



BIDDING DOCUMENT
for
Construction of Enterpinership Development
Centre, Incubation Centre and Start-up Hub

VOLUME-II
(Price Bid)

Issued on : 17th April 2021
Invitation for Bids No : B. 11030/144 (Proc-Gen)/2018-ASCL/109
Package No : MIZ-AIZ-054/RMSM/11
Employer : AIZAWL SMART CITY LIMITED, AIZAWL
State : MIZORAM
Country : INDIA



AIZAWL SMART CITY LIMITED, AIZAWL

Price Bid

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Price Bid.

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Letter of Price Bid

Date:

Contract Package No.:

Invitation for Bid No.:

To:.....

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents and the Technical Bid submitted for the following Works:
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodology for their application are:
- (e) Our Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Schedules

Bill of Quantities

Preamble

(A) General

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Specifications and Drawings.
2. For the construction of works, the quantities given in the Bill of Quantities are estimated quantities, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the agreed individual item rates. Bills will be raised monthly. The method of measurement shall be as per norms laid out by the Bureau Of Indian Standard's publication IS: 1200 (Latest Editions with updated amendments).
3. A rate or price shall be entered against each item in the Priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a price or rate shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
4. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
5. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. Reference to relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.
6. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out in the Contract. Import duty and excise duty on materials and goods to be imported shall not be included in the Unit Rates
7. Arithmetic errors will be corrected by the Employer as follows:
 - a. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Employer there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
 - b. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - c. if there is a discrepancy between words and figures, the Amount (In INR) in words shall prevail, unless the Amount (In INR) expressed in words is related to an arithmetic error, in which case the Amount (In INR) in figures shall prevail subject to (a) and (b) above.
8. Rock is defined as all materials that, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.

(B) Work Items

The Bill of Quantities contains Schedules as below:

Entrepreneurship Development, Incubation Centre and Startup Hub at Aizawl

ABSTRACT COST

The quoted rate and amount includes inclusive of taxes, duties and cess including all cost payable by the successful Bidders in executing the subjected contract package.

PRICE SUMMARY			
S. No.	Description		Amount
A	CIVIL WORK		
1	CONCRETE WORK		
2	REINFORCED CEMENT CONCRETE		
3	BRICK WORK		
4	MARBLE AND GRANITE WORKS		
5	WOOD WORK		
6	STEEL WORK		
7	FLOORING		
8	CEILING		
9	FINISHING		
10	DISMANTLING AND DEMOLISHING		
11	ALUMINIUM WORK		
12	WATER PROOFING		
13	STONE CLADDING FOR NAME PLATE		
	Subtotal	A	
B	Other Works		
14	OFFICE FURNITURE NON SCHEDULE ITEMS		
15	Exterior Display		
16	Lift Work (Capacity-7 Passangers)		
17	Projector with Home Theatre (With AMC - 3 years)		
18	Appliances		
19	Acoustical Treatment		
20	Interactive Display Panel for the reception		
21	Audio Visual System		
22	Façade Work - SOR Items		
	Façade Work - MR Items		
23	Internal water supply & Sanitary Installations		
24	Internal electric Installations works		
25	IP BAED CCTV		
26	Fire Fighting (with sprinkler system)		
	Subtotal	B	
C	Contingency (Fixed amount)	C	12,33,000.00
	Grand Total Amount	A+B+C	

DETAILED BILL OF QUANTITIES (BOQ)

The quoted rate and amount includes inclusive of taxes, duties and cess including all cost payable by the successful Bidders in executing the subjected contract package.

Sl. No.	Particulars/Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
A. CIVIL WORK:					
<u>1. CONCRETE WORK</u>					
1	Providing and laying in position cement concrete of specified grade excluding cost of centring and shuttering -All work upto plinth level				
	1: 4 :8 (1 cement : 4 course sand : 8 stone aggregate 40 mm nominal size)				
	Provisonal	Cum	5.00		
2	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 course sand : 4 stone 12.5 mm size).				
	Provisonal	Cum	2.00		
3	Extra for providing and mixing water proofing material in doses by weight of cement as per manufacturer's specification				
	Provisonal	Per Bag of Cement	1.00		
4	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg. per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.				
	Provisonal	Sqm	2.00		
<u>2. REINFORCED CEMENT CONCRETE</u>					
1	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. "(Note:Cement content considered in this item is @ 330 kg/cum." Excess/less cement used as per design mix is payable/recoverable separately).				
	All work form plinth level upto floor V level				
		Cum	6.70		
2	Extra for providing richer or leaner mixes respectively at all floor levels.				
	Providing M-25 grade concrete instead of M-20 grade BMC/RMC. (Note:- Cement content considered in M-25 is @ 330 Kg/cum)				
	Same as RCC	Cum	6.70		

