edge of the disc to be made smooth by polishing. Over all size of pictogram to be 150x200mm H.	Nos.	16.00	350.00	5,600.00
3	SS Push / Pull Set Providing and fixing Stainless Steel (304 grade) signage on glass doors with letters with silk screen printing technology fixed with 3M double sided tape as per design, shade and sample approved. Size:	Nos.	100.00	70.00	7,000.00

4	ROOM NAMING SIGNAGE Providing & fixing wall/door mounted room naming signage made of approved shade PVD coated Aluminum channel for sliding of printed paper back, Transparent acrylic sheet and changable Printed paper backing as per details and sample approval by Architect. The plate to be fixed to the doors with the help of 3M VHP tape. Over all size: 300 L x 200mm W	Nos.	128.00	350.00	44,800.00
5	LED Fire Exit Light Signage Providing and fixing Recessed Mounted 3 Watts LED Ni Cd Battery backup up to 3 hrs Exit light signage . Prolite /Teknoware or equivalent make . The sample shall be submitted before ordering.	Nos.	16.00	2,500.00	40,000.00
XX WINDOW BLINDS & GLASS FILM					
1	Providing and fixing in position 100 mm slim lined Roller Blinds of appd make including powder coated aluminium top rail & bottom rail etc. complete in all respects as per the drawing and directions .Headrail will be of 25mm high x 50mm extruded high strength Aluminium alloy section with wall thickness of 1.2mm. The section will be anodised for smooth & corrosion resistant finish & to have provision of fabric valance matching with louvers fabric. It will have rails on sides to further strengthen the section.Tilter chain will be made of 4.5mm plastic beads moulded on 2.2mm thick polyester cord. The pitch of the beads will be 6mm. The chain drives the sprocket fixed in the end control unit to rotate the louvers by 180 degrees. The pitch of the chain corresponds to the sprocket in perfect match for trouble free operation. It will be provided in light grey/beige/white colour, in nearest matching shade of blind as approved by the Architect.(Make: Vista/Marvel/Pristine)	Sqm	950.00	1,225.00	1,163,750.00
2	Providing and fixing Frosted film of approved make on Glass Partition in pattern as per drawings as per manufacturer's specifications etc. complete.(Make: 3M/Vista)	Sqm	300.00	1,350.00	405,000.00
XXI ARTIFACS & PLANTERS					
1	Supplying & fixing Artifacts , as per the direction of the Architect/Bank.The item has been considered in lumpsum basis. Providing of approved color and design Arificial Plants for planter boxes Approximately 80 pieces of various sizes as per Manufacturer's specification & size. Approx Size: 700mm to 1000mm height	Nos.	80.00	4,375.00	350,000.00
2	Supplying & fixing Planters with natural indoor plants, as per the direction of the Architect/Bank.The item has been considered in lumpsum basis. Providing of indoor planters box of FRP Material with stone or texture finish from outside, color and texture as approve by client Approx Sizes : 600 to 750 dia and 900 to 1200mm Height of Planter Boxes	Nos.	100.00	1,500.00	150,000.00
3	Supplying & designing Artificial Green wall at the selected places/walls as per the direction of the Architect/Bank. Green Wall: Providing and installing of Green wall at different location with approved color and design artificial plants in vertical position of wall.	SQM	100.00	2,520.00	252,000.00

E	ELECTRICAL WORKS				
XXII	EXTERNAL ELECTRICAL WORKS				
1.0	LT PANEL BOARDS - (Low Voltage Switchgear)				
	Supply, installation, testing and commissioning of 3Phase, 415Volts, 50HZ, Low voltage switchgears, free standing, extensible type LT Pane Boards panel as per specifications , comprising of Air circuit breaker, MCCB, MCB, horizontal and vertical aluminium bus bars, earth bus bar, flush type hinged door with square gaskets complete single line diagram.				
	The fabrication shall be madeup of CRCA sheet with thickness of 2.5mm frame, 2.0mm front door with components, 1.6mm all other partition.The panel shall be dust free ,vermin proof and totally enclosed with the degree of protection -(IP54) and panel shall be as per IS-2147.Indoor compartmentilized and 3B cubical type.				
	The surface shall be rigorously treated for derusting in 9 tank process with dephosphating and painting with at least 2 coats of Epoxy Powder Coated. The panel shall be totally metal clad type with double gasketing with rubber / resin lining enclosed.				
	The panel shall be off white painted inside and shall be having control directory pasted inside the panel. The panel shall be mounted on trench and shall have cable entry provision from the top /bottom with suitable alley as the case may be. The panel shall be tested for the same KA rating of the relevant highest rating ACB / MCCB.				

	All components shall have relevant IS/IEC approvals, CPRI Tested panels without fail. (Fabrication, general arrangement drawing and list of components and panel detail shall be got approved by consultants/Architect before fabrication).				
	The panel shall be fully interlocked as required and the panel shall include MS baseframe channel support of 75x40x6mm thick and size may vary panel to panel. (The Single Line Diagram may be closely be followed). The horizontal and vertical busbar should be same size and 0.8Amps / Sq.mm				
	The Panel Colour shall be RAL-7032/7035 and hard Copy of the of the Panel Drawing to be attached inside the Panel.				
	NOTE: PANEL DETAILS APPLICABLE AS PER NEEDS FOR THE REQUIRED.				
1.1	MAIN LT PANEL [2 x 1600A EB ACB + 1x1600A BC + 2 x630A DG ACB] at LT Panel Room	Set	1.00	3,565,000.00	3,565,000.00
	EB INCOMER: 2 No. 1600Amps, 4Pole, 50KA, Electrical draw out type Air Circuit Breaker (ACB) complete with microprocessor based OL, SC, UV, ST & earth fault releases. ICU=ICS=ICW=50KA for 1 Sec. TPN:1600A AL BUS BAR of 50kA for 1Sec. EB METERING: 1 Set of RYB Phase indication LED lamps 1 set of Breaker ON, Breaker OFF, Breaker Trip Indication lamps 1 No. Digital type Demand Controller with Multi Function Meter with RS485 port 1 Set of CT of ratio for metering and 1 CTs for Protection relays 1 No. CT for APFCR Panel sensing 1 No. CDG-11 Earth fault relay 1 Set of Control MCBs				
	DG- INCOMER: 2 No. 630 Amps, 4Pole, 50KA, Electrical draw out type Air Circuit Breaker (ACB) complete with microprocessor based OL, SC, UV, ST & earth fault releases. ICU=ICS=ICW=50KA for 1 Sec. Shunt trip coil 220/110V AC required. TPN:1250A AL BUS BAR of 50kA. DG-1 METERING: 1 Set of RYB Phase indication LED lamps 1 set of Breaker ON, Breaker OFF, Breaker Trip Indication lamps 1 No. Digital type Multi Function Meter with RS485 port 1 Set of CT of ratio for metering 1 Set of Control MCBs 1 Set of Electro Mech Interlocking scheme between EB Incomer & DG - 1 Incomer for Automatic Switching				
	BUS COUPLER: 1600A ACB 4Pole, 50KA, Electrical draw out type Air Circuit Breaker (ACB) complete with microprocessor based OL, SC, UV, ST & earth fault releases 1 Set of RYB Phase indication LED lamps 1 set of Breaker ON, Breaker OFF, Breaker Trip Indication lamps 1 No. Digital type Multi Function Meter with RS485 port 1 Set of CT of ratio for metering 1 Set of Control MCBs				
	BUS BAR: 1600 A TPN AL BUSBAR				
	OUTGOINGS:BUS SECTION-1 1 Nos. 1250 Amps, 50KA, ACB(uP Based) OC and SC releases 1 No. 800 Amps, 50KA, TP+N MCCB(uP Based) OC and SC releases with extended RHOM + spreaders 3 Nos. 400Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders 2 Nos. 630Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders 1 Nos. 100Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders .with 100A power Contactor arrangement for EB/DG interlock 1 Nos. 125Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders All the above outgoing feeders should be provided with Dual source MEM and ON/OFF LED indication lamps.				
	OUTGOINGS:BUS SECTION-2 1 Nos. 1250 Amps, 50KA, ACB(uP Based) OC and SC releases 1 No. 800 Amps, 50KA, TP+N MCCB(uP Based) OC and SC releases with extended RHOM + spreaders 3 Nos. 400Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders 2 Nos. 630Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders 2 Nos. 125 Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders 2Nos. 100 Amps, 50KA, TP+N MCCB (TM Based) OC and SC releases with extended RHOM + spreaders. All the above outgoing feeders should be provided with Dual source MFM and ON/OFF LED indication lamps.				
1.2	APFC PANEL (325kVAR) - 1 & 2 at LT Panel Room	Nos	2.00	880,248.00	1,760,496.00

	SITC of 3Phase, 415Volts, 50HZ Cubicle type floor mounting 325 KVAR APFCR Panel Board with 1 x 800 Amps, 50KA, TP+N MCCB as Incomer feeder, 800Amps, TPN Aluminium busbars, Capacitor shall be APP type super heavy Duty type, 7% Detuned reactors, Capacitor duty contactors, ON-OFF Push buttons, A/M Selector switch, 10Stage APFCR Relay, Control MCBs, internal control wirings, etc., with suitable rating MCCBs for outgoing feeders, Metering compartments, interconnections, earthing, etc. (1X100kVAR+2 x 50kVAR+ 3x25kVAR+2x15kVAR+2x10kVAR)				
	CAPACITOR OG-1				
	i) 250 amps TP MCCB - 1 Set				
	ii) 250 amps Contactor. - 1 Set				
	iii) "ON" /"OFF" push buttons and indicating lamps. - 1 Set				
	iv) 100 KVAR, 480/525 volts capacitor unit with detune filters as specified - 1 No.				
	CAPACITOR OG-2				
	i) 125 amps TP MCCB - 2 Set				
	ii) 125 amps Contactor. - 2 Set				
	iii) "ON" /"OFF" push buttons and indicating lamps. - 2 Set				
	iv) 50 KVAR, 480/525 volts capacitor unit with detune filters as specified - 2 No.				
	CAPACITOR OG-3				
	i) 63 amps TP MCCB -3 Set				
	ii) 63 amps Contactor. - 3 Set				
	iii) "ON" /"OFF" push buttons and indicating lamps. - 3 Set				
	iv) 25 KVAR, 480/525 volts capacitor unit with detune filters as specified - 3 No.				
	CAPACITOR OG-4 (+SPARE -2 NOS-SPACE PROVISION)				
	i) 40 amps TP MCCB -4 Set				
	ii) 40 amps Contactor. - 4 Set				
	iii) "ON" /"OFF" push buttons and indicating lamps. - 4 Set				
	iv) 15 KVAR, 480/525 volts capacitor unit with detune filters as specified - 2 No.				
	CAPACITOR OG-5				
	i) 25amps TP MCCB -2Set				
	ii) 25 amps Contactor. - 2 Set				
	iii) "ON" /"OFF" push buttons and indicating lamps. - 2Set				
	iv) 10 KVAR, 480/525 volts capacitor unit with detune filters as specified - 2 No.				
	Note:				
	All MCCB's upto 250A shall be of 25 KA breaking capacity. LED indication for number of capacitor banks 'ON'. LED indication of Power Factor lagging or leading. The panel shall be provided with required nos. of loovers in the capacitor Chambers for its cooling. Also required nos. of ventilation Fans with auto sensing thermostat to be provided in the panel to improve the capacitor life. Capacitor automatic control arrangement (325 KVAR) as described above.				
1.3	UTILITY PANEL : At LT Panel Room	No	1.00	712,453.00	712,453.00
	SITC of Cubicle floor mounting type utility Panel comprises as above with 400Amps, rating TPN Aluminium busbars 50 kA for 1 Sec INCOMER-1 NOS: 1 No. 400Amps, FP ATS 1 No.400 Amps, 50KA, TP+N MCCB(TM Based) OC and SC releases with extended RHOM + spreaders METERING: 1 Set of RYB Phase indication LED lamps 1 No. Digital type Multi Function Meter (MFM) with RS485 port 1 Set of CTs for metering 1 Set of Control MCBs OUTGOINGS: 10 Nos.63 Amps, 25KA, TP+N MCCB OC and SC releases with extended RHOM + spreaders. 4 No. 100Amps, 25KA, TP+N MCCB OC and SC releases with extended RHOM + spreaders. 3 Nos. 125Amps, 25KA, TP+N MCCB OC and SC releases with extended RHOM + spreaders.. 3 Nos.63 Amps, 10KA, FP MCB and 4 nos. 32A ER 10KA MCB All the above outgoing feeders should be provided with MFM and ON/OFF LED indication lamps				
1.4	HVAC PANEL : AT BASEMENT	No	1.00	1,690,105.00	1,690,105.00

	Panel Comprises details as abov.SITC Cubicle floor mounting type HVAC Power Panel Details as follows: INCOMER:2 NOS. 1250A FP ACB+1 NO.S 1250A ACB AS BUS COUPLER. 2 No. 1250 Amps, 4P EDO TYPE ACB with Microprocessor Based Release (LSING+ Current Metering + 20 Trip History) can be upgardred for power metering & communication .ICU=ICS=ICW=50KA for 1 Sec. TPN:1250A AL BUS BAR of 50kA. BUS COUPLER:1 NOS 1250A FP ACB				
	METERING:2 SETS 1 Set of RYB Phase indication LED lamps. 1 Set of Trip, ON , OFF indicating LED Lamp. 1 No. Digital type Multi Function Meter (MFM) with RS485 port 1 Set of CTs for metering 1 Set of Control MCBs.				
	OUTGOINGS: BUS SECTION-1+2 • 2 No. 630 Amps,50KA, TP+N MCCB thermal magnetic based OL and SC releases with extended RHOM + spreaders + ammeter + ON/OFF LED indicators • 6 No. 100 Amps, 25KA, TP+N MCCB thermal magnetic based OL and SC releases with extended RHOM + spreaders+ Digital ammeter + ON/OFF LED indicators •14 Nos. 63Amps, 25KA, TP+N MCCB thermal magnetic based OL and SC releases with extended RHOM + spreaders+ Digital ammeter + ON/OFF LED indicators. Out of the total 22 outgoing feeders, 15 Nos. selected feeders for pump & CT motors shall be provided alongwith Control Contactor (2NO + 2 NC) & 63 Amp Power Contactor, Control MCB of appropriate rating, Single phase preventor, ON/OFF LED indicators, local /remote selection switch, start stop button etc. as required as per site requirement.				
1.5	DG DIST. PANEL: Panel Comprises details as abov.SITC Cubicle floor mounting type HVAC Power Panel Details as follows: INCOMER:1 NOS. 800A FP ACB 1No. 800 Amps, 4P EDO TYPE ACB with Microprocessor Based Release (LSING+ Current Metering + 20 Trip History) can be upgardred for power metering & communication .ICU=ICS=ICW=50KA for 1 Sec. TPN:1250A AL BUS BAR of 50kA for 1 Sec. METERING:1 SETS 1 Set of RYB Phase indication LED lamps. 1 Set of Trip, ON , OFF indicating LED Lamp. 1 No. Digital type Multi Function Meter (MFM) with RS485 port 1 Set of CTs for metering 1 Set of Control MCBs. OUTGOINGS: 3 No. 630 Amps,50KA, TP+N MCCB TM based OL and SC releases with extended RHOM + spreaders 1 No. 400Amps, 55KA, TP+N MCCB TM based OL and SC releases with extended RHOM + spreaders.	No	1.00	650,000.00	650,000.00
1.6	HVAC CENTRAL CONTROL DESK: Design, Fabrication, supply, installation, testing and commissioning of cubicle type floor mounted power cum control panel board having following arrangement : • Start & Stop Push button, with ON/OFF LED indications to be provided for 17 Nos. of AHUs. • Start & Stop Push button, with ON/OFF LED indications for 4 Nos. of Cooling tower motor. • Start & Stop Push button, Local Remote selection switch with ON/OFF LED indications for 5 Nos. of CDS pump. • Start & Stop Push button, Local Remote selection switch with ON/OFF LED indications for 5 Nos. of CHW pump. with all other accessories & wiring as required complete set. as per Bank satisfactaion	No	1.00	350,000.00	350,000.00
1.7	FIRE ATS PANEL : Fabrication, supply, installation, testing and commissioning of cubicle type floor mounted power ATS panel for Fire panel feeder .with on off trip indication lamps ,MFM meter with 1 Nos 400A FP ATS and 400A FP MCCB as outgoing with all other accessories & wiring as required complete set.	Nos	1.00	252,628.00	252,628.00
2.0	RISING MAINS:				