3	Centering and shuttering including strutting, propping etc. And removal of form for all heights			
	Walls including attached pillars, buttresses, string course, etc.	Sqm	10.00	
4	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj, etc.			
		Sqm	17.27	
5	Lintels, beams, plinth beams, girders, bressumers and cantilevers			
		Sqm	21.03	
6	Columns, pillars, piers, abutments, posts and struts.			
	For Misc Provisions	Sqm	5.00	
7	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.			
	Thermo-Mechanically Treated bars of grade Fe-500 or more			
	RCC x 110			
	Cum @ 110 kg/Cum	Kg	736.72	
3. BRICK WORK				
1	First class brick in superstructure above plinth level upto floor V level in :			
	In cement mortar 1:6 (1 cement : 6 coarse sand)			
	Basement	Cum	20.05	
2	Half Brick Masonry with first class brick in superstructure above plinth level upto floor V level:			
	In cement mortar 1:4 (1 cement : 4 coarse sand)			
	Internal Brick work			
		Sqm	379.51	
3	Extra for providing and placing in position 2 Nos. 6mm dia.M.S. bars at every third course of half brick masonry.			
	Qty Same as Half B/w	Sqm	379.51	
4. MARBLE & GRANITE WORK				
1	Coloured polished granite slab of size not less than 1200mm x 600mm x 20mm thick in flooring, treads of steps and landings laid over 20mm (average) thick base of cement mortar 1:4 and jointed with white cement slurry including rubbing and polishing complete.			
	General red			
		Sqm	198.35	
2	Coloured polished granite slab 20mm thick in skirting, riser of steps, dado, vertical face of pedestal etc. laid on 12mm (average) thick base of cement mortar 1:3 and jointed with white cement slurry including rubbing and polishing complete.			
	general red			
	Skirting @ 15% of Flooring	Sqm	29.75	

	Staircase Risers	Sqm	24.60		
			54.35		
3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	Granite work				
	For Counters				
		Rm	30.00		
4	Extra for fixing marble/granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.				
	For Counters				
			10.00		
5	Extra for providing opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.				
	For Counters				
			16.00		
6	stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) & cement slurry @ 3.3kg/sqm including pointing in white cement complete.				
	For Wall in Director's Toilet	Sqm			
			21.00		
7	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the case with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per direction of Engineer-in-charge and finished smooth.				
	Granite Stone of approved shade				
	For Urinal Partitions	Sqm	9.00		
5 WOOD WORK					
1	Providing 1st class local wood dressed in frames of chaukat for doors, window, clerestory windows fixed in position.				
	Door Frames				
	Door D1	Cum	1.70		
2	Providing and fixing 1st class local wood panelled shutters for doors etc. including M.S. butt hinges with necessary screws, etc. complete.				
	35 mm thick				
		Sqm	75.66		
3	Providing and fixing cupboards shutters with frame of 25mm thick first class local wood and well matched plywood on external side including Butt Hinges, handles and locking arrangements complete.				
	Using 4mm thick Teak Ply.				

	Library Storage	Sqm	33.52			
4	Providing and fixing wooden pelmet with 25mm dia wooden curtain rod as bracket including sleeves etc. complete to be fixed on masonry or concrete work).					
	1st class local wood					
	12 mm thick 100 cm wide Pelmet					
	Windows					
		W	Rm	76.72		
5	Providing and fixing plain, chamfered edged 1st class local wood beading with screws or nails for walls, ceiling, etc. Complete. (Basis:CPWD Analysis of Rates, 2003 Vol-III-375 & 376)					
	50mm x 12mm					
			W	Rm	76.72	
6	Providing and fixing aluminium sliding door bolts (aldrops) anodised transparent or dyed to required colour or shade with nuts and screws etc. complete.					
	300x16 mm					
			No	44.00		
7	Providing and fixing Aluminium Tower Bolts (Socket Bolts anodised transparent or dyed to required colour or shade with necessary screws etc. complete.					
	250 mm					
		Door D1	No	43.00		
8	150 mm					
		Qty Same as 14.51 a	No	43.00		
9	Providing and fixing Aluminium handles anodised transparent or dyed to required colour or shade with necessary screws, etc. complete.					
	125mm					
		Qty Same as 14.51 a	No	43.00		
10	Providing and fixing Curtain Rod with necessary screws and fittings, etc. complete					
	Bright finished					
		Qty same as wooden palmet	Rm	76.72		
11	Providing and fixing Imex window fittings including necessary screws complete. Friction hinges for Aluminium windows etc.					
		For Windows	No	47.00		
12	Providing and fixing bright finished brass two lever mortise door lock with necessary screws, etc. complete.					
	Knob type					
		D1, D2 & D4	No	19.00		
<u>6 STEEL WORK</u>						
1	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and					

	bolted with special shaped washers etc. complete.				
	Provisional	Kg	500		
2	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories and stainless steel dash fastners, stainless steel bolts etcf. of 80 cm high in staircase, etc. consisting of 75mm for rail and ost, 64 mm for longitudinal intermediate rail and 25 mm of vertical section, spacing 125 mm interval and as per approval of Engineer-in-charge.				
	Staircase				
	New Staircase railing	Sqm	51		
7. FLOORING					
1	Cement concrete flooring 1:2:4 (1 cement : 2 sand : 4 well graded stone aggregate 20 mm size) finished with a floating coat neat cement including cement slurry etc. complete but excluding the cost of nosing of steps etc. 40mm thick with 20mm nominal size stone aggregate				
	Provisional				
		Sqm	10.00		
2	Providing and fixing glass strips 40 MM wide and 4 mm thick in joints of terrzi/cement concrete floors.				
	In Cement Concrete Flooring	Rm	15.50		
3	Kota stone slab flooring over 20mm (average) thick base laid over cement mortar 1:4 and jointed with white cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.				
	40 mm thick.				
		Sqm	8.12		
4	Providing and fixing laminate flooring of approved quality and make on existing levelled floor complete.				
		Sqm	300.54		
5	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to 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 course sand) and jointing with cement slurry @ 3.3 kg per sqm. including pointing in white cement mixed with pigment of matching shade complete.				
	Basement				
		Sqm	335.83		