	Design, Supply, installation by suspension on ceiling, testing and commissioning of following capacity Sandwich Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every metre, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required				
	Approved Make: C&S/ SCHNEIDER /LEGRAND/ABB/L&T				
	(1 Working + 1 Standby) Power and UPS Power RM				
2.1	400Amps, Sandwich indoor type Rising Mains - 1 & 2 (FOR UPS POWER RISING MAIN) 25kA SC for 1 sec	Mtr	48.00	13,710.71	658,114.29
2.2	End Cover for 400Amps RM-1& 2	Nos	2.00	1,100.00	2,200.00
2.3	630Amps, Sandwich indoor type Rising Mains - 1 & 2 (RAW Power) 50KA for 1 Sec	Mtr	48.00	17,152.68	823,328.57
2.4	End Cover for 630Amps RM-1 & 2	Nos	2.00	1,100.00	2,200.00
2.5	TAP-OFF BOXES AND ATS:GF to 6F				
	Supplying, installation, testing & commissioning of following capacity Tap-off boxes on the Rising mains for use on 3phase 4wire 415Volts, 50Hz AC supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with MCCB/MCB complete etc.,				
	Approved Make: C&S/ SCHNEIDER /LEGRAND/ABB/L&T				
2.5.1	100Amps TPN MCCB for UPS POWER 25kA SC for 1 sec	Nos	12.00	18,450.00	221,400.00
2.5.2	125Amps TPN MCCB for FOR UPS+RAW POWER 25kA SC for 1 sec	Nos	18.00	22,500.00	405,000.00
2.5.3	100A, 4P, ATS with enclosure. For Floor (UPS)	Nos.	6.00	85,000.00	510,000.00
2.5.4	125A, 4P, ATS with enclosure.floor(RAW-7+UPS-1)	Nos.	8.00	124,600.00	996,800.00
2.6	END FEED UNIT + UPS I/C AND O/G MCCB:				
	Supplying, installation, testing & commissioning of following capacity of End Feed Unit for the Rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with suitable rating MCCB complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required. Incomer for RM-1 to 4				
	Approved Make (MCCB):L & T (D-Sine) / ABB (Formula) / SCHNEIDER (NSX) /SIEMENS (3VA) /LEGRAND (DPX3)				
2.6.1	630A, 4Pole, 50KA, microprocessor based MCCBs with MFM and RYB LED Lamps	Nos	2.00	135,000.00	270,000.00
2.6.2	400A, 4Pole, 25KA, microprocessor based MCCBs with MFM and RYB LED Lamps	Nos	2.00	122,400.00	244,800.00
2.6.3	400A, 4Pole, 25KA, T/M MCCBs with MFM and RYB LED Lamps in IP 54 Enclosure for UPS I/C and O/G	Nos	4.00	65,000.00	260,000.00
	Low voltage Aluminium conductor cables				
3	Supply and laying of 1100Volts grade, XLPE insulated Aluminium conductor, armoured power cable as per specifications. The cable shall be laid in indoor existing trenches / cable trays/duct/wall as required. The cable shall be clamped at regular intervals to the supports in trench or to MS cable trays or brick wall using MS clamps and fasteners. (Excluding cable trench works)				
	Approved Make : KEI / POLYCAB / RR CABLE / HAVELLS/FINOLEX/NICCO/UNIVERSAL/CCI				
	Note: All armoured Cable shall be provided with metal identified tags showing the sizes and from/to the respective db or panels both ends.				
3.1	3.5C x 300 Sq.mm Aluminium Cable	Mtr	660.00	2,146.33	1,416,576.48
3.2	3.5C x 240 Sq.mm Aluminium Cable	Mtr	550.00	1,778.84	978,362.00
3.3	3.5C x 185 Sq.mm Aluminium Cable	Mtr	40.00	1,384.50	55,380.16
3.4	3.5C x 50 Sq.mm Aluminium Cable	Mtr	70.00	456.36	31,945.20
3.5	3.5C x 35 Sq.mm Aluminium Cable	Mtr	50.00	374.00	18,700.00
3.6	4C x 25 Sq.mm Aluminium Cable	Mtr	800.00	350.00	280,000.00
3.7	4C x 16 Sq.mm Aluminium Cable	Mtr	700.00	309.00	216,300.00
	Low voltage Copper conductor cables				
4	Supply and laying of 1100 V grade, (XLPE/SWA/PVC) PVC insulated copper conductor, armoured power cable as per specifications. The cable shall be laid in indoor trenches / cable trays as required. (Excluding cable trench works)				
	Approved Make :KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX				
4.1	4C x 6 Sq.mm Copper Cable	Mtrs	200.00	495.80	99,160.00
4.2	3C x 6 Sq.mm Copper Cable	Mtrs	300.00	398.36	119,508.00
	Low voltage cable end terminations:				
5	Supply and providing LV cable end termination for below listed cable with double compression brass type glands, tapping, crimping type aluminium / copper lugs, etc., as required.				
	Approved Make : DOWELLS / JAISON/ COMET / BRACO				
5.1	3.5C x 300 Sq.mm Aluminium Cable	Nos	30.00	1,066.96	32,008.93

5.2	3.5C x 240 Sq.mm Aluminium Cable	Nos	24.00	916.96	22,007.14
5.3	3.5C x 185 Sq.mm Aluminium Cable	Nos	2.00	781.25	1,562.50
5.4	3.5C x 50 Sq.mm Aluminium Cable	Nos	2.00	368.75	737.50
5.5	3.5C x 35 Sq.mm Aluminium Cable	Nos	10.00	329.46	3,294.64
5.6	4C x 25 Sq.mm Aluminium Cable	Nos	32.00	281.25	9,000.00
5.7	4C x 16 Sq.mm Aluminium Cable	Nos	20.00	275.89	5,517.86
5.8	4C x 6 Sq.mm Copper Cable	Nos	4.00	240.18	960.71
5.10	3C x 6 Sq.mm Copper Cable	Nos	14.00	229.46	3,212.50
6.0	Cable Trays - GI Ladder / Perforated				
	Supplying and installing following size of perforated HotDipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
	Approved Make : NIEDEX / PROFAB / JKR / CLASSIC / SHRUTI / PATNY				
6.1	GI Ladder Type				
	a) 750 mm width X 62.5 mm depth X 2.0 mm thickness	Mtr	60.00	2,015.18	120,910.71
	b) 600 mm width X 62.5 mm depth X 2.0 mm thickness	Mtr	60.00	1,704.46	102,267.86
	c) 450 mm width X 62.5 mm depth X 2.0 mm thickness	Mtr	100.00	1,405.36	140,535.71
	d) 300 mm width X 62.5 mm depth X 2.0 mm thickness	Mtr	120.00	1,062.50	127,500.00
	e) 150 mm width X 50 mm depth X 1.6 mm thickness	Mtr	80.00	639.29	51,142.86
6.2	Bends				
	Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
	a) 750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	10.00	4,319.64	43,196.43
	b) 600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	10.00	3,332.14	33,321.43
	c) 450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	10.00	2,900.00	29,000.00
	d) 300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	15.00	2,132.14	31,982.14
	e) 150 mm width X 50 mm depth X 1.6 mm thickness	Each	10.00	1,133.93	11,339.29
6.3	Reducer				
	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				
	a) 750 mm width X 62.5 mm depth X 2.0 mm thickness	Each	6.00	5,789.29	34,735.71
	b) 600 mm width X 62.5 mm depth X 2.0 mm thickness	Each	8.00	5,318.75	42,550.00
	c) 450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	4.00	4,215.18	16,860.71
	d) 300 mm width X 62.5 mm depth X 2.0 mm thickness	Each	5.00	3,026.79	15,133.93
	e) 150 mm width X 50 mm depth X 1.6 mm thickness	Each	4.00	1,587.50	6,350.00
6.4	Supplying and installing 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 M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	GI Perforated Type (1.6mm Thickness)				
	a) 300mm Width X 50mm Height	Mtr	80.00	647.50	51,800.00
	b) 150mm Width X 50mm Height	Mtr	80.00	539.29	43,142.86
	c) 100mm Width X 50mm Height	Mtr	100.00	484.82	48,482.14
6.5	Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	a) 300mm Width X 50mm Height	Each	10.00	1,283.93	12,839.29
	b) 150mm Width X 50mm Height	Each	15.00	908.93	13,633.93
	c) 100mm Width X 50mm Height	Each	10.00	775.00	7,750.00
6.6	Supplying and installing following size of perforated painted with powder coating M.S. cable trays Reducer with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	a) 300mm Width X 50mm Height	Each	10.00	1,533.93	15,339.29
	b) 150mm Width X 50mm Height	Each	15.00	1,058.93	15,883.93
	c) 100mm Width X 50mm Height	Each	10.00	895.54	8,955.36
7.0	EARTHING SYSTEM				
	Note : Earth pits: Main electrical contractor has to confirm earth resistivity value before commissioning any electrical equipment. If the earth resistance value is less than 10hm at equipotentail bonding terminal earth pits are not required. If the resistance value records more than 10hm then earth pits to be introduced to get the desired ohm as per IS3043 (Makes : Ashlok, Indec, Doksun, LPI)				

7.1	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Nos.	18.00	6,671.43	120,085.71
7.2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Nos	2.00	12,355.36	24,710.71
8	GI STRIPS				
	Supply and laying of below listed sizes of electrolytic copper / GI earth conductor tapes / wires and laid along with cable or clamped to brick wall, etc., as required.				
8.1	6 SWG G I wire	Mtr	450.00	70.00	31,500.00
8.2	25 x 5 mm GI Flat	Mtr	500.00	217.86	108,928.57
8.3	50 x 6 mm GI Flat	Mtr	300.00	350.00	105,000.00
8.4	300mm Long Earth bus using 25x5 mm GI Flat with Insulator	Nos	14.00	310.00	4,340.00
9.0	MCCB/MCB Distribution boards				
9.1	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB company fabricated distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	Approved Make (MCCB):L & T (D-Sine) / ABB (Formula) / SCHNEIDER (NSX) /SIEMENS (3VA) /LEGRAND (DPX3) Approved Make (DB) : LEGRAND (Ekinoxe) / L & T (AU) / ABB (Itus)/Siemens- Betaguard/Schneider- Acti9 Approved Make (MCB) :LEGRAND / L & T / ABB /Siemens/Schneider/Hager				
	a) 8Way VTPN MCCB DB -Emergency Main PDB at ground floor Incomer - 1 x 125A, 4Pole 25KA MCCB Thermal Magnetic type Outgoing - 5 x 63A, TP, MCBs, 3 Nos. 40A, TP MCBs	Nos	1.00	32,750.00	32,750.00
	b) 4Way VTPN MCCB DB -Emergency Main PDB from 1st FL to 6th floor Incomer - 1 x 100A, 4Pole 25KA MCCB Thermal Magnetic type Outgoing - 3 x 63A, TP, MCBs, 1 Nos. 40A, TP MCBs	Nos	6.00	24,520.00	147,120.00
	c) 6Way VTPN MCCB DB - Main EM LIGHTTING DB Incomer - 1 x 63A, 4Pole 10KA MCB Outgoing - 18 x 25A, SP, MCBs	Nos	1.00	24,520.00	24,520.00
	d) 8Way VTPN MCCB DB -PDB from 1st FL to 6th floor Incomer - 1 x 100A, 4Pole 25KA MCCB Thermal Magnetic type Outgoing - 3 x 63A, TP, MCBs, 5 Nos. 40A, TP MCBs	Nos	7.00	30,250.00	211,750.00
9.2	Supply, erection, testing and Commissioning of 12-way, SPN, Double Door, Metal type, powder painted company fabricated Distribution Board surface / flush mounted, complete with tinned copper bus bar, neutral busbar and earth busbar, din bar, interconnected wiring complete with earthing lugs, including DB wiring, dressing with ferruling, termination of circuits with ping type copper lugs, blank plates & making good to the damages caused etc. housing following switchgears :				
	12Way SPN DB - Floor LDB Incomer - 1 x 25A, 30mA, 2Pole, RCCB Outgoings - 6/10A, SP, MCBs - 10 Nos	Nos	4.00	5,720.00	22,880.00
9.3	Supply and installation of concealed 63Amps, 4P MCB with mounted in a prefabricated power coated FP metal enclosure surface / flush mounted and complete to the satisfaction of the client as per requirement	Nos	2.00	5,500.00	11,000.00
9.4	Supply and installation of concealed 32Amps, 2P MCB with mounted in a prefabricated power coated DP metal enclosure surface / flush mounted and complete to the satisfaction of the client as per requirement	Nos	2.00	1,200.00	2,400.00
9.5	Supply and installation of 63Amps, 4P MCCB of 25KA T/M release, with o/l,sc protection and with Operating handle in a prefabricated power coated metal Enclosure and to be surface / flush mounted or as required at site.	Nos	2.00	12,000.00	24,000.00
9.6	Supply and installation of 125Amps, 4P MCCB of 25KA T/M release, with o/l,sc protection and with Operating handle in a prefabricated power coated metal Enclosure and to be surface / flush mounted or as required at site.	Nos	2.00	15,600.00	31,200.00
10	LIGHT FIXTURES / FANS:				

10.1	Supply, Installation, Testing and Commissioning of LED 4ft Aluminium Batten with a nominal system lumen output of 2000 lumens and a minimum system efficacy of 120 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 rating with THD < 10% and PF > 0.95. The luminaire housing should be made of CRCA with a PC UV shielding diffuser. The total power consumption should not exceed 24W (including driver). Driver should be constant current driver and with O/L,O/V protection. Vendor should provide separate BIS certifications for luminaire and Driver Separately.	Nos	20.00	729.00	14,580.00
	Approved make :PHILIPS / HAVELLS / WIPRO/CROMPTON/BAJAJ				
10.2	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Nos	4.00	3,626.00	14,504.00
	Make: ALMONARD / HAVELLS / CROMPTON / ORIENT/BAJAJ/ATOMBERG				
10.3	Supply, fitting, Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter: 300mm dia metal body exhaust fan with louvers.	Nos	6.00	2,800.00	16,800.00
11.0	Circuit Mains and Power Wiring :				
	Supply and drawing of 1100V grade, multi strand FRLS insulated copper conductor wire. drawn in 20/25mm dia MS conduit pipes in open conduit system with necessary conduit and fixing accessories like bends, collars, junction boxes, clamps, spacers, etc., wiring shall be as per specifications. The cost is inclusive of MS Conduit with all accessories				
	PVC CONDUIT (FR Grade, ISI Mark) : PRECISION / AKG/BEC/AVON PLAST/GM/CLIPSAL PVC FRLS COPPER WIRES :KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX				
11.1	2 Runs of 2.5 sq.mm multi strand FRLS insulated copper conductor wires in 25mm dia MS conduit with all accessories along with 1 Run of 2.5 sq.mm multi strand FRLS insulated copper earth wire. (Circuit Mains / 6A Socket wiring)	Mtr	200.00	245.54	49,107.14
11.2	2 Runs of 4.0 sq.mm multi strand FRLS insulated copper conductor wires in 25mm dia MS conduit with all accessories along with 1 Run of 4.0 sq.mm multi strand FRLS insulated copper earth wire. (For 16A Socket & Incl. Sockets)	Mtr	200.00	298.21	59,642.86
11.3	2 Runs of 1.5 sq.mm multi strand FRLS insulated copper conductor wires in 20/25mm dia MS conduit with all accessories along with 1 Run of 1.5 sq.mm multi strand FRLS insulated copper earth wire.	Mtr	100.00	208.04	20,803.57
13.0	Arrangement of temporary Power Supply for the Whole building when dismantling of main Power Distribution panels with all good connection and any necessary action to be taken for power up the building. Using the existing building cables as required.	lot	1.00	350,000.00	350,000.00
14.0	Supply and installation of concealed/ recessed/surface light point/fan point wiring using 2x2.5+1x1.5 sqmm (DB to switch board and switch board to switch board) and 3x1.5 sqmm (from switch board to point) with 1100V grade FRLS PVC insulated copper wire with proper RYB colour code pulled through MS conduit laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling. The wiring shall be complete with all conduit and wiring accessories like dip JB box, modular plate, T's bends, elbows, MS boxes GI pull wires clamps spacers, Screws, Ceiling Rose, angle Bulb Holder wherever required etc. The rate shall include providing 6A modular type switch, mounting boxes. The switch boxes are to be fixed at wall and are also flush mounted. The scope includes all the civils works etc.	Point	20.00	1,309.82	26,196.43
	LEGRAND (Myrius) / ABB (IVIE)/ SCHNEIDER (ZENCELO)/WIPRO-NORTHWEST – ARTISA/MK-BLENZE PLUS PVC FRLS COPPER WIRES :KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX				
15.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	LEGRAND (Myrius) / ABB (IVIE)/ SCHNEIDER (ZENCELO)/WIPRO-NORTHWEST – ARTISA/MK-BLENZE PLUS				
15.1	5/6 amps switch	Nos	6.00	91.96	551.79

15.2	6 amps socket	Nos	6.00	108.93	653.57
15.3	16 amps switch	Nos	6.00	139.29	835.71
15.4	16 amps Socket	Nos	6.00	175.89	1,055.36
16.0	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
16.1	3 Module (100mmX75mm)	Nos	12.00	291.96	3,503.57
16.2	6 Module	Nos	1.00	358.93	358.93
16.3	8 Module	Nos	1.00	405.36	405.36
17.0	Laying and fixing of existing PVC insulated and PVC sheathed XLPE power cable of following sizes on existing Cable Tray/ wall /duct if required (for load other than 2nd, 3rd, 4th and 5th floor).				
17.1	Upto 35 Sq.mm (Clamped with 1 mm thick saddle)	Mtr	145.00	40.18	5,825.89
17.2	Above 35 Sq.mm and upto 95 Sq.mm (Clamped with 25X 3 mm thick MS Flat Clamp)	Mtr	145.00	82.14	11,910.71
17.3	Above 95 Sq.mm and upto 185 Sq.mm (Clamped with 25/40 X 3 mm thick MS Flat Clamp)	Mtr	150.00	102.68	15,401.79
XXIII INTERNAL ECLECTRICAL WORKS					
Low voltage Aluminium / Copper conductor cables					
1	Supply and laying of 1100Volts grade, XLPE insulated Aluminium / Copper conductor, armoured power cable as per following specifications. The cable shall be laid in indoor existing trenches / cable trays/wall /Duct as required at site. The cable shall be clamped at regular intervals to the supports in trench or to MS cable trays or brick wall using MS clamps and fasteners. (Excluding cable trench works) Note: All armoured Cable shall be provided with metal identified tags showing the sizes and from/to the respective DB or panels both ends. Approved Make : KEI / POLYCAB / RR CABLE / HAVELLS/FINOLEX/NICCO/UNIVERSAL/CCI				
1.1	3.5C x 35 Sq.mm Aluminium Cable	Mtr	160.00	374.00	59,840.00
1.2	4C x 25 Sq.mm Aluminium Cable	Mtr	150.00	350.00	52,500.00
1.3	4C x 16 Sq.mm Aluminium Cable	Mtr	550.00	309.00	169,950.00
1.4	4C x 10 Sq.mm Aluminium Cable	Mtr	900.00	251.00	225,900.00
1.5	4C x 6 Sq.mm Copper Cable	Mtr	200.00	495.80	99,160.00
1.6	3C x 6 Sq.mm Copper Cable	Mtr	200.00	398.36	79,672.00
Low voltage cable end terminations:					
2	Supply and providing LV cable end termination for below listed cable with double compression brass type glands, tapping, crimping type aluminium / copper lugs, etc., Approved Make: DOWELLS / JAISON/ COMET / BRACO				
2.1	3.5C x 35 Sq.mm Aluminium Cable	Nos	14.00	329.46	4,612.50
2.2	4C x 25 Sq.mm Aluminium Cable	Nos	20.00	281.25	5,625.00
2.3	4C x 16 Sq.mm Aluminium Cable	Nos	28.00	275.89	7,725.00
2.4	4C x 10 Sq.mm Aluminium Cable	Nos	20.00	240.18	4,803.57
2.5	4C x 6 Sq.mm Copper Cable	Nos	20.00	240.18	4,803.57
2.6	3C x 6 Sq.mm Copper Cable	Nos	20.00	240.18	4,803.57
3.0	MCB Distribution Boards				
	Supply, erection, testing and Commissioning of Phase Segregated (seven segment) Distribution Boards of sheet metal construction with cutouts for operating the MCB knobs in the inner cover exterior powder coated metal frame with door and comprising of phase copper bus bars, neutral and earth bar with tapped holes, Bakelite phase barriers, PVC insulator shoes for incoming wires, necessary cable boxes for incoming / outgoing conduits. DB's shall be suitable for single phase/3 phase operation. DB's shall be flush mounted to brick wall and shall be of double door type. DBS shall be as per Technical specifications and single line diagram. Including wall chipping and cutting works. Approved Make (DB) : LEGRAND (Ekinoxe) / L & T (AU) / ABB (Itus)/Siemens- Betaguard/Schneider- Acti9 Approved Make (MCB,RCCB) :LEGRAND / L & T / ABB /Siemens/Schneider/Hager NOTE: 2 Nos. DB AT EACH FLOOR				
3.1	6Way 7 Segment DB - LIGHTING DB (LDB) Main Incomer - 40A, 4Pole, MCB Sub Incomer - 25A, 30mA, DP, RCCB - 3 Nos Outgoings - 6/10A, SP, MCBs - 18 Nos	Nos	8.00	19,457.00	155,656.00
3.2	8Way 7 Segment DB - RAW POWER DB (PDB) Main Incomer - 63A, 4Pole, MCB Sub Incomer - 40A, 100mA, DP, RCCB - 3 Nos Outgoings - 16A/20A, SP, MCBs - 24 Nos	Nos	12.00	22,557.00	270,684.00
3.3	6Way 7 Segment DB - UPS POWER DB (EPDBs) Main Incomer - 63A, 4Pole, MCB ("D" Curve) Sub Incomer - 40A, 30mA, DP, RCCB - 3 Nos Outgoings - 16/20A, SP, MCBs - 18 Nos ("D" Curve)	Nos	8.00	21,640.00	173,120.00

4	Supply, erection, testing and Commissioning of 12-way, SPN, Double Door, Metal type, powder painted Distribution Board surface / flush mounted, complete with tinned copper bus bar, neutral busbar and earth busbar, din bar, interconnected wiring complete with earthing lugs, including DB wiring, dressing with ferruling, termination of circuits with ping type copper lugs, blank plates & making good to the damages caused etc. housing following switchgears : 12 Way SPN DB - Floor Emergency lighting DB(ELDB) Incomer - 1 x 25A, 100mA, 2Pole, RCCB Outgoings - 6/10A, SP, MCBs - 10 Nos	Nos	8.00	5,720.00	45,760.00
5	Local Isolators				
	Approved Make (DB) : LEGRAND (Ekinoxe) / L & T (AU) / ABB (Itus)/Siemens- Betaguard/Schneider- Acti9 Approved Make (MCB,RCCB) :LEGRAND / L & T / ABB /Siemens/Schneider/Hager				
5.1	Supply and installation of concealed 63Amps, 4P MCB with mounted in a prefabricated power coated FP metal enclosure surface / flush mounted and complete to the satisfaction of the client as per requirement	Nos	4.00	5,500.00	22,000.00
5.2	Supply and installation of concealed 32/40Amps, 4P MCB with mounted in a prefabricated power coated FP metal enclosure surface / flush mounted and complete to the satisfaction of the client as per requirement	Nos	4.00	3,500.00	14,000.00
5.3	Supply and installation of concealed 32Amps, 2P MCB with mounted in a prefabricated power coated DP metal enclosure surface / flush mounted and complete to the satisfaction of the client as per requirement	Nos	4.00	1,200.00	4,800.00
6.0	Power Socket Outlets:UPS AND POWER SOCKETS				
	Approved Make (Switch & Sockets) LEGRAND (Myrius) / ABB (IVIE)/ SCHNEIDER (ZENCELO)/WIPRO-NORTHWEST – ARTISAN/MK-BLENZE PLUS Approved make for FRLS cu. Wire: KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX Approved make for PVC CONDUIT ; PRECISION / AKG/BEC/AVON PLAST/GM/CLIPSAL				
6.1	Wiring with 2X2.5 +1X2.5 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB to Computer point each point have 3 nos. 6Amp 3 pin modular type socket and 10A switch with all accessories inner plates/outer plates fixed on Modular table /wooden partition by grouting on wall etc as per requirement at site. The switch will be fixed above the top on the table and sockets are under the table for UPS Power.				
	a) Primary point	Nos	200.00	2,625.00	525,000.00
	b) Secondary Points : Same as above but looped from the 1st point to 2nd point, and 2nd to 3rd point (maximum 4 points in a circuit)	Nos	340.00	1,800.00	612,000.00
6.2	Wiring with 2X2.5 +1X2.5 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB to Raw point each point have 2 nos. 6Amp 3 pin modular type socket and 10A switch with all accessories inner plates/outer plates fixed on Modular table/ wooden partition by grouting on wall etc as per requirement at site on Raw power.				
	a) Primary point	Nos	200.00	2,400.00	480,000.00
	b) Secondary Points :Same as above but looped from the 1st point to 2nd point, and 2nd to 3rd point (maximum 4 points in a circuit)	Nos	340.00	1,900.00	646,000.00
6.3	Wiring with 2X2.5 +1X2.5 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB to point each point have 1 nos. 6Amp 3 pin modular type socket and 6A switch with all accessories inner plates/outer plates fixed on Modular table/ wooden partition by grouting on wall etc as per requirement at site for utility.				
	a) Primary point	Nos	20.00	1,950.00	39,000.00
	b) Secondary Points :Same as above but looped from the 1st point to 2nd point, and 2nd to 3rd point (maximum 4 points in a circuit)	Nos	20.00	1,200.00	24,000.00
6.4	Wiring with 2X4 +1X4 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB to point each point have 1 nos. 16Amp 3 pin modular type socket and 16A switch with all accessories inner plates/outer plates fixed on Modular table/ wooden partition by grouting on wall etc as per requirement at site.				
	a) Primary point	Nos	120.00	3,514.00	421,680.00
	b) Secondary Points :Same as above but looped from the 1st point to 2nd point (maximum 2 points in a circuit)	Nos	140.00	1,800.00	252,000.00