6	Providing and ceramic glazed floor tiles of size 300x300mm or more (thickness to be specified by manufacturer) of 1st quality conforming to IS:15622 of approved make in all colours, shades, except white, ivory, grey, fume red brown, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 course sand) including pointing the joints with white cement and matching pigments etc. complete as per designed colour.			
	Gloss Finish			
		Sqm	55.59	
7	Providing & laying vitrified floor tiles in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08% and conforming to IS:15622, of approved make, in all colours and shades, in skirting/dado, riser of steps, laid with cement based high polymer modified quick set tile adhesive conforming to IS 15477 In avg 6mm thickness including grouting of joints (payments for grouting of joints to be made separately).			
	Nano tech (Single charge)			
		Sqm	246.53	
8	Grouting the joints of flooring tiles having joints of 3 mm width using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10kg of hardener and 0.20 kg of resin per kg) grouting and finishing complete as per direction of Engineer-in-charge.			
	Qty Same as item 12.15	Sqm	246.53	
8 CEILING				
1	Providing and fixing recessed ceiling with 12.5 mm tapered Gypboard which includes providing and fixing G.I. perimeter funnels with nylon sleeves and screws intermediate channels fixed to GI seat steel expansion fastener etc. all complete including rounding, filling and finishing the tapered and square of the board with jointing compound and two coats of primer suitable to Gypboard.			
		Sqm	404.00	
2	Supplying, fitting and fixing calcium silicate board ceiling with necessary screws etc. complete excluding frame work of base and beading. (Hilux or equivalent).			
	Toilets Ceiling			
	BASEMENT			
		Sqm	55.59	
3	Providing and fixing G.I steel frame works for ceiling lining consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary screws, etc. complete.			
	Qty Same as 15.19	Sqm	55.59	
9 FINISHING				
1	12 mm cement plaster 1:6 (1 cement : 6 fine sand)			
	Half Brick Work 1 Side	Sqm	380	
	Provisional	Sqm	20	
			400	
2	15 mm cement plaster 1:6 (1 cement : 6 fine sand)			

	Half Brick Work 1 Side	Sqm	380		
			380		
4	6 mm cement plaster to ceiling 1:4 (1 cement : 4 fine sand)				
	Provisional	Sqm	50		
			50		
6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plasterd wall surface to prepare the surface even and smooth complete.				
	Basement				
		Sqm	1,056		
8	Applying one coat of Efflorescence resistant penetrating primer for Raincoat, Newcoat & Heatshield of apporoved brand and manufacture on wall surface, cement primer of approved brand and manufacture on wall surface.				
	Misc. Provisional	Sqm	50		
9	French spirfit polishing (two or more coats) on new works including a coat of wood filler: For both side of Shutters				
	Door D	Sqm	104.65		
10	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications. On steel work				
	Provisional	Sqm	50		
11	On concrete work				
	Provisional	Sqm	10		
12	White washing with lime to give an even shade: New work (Three of more coats)				
	Provisional	Sqm	50		
13	Painting with silicon and acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces: Two coats				
	Qty Same as Putty				
		Sqm	1,056		
14	Painting two or more coats on G.I sheet with antifungus roof paint of approved brand and manufacture on new work to give an even shade				
	Provisional	Sqm	50		
15	Wall painting with interior emulsion paint of approved brand and manufacture on new work (two or more coats) to give an even shade. Premium interior emulsion like Velvet touch Luxol silk etc.				
	Provisional				
		Sqm	100.00		

17	Applying priming coat with ready mixed red oxidized zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works.			
	Qty Same French Spirit polish	Sqm	104.65	
10 DISMANTLING & DEMOLITION				
1	Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:			
	In cement mortar			
		Cum	58.76	
2	removing mortar from bricks & cleaning bricks including stacking within a lead of 50mtr. (stacks of cleaned bricks shall be measured)			
	from brick work in cement mortar			
	Dismantled B/W bricks cleaning & stacking	Cum	29	
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. and stacking within 50 metres lead:			
	Of area 3 Sq. metres and below			
		Each	42	
4	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. and stacking within 50 metres lead:			
	Of area beyond 3 sq. metres			
		Each	4	
5	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :			
	Upto 10 mm thick			
		Sqm	212	
6	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :			
	Thickness above 10 mm upto 25 mm			
	Provisional Qty	Sqm	222	
7	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :			
	Thickness above 25 mm upto 40 mm			
	Provisional Qty		50	
8	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
	For thickness of tiles above 25mm and upto 40mm			
		Sqm	654	
9	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.			