6.5	Wiring with 2X4 +1X4 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB with 1 No. 6/16Amps 3pin flush type heavy duty socket and housed in a 2module GI metal / PVC box and 2module FR PVC front plate with frame .1 No. 20Amps, DP AC Starter and 20A/32 DP MCB(C CURVE-10 KA) housed in a 4module GI metal / PVC box and 4module PVC front plate with frame for SPLIT AC.(sokcet to be near equipment)	Nos	30.00	5,370.40	161,112.00
6.6	Wiring with 2X4 +1X4 PVC insulaed 1100V Grade Multi stranded copper conductor wire in 2mm thick FR PVC conduit from DB with No. 6/16Amps 3pin flush type heavy duty socket and housed in a 2module GI metal / PVC box and 2module FR PVC front plate with frame 1 No. 16/20Amps, DP Switch and housed in a 2module GI metal / PVC box and 2module PVC front plate with frame for Proiector.	Nos	20.00	2,615.00	52,300.00
6.7	GI METAL BOXES: Supply and erection of following sizes of GI metal / PVC box suitable for above modular type switch and sockets.				
	a) 1 / 2 Module GI Metal / PVC box	Nos	20.00	266.07	5,321.43
	b) 3 Module GI Metal / PVC box	Nos	30.00	291.96	8,758.93
	c) 6 Module GI Metal / PVC box	Nos	20.00	306.25	6,125.00
	d) 8 Module GI Metal / PVC box	Nos	18.00	405.36	7,296.43
6.8	Supply and fixing 20A, 240V, SPN Industrial type socket outlet with 2 pole and earth metal enclosed plug top controlled by 20Amps C Curve DP MCB with powder coated MS enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with testing and commissioning etc. as required.	Nos	20.00	2,870.00	57,400.00
6.9	T.V. Socket with back and front PVC Plate	Nos	25.00	125.00	3,125.00
6.10	HDMI Socket with back and front PVC Plate	Nos	25.00	1,050.00	26,250.00
6.11	Supply and installation of concealed/ recessed/surface Bracket fan point wiring using 2x2.5+1x1.5 sqmm (DB/SB to 1st bracket fan and fan to fan loop)with 1100V grade FRLS PVC insulated copper wire with proper RYB colour code pulled through heavy gauge fire rated PVC conduit laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling. The wiring shall be complete with all conduit and wiring accssories like dip JB box, modular plate,T's bends,elbows,MS boxes GI pull wires clamps spacers,Screws, 6A Switch and Socket required etc. The rate shall include providing 6A modular type switch and socket mounting boxes.The switch boxes are to be fixed at wall and are also flush mounted.The scope includes all the civils works etc.				
	Approved Make (Switch & Sockets) LEGRAND (Myrius) / ABB (IVIE)/ SCHNEIDER (ZENCELO)/WIPRO-NORTHWEST – ARTISA/MK-BLENZE PLUS Approved make for FRLS cu. Wire: KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX Approved make for PVC CONDUIT ; PRECISION / AKG/BEC/AVON PLAST/GM/CLIPSA Note: i) Top of RFD Colour Code to be maintained				
	(ii) Each Circuit have independend earth wire.Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed (iii) Each point shall be earthed. iv) Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed;				
	a) 1 nos fan Point	Nos	120.00	1,715.00	205,800.00
	b) 3 nos bracket fan points.(Direct ckt from db and fan to be looped)	Nos	30.00	1,898.00	56,940.00
	c) 4 nos bracket fan points.(Direct ckt from db and fan to be looped)	Nos	16.00	2,048.00	32,768.00
7	LIGHT FIXTURES / FANS: Supply , Installation, testing and commissioning of following lighting fixtures with lamps and LED driver as per the details below including necessary hardware such as clamps, nuts, bolts, nails, screws and suspension rods/wire as required for fixing the fixtures in position as directed by architect / consultant / client including supply and fixing flexible wires from holder to fixtures hardwares etc. The marking & cutting of fixtures should be in electrical contractor's scope.. Note :- All Light Fixtures, Fans, Exhaust Fans & other fittings samples and quantity shall be approved by the Client / Architect / Consultant before placing order to the Light Fixture Vendor / Supplier. Client / Architect / Consultant reserves right to approve / select final Light Fixtures from any make as required.The quantity may vary as per the site conditions.				0.00
	Approved make :PHILIPS / HAVELLS / WIPRO/CROMPTON/BAJAJ				

7.1	Supply, Installation, Testing and Commissioning of LED Recessed Downlighter with a nominal system lumen output of 2600 lumens and a minimum system efficacy of >105 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70B50 at Ta 25degree centigrade.SDCM is within 3.The luminaire should have a color temperature of 5700-6000K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF > 0.9. The luminaire housing should made of pressure die cast aluminium with ROHS compliance and the luminaire optics shall have a high efficiency diffuser with more than 85% transmittance.The total power consumption should not exceed 24W (including driver).Driver Should be constant current driver and with O/L,O/V protection.Vendor should provide seperate BIS certifications for luminaire and Driver Separately.	Nos	800.00	1,500.00	1,200,000.00
7.2	Supply, Installation, Testing and Commissioning of LED Recessed Downlighter/COB light with a nominal system lumen output of 1200 lumens and a minimum system efficacy of >105 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70B50 at Ta 25degree centigrade.SDCM is within 3.The luminaire should have a color temperature of 5700-6000K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF > 0.9. The luminaire housing should made of pressure die cast aluminium with ROHS compliance and the luminaire optics shall have a high efficiency diffuser with more than 85% transmittance.The total power consumption should not exceed 18W (including driver).Driver Should be constant current driver and with O/L,O/V protection.Vendor should provide seperate BIS certifications for luminaire and Driver Separately.	Nos	220.00	1,200.00	264,000.00
7.3	Supply, Installation, Testing and Commissioning of upto 38W (including all losses) 2ft X 2ft LED recess mounted luminaire with CRCA housing ROHS compliance and minimum system lumen output of 3800 lumens. It should have completely indirect lighting. The luminaire shall have a rated system lifetime of 50,000 burning hours and CCT of 6500 K.The luminaire shall have CRI of > 80 with Standard deviation color matching (SDCM) < 3. It has IP20 protection and Operating Temperature range shall be 0 to 45 deg C. System power factor shall be > 0.9 and THD < 10%. Luminaire should have Serviceability class B.report and Type Test Certificate to be submitted for luminaire and LM 80 report for LED source issued by LED manufacturer.	Nos	100.00	2,400.00	240,000.00
7.4	Supply, Installation, Testing and Commissioning of LED 4ft Aluminium Batten with a nominal system lumen output of 2000 lumens and a minimum system efficacy of 120 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 rating with THD < 10% and PF > 0.95. The luminaire housing should made of CRCA with a PC UV shielding diffuser. The total power consumption should not exceed 24W (including driver).Driver Should be constant current driver and with O/L,O/V protection. Vendor should provide seperate BIS certifications for luminaire and Driver Separately	Nos	20.00	729.00	14,580.00
7.5	Supply, Installation, Testing and Commissioning of LED based suspended Continuous linear (4ft) Luminaire with extruded aluminium housing,anodized silver finish with all fixing accessories., hanging chain etc. System lumen output of 2600 lumens and a minimum system efficacy of 110 lm/W.The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire shall have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 Rating with THD<10% and PF>0.9. The total Power Consumption should not exceed 28 W (including Driver).Vendor should provide seperate BIS certifications for luminaire and Driver Separately.	Nos	340.00	2,247.00	763,980.00
7.6	Supply, Installation, Testing and Commissioning of LED based suspended Continuous linear (6ft) Luminaire with extruded aluminium housing,anodized silver finish with all fixing accessories hanging chain etc. a minimum system efficacy of 110 lm/W.The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire shall have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 Rating with THD<10% and PF>0.9. The total Power Consumption should not exceed 36 W (including Driver). Vendor should provide seperate BIS certifications for luminaire and Driver Separately.	Nos	20.00	3,368.00	67,360.00

7.7	Supply, Installation, Testing and Commissioning of LED based suspended Continuous linear (8ft) Luminaire with extruded aluminium housing, anodized silver finish with all fixing accessories hanging chain etc. a minimum system efficacy of 110 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire shall have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 Rating with THD<10% and PF>0.9. The total Power Consumption should not exceed 40W (including Driver). Vendor should provide separate BIS certifications for luminaire and Driver Separately.	Nos	20.00	3,774.00	75,480.00
7.8	Supplying, fixing, testing and commissioning of LED Cove light/ Strip light with driver with all fixing accessories. The LED strip light should have power consumption max.5 watt/ meter.	Mtr	640.00	185.00	118,400.00
7.9	Supply, Installation, Testing and Commissioning of 6/10W LED Mirror light fittings with Driver & all fixing accessories, interconnection flexible cables, etc.	Nos	20.00	1,500.00	30,000.00
7.10	Supply, Installation, Testing and Commissioning of COB Spot light of 5/7W LED adjustable downlight with Driver along with all fixing accessories, interconnection flexible cables, etc. The fitting must have aluminium housing & CCT of 6500/4000/3000K as per site requirement.	Nos	100.00	800.00	80,000.00
7.11	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Nos	15.00	3,626.00	54,390.00
	Make: ALMONARD / HAVELLS / CROMPTON / ORIENT/BAJAJ/ATOMBERG				
7.12	Supply installation and testing of exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter: 300mm dia metal body exhaust fan. with/without louvers.	Nos	15.00	2,800.00	42,000.00
	Make: ALMONARD / HAVELLS / CROMPTON / ORIENT/BAJAJ/ATOMBERG				
7.13	Supply installation and testing, commissioning of passive infrared (PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10A for mounting height upto 2.8 meter and 5 meter Diameter coverage area along with necessary fixing arrangement i/c and i/o programming at site etc.	Nos	100.00	4,778.00	477,800.00
8.0	Circuit Mains and Power Wiring :				
	Supply and drawing of 1100V grade, multi strand FRLS insulated copper conductor wire. drawn into 2mm thick rigid FRLS PVC conduit pipes in concealed / open conduit system with necessary conduit and fixing accessories like bends, collars, junction boxes, clamps, spacers, etc., wiring shall be as per specifications. All the civil works like wall chipping and cutting works to be included. The cost is inclusive of PVC Conduit with all accessories.				
8.1	2 Runs of 2.5 sq.mm multi strand FRLS insulated copper conductor wire in 25mm dia FRLS PVC conduit along with 1 Run of 2.5 sq.mm multi strand FRLS insulated copper earth wire. (Mobile)	Mtr	200.00	148.00	29,600.00
8.2	2 Runs of 4.0 sq.mm multi strand FRLS insulated copper conductor wire in 25 mm dia FRLS PVC conduit along with 1 Run of 4.0 sq.mm multi strand FRLS insulated copper earth wire. (for Split AC and Utility)	Mtr	200.00	185.00	37,000.00
8.3	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath laid in the surface/ recessed with FR PVC conduit as per as required as per site Condition .	Mtr	400.00	65.00	26,000.00
8.4	Supplying and drawing HDMI copper conductor with HDMI JACK, shielded with fine tinned copper braid and protected with PVC sheath laid in the surface/ recessed with FR PVC conduit as required as per site.	Mtr	200.00	300.00	60,000.00
9.0	Light Point Wiring :				

9.1	Supply and installation of concealed/ recessed/surface light point/call bell /fan point wiring using 2x2.5+1x1.5 sqmm (DB to switch board and switch board to switch board) and 3x1.5 sqmm (from switch board to point) with 1100V grade FRLS PVC insulated copper wire with proper RYB colour code pulled through heavy gauge fire rated PVC conduit laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling. The wiring shall be complete with all conduit and wiring accessories like dip JB box, modular plate,T's bends,elbows,MS boxes GI pull wires clamps spacers,Screws, Ceiling Rose, angle Bulb Holder wherever required etc. The rate shall include providing 6A modular type switch, mounting boxes.The switch boxes are to be fixed at wall and are also flush mounted.The scope includes all the civils works etc.				
	Approved Make (Switch & Sockets) LEGRAND (Myrius) / ABB (IVIE)/ SCHNEIDER (ZENCELO)/WIPRO-NORTHWEST - ARTISAN/MK-BLENZE PLUS Approved make for FRLS cu. Wire: KEI / POLYCAB / ANCHOR / RR CABLE / HAVELLS/FINOLEX Approved make for PVC CONDUIT ; PRECISION / AKG/BEC/AVON PLAST/GM/CLIPSAL				
	Note: i) Proper RYB Colour Code to be maintained (ii) Each Circuit have independend earth wire.Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed (iii) Each point shall be earthed. (iv) Circuit wiring to be included in point wiring rates. v) Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; vi) The wires from ceiling junction to light points / light fixture shall be drawn in flexible GI conduit with adptor & cover for junction box & crimp type lugs at both the ends alongwith necessary hardware & accessories, etc. as required;				
	a) 1 Light point controlled by 6A flush type switch.	Nos	216.00	1,222.50	264,060.00
	b) 2 light point controlled by a 6A switch.	Nos	85.00	1,457.05	123,849.00
	c) 3 light point controlled by a 6A switch.	Nos	115.00	1,812.41	208,427.00
	d) 4 light point controlled by a 6A switch.	Nos	90.00	2,063.71	185,734.00
	e) 5 light point controlled by a 6A switch.	Nos	90.00	2,315.00	208,350.00
	f) 6 light point controlled by a 6A switch.	Nos	90.00	2,566.30	230,967.00
	g) 8 light point controlled by a 6A switch.	Nos	5.00	2,566.20	12,831.00
	h) Ceiling fan point controlled by 6A Switch with 2 Module step type Humfree fan regulator.	Nos	15.00	1,383.73	20,756.00
	i) 6Amps 3 pin Socket contolled by 6A Switch (Dependent Socket)	Nos	160.00	420.00	67,200.00
9.2	MCB CONTROL LIGHT POINT				
	Supply, Installation, Testing & Commissioning of light points using necessary materials like 20mm dia PVC Conduit, 3R x 1.5 sqmm FRLS category & insulated wires, controlled by 6A SP MCB, and other wiring accessories & carrying out surface wiring. The rate shall include earthing of all points. The quoted rates shall also include PVC coated metal flexible & all accessories, tools, labour etc. No separate payment will be made for wall chasing, cleaning of debris, rough plastering the chased wall / floor. The rate shall include looping between points. The wiring size is limited to lighting circuits (Max.14 Nos lights in one ckt) & 5A power outlets in point wiring limited to 200W per socket outlet. All accessories shall be IS approved. Cost shall include wiring from first light point to subsequent looping between the points.(excluding cost of the MCB)				
	a) 3 to 6 light points controlled by 1no of 6A SP MCB. The cost shall include avg length of 6-8 Mtrs between points.	Nos	16.00	3,000.00	48,000.00
	b) 7 to10 light points controlled by 1no of 6A SP MCB. The cost shall include avg length of 6 to 12 Mtrs between points.	Nos	12.00	3,500.00	42,000.00
	c) 11 to 13 light points controlled by 1no of 6A SP MCB. The cost shall include avg length of 6 to 12 Mtrs between points.	Nos	40.00	4,600.00	184,000.00
10.0	PVC Conduits				
	Supply and laying of 2mm thick rigid FRLS PVC Conduit pipe in a concealed conduit system using conduit accessories like junction boxes, collars, bends, elbows, binding wires, etc., all civil works for Surface/concealed system.				
	Approved make for PVC CONDUIT ; PRECISION / AKG/BEC/AVON PLAST/GM/CLIPSAL				
	a) 32mm dia PVC Conduit	Mtr	200.00	164.29	32,857.14
	b) 25mm dia PVC Conduit	Mtr	50.00	129.46	6,473.21
	c) 20mm dia PVC Conduit	Mtr	50.00	114.29	5,714.29
11	RACEWAY :				

	Providing and fixing of race way made from minimum 2 mm thick metal, factory fabricated, with internal partition of the following sizes including providing removable double folded cover of 1.6mm thick up to 150mm wide raceway and 2mm thick above 150mm wide raceway, knock out holes and fixing accessories earthing stud for terminating 8 SWG copper earth wire complete as required including floor supports, bends, access boxes, tap off boxes and cross over as per site requirement. (overhead / wall mounted recovery & function boxes shall be 1.6 mm thick). The pregalvenised sheet shall be as per IS 277 or BS 2989 having tensile strength of minimum 500 N/sq.m. and minimum zinc coating of 275 GSM.				
	Approved make for Race way: NIEDEX / PROFAB / JKR / CLASSIC / SHRUTI / PATNY				
	a) 300mm x 40mm x 2mm Floor Raceways with removable top cover	Mtr	200.00	3,614.71	722,942.00
	b) 200mm x 40mm x 2mm Floor Raceways with removable top cover	Mtr	250.00	2,908.97	727,242.00
	c) 100mm x 40mm x 2mm Floor Raceways with removable top cover	Mtr	280.00	1,681.23	470,743.00
	d) 350 x 350mm metal Cable Floor Junction box	Nos	50.00	5,758.74	287,937.00
	e) 250 x 250mm metal Cable Floor Junction box	Nos	86.00	3,969.44	341,372.00
	f) 150 x 150mm metal Cable Floor Junction box	Nos	100.00	3,227.04	322,704.00
12.0	Miscellaneous works				
	Supply and installation of the following miscellaneous items				
12.1	Shock treatment chart laminated.	Nos	4.00	825.00	3,300.00
12.2	First aid kit with Box	Set	4.00	1,300.00	5,200.00
12.3	Providing and fixing M.V danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick and vitreous enameled white on both sides and with inscription in single red colour on front side as required	Nos.	12.00	185.00	2,220.00
12.4	Supply and laying of 3C x 2.5 Sq.mm copper flexible FRLSH cable	Mtr	200.00	128.00	25,600.00
12.5	Supply and laying of 3C x 4 Sq.mm copper flexible FRLSH cable	Mtr	200.00	148.00	29,600.00
	F) FIREFIGHTING SYSTEMS				
XXIV	1. Pumps and Equipments				
1.1	Supplying, installation, testing and commissioning of Diesel Engine Driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Diesel Driven Pump - 2280LPM with 88-meter head, minimum 77 BHP, 2300 RPM and as to give a minimum 3.5kgf/cm2 pressure at the highest/farthest point.) a. Horizontal type, multistage, centrifugal Split Casing back pull out type pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. b. Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12/24 volts electric starting equipment, diesel tank, exhaust pipe extended up to 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required. c. M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. d. Suitable cement concrete foundation duly plastered and with anti-vibration pads. e. and complete set shall be mounted on common base frame. Batteries & battery leads with stand, Fuel tank (for 6 Hrs. operation & double container type) with stand & gauge glass, Fuel piping with valves. The quoted rate shall includes water re - circulation piping, Pressure relief valve, radiator water cooling piping(if required) coupling guard and other standard accessories, foundation bolts, etc. complete as per the	Nos	1.00	657,442.86	657,442.86

1.2	<p>supplying, installation, testing and commissioning of electric driven pressurisation pump (Jockey Pump) suitable for automatic operation and consisting of following, complete in all respects, as required: (Jockey Pump-180 LPM, Rated Head: 88-meter, Pump MOC: Casing - Cast Iron, Impeller - Bronze, Shaft - SS, Motor: 9.3 KW (12.5 HP), 2 Pole, 3Phase, 50Hz.)</p> <p>a. Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS: 1520.</p> <p>b. Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS: 325.</p> <p>c. M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>d. Suitable cement concrete foundation duly plastered and with anti-vibration pads. roviding ,fixing , testing and commissioning of electrical motor driven Jockey pump of horizontal centrifugal end suction back pull out type with gland packing and capable to deliver 180 LPM at 88 MWC. The pump shall be coupled to TEFC motor of suitable HP with speed of 2900 RPM and complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of compound gauge, coupling, coupling guard, foundation bolts etc,complete as per the manufactures recommendations</p>	Nos	2.00	89,285.71	178,571.42
1.3	<p>Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required (2280LPM with 88-meter head and as to give a minimum 3.5kgf/cm2 pressure at the highest/farthest point):</p> <p>a. Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.</p> <p>b. Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.</p> <p>c. M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>d. Suitable cement concrete foundation duly plastered with anti-vibration pads. Complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of compound gauge , coupling, coupling guard, foundation bolts etc, complete as per the manufactures recommendations(one each for hydrant/wet riser & sprinkler system).</p>	Nos	2.00	550,000.00	1,100,000.00
1.4	<p>Supplying, installation, testing and commissioning of electric driven terrace booster pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump /Water Curtain system)</p> <p>a. Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS: 1520</p> <p>b. Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.</p> <p>c. M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.</p> <p>d. Suitable cement concrete foundation duly plastered and with anti-vibration pads. Complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of compound gauge and suitable size of metal expansion bellows at both side of the pumps ,anti vibration pad, water re-circulation arrangement, pressure relief valve, coupling, coupling guard, foundation bolts etc, complete as per the manufactures recommendations - water curtain system/terrace booster PUMP</p>	Nos	3.00	103,677.68	311,033.04
1.5	<p>Providing, fixing ,testing and commissioning of compartmentalized common control panel with mechanical and electrical interlock facility for the fire pumps. All the components shall be housed in a common cubical made of 16 SWG. M.S. sheet with required stiffeners). The panel shall be powder coated of approved color both inside & outside. The panel shall have both bottom & top cable entry provisions and panel shall be mounted on Pedestal of 300 mm height. <u>The given feeder size is only indicative , actual shall be as per OEM , vendor has to consider the same in their goute .</u></p> <p>Incoming Feeder</p> <p>a. 2 nos. 630A TPN MCCB (50 KA) and shall be motor operated type</p> <p>b. 2 Sets of 630 Amps. TPN AI. Bus bars with color coded heat shrinkable PVC sleeves.</p> <p>c. 1 Set of RYB indicating lamps with individual MCB.</p> <p>d.1 No. 0-630 Amps. Ammeter with selector switch and suitable rated current transformers.</p> <p>e.1 No. 0 - 630V. Voltmeter with selector switch</p>	Nos	1.00	457,358.93	457,358.93
	Outgoing				

	Feeder For DG Driven Pump -1 no 1. 20Amps DPMCB - 1 Nos. 2. Battery charger with transformer with rectifier resistance DC ammeter 3. DC voltmeter, Trickle / booster / off selector switch -1 No 4. Following indication lamps- 1 sets Phase indication, Battery charger on, Over load relay, DC supply on,control switch on, Engine fails to start, Pump on, Low oil pressure,High water temperature and Auto manual selector switch 5. Following push button stations - 1 Sets Engine Start,Engine Stop, Engine hooter, Engine fault reset, Selector switches for Engine control & mode selector 6. Hooter Industrial type for audio alarm - 1 No.				
	Feeder For Jockey Pump - 2 Nos a. 1 Nos. 32A TP MCCB without releases b. DOL with over load relay, single phase preventer and indicating lamps with ON / OFF push buttons. c. 1 No. Auto manual selector switch d. 2 Nos. of NO/NC contacts for extending the status to the Fire alarm panel				
	Feeder For Main Pump - 2 Nos a. 1 Nos. 250A TP MCCB without releases b. DOL with over load relay, single phase preventer and indicating lamps with ON / OFF push buttons. c. 1 No. Auto manual selector switch d. 2 Nos. of NO/NC contacts for extending the status to the Fire alarm panel				
	Feeder For water curtain umps - 1 Nos a. 1 Nos. 32A TP MCCB without releases b. DOL with over load relay, single phase preventer and indicating lamps with ON / OFF push buttons. c. 1 No. Auto manual selector switch d. 2 Nos. of NO/NC contacts for extending the status to the Fire alarm panel				
1.5.1	Starter Panel for 900 Imp terrace pump	No	2.00	42,500.00	85,000.00
1.6	Supplying, installing ,testing and commissioning of FRLS,PVC outer sheathed, steel armored, aluminum conductor, 1100 Vgrade power cables with glands etc.The cables shall be laid in tray / Hume pipe / in trenches/on walls/ floor etc. as required. For cables laid out door the rate shall include earth excavation providing brick and sand protection, refilling and compacting the earth.The rate shall excludes tray & Hume pipes.The minimum size & length of the cables shall be considered as required for the complete system.				
	a) 12 C x 2.5 Sqmm. Copper cable Diesel engines	Rmt	30.00	750.00	22,500.00
	b) 4 C x 25 Sqmm. Aluminum cable Jockey pumps	Rmt	30.00	550.00	16,500.00
	c) 2 C x 2.5 Sqmm.Copper cable for Instrumentation	Rmt	250.00	150.00	37,500.00
	d) 3 C x 2.5 Sqmm. Copper cable For start / stop push buttons	Rmt	1.00	200.00	200.00
	e) 3.5C x 120 sq.mm Aluminum cable for main pumps	Rmt	60.00	1,250.00	75,000.00
1.7	Providing ,fixing , testing and commissioning of perforated G.I.sheet cable tray with necessary angle iron suspension supports, anchor fasteners etc. complete. Maximum height of suspension shall not exceed 500 mm.Size / length of the tray shall be suitable for laying the above mentioned cables.				
	a) Size 200mmX50mm	Rmt	20.00	701.30	14,026.00
	b) Size 100mmX50mm	Rmt	20.00	552.68	11,053.60
	c) Size 50mmX50mm	Rmt	20.00	345.00	6,900.00
1.8	Providing ,fixing , testing and commissioning of G.I. Earthing strips of 50mm x 6mm thick, strip shall be run on floor / ceiling / walls, from the MCC panel to all equipments as per standard with necessary accessories as required.	Rmt	20.00	488.00	9,760.00
1.9	Providing ,fixing , testing and commissioning of C.I.flanged "Y" type Strainer with SS mesh, suitable flanges, nuts, bolts, gaskets etc. complete.				
	a) 250mm dia.	Nos	2.00	27,936.11	55,872.22
	b) 150mm dia.	Nos	1.00	11,343.00	11,343.00
1.10	Providing ,fixing , testing and commissioning of PN 10 C.I.Gate valves as per IS:14846 with rising spindle type with flanges, bolts, nuts, washers, gaskets etc.				
	a) 100mm nominal dia	Nos	1.00	14,902.45	14,902.45
	b) 150mm nominal dia	Nos	1.00	23,168.46	23,168.46
	c) 200mm nominal dia	Nos	3.00	40,034.36	120,103.08
	d) 250mm nominal dia	Nos	2.00	47,347.66	94,695.32
1.11	Providing ,fixing , testing and commissioning of PN 16 swing check type C.I. Non-return valves as per IS:5312 with required flanges, nuts, bolts and gaskets etc. complete.				
	a) 80 mm nominal dia	Nos	3.00	7,828.34	23,485.02
	b) 100 mm nominal dia	Nos	1.00	11,427.32	11,427.32
	c) 150 mm nominal dia	Nos	4.00	18,103.61	72,414.44
	d) 200 mm nominal dia	Nos	1.00	29,804.89	29,804.89

1.12	Providing ,fixing , testing and commissioning of PN 16 CI butterfly valves as per BS 5155 standard slim seal lever/gear operated type with required flanges, nuts, bolts etc. complete.				
	a) 80 mm nominal dia - Lever operated	Nos	3.00	5,070.96	15,212.88
	b) 100mm nominal dia - Lever operated	Nos	1.00	6,786.05	6,786.05
	c) 150mm nominal dia - Lever operated	Nos	8.00	9,120.00	72,960.00
	d) 200 mm nominal dia - Lever operated	Nos	1.00	15,478.55	15,478.55
1.13	Providing ,fixing , testing and commissioning of Gun metal chrome finished Ball valves with fittings of screwed end type.				
	a) 15mm dia.	Nos	1.00	1,325.00	1,325.00
	b) 20 mm dia	Nos	1.00	1,520.00	1,520.00
1.14	Providing ,fixing , testing and commissioning of 150 mm dia electronic digital display flow meter on Test line to measure 175 % of pump flow.	Nos	1.00	105,000.00	105,000.00
1.15	Providing ,fixing , testing and commissioning of Pressure switches of suitable range for pump sets with Ball valves, Fittings like unions / colors / reducers etc.	Nos	6.00	1,573.61	9,441.66
1.16	Supplying, installing ,testing and commissioning of Pressure gauges of suitable range for pump sets and pipe lines for the respective floors near to the flow switches with Ball valves, siphon, Fittings like unions / colors / reducers etc. Glycerin filled pressure gauges to use on pump discharge lines.	Nos	6.00	3,500.00	21,000.00
1.17	Providing ,fixing , testing and commissioning of GI Pipes conforming to IS 1239 Pt - I Heavy grade up to 150 mm & 3589,6mm thick for above 150 mm dia, with painting, suitable type of supports(fabricated by angles, channels, flats etc. with painting with fasteners), anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, malleable specials such as Reducers, Tees, elbows (as per IS 1239 Pt II), flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also inclusive of civil work in walls and making them good with filler material and finished in cement mortar etc. complete.				
	a) 25mm nominal dia	Rmt	20.00	920.00	18,400.00
	b) 50mm nominal dia	Rmt	6.00	1,549.00	9,294.00
	c) 80mm nominal dia	Rmt	12.00	2,250.00	27,000.00
	d) 100mm nominal dia	Rmt	6.00	2,994.00	17,964.00
	e) 150mm nominal dia	Rmt	18.00	4,233.00	76,194.00
	f) 200mm nominal dia	Rmt	18.00	8,913.00	160,434.00
	g) 250mm nominal dia	Rmt	18.00	11,050.00	198,900.00
1.18	Exhaust pipe for Diesel engine of 150 mm dia M.S. Medium grade with mineral wool insulation with aluminum sheet.				
	a) 150 mm dia M.S. Medium grade with mineral wool insulation with aluminum sheeting.	Rmt	35.00	4,278.00	149,730.00
	b) 150mm dia M.S. Medium grade shall be laid above ground with structural steel supports.	Rmt	35.00	5,278.00	184,730.00
XXV	2. Hydrant System				
	Internal				
2.1	Providing ,fixing , testing and commissioning of Single headed hydrant valve(Internal) as per IS 5290, made of gunmetal with 63 mm dia instantaneous out & 80 mm dia fanged inlet , Blank cap , chain and hand wheel etc complete and	Nos	20.00	7,782.54	155,650.80
2.2	Providing ,fixing , testing and commissioning of 2 lengths of 15 M long, 63mm dia RRL hose,	Nos	20.00	10,589.79	211,795.80
2.3	Providing ,fixing , testing and commissioning of 1 no. Gun metal short branch pipe with nozzle,	Nos	20.00	2,459.14	49,182.80
2.4	Providing ,fixing , testing and commissioning of Hose reel drum of swinging type with 19mm dia Rubber braided hose of 36M length with ball valve and Shut off nozzle with required accessories to install the equipments etc., complete.	Nos	20.00	12,288.59	245,771.80
2.5	Providing ,fixing , testing and commissioning of Fire duct Shutter fabricated out of M.S sheet and frame, door (SWG 16) and powder coated of approved red color both inside and out side. The size shall be 900mm x 1200 mm min. & fixed with 6 mm thick Glass, and key with suitable Rubber beading and Locking arrangement as per the tender drawings.	Nos	20.00	6,500.00	130,000.00
2.6	Providing ,fixing , testing and commissioning of approved make 20mm dia. With automatic air release valve with unions and ball valve etc. complete.	Nos	2.00	2,500.00	5,000.00
	External				