	Provisional Qty	Sqm	50.00		
10	Carriage charge by mechanical means including loading, unloading and stacking etc. upto 10 kms leads of 1210/42 model TATA truck.				
	Trips for Dismantled Garbade Shifting	Trips	50.00		
11	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead:				
	All floors lift area	Sqm	13.41		
11 ALUMINIUM WORKS					
1	Supplying of glass panes at site.				
	4mm thick tinted glass.				
		Sqm	40.1		
2	Extra for providing 4mm thick frosted glass panes instead of ordinary glass panes 4mm thick in paneled and glass doors, windows etc. (Area of Doors, windows are to be measured)				
	V1	Sqm	3.24		
3	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868. (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene flt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately). For fixed portion				
	Powder coated				
		Sqm	160.33		
4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS: 6315 market, Hardwyn make (model 3000) or equivalent for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
	With stainless steel cover plate				
	For Glass doors				
		no	4		
5	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and directions of Engineer-in-charge complete. Upto 5mm depth and 5 mm width.				
		Rm	145.63		

6	providing & fixing 12 mm thick prelaminated three layers medium density (exterior grade) particle board grade 1 type 2 confirmation to is : 12823 bonded with phenol formaldehyde synthetic resins of approved brand & manufacture in paneling fixed in aluminium doors ,windows shutters & partion frames with c.p brass/stainless steel screws etc.complete as per architectural drawings & directions of engineer in charge.				
	pre-laminated particle board with decorative lamination on both side.				
	Ground Floor				
	Partition Wall				
	Qty Same as 11.03 c	Sqm	160.33		
12 WATER PROOFING					
1	Applying double coated cement slurry with water proofing chemical (SUPER latex chemical) in proportion 1 : 4 : 7 (1latex : 4water : 7 cement) including cleaning the treated surface with brushes etc. @ 0.158kg/sqm.				
		Sqm	88.49		
13 STONE CLADDING FOR NAME PLATE					
	Coursed rubble masonry (second sort) with hard stone in superstructure above plinth level & upto floor five level with:				
	in cement mortar 1:4 (1 cement : 4 coarse sand)				
		Cum	6.00		

B. OTHER WORKS

14 OFFICE FURNITURES NON SCHEDULE ITEMS					
1	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).				
		Sqm	9.11		
3	Providing and fixing frameless full height partition wall with 12 mm thick toughened glass of approved brand and manufacture, including providing and fixing top & bottom arrangement and making necessary holes etc. for fixing as required all complete as per direction of Engineer-in-charge.				
		Sqm	18.78		
4	Sofa - 3 Seater (Godrej Rio 3 seater or equivalent) as per direction of Engineer-in-charge.				
		Nos	6.00		
5	Sofa - 2 Seater (Godrej Rio 2 seater or equivalent) as per direction of Engineer-in-charge.				
	Centre Director				

		Nos	2.00		
6	Sofa - 3 Seater (Godrej Facet 3-Fabric, steel gray or equivalent) as per direction of Engineer-in-charge.				
	For Director's Room				
		Nos	1.00		
7	Sofa - 1 Seater (Godrej Rio 1 Seater or equivalent) as per direction of Engineer-in-charge.				
	Program Assistant, Centre Coordinator, Project Coordinator				
		Nos	6.00		
8	Office Table (Godrej Ascent table 1600 D x 765 H or equivalent) as per direction of Engineer-in-charge.				
	a) Librarian's desk and office (Basement)				
		Nos	2.00		
9	b) Executive Desk (Finnese table with Eru and Pedestal 1800 W x 900 H x 740 D or equivalent) as per direction of Engineer-in-charge.				
	Program Assistant, Centre Coordinator, Project Coordinator				
		Nos	3.00		
10	Executive Desk (Godrej Topaz table 1800 W x 900 H x 750 D or equivalent) as per direction of Engineer-in-charge.				
	c) Executive Desk (Director's Room)				
		Nos	1.00		
11	Reception table (Godrej First Impression or equivalent) as per direction of Engineer-in-charge.				
	Reception Table				
		Nos	1.00		
12	Revolving Chair				
	a) Executive Chair (Godrej Marvel or equivalent) as per direction of Engineer-in-charge.				
	Director's Room				
		Nos	1.00		
13	b) Executive Chair with headrest (Godrej Greta with headrest or equivalent) as per direction of Engineer-in-charge.				
	Program Assistant, Centre Coordinator, Project Coordinator				
		Nos	3.00		
14	c) Office Chairs (Godrej 5D02 or equivalent) as per direction of Engineer-in-charge.				
		Nos	45.00		
15	d) Visitor's Chairs (Godrej PCH-7112 R or equivalent) as per direction of Engineer-in-charge.				
		Nos	46.00		

16	Conference Table (Godrej Encarta or equivalent) as per direction of Engineer-in-charge.				
	Conference Room & Archive Room	Nos	2.00		
17	Lounge Table (Godrej Versatila V2 or equivalent) as per direction of Engineer-in-charge.				
		Nos	4.00		
18	b) Faculty Lounge Table (Godrej Versatile V3 or equivalent) as per direction of Engineer-in-charge.				
	Faculty Louge				
		Nos	1.00		
19	Steel Book Rack				
	a) Single Sided Steel Book Rack Base Unit	Nos	1.00		
20	a) Single Sided Steel Book Rack Add-on Unit				
		Nos	3.00		
21	c) Stand for Single Sided Steel Unit				
		Nos	4.00		
22	Centre Table (Glazed) (Godrej PISA Centre Table or equivalent) as per direction of Engineer-in-charge.				
		Nos	2.00		
23	Side Table (Glazed) (Godrej PISA Side Table or equivalent) as per direction of Engineer-in-charge				
		Nos	6.00		
24	Steel Almira (Godrej Storwel or equivalent) as per direction of Engineer-in-charge				
		Nos	10		
25	3 - Seater Nano Perch Stainless Steel (Godrej or equivalent) as per direction of Engineer-in-charge				
	(Entrance Lobby)				
		Nos	1		
26	Bar Stool (Godrej unwind with handrest or equivalent) as per direction of Engineer-in-charge				
	(Lounge area)	Nos	8		
27	Desklet Chairs (Godrej unwind with Desklet with handrest or equivalent) as per direction of Engineer-in-charge				
		Nos	134		
28	Providing & Installation of 14 Seater Conference Table of Size 4200 W x 1500 D as per direction of Engineer-in-charge.				
	Library Table				
		Nos	1		

29	Providing & Installation of Customized Furniture by 19 mm plyboard & premium laminate on the top, all edges should be done with edge binding tape of premium quality.			
	Audio Visual Room Semi circular Table			
		Sqft	32	
30	Providing & Installation of Modular Workstations of Size 1200 W x 600 D by wooden plyboard of required thickness with premium laminate on the top & edge binding tape on all edges including all necessary screws, adhesive etc. complete as per direction of Engineer-in-charge.			
		Nos	20	
31	Providing and fixing factory made solid Foam uPVC profile for kitchen cabinetframe (45 x 20 mm) of approved shade, quality and make. The profile shall be laminated on both sides, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and the exposed edges sealed with PVC edge beading of same shade and colour. The frame shall be fire retardent with necessary screw holding capacity. Frame shall be fixed to wall using Expendable Fastner with necessary stainless steel screws, all complete as per direction of Engineer-incharge.			
		RM	20.16	
32	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardent having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.			
		SQM	18.14	
15 Exterior Display				
1	Product Name - SMD 3535- 10*6 led VIDEO PANEL P10 MS Powder coat) Module Size-320*162 mm Brightness-7000CD Scan-1\4S LED make-Nationstar Pixcel Density-10000 Cabinet Size Customized (LED Make : Nationstar IC : MB15124) Energy- Efficient IC Specifications-Logo , Text Display, Video Display, Animation, Images Display, etc			
	LED Video Wall Screen	Sqft	60	
	Sending Card with Video Processor	Nos	1	

16 Lift Work (With AMC - 3 years)(Capacity-7 Passangers)					
	Providing & Fixing 07 Passenger lift as per below given specifications:-				
	Kone - Monospace or equivalent	Nos	1		
	Gearless Machine Room Less Lift				
	Speed - 1m/s				
	Drive - V3F				
	Nos of Stops - 5 Nos, Basement, Ground, First & Second & Third				
	CAR Size-950 mm (W) x 1250 mm (D)				
	CAR Ceiling & Panels - MSPC Finish				
	Car Flooring - Stone Finish				
	Car Illumination - LED				
	CAR Entrance - Centre Opening Power with partial height glass Door in SS Hairline Finish.				
	Door Safety - Full Height Infra red safety curtains				
	Landing Entrance - Centre Opening Power with partial height glass Door in SS Hairline Finish.				
	Clear Opening - 700mm (W) X 2000 (H)				
	Control - Full Selective Collective				
	CAR Indicators - 1 Full Height Stainless Steel Face Plate Square surface mounted Buttons KDS90				
	Landing Indicators - Stainless Steel 7 segment display Surface Mounted KDS90				
	Emergency Alarm, Intercom, Handrail, Automatic and Manual Rescue Devices, Load Weighing device, Car lock , Daily Automatic Breaks etc. are included.				
	Providing & Installation				
	Fee for Annual Maintenance Contract (AMC) for next 3 upcoming years (Date of Start for AMC shall be after 1 year of date of handed over).				
	2nd Year	Nos	1		
	3rd Year	Nos	1		
17 Projector with Home Theatre (With AMC - 3 years)					
1	Multimedia Projector long throw (above 2.5 m) with 1024 x 768 (WXGA) resolution	Nos	2		
	Screen 6 x 4 ft	Nos	2		
	Home Theatre Sony or equivalent	Nos	2		
	Computer - I3 - 9th Generation 8 gb ram , HDD - 1 TB - LED - 22 inch (Brand HP or equivalent)				