2.7	Providing ,fixing , testing and commissioning of fire brigade inlet connection of 4 way with 4 nos. 63 mm dia. built - in Gun metal Non-return valves instantaneous coupling type arranged on 150 mm dia. Pipe manifold and connected to wet riser main. Quoted rate shall be included with C.I. Butterfly valve, C.I. Non-return valve and M.S. cabinet of suitable size with mounting supports etc. complete.	Nos	2.00	14,233.54	28,467.08
2.8	Providing ,fixing , testing and commissioning of Single headed hydrant valve(External) as per IS 5290, made of gunmetal with 63 mm dia instantaneous out & 80 mm dia fanged inlet , Blank cap , chain and hand wheel etc complete	Nos	6.00	7,782.54	46,695.24
2.9	Providing ,fixing , testing and commissioning of 2 lengths of 15 M long, 63mm dia CP hose.	Nos	6.00	10,589.79	63,538.74
2.10	Providing ,fixing , testing and commissioning of 1 no. Gun metal short branch pipe with nozzle.	Nos	6.00	2,459.14	14,754.84
2.11	Providing ,fixing , testing and commissioning of M.S. Hose cabinet stand mounted type fabricated out of M.S. sheet of 16 SWG with powder coated of approved red color both inside and out side and glass fronted (6mm thick glass with rubber beading) door and size of the cabinet shall be 600mm x 750 mm x 250 mm Quoted rate shall be includes suitable stand for mounting, all fasteners etc.	Nos	6.00	9,500.00	57,000.00
2.12	Providing ,fixing , testing and commissioning of Double headed hydrant valve(External) as per IS 5290, made of gunmetal with 63 mm dia instantaneous out & 80 mm dia fanged inlet , Blank cap , chain and hand wheel etc complete and 1) 2 lengths of 15 M long, 63mm dia CP hose,2)1 no. Gun metal short branch pipe with nozzle.	Nos	1.00	13,850.00	13,850.00
2.13	Providing ,fixing , testing and commissioning of GI Pipes conforming to IS 1239 Pt - I Heavy grade up to 150 mm & 3589,6mm thick for above 150 mm dia, with painting, suitable type of supports(fabricated by angles, channels, flats etc, with painting with fasteners), anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, malleable specials such as Reducers, Tees, elbows (as per IS 1239 Pt II), flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also inclusive of civil work in walls and making them good with filler material and finished in cement mortar etc. complete.				
	a) 80mm nominal dia	Rmt	24.00	2,250.00	54,000.00
	b) 100mm nominal dia	Rmt	1.00	2,994.00	2,994.00
	c) 150mm nominal dia	Rmt	550.00	4,233.00	2,328,150.00
2.14	Providing ,fixing , testing and commissioning of GI Pipes conforming to IS 1239 Pt - I Heavy grade up to 150 mm & 3589,6mm thick for above 150 mm dia, with suitable type of supports, malleable specials such as Reducers, Tees, elbows(as per IS 1239 Pt II), flanges. Including cutting, Welding as per drawings. The rate quoted should be included with anticorrosive treatment with 4 mm thick polymer corrosion resistant tape as per IS 10221, overlap shall be maintained at 15mm minimum.				
	a) 150mm nominal dia	Rmt	36.00	4,633.00	166,788.00
2.15	Providing ,fixing , testing and commissioning of Hose reel drum of swinging type with 19mm dia Rubber braided hose of 36M length with ball valve and Shut off nozzle with required accessories to install the equipments etc., complete.	Nos	20.00	12,288.59	245,771.80
2.16	Providing ,fixing , testing and commissioning of water monitor branch pipe shall be of end connection BSP Female swivel joint. It shall be made of Boronze/Brass; the working pressure shall be not less 12 BAR. It shall be able to discharge 1500-2270 LPM.It shall be epoxy painted complete as per the tender specification..	Nos	2.00	35,000.00	70,000.00
XXVI	3. Fire Extinguishers				
3.1	Providing ,fixing , testing and commissioning of Portable Carbon-dioxide Gas Type Fire Extinguisher 4.5 Kgs, squeeze Grip,Controllable discharge mechanism with nozzle, bend, Hose and wall mounting bracket etc.The Can is made of Seamless Clinger and External Coating done by Spray Painting.The thickness shall not less than 4.5 mm made of Sheet metal.The Fire Extinguishers shall be ISI Approved as per IS 15683:2006.Vendor shall consider the suitable signages along with the extinguishers.	Nos	18.00	6,000.00	108,000.00
3.2	Providing ,fixing , testing and commissioning of Portable AFFF Foam Type fire extinguisher 9 Lt Capacity, cartridge Type, hose and brackets etc .The discharge Range shall be minimum of 6 mtrs.The Internal Coating of Can shall be Epoxy Powder coating and External painted with Epoxy Polyester Powder coating .The thickness shall not less than 2mm made of Sheet metal.The Fire Extinguishers shall be ISI Approved as per IS 15683:2006.Vendor shall consider the suitable signages along with the extinguishers.	Nos	6.00	3,600.00	21,600.00

3.3	Providing ,fixing , testing and commissioning of Portable ABC powder type fire extinguisher 6 Kg capacity containing Mono Ammonium Phosphate Powder 50, cartridge Type, fitted with Discharge hose, brackets etc., The discharge Range shall be minimum of 4 mtrs.The Internal Coating of Can shall be Epoxy Powder coating and External painted with Epoxy Polyester Powder coating.The thickness shall not less than 1.6 mm made of Sheet metal.The Fire Extinguishers shall be ISI Approved as per IS 15683:2006.Vendor shall consider the suitable signages along with the extinguishers.	Nos	18.00	4,000.00	72,000.00
3.4	Providing ,fixing , testing and commissioning of DCP type cap 25kg trolley mounted type extinguishers	Nos	5.00	25,000.00	125,000.00
3.5	Providing ,fixing , testing and commissioning of Portable ABC powder type fire extinguisher 10 Kg capacity containing Mono Ammonium Phosphate Powder 50, Stored Pressure Type, fitted with Discharge hose, brackets etc., The discharge Range shall be minimum of 4 mtrs.The Internal Coating of Can shall be Epoxy Powder coating and External painted with Epoxy Polyester Powder coating.The thickness shall not less than 1.6 mm made of Sheet metal.The Fire Extinguishers shall be ISI Approved as per IS 15683:2006.Vendor shall consider the suitable signages along with the extinguishers. Main electrical rooms /Transformerr yard	Nos	5.00	12,000.00	60,000.00
3.6	Providing ,fixing , testing and commissioning of Portable Trolley Mounted (IS: 2878:2004) 22.5kg Fire extinguishers	No	9.00	25,000.00	225,000.00
3.7	Fire Extinguishers Lithex for Lithium ion batteries near EV Charging station, NTA8133 (UL tested): agent type-AVD, CAP-9litres	Nos	6.00	15,000.00	90,000.00
3.8	Providing ,fixing , testing and commissioning of 4 Kg Novec 1230, DLP Assembly with automatic valve, push in connector for tube, 4 Kg Novec 1230 gas, mounting bracket, End of Line adopter and low-pressure switch for monitoring system activation.) for server rack	Nos	6.00	45,000.00	270,000.00
XXVIII 4. SIGNAGES					
4.1	Providing ,fixing of in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with UV screen printing, complete with mirror fasteners.Description: Flexible signage should be photo luminescent based glow-in-dark sheeting with luminous properties enclosed in a weatherproof UV stabilized film with UV screen printing. Thickness and service temperature: 3 mm (+/-: 10%), -20 to +120 °C Surface Colour: Greenish yellow Visibility: Glow visible up to 1-2hrs in total darkness Properties: Fungi static, Nontoxic, Non-radioactive, contains no lead or phosphorous, Simple to install by pasting and Self extinguishing Life: Life > 10-15 years for best working in indoor Certifications: These signs adhere to BS: 5499-1 and the health & safety (safety signs & signage) regulation. also i.) BIS: 10322 (Part-5/Sec-8):2013 "Led Luminaries for Emergency Lighting. ii.)BIS: 12349:1988 "Fire Protection-Safety Signs" iii.)BIS: 9457:2005 "Safety Colors and Safety Signs" iv.)BIS: 9583:1981 "Specification for Emergency Lighting Units" v.)National Building Code of India-2016	Nos	35.00	650.00	22,750.00
4.2	EXIT (Hindi/English both) Main EXIT door from inside size 150mmx400mm	Nos	42.00	400.00	16,800.00
4.3	indicate the EXIT gate (Left direction)(Hindi/English both) size 150mmx400mm	Nos	35.00	400.00	14,000.00
4.4	indicate the EXIT gate (Right direction)(Hindi/English both) size 150mmx400mm	Nos	35.00	400.00	14,000.00
4.5	At the staircase landing area towards getting down 45 degree direction (Left direction)(Hindi/English both) size 150mmx400mm	Nos	20.00	400.00	8,000.00
4.6	At the staircase landing area towards getting down 45 degree direction (Right direction)(Hindi/English both) size 150mmx400mm	Nos	20.00	400.00	8,000.00
4.7	Install at gallery to indicate the EMERGENCY EXIT gate (Left direction)(Hindi/English both) size 150mmx400mm	Nos	15.00	400.00	6,000.00

4.8	Install at gallery to indicate the EMERGENCY EXIT gate (Right direction)(Hindi/English both) size 150mmx400mm	Nos	15.00	400.00	6,000.00
4.9	PUSH-250/PULL-250, 80MM dia, At each door both side	Nos	500.00	90.00	45,000.00
4.10.	FIRE LIFT/(Hindi/English both) size 100mmx300mm, lift lobby for marking Outside Fire Lift	Nos	10.00	350.00	3,500.00
4.11.	NO SMOKING /size-100mmx300mm, All floors / Near Stationary / Record room	Nos	25.00	350.00	8,750.00
4.12.	In case of fire break the glass near Near fire alarm manual call point (MCP)/size-100mmx300mm	Nos	25.00	350.00	8,750.00
4.13.	SWITCH OFF FOR SAFETY/ Near main electrical panel & master switch, (Hindi/English both) size 100mmx300mm	Nos	50.00	350.00	17,500.00
4.14.	FIRE POINT, Near hydrant point if hydrant system installed, (Hindi/English both) size 100mmx300mm	Nos	30.00	350.00	10,500.00
4.15.	FIRE-EXTINGUISHER, Near the Fire Extinguishers, size 100mmx300mm	Nos	100.00	350.00	35,000.00
4.16.	FIRE ACTION/ 400mmx400mm, Near the MCP ideally located near Exit Gate	Nos	25.00	850.00	21,250.00
4.17.	Way Finding Tape on Flexile material laminated scratch proof for (Low location light), directional route marking way finding (Left handed directional), WAY FINDING TAPE , 80mm x 10mtr roll,	Nos	25.00	3,000.00	75,000.00
4.18.	Way Finding Tape on Flexile material laminated scratch proof for (Low location light), directional route marking way finding (Right-handed directional), WAY FINDING TAPE , SIZE- 80mm x 10mtr roll,	Nos	25.00	3,000.00	75,000.00
4.19.	Green Diagonal laminated scratch proof Tape on Flexile material for Marking safe area and exit door highlighting escape identification at staircase, GREEN ARROW TAPE SIZE-40mm x 10mtr roll	Nos	25.00	1,500.00	37,500.00
4.20.	EXIT door highlighting & Escape identification at staircase, GREEN DIAGONAL TAPE/SIZE- 40mm x 10mtr roll	Nos	25.00	1,500.00	37,500.00
4.21.	LED CONFIGURED EMERGENCY (E)/NON-EMERGENCY EXIT (NE) EDGELIT LIGHT: a)Should be Ceiling mounted and confirmed IS:9583, b)The facia on clear acrylic and the arrow should be available, c) Facia on clear acrylic and the arrow should be Visible from both sides. d) Ni-Mh/Ni-Cd rechargeable battery with constant voltage charger and maintained battery backup for 02 hrs minimum, e)Input 230 V, 50Hz. f) Size should be 180mm x 450 mm (Approx.) in Aluminum Housing Body (25mm x 45 mm).	Nos	1.00	4,000.00	4,000.00
4.22.	EXIT- LED GREEN /To be pointed towards EXIT gates at each floor as per requirements. LED configured emergency (E) edge lit light: Should be Ceiling mounted Size should be 180mm x 450 mm in Aluminium Housing Body (25mm x 45 mm), 03HRS POWER BACKUP.	Nos	18.00	3,500.00	63,000.00
4.23.	EXIT – RED WITH MULTI LIGHT ,EXIT gates at each floor as per requirements, Self-contained rechargeable emergency (LED MULTI LIGHTS WITH आपतकालीन निकास / EMERGENCY EXIT (Hindi & English both) & SIGNAGE) automatically switched-on mains power failure and provides illumination on battery source for specified duration minimum 3hrs power backup	Nos	18.00	5,000.00	90,000.00
4.24.	Auto glow signage Layout of the premises / Fire Assembly Point with figure on rigid sheet , Size-600mmx600 mm The lettering shall be at least 12.5 mm block letters in red and white background. Such lettering shall be properly spaced to provide good legibility.	Nos	20.00	1,500.00	30,000.00
4.25.	Fire exit light signage at Each stairway and each elevator back shall be identified by an alphabetical letter. A sign indicating the letter of identification shall be installed and maintained at each elevator landing and on the side of the stairway door from which egress is to be made.The lettering on the sign shall be at least 75 mm high. It shall of wall mounted type and have min of 3 hrs battery back up and husing made of CRCA steel sheel - 22 SWG .	Nos	27.00	6,500.00	175,500.00
4.26.	Auto glow signage Evacuation diagram shal have Minimum size of an using any of the Optional elements as well as Minimum elements shall be A3. The pictorial size of the floor plan shall then be (200mm x 300mm)	Nos	27.00	1,500.00	40,500.00

4.27.	Fire order board should contain the following matter on 3mm thick "Opaque" PVC foam board of UV screen printing of 3' x 4'. (sample will be provided by Bank) 1. Alert the security at security room by actuating manual call point located at strategic locations. 2. Evacuate the occupants by using fire exits and emergency exits only and assemble at various assembly points. 3. If possible try to extinguish the fire by using nearest / suitable portable extinguisher or water from nearest wet riser. 4. Be calm and do not give any room from panic, walk, do not run. 5. If you encounter serious difficulty in evacuation, flat and try to attract attention of rescue team.	Nos	27.00	1,600.00	43,200.00
4.28.	Auto glow signage Stair Re-entry Signs sign shall be posted and maintained on each floor within each stairway and on the occupancy side of the stairway where required, indicating whether re-entry is provided into the building and the floor where such re-entry is provided. The lettering and numerals of the signs shall be at least 12.5 mm high of bold type. The lettering and background shall be of contrasting colours and the signs shall be securely attached approximately 1.5 m above the floor level.	Nos	27.00	1,600.00	43,200.00
4.29.	Action by security/reception upon receipt of information through fire alarm or fire detectors or by using public address system. (sample will be provided by Bank) 1. Alert the occupants by using public address system. 2. Inform fire control through any one of the following phone numbers: 101 / (local numbers) 3. Refer evacuation plan from evacuating standard people. 4. Guide the fire force, on their arrival to the seat of fire. 5. In case of the casualties, call ambulance by dialing number 108. 6. Phone : ----- 7. Fax : -----	Nos	27.00	1,600.00	43,200.00
XXIX 5. Civil Works					
5.1	Excavation of trenches of 1500 x1000 mm for laying pipes up to 150mm dia. Including forming bottom surface to required level, refilling the trenches with selected excavated earth around the pipe in layers of 150mm thick, watering, consolidating. Quoted price inclusive of disposing off / Carting away the surplus earth out side the site to a dump yard acceptable local bodies or as directed by the site engineer with a lead of 300 mts. etc. complete.				
	a) Excavation in all kinds of soil	CUM	100.00	300.00	30,000.00
	b) Cutting of Rock with chiseling	CUM	1.00	1,200.00	1,200.00
5.2	Providing ,fixing , testing and commissioning of RCC Hume pipes of 300 mm dia & NP 2 Class with collars for road / below floor crossing. The rate shall includes excavation, PCC (1:4:8 100 mm thick)bed and ends shall be closed with Brick masonry work as directed by site engineer.	Rmt	10.00	800.00	8,000.00
5.3	Construction of valve chamber with 230 mm Brick masonry wall with best quality TM bricks & CM 1:4, on a PCC 1:5:10 bed of 150 mm thcik. The wall shall be plastered internally smooth in CM 1:3, water proofing as required and externally rough plastered with sponge finish, including curing. The chamber shall be provided with M.S 8 mm thick plate fabricated top cover in leaves with necessary hinges and locking arrangement. The size of the chamber shall be 1200mm x 1200mm x1500mm in depth.	Nos	2.00	15,000.00	30,000.00
5.4	Providing ,fixing , testing and commissioning of PCC (1:2:4) pedestals / supports for Under ground / above ground pipes. Quoted rate shall inclusive of excavation (if required), chipping / chasing, shuttering, plastering (if required) etc. complete.	CUM	2.00	5,500.00	11,000.00
5.5	Providing ,fixing , testing and commissioning of Sealing of Fire shafts at all floor levels by using M.S. angle Iron frame around the shaft M.S. chequered plate of 6mm thick and PCC (100mm thick) of 1:2:4 on the plate for whole shaft area as per drawings and engineer - in - charge.	SQM	100.00	6,500.00	650,000.00
XXX 6. Addressable Fire Detection & Alarm System					

6.1	Indoor type Addressable Fire Alarm Control panel (FACP) lwith fire fighters telephone system and audio message generator (pre - recorded),with battery having backup of 48 hours normal operation and 30 minutes alarm operation including battery charger. It shall include a full featured operator interface control and annunciation panel having liquid crystal display with minimum 600 character , individual color coded system showing the status through LEDs, and a alphanumeric keypad for the field programming and control of the fire alarm system. The panel including enclosure and accessories shall be UL listed complying to UL 864 and FM approved. If the panel programming requires a dongle/key then the same shall be supplied along with the panel. FACP shall be compatible for two way communication. The cost of main fire panel shall include inbuilt buzzer (for alarm notification), Battery & Battery charger, Battery cabinet, suitable printer port & annunciation port, modbus/bacnet protocol for BMS Integration. The Panel should have CPU & Power redundancy and panels not having the redundancy features shall be with degrade mode for the Fire alarm Control Panel.. The fire panel shall be suitable for software integration with BMS & PA system etc.) Make: Honeywell (Notifier) / Simplex / Edwards or equivalent.	Nos	1.00	760,000.00	760,000.00
	Two way communication - YES Integrated PA system -YES The panel shall be -8 Loops Panel shall be expandable up to 10 Loops				
6.2	Providing ,fixing , testing and commissioning of Fault isolator module capable of monitoring shorted loop circuit and automatically restore communications when shorted conditions are corrected and modules shall be of UL listed and FM approved .	Nos	36.00	3,328.57	119,828.52
6.3	Providing ,fixing , testing and commissioning of Addressable Intelligent Multi-sensor detector with multiple sensitivity with standard base, Junction box and other accessories as required and Detectors shall be UL listed and FM approved .	Nos	690.00	2,908.93	2,007,161.70
6.4	Providing ,fixing , testing and commissioning of graphic software for programming(mapping) the Fire detection and alarm system through FACP / Lap top. The software shall consisting with facility like Upload / down load of information's to FACP, Graphics compatible to AutoCAD, Detectors information with change in address / sensitivity etc as required as per the technical specification.	Nos	1.00	204,193.75	204,193.75
6.5	Providing ,fixing , testing and commissioning of Addressable Intelligent Duct sensor detector with multiple sensitivity levels, programmable for timed automatic sensitivity (adjustable at site) selection with base and fixing accessories as required and Detectors shall be UL listed and FM approved .	Nos	20.00	7,953.57	159,071.40
6.6	Providing ,fixing , testing and commissioning of Addressable rate of rise heat detector with standard base, Junction box and other accessories as required and Detectors shall be UL listed and FM approved .	Nos	8.00	2,775.00	22,200.00
6.7	Providing ,fixing , testing and commissioning of Hooter cum Strobe rated at 90 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication.The Hooter cum Strobe shall be as per technical specification and module shall be of UL listed and FM approved .Vendor shall consider the suitable signages along with the Hooters.	Nos	25.00	3,568.75	89,218.75
6.8	Providing ,fixing , testing and commissioning of Intelligent Manual pull station having an integrally mounted addressable module that monitors and reports contact status.The MCP shall be as per technical specification and module shall be of UL listed and FM approved .Vendor shall consider the suitable signages along with the manual call point.	Nos	25.00	3,940.18	98,504.50
6.9	Providing ,fixing , testing and commissioning of Control modules for Hooters.The Addressable control module shall be as per technical specification and module shall be of UL listed and FM approved .	Nos	25.00	3,056.25	76,406.25
6.10	Providing ,laying , testing and commissioning of 2C x 1.5 armoured cable conforming to IS standards and specifications. The quoted rate shall inclusive of suitable saddles, hardware etc. complete	Rmt	4,000.00	175.89	703,560.00
6.11	Providing ,laying , testing and commissioning of 20 mm dia.PVC FRLS flexible conduits on ceiling / wall / floor etc. complete with accessories like, Junction boxes, Collars, Bends etc.	Rmt	350.00	130.36	45,626.00
6.12	Providing ,fixing , testing and commissioning of PVC FRLS as per IS standards conduits on ceiling / wall / floor etc. complete with accessories like, Junction boxes, Collars, Bends etc.				
	a) 20 mm dia	Rmt	120.00	130.36	15,643.20
	b) 25 mm dia	Rmt	120.00	147.32	17,678.40
	c) 32 mm dia	Rmt	30.00	187.50	5,625.00

6.13	Providing ,fixing , testing and commissioning of Control relay module shall be capable of providing tripping of AHU's / release of access doors / barriers/Lift machines .The Addressable control relay module shall be as per technical specification and module shall be of UL listed and FM approved .	Nos	30.00	3,056.25	91,687.50
6.14	Providing ,fixing , testing and commissioning of Monitor modules to indicate status of flow switches, supervision of valves etc.The Addressable monitor module shall be as per technical specification and module shall be of UL listed and FM approved .	Nos	18.00	3,056.25	55,012.50
6.15	Supplying and fixing of perforated G.I.sheet cable tray with necessary angle iron suspension supports, anchor fasteners etc. complete. Maximum height of suspension shall not exceed 500 mm.Size of the tray is 40mm x 200mm x 40mm and 2mm thick.For fire alam and PA system	Rmt	20.00	701.79	14,035.80
6.16	Supplying and fixing of Response indicator	Rmt	350.00	199.11	69,688.50
XXXI	7. Integrated Voice Evacuation System				
7.1	Providing ,fixing , testing and commissioning of Round speaker ceiling arrangement (0-2 watts) with multiple taping providing a minimum of 75 db fidelity sound output at a 10 feet distance, UL listed.	Nos	350.00	982.14	343,749.00
7.2	Providing ,fixing , testing and commissioning of box speaker wall mounting arrangement (0-2 watts) with multiple taping providing a minimum of 75 db fidelity sound output at a 10 feet distance, UL listed.	Nos	10.00	1,825.00	18,250.00
7.3	Providing ,fixing , testing and commissioning of Integrated 10 channel Digital Voice Evacuation System capable to minimum of 32 minutes of standard quality or 4 minutes of high quality digital audio storage of user Selected / created messages and tones and capable of supervision of all the speaker circuits, suitable for 600 Speakers, and with accessories required to complete the system. The system shall be integral with Music Player / Extensions for making announcements using Telephone / mobile phone. The anNosunciator shall be of minimum 48 zones with LED key pad. The equipment shall be of same make as panel, UL listed.	Nos	1.00	250,000.00	250,000.00
7.4	Providing ,fixing , testing and commissioning of Amplifier with75W total output power at 70 VRMS including necessary housing and batteries and other accessories, UL 9th Edition Listed The amplifier shall have solid state circuitry, capable of AC/DC operation and shall be placed in proper amplifier racks. Each amplifier Not to be loaded to 100 %. The amplifier shall meet the technical requirements as specified in the technical specification.	Nos	36.00	25,000.00	900,000.00
7.5	Providing ,fixing , testing and commissioning of emergency telephone jack & With telephone Module, having an integrally mounted addressable module that monitors and reports contact status.	Nos	25.00	5,500.00	137,500.00
7.6	Providing ,fixing , testing and commissioning of Fire Man's Telephone Hand Set. The unit shall be as per technical specification. The quoted rate shall includes of housing for the telephone handset and all other accessories.	Nos	9.00	25,000.00	225,000.00
7.7	Providing ,laying , testing and commissioning of 2C x 1.5 armoured cable conforming to IS standards and specifications, with low impedance. The quoted rate shall inclusive of suitable saddles, hardware etc, complete.	Rmt	3,500.00	106.00	371,000.00
7.8	Providing, laying, testing and commissioning of voulume control unit for cabins.	Rmt	100.00	650.00	65,000.00
XXXII	8.0 Automatic Sprinkler System				
8.1	Providing ,fixing , testing and commissioning of GI Pipes conforming to IS 1239 Pt - I Heavy grade up to 150 mm & 3589,6mm thick for above 150 mm dia, with painting, suitable type of supports(fabricated by angles, channels, flats etc, with painting with fasteners), anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolts, malleable specials such as Reducers, Tees, elbows (as per IS 1239 Pt II), flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc. as per drawings.				
	a) 25mm nominal dia	Rmt	3,192.00	920.00	2,936,640.00
	b) 32mm nominal dia	Rmt	550.00	1,000.00	550,000.00
	c) 40mm nominal dia	Rmt	650.00	1,301.00	845,650.00
	d) 50mm nominal dia	Rmt	400.00	1,500.00	600,000.00
	e) 65mm nominal dia	Rmt	350.00	1,900.00	665,000.00
	f) 80mm nominal dia	Rmt	292.00	2,200.00	642,400.00
	g) 100mm nominal dia	Rmt	250.00	2,500.00	625,000.00
	h) 150mm nominal dia	Rmt	250.00	4,000.00	1,000,000.00
8.2	Providing ,fixing , testing and commissioning of PN 16 CI butterfly valves as per BS 5155 slim seal standard lever operated type with required flanges, nuts, bolts etc. complete.				
	a) 50mm nominal dia	Nos	11.00	3,851.79	42,369.69

	b) 80mm nominal dia	Nos	1.00	5,070.96	5,070.96
	c) 100mm nominal dia	Nos	2.00	6,785.71	13,571.42
	d) 150mm nominal dia	Nos	9.00	9,119.64	82,076.76
8.3	Providing ,fixing , testing and commissioning of standard/quick response type Sprinkler quartzoid bulb type with 15mm screwed end connection of 68/79 deg. C. temperature rating,K factor of 80 and sprinklers shall be UL Listed.				
	a) Pendent type/Upright - 68/79 deg	Nos	1,400.00	531.25	743,750.00
	b) Side wall sprinkler - Extended Coverage- quick response	Nos	20.00	632.14	12,642.80
	c) Pendent type/Upright - 79 deg	Nos	10.00	700.00	7,000.00
8.4	Providing ,fixing , testing and commissioning of flow switch on sprinkler distribution header on each floor and shall be connected to fire alarm panel through cable.	Nos	11.00	9,182.14	101,003.54
8.5	Providing ,fixing , testing and commissioning of 20 mm Gun metal chrome finished Ball valves with fittings of screwed end type.	Nos	2.00	1,200.00	2,400.00
8.6	Providing ,fixing , testing and commissioning of Stainless steel corrugated flexible pipe(hose) for dropping sprinklers below false ceiling, pipe shall be UL Listed & FM approved, 16 bar pressure rating and 1500 mm long 25 mm dia with union / reducer collar, clamps etc. as required.	Nos	1,400.00	1,866.07	2,612,498.00
8.7	Providing ,fixing , testing and commissioning of 150mm dia.hydraulically operated Sprinkler control valve, with water motor gong bell and trims as required, pressure gauges, drain valves, ball valves, check valves, strainers etc. complete. Alarm valve shall be UL Listed/FM approved	Nos	1.00	49,062.50	49,062.50
8.8	Providing ,fixing , testing and commissioning of quick response extended type Sprinkler quartzoid bulb type with 15mm screwed end connection of 79 deg. C. temperature rating,K factor of 115 and sprinklers shall be UL Listed.	Nos	100.00	575.00	57,500.00
8.9	Expenditure for Testing of healthyness of the firefighting system Installed in the LHO Building, Approval of related drawings and issuance of Fire Service certificate (Fire NOC) from Odisha Fire Brigade etc.	Nos	1.00	250,000.00	250,000.00
XXXIII 9. Water Curtain System					
9	Supplying, installing, testing and commissioning of MS pipes of class 'C' to confirm IS 1239, malleable specials extruded type, such as Reducers, elbows, flanges. The pipes shall be painted with primer & Paint using approved type, Galvanized, supports at standard spacing, anchor fasteners, bolts, nuts, clamps, rails "U" & threaded bolt, Including cutting, Welding, fixing in / on walls, ceiling by using the supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, Floors, making bore holes in walls / floor and making them good with Non shrink filler material (as approved by Architect)in bore holes / finished in cement mortar etc. complete. (Above Ground)The quoted rate shall includes of Acrylic Fire stop Sealant (as per IS 12458:1988) in the opening for pipes passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.				
	a) 80mm nominal dia	Rmt	1.00	1,918.75	1,918.75
	b) 65mm nominal dia	Rmt	20.00	1,642.86	32,857.20
	c) 50mm nominal dia	Rmt	80.00	1,303.57	104,285.60
	d) 40mm nominal dia	Rmt	15.00	1,052.68	15,790.20
	e) 32mm nominal dia	Rmt	6.00	866.07	5,196.42
	f) 25mm nominal dia	Rmt	15.00	757.14	11,357.10
9.1	Supplying, Installing, testing and commissioning motorized butterfly valves, with required flanges, nuts, bolts etc. complete. The valve shall be fitted with supervisory switch for monitoring. It shall operate 115 VAC & 230 VAC-1Ph / 24 VDC / 415 VAC-3 Ph				
	a) 50mm dia	Nos	2.00	18,575.00	37,150.00
9.2	Supplying, installing, testing and commissioning of water curtain with 15 mm screwed end connection and K 23 factor & angle of spray shall be as per detail engineering. Nozzle shall be made of brass with Chrome finished.	Nos	20.00	713.39	14,267.80
XXXIV G) TELECOM & DATA NETWORKING					
Make: D link/Molex/Legrand					
A	ACTIVE DATA				
1	CAT 6 LAN Cable				
	Supply, Install, testing & commissioning 4-pair Supply, Install, testing & commissioning of UTP 4 pair 23 AWG CAT 6 LAN Cable in the existing surface/ recessed steel as required. 305 mtr per Box. Blue/Orange/White/Green in colour conforming to the following standards like ANSI EIA/TIA 568, IEC 11801, Cable Dia 6.1 ± 0.3, isolator for uniform separation for all pairs.Cat6 UTP Cable. (Make : D-link / Molex /Legrand)	Mtrs	40000	35.00	1,400,000.00
2	CAT 6 LAN Cable with PVC Conduit				