	Hardware	Nos	28		
18 Appliances					
1	Supply, Installation, Testing & Commissioning of Air Condition of 2 Tons 5 Star Split with Inverter Technology with copper piping upto required length, conduiting etc. all complete (Make Daikin or equivalent) as per direction of Engineer-in-charge.	Nos	23		
19 Acoustical Treatment					
	WALL TREATMENT	-			
1	Providing & Fixing 16 mm thick grooved wooden perforated acoustic panels of size 192 x 2440 mm made with high density fibre (HDF) board having density > 800 kg/cubic meter, moisture, termite, & Borer resistant as substrate with pre-laminated face in approved shade and balancing layer on the reverse side. The boards shall have a special perforation patterns where the visible surface has ("Helmholtz" fluted perforation of 03 mm width & 13 mm of visible panel / 03 mm width & 23 mm visible panel) each. The edges of the panels shall be "Tounge & grooved" to receive special clips for installation. The back & perforated panels shall have fibre glass tissue or acoustic fleece. The panels shall be mounted on special aluminium spine using clips provided by manufacturer & approved by Engineer-in-charge.				
	CEILING TREATMENT	Sqm	219.73		
2	Providing & Fixing HDF Ceiling Panels of size 600 x 1200 mm having holes on front face of dia 08/10/12 with acoustic fleece on the back side thus providing excellent surface for sound absorption. The panels laid on T-sections made with high graded G.I suspended from roof as directed by Engineer-in-charge.				
		Sqm	189.53		
20 Interactive Display Panel (Gem Portal)					
1	Supply, Installation, Testing & Commissioning of Interactive Display Panel including wiring connections etc. all complete (Make Oscars PRO Model No-OP806T or equivalent) as per direction of Engineer-in-charge.				
	Interactive Display panel at Reception	Nos	1.00		
21 Audio Visual System					
-	Display system	-			
1	Supply of 65" IPS Panel / D-LED Display. Resolution (H x V): 3840 x 2160 pixels. Brightness : 500 cd/m ² . (Make Panasonic LH-65QM1KD or equivalent as per direction of Engineer-in-charge)	Each	4		
	Video Conference System				
2	Supply of RealPresence Group 500-720p: Group 500 HD codec, EagleEyeIV 12x camera, mic array, univ. remote, Cables: 2 HDMI 1.8m, 1 CAT 5E LAN 3.6m, 1 HDCI Analog 3m, Power: INDIA,IEC,2.5M. as per direction of Engineer-in-charge.	Each	1		

3	Supply of Group Series Multipoint License - 6-way on Group 500 as per direction of Engineer-in-charge.	Each	1		
4	Supply of Group Series 1080p HD License-1080 encode/decode for people & content as per direction of Engineer-in-charge.	Each	1		
5	Supply of Partner Premier, One Year, Real Presence Group 500-720p: Group 500 HD codec, EagleEye 12x camera as per direction of Engineer-in-charge.	Each	1		
	Switcher System				
6	Supply of Fixed table Interface with 1 Universal Power, 2 USB-Charging, 1 HDMI , 1 LAN, black as per direction of Engineer-in-charge.	Each	3		
7	Supply of 4x2 4K60 4:2:0 HDMI Automatic Matrix Switcher as per direction of Engineer-in-charge.	Each	1		
8	Supply of Audio De embeder as per direction of Engineer-in-charge.	Each	1		
9	Supply of Wireless Presentation and Collaboration Solution for a Laptop, Mobile, Tablet, MacBook, etc. as per direction of Engineer-in-charge.	Each	1		
	Audio System				
10	Supply of Wall Mount Speaker -Two-way cabinet speaker, 5.25" coated paper cone woofer + 1" silk dome tweeter,100 volt / 30 watts or 16 ohms / 80 watts, mounting bracket included as per direction of Engineer-in-charge.	Each	8		
11	Supply of Mixing amplifier 240W @ 100V / 70V /4Ω, 2 mic / line inputs, 4 Music Input, 4-level priority, 24VDC Output for priority over- ride , black as per direction of Engineer-in-charge.	Each	1		
	Cable and Connectors				
12	Supply of Audio Cable for a Microphone System as per direction of Engineer-in-charge.	Mtr	200		
13	Supply of Speaker Cable as per direction of Engineer-in-charge.	Mtr	150		
14	Supply of HDMI Cable with press lock System - 1.5 Mtr. as per direction of Engineer-in-charge.	Each	6		
15	Supply of HDMI Cable with press lock System - 5 Mtr. as per direction of Engineer-in-charge.	Each	4		
16	Supply of HDMI Cable with press lock System - 7.5 Mtr. as per direction of Engineer-in-charge.	Each	1		

17	Supply of HDMI Cable with press lock System - 10 Mtr. as per direction of Engineer-in-charge.	Each	1		
18	Supply of HDMI Cable with press lock System - 15 Mtr. as per direction of Engineer-in-charge.	Each	1		
19	Supply of Require cable and connectors as per direction of Engineer-in-charge.	Each	1		
20	Complete Implementation, Testing and Installation of all the above mentioned equipments.	Each	1		
22 Façade Work					
1	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 metres lead:				
		cum	74.81		
2	Demolishing cement concrete manually /by mechanical means including disposal of material within 50 metres lead :				
	1:3:6 or richer mix				
	Exterior Concrete dismantling	cum	23.87		
3	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
	Of area 3 sq. metres and below				
	Exterior Windows Taking out	Nos	61		
4	Carriage charge by mechanical means including loading, unloading and stacking etc. upto 10 kms leads of 1210/42 model TATA truck.				
	B/W , RCC etc. dismantling	Trips	72		
5	Reinforced cement concrete work in repairs to facade beams, suspended floors, chajjas, lintels, bands, plain window sills, staircases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement complete.				
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm)				
		cum	12.81		
6	Reinforced (ferrocement) cement concrete work in walls for making surface for wall cladding excluding cost of centering shuttering etc complete.				
	1 : 2: 4 (1 cement :2course sand : 4 stone aggregate 20mm)				
		cum	26.46		
7	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	Walls including attached pillasters, buttresses, string courses, etc.				
		Sqm	264.58		
8	Suspended floors, roofs, landings, shelves and their support, balconies and chajjaj,etc.				
		Sqm	102.45		