	Supply, Install, testing & commissioning 4-pair Supply, Install, testing & commissioning of UTP 4 pair 23 AWG CAT 6 LAN Cable in the PVC conduit as required. Cable 305 mtr per Box. Blue/Orange/White/Green in colour conforming to the following standards like ANSI EIA/TIA 568, IEC 11801, Cable Dia 6.1 ± 0.3, Isolator for uniform separation for all pairs. (Make : D-link / Molex /Legrand)	Mtrs	5750	55.00	316,250.00
3	OUTLET POINT				
	Supply, Install, testing & commissioning of Cat6 Tool less Information outlet for Data & Voice. Cat6 UTP RJ45 socket with built in crimping mechanism with capability of determination without refreshing the wires. Tool less RJ45 Information outlet with insertion cycle (in & out) upto 2500 times (I/O) along with front side Label holder and transparent shutter. The Information Outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3bt standard (USER SIDE) (Make : D-link / Molex /Legrand)	Nos.	502	290.00	145,580.00
4	PATCH PANEL				
	Supply Install, testing & commissioning of 24 port Cat 6 19" Patch Panel (loaded) mounted on the same panel by using toolless connector. Have a metal structure enabling them to be durably fixed to the uprights of the 19" chassis and assuring automatic grounding between toolless RJ-45 connectors, the panel and the 19" uprights of the enclosure.(Make : D-link / Molex /Legrand)	Nos.	21	6,100.00	128,100.00
5	PATCH CORD				
	Supply, Install, testing & commissioning of CAT6 UTP 24 AWG Patch Cord - 2 mtr with cross separator Factory crimped copper patch cord with tensile strength of > 50N. Conforming to the following standards like EN 50173, ISO/IEC 60603-7 & 11801/IEC 60332-1, UL VW-1 with tensile strength >50N, Number of Insertion upto 2500 Duty Cycle blue in color Rack END. (Make : D-link / Molex /Legrand)	Nos.	1004	235.00	235,940.00
7	FACEPLATE 2 PORT				
	Supply Install, testing & commissioning Faceplate Suitable for 2 ports, including GI back box. Flush design constructed of Polycarbonate Hi-Grade Plastic FR Grade with ABS underplate & CRCA metal frame. The face plate should be compatible for Cat5e, Cat6 range of RJ45 and different types of AV connectors to match color of receptacle/switch cover plates and Provide labeling + all civil work required for fixing the box & face plate and other accessories to be included, (Make : D-link / Molex /Legrand)	Nos.	289	145.00	41,905.00
8	FACEPLATE 4 PORT				
	Supply, Install, testing & commissioning Faceplate Suitable for 4 ports, including GI back box, Flush design constructed of Polycarbonate Hi-Grade Plastic FR Grade with ABS underplate & CRCA metal frame The face plate should be compatible for Cat5e, Cat6 range of RJ45 and different types of AV connectors to match color of receptacle/switch cover plates, and Provide labeling + all Civil work required for fixing the box & face plate and other accessories to be included, (Make : D-link / Molex /Legrand)	Nos.	12	205.00	2,460.00
9	Cat 6A non-keyed RJ45				
	Supply, Install, testing & commissioning Cat 6A non-keyed, 8-pin modular, RJ45 Jack constructed of high impact rated, thermoplastic housing jack with Strain relief and bend limiting boot (USER SIDE). Use qty. as necessary at site. Cat6 U/UTP RJ45 socket with built in crimping mechanism with capability of re-termination without refreshing the wires. Toolless RJ45 Information outlet with insertion cycle (in & out) upto 700 times (I/O) along with front side Label holder and transparent shutter. The Information Outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3bt standard for POE++ application (USER SIDE),	Nos.	100	290.00	29,000.00
10	PATCH PANEL LOADED				
	Supply Install, testing & commissioning of 24 port Cat 6 19" Patch Panel (loaded) mounted on the same panel by using toolless connector. Have a metal structure enabling them to be durably fixed to the uprights of the 19" chassis and assuring automatic grounding between toolless RJ-45 connectors, the panel and the 19" uprights of the enclosure, (Make : D-link / Molex /Legrand)	Nos.	4	6,100.00	24,400.00
B	VOICE				
11	RJ11 SOCKETS				
	Supply, Install, testing & commissioning of Cat6 Tool less Information outlet for Data & Voice. Cat6 U/UTP RJ11 socket with built in crimping mechanism with capability of re-termination without refreshing the wires. Tool less RJ45 Information outlet with insertion cycle (in & out) upto 2500 times (I/O) along with front side Label holder and transparent shutter. (USER SIDE) (Make : D-link / Molex /Legrand)	Nos.	476	290.00	138,040.00

12	MDF box 150 PAIR				
	Supply, Install, testing & commissioning of 150 pair MDF box with 10 pair each Krone connectors, Metal powder quoted enclosure, lock n key, bottom / Top cable openings with rubber gliends fro dust protections.(As per customisation)	Nos.	3	4,525.00	13,575.00
13	MDF box 500 PAIR				
	SUPPLY/INSTALLATION OF 500 pair MDF box with 10 pair each krone connectors, Metal powder quoted enclosure, lock n key, bottom / Top cable openings with rubber gliends fro dust protections. (As per customisation)	Nos.	1	14,600.00	14,600.00
14	JELLYFEILD RAISER				
	Supply/Installation of 100 PAIR jellyfeild flexible riser cable (Make : Polycab/Delton)	Mtr.	200	735.00	147,000.00
C	FIBER COMPONENTS				
15	12 CORE OS1/OS2				
	Supply, Install, testing & commissioning of 12 core OS1/OS2 - loose tube outdoor/corrugated steel tape with Unitube construction with double embeded steel rod (1x60) confirming to IEC/EN 60793-2-50 class B1.3 ITU G.652.D EN 50 173-1:2007 ISO/IEC 11801:2002 ISO/IEC 24702:2006 - through existing GI/HDPE/ Hume pipe or on cable trays inside the cable duct including all necessary fixing accessories e.g. cable ties, hardware etc. (Make : D-link / Molex	Mtr.	75	358.00	26,850.00

16	FIBER PANEL 6 PORT				
	Supply, Installation, testing and commissioning of Single Mode 6 Port Loaded Fiber Panel including inbuilt Adapters, Splice tray, Pigtailed etc.) at 2,3 & 4 th floor (Make : D-link / Molex /Legrand)	Nos	3	10,500.00	31,500.00
17	FIBER PANEL 12 PORT				
	Supply, Install, testing & commissioning of 19-inch rack mount loaded 12 Ports fiber, patch panel for OS2 (Max 48 no's of fiber terminations) and loaded with adapter, Plates & Splic tray etc. (Make : D-link / Molex /Legrand)	Nos	1	15,000.00	15,000.00
18	LOADED FIBER PANEL 12 PORT				
	a) Supply, Installation, testing and commissioning of Single Mode 12 Port Loaded Fiber Panel including inbuilt Adapters, Splice tray, Pigtailed etc.) (Make : D-link / Molex /Legrand)	Nos	18	1,700.00	30,600.00
	b) 12 core fiber splicing with OTDR testing.	Lot	1	870.00	870.00
D	RACK				
19	Networking Rack - 27U				
	Supply, Install, testing & commissioning of Networking Rack - 27U - 600W - 800D - Black Fine Tex., Front Glass Door - 27U - 600W - Cam Lock - Ventilation - Black Fine Tex. - Assembly, Rear Door - 27U - 600W - Cam Lock - Square Slot Ventilation - Black Fine Tex. - Assembly, 3 Inch Castor Set , Double Fan For Mcab/ProTek FS Cantiliver Tray - 02U - 400D - Pastal Fine Tex. - Assembly, Metal Cable Manager - 01U - Plastic Cable Loop's Mountable - Black Fine Tex. - Assembly, Power Distribution Unit - 06/16 Amp Indian-Standard - 10 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Length - Black Fine Tex. - Assembly Mounting Hardware Packet { Containing 1 Nos Each Of 3 } - 20 Set (Make: Dlink Netrack Legrand)	Nos	3	36,250.00	108,750.00
20	Networking Rack - 42U				
	Supply, Install, testing & commissioning of Networking Rack - 42U - 800W - 800D - Pastal Fine Tex. Honeycomb (Performax) Flat Plain Double Door - 42U - 800W - Cam Lock - Black Fine Tex. - Assembly 3 Inch Castor Set Four Fan For Mcab/ProTek FS Monitor Tray - Ventilation - 495W - 700D - Black Fine Tex.- Assembly Metal Cable Manager - 01U - Plastic Cable Loop's Mountable - Black Fine Tex. - Assembly Power Distribution Unit - 06/16 Amp Indian-Standard - 12 Socket - Single Pole / Screw Mountable / 32 Amp MCB / Alternating Current - Industrial Plug 32A with Power Cable 6 sq.mm 3 meter Length - Black Fine Tex. - Assembly Mounting Hardware Packet { Containing 1 Nos Each Of 3 } - 20 Set (Make - Rittal/Netrack/Legrand)	Nos	1	65,000.00	65,000.00

21	OTHERS				
	Hardware Packets, ferruling, tagging, valcrown tie (Make: Dlink, Netrack, Legrand)	Lot	1	15,000.00	15,000.00
22	FLUKE TESTING				
	The contractor to submit, 25 year performance warranty along with Fluke test report with the OEM & the company	Per Point	502	150.00	75,300.00
	TOTAL AMOUNT FOR RENOVATION WORK				195,573,255.58
	Rate quoted in percentage (above/below/at par)	%	0		-00
	Final quoted amount				195,573,255.6

XXXV	H) BUY BACK ITEMS	Unit	Floor	Qty	Rate	Amount
A	After removal of the various items as mentioned in Section V (Dismatting & demolition), it is responsibility of the contractor to remove the following items from the site and make the site free from all encumbrances for taking up interior furnishing works. The proposed price of scraps includes transportation, loading & unloading charges, for which no further claims shall be entertained. The amount due to Bank shall be deducted from running bill.					
1	Big Cabinet	EACH	4	27	1500.00	162000.00
2	Work station	EACH	4	61	500.00	122000.00
3	Small Cabinet	EACH	4	36	1000.00	144000.00
4	Wall Fan	EACH	4	37	250.00	37000.00
5	Ceiling Fan	EACH	4	21	350.00	29400.00
6	Removal & buy back of Indoor & outdoor AC units including copper pipe etc.	EACH	4	4	3000.00	48000.00
7	Big Light (2 feet x 2 feet) LED 36 Watt	EACH	4	58	450.00	104400.00
8	Small Light up to 18 Watt Down Light	EACH	4	59	175.00	41300.00
9	Electrical Cables, Wires					
	a) for internal wiring	LS	4	1	100,000	400000.00
	b) for common wiring inter connecting the floors & panels	LS	1	1	100,000	100000.00
10	Removal & buy back of Main LT Panel	EACH	1	1	250,000	250000.00
11	Removal & buy back of APFC Panel	EACH	2	2	10,000	40000.00
12	Removal & buy of back HVAC Panel	EACH	1	1	45,000	45000.00
13	Removal & buy back of HVAC Control Desk	EACH	1	1	15,000	15000.00
14	Removal & buy back of Switch, DB Box & Floor Panel	LS	1	1	80,000	80000.00
15	Removal of existing Fire Fighting Accessories like Hydrant system, Wet riser, hose reel, Motors(10 nos 75 HP, one number 10 HP), Fire Engine(1 Nos Kirloskar) & pipeline basement to 6th floor and other accessories	LS	1	1	450,000	450000.00
16	Removal & buy back of PA addressing System etc	LS	1	4	3,000	12000.00
17	Damaged Chairs & furnitures, partition, glass, doors, GI channels, casement windows, false ceiling materials, Sanitary fixtures, Switch board, Data cable, telephone cable etc.	EACH	4	1	43,500	174000.00
B	Buy back of following HVAC items. However, the removal of same is in the scope of HVAC vendor.					
18	AHU(2nd-1no, 3rd-2 no.,4th-1 no.,5th-2) including 12 nos. starter panel	EACH	1	6	29,700	178200.00
19	Cooling tower base	LS	1	1	35,800	35800.00
20	Ventilation & Pressurization duct with all accessories	LS	1	1	52,000	52000.00
21	Condenser & Chilled water line(MS pipeline of various diameter), valves etc. Approximately 350 Mtr	LS	1	1	52,000	52000.00
22	AC Ducts at all floors(2nd to 5th floor)	LS	1	1	71,405	71405.00
	TOTAL(fixed by the Bank)					2643505.00
	Rate quoted in percentage (above/at par)	%	0		-00	0.00
	TOTAL AMOUNT FOR BUY BACK ITEMS					2643505.00
Note:	i) The percentage quoted for buy back items should be more than zero and negative not accepted.					
	ii) The rate quoted after offering percentage rate is inclusive of all statutory taxes, cess, octroi, transportation for each item but excluding GST.					
	iii) The percentage rate quoted is applicable to all items except buy back items.					
	SUMMARY					
	TOTAL AMOUNT FOR RENOVATION WORK					195,573,255.58
	TOTAL AMOUNT FOR BUY BACK ITEMS					2,643,505.00
	TOTAL AMOUNT OF THE PROJECT					192,929,750.58