9	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete.			
	Thermo-Mechanically Treated bars of grade Fe-500 or more.			
		Kg	2074.35	
10	Half brick masonry with first class brick in superstructure upto 3rd Floor level.			
	in cement mortar 1:3 (1 cement : 3 coarse sand)			
		Sqm	302.44	
11	15 mm cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement on the rough side of			
	Qty Same as half b/w Internal Side only	Sqm	302.44	
12	Providing and fixing factory made uPVC white colour casement/fixing glazed windows (Lingel or equivalent) comprising of uPVC multi-chambered frame, sash and mullion (where ever required) 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), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded 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. (Including 5mm thick tinted toughened Glass)Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.			
		Sqm	83.79	
13	Supplying and fixing pre-painted galvalume roller door shutters of approved make (Dura Ultima or equivalent), made of required size of curtain panel, bottom rail, polyglide, guide channel, bracket, spindle assembly (spindle, spring, drum wheel) and lock system including the cost of providing and fixing complete.			
	Delux roller door shutter			
		Sqm	28.56	
14	providing & fixing eternal wall clading with decorative high pressure laminated sheet of approved quality & make to frame ,backing or studing with screws etc.complete.			
	06 mm Thick			
		Sqm	337.00	
15	Providing & fixing eternal wall clading with decorative high pressure laminated sheet of approved quality & make to frame ,backing or studing with screws etc.complete.			

	08 mm Thick				
	MCM (Code-Sandstone)	Stone	Sqm	268.80	
16	Installing & fixing in position curtain wall with aluminium composite panel cladding 4mm thick , with open grooves for linear as well ascurvilinear portions of the building for all height & all levels.etc complete.				
	Wall Cladding		Sqm	9.60	
17	Supplying fitting and fixing CNC cut 3D letter signboard with built in LED lighting				
			Sqm	6.50	
18	Supplying fitting and fixing 30 W IP 65 LED Flood Light (SYSKA/Philips or equivalent) as per direction of Engineer-in-charge.				
			Nos	9.00	
19	Supplying fitting and fixing wall sconce (Syska/Philips LED Wall Lamp 6W) as per direction of Engineer-in-charge.				
			Nos	2.00	
20	Supplying fitting and fixing spot light (Syska/Philips LED Spot Light Syska make 20W) as per direction of Engineer-in-charge.				
			Nos	4.00	
21	Light / Ceiling Fan / Exhaust Fan point etc (Modular Type) Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per standard IS 694(1990) halogen free fire retardant (HFFR) 1100 voltage graded copper flexible wire stranded copper 1.5 sq.mm running inside FRLS PVC Conduit pipe heavy duty 20mm dia fixed, recess inside ceiling / floor /wall as per convenience including junction box having required no. of ways from control switch to Light / Ceiling Fan / Exhaust Fan point etc as required				
	Light point medium point (Modular)				
			Point	30.00	
<u>23 Internal water supply & Sanitary Installations</u>					
1	Providing and fixing CPVC pipes complete with CPVC fitting for water supply including clamps at one metre spacing, cutting and making good the walls etc. (internal works).				
	15mm dia nominal bore.				
	For Water Connection to Wash basins, WC etc.		RM	250	
2	Providing and fixing CPVC pipes complete with CPVC fitting for water supply including trenching and refilling etc. (<i>external works</i>).				
	20 mm dia nominal bore.				
	For Water Connection to Wash basins , WC etc.		RM	200	

3	Providing and fixing vitreous china pedestal type water closet (EWC European type wc pan) with seat and lid, 10 litres low level flushing cistern including flash pipe with manually controlled device (handle over) confirming to is: 7231 with all fittings & fixtures complete ,including cutting & making good the walls wherever required . (White)		
		Each	14
4	Providing and fixing vitreous china Urinal flat back large 59 x 39 x 37.5cm of Parryware/ Hindware/ Cera and equivalent make with flush valve/spray with C.I or R.S brackets standard size of G.I flush pipe and C.P brass spreaders with brass unions and G.I clamps complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required.		
		Each	11
5	providing & fixing vitreous division plate 69*30cm size for urinals.		
		Each	11
6	Providing & fixing health faucet with flexible tube upto 1 meter long & holder of quality & make as approved by engineer in charge.		
		Each	2
7	Providing and fixing white vitreous china wash basin standard of parryware /hindware/cera & equivalent make with R,S OR C.I bracket, 15mm c.p brass pillars taps , c.p brass chain with rubber plugs,32mm c.p brass waste of standard pattern ,32mm c.p brass taps & union complete including painting & brackets cutting & making good the walls wherever required.		
	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C. P. brass pillar taps.		
		Each	16
8	Providing & fixing CP brass 32mm size bottle trap of approved quality & make & as per the direction of engineer in charge.		
		Each	16
9	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with6 mm thick hard board backing:		
		Each	16
10	Providing and fixing liquid soap container with C.P brass lid and brackets fixed to wooden cleats with c.p brass screws.		
	Soap dish chromium plated with brackets.	Each	16
11	Providing and fixing brass bib cock of approved quality.		
	15mm nominal bore	Each	16
12	Providing and fixing 15mm nominal bore c.p brass angle stop cock for basin mixer & gyser points of approved quality confirming to IS:8931.		
	Class 2	Each	30

13	Providing and fixing on wall face SWR PVC soil, waste and vent pipes including jointing with rubber lubricant/cement solvent complete.			
	75mm dia.	Rm	50	
14	Providing and fixing SWR PVC plain bend of required degree (87.50°) including jointing with rubber lubricant/cement solvent complete.			
	75 mm dia.	Each	20	
15	Providing and fixing SWRPVC bend with access door of required degree including jointing with rubber lubricant/cement solvent complete.			
		Each	20	
16	Providing and fixing single equal SWR PVC plain junction of required degree (T-junction).			
	75x75x75mm.	Each	10	
17	Providing and fixing single equal SWR PVC plain junction of required degree with access door (T-junction) .			
	75 x 75 x 75 mm.	Each	10	
18	Providing and fixing ventilation cowl including jointing with rubber lubricant/cement solvent complete.			
	75mm SWRPVC vent cowl	Each	10	
19	Providing and fixing upvc multi floor trap with floor trap grating including jointing with rubber lubricant/solvent cement.			
		Each	10	
20	Providing and fixing on terrace (at all floor levels) Polyethylene storage tank of approved brand and manufacture with cover and suitable locking arrangement and making necessary connections for inlet, outlet and overflow pipes but without the fittings & the base support for tank.			
	sintex & equivalent	Lit.	1000	
24. ELECTRICAL WORKS				
1	Providing & Laying of 3C x 2.5 Sqmm. Copper cable.			
	For DB Connections	Rmt	30	
2	Supplying, fitting & fixing of following MCB DB in sheet steel phospatized powder painted MCB DB, with busbar neutral link , earth bar and din rail conforms to IS13032, IS 8623, BS 5486 240V or 415V 50Hz on surface or recessed including interconnection, painting, etc, as required.			
	8 way (8+24) MCB DB TP&N DD metallic door	Each	10	
3	Light / Ceiling Fan / Exhaust Fan point etc (Modular Type) Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per standard IS 694(1990) halogen free fire retardant (HFFR) 1100 voltage graded copper flexible wire stranded copper 1.5 sq.mm running inside FRLS PVC Conduit pipe heavy duty 20mm dia fixed, recess inside ceiling / floor /wall as per convenience including junction box having required no. of ways from control switch to Light / Ceiling Fan / Exhaust Fan point etc as required			

	Light point medium point (Modular)	Points	60		
4	Light Plug/Socket Point 5/6Amp (Modular Type) Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per standard IS 694(1990) halogen free fire retardant (HFFR) 1100 voltage graded copper flexible wire stranded copper 2.5 sq.mm running inside FRLS PVC Conduit pipe heavy duty 20mm dia fixed, recess inside ceiling / floor /wall as per convenience including junction box having required no. of ways from DB to light / plug/socket / 5/6A point etc. as required				
	Light/Plug point medium point (Modular)	Points	60		
5	Power Plug Socket Point 15/16Amp (Modular Type) Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per standard IS 694(1990) life shield zero halogen (ZHLS) 1100 voltage graded copper flexible wire stranded copper 4.0 sq.mm running inside FRLS PVC Conduit pipe heavy duty 20mm dia fixed, recess inside ceiling / floor /wall as per convenience including junction box having required no. of ways from DB to power plug/socket point 15/16A etc. as required				
	Power point long point (Modular)	Points	50		
6	Main to Submain Copper Wire (Single Phase - Two Wire) Wiring in looping system with PVC wire sheathed standard copper conductor/wires as per standard IS 694(1990) halogen free fire retardant (HFFR) 1100 voltage graded copper flexible wire stranded copper of different sizes as mentioned below running inside FRLS PVC Conduit pipe heavy duty of difference dia fixed, recess inside ceiling / floor /wall as per convenience including junction box having required no. of ways from main to submain/db to SBD/Switchboard SDB to switchboard etc as required				
	2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire.	Points	150		
	2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire.	Points	75		
	2 x 6 sq.mm. + 1 x 6 sq.mm. earth wire	Points	75		
7	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
	25 mm	Metre	500		
8	Supply of 15W-20W recess mounting type circular downlighter LED luminaire, IP 20, colour temperature 5700K having efficacy not less than 85 lm/W, THD ≤ 20%, die cast aluminum/polycarbonate housing, suitable diffuser, inbuilt electronic driver, including 3 core 1.5 sq.mm FRLS PVC insulated and PVC sheathed copper conductor cable and earthing etc. upto suitable point complete as required. Fixture Similar to Wipro Cat No.: LD06-221-XXX-57-XX or Equivalent				
	Light	Each	50		

9	Supply of 1 ft linear 7-10W surface mounting type LED luminary, IP 20, colour temperature 5700K having efficacy not less than 100 lm/W, THD ≤ 20%, PC / PMMA housing, suitable diffuser, inbuilt electronic driver, including 3 core 1.5 sq.mm FRLS PVC insulated and PVC sheathed copper conductor cable and earthing etc. upto suitable point complete as required. Fixture similar to WIPRO CAT : LL20-111-XXX-65-NE3 or Equivalent			
	For Toilets Mirrors	Each	10	
10	Supply of 2'x2' 36-40W recess mounting type LED luminary, IP 20, colour temperature 5700K having efficacy not less than 100 lm/W CRCA housing, suitable diffuser, inbuilt electronic driver, including 3 core 1.5 sq.mm FRLS PVC insulated and PVC sheathed copper conductor cable and earthing etc. upto suitable point complete as required. Fixture similar to WIPRO CAT : CRCO10R038HP57GL1 or equivalent			
	Centre Director			
	Project Coordinator, Centre Coordinator, Program Assistant			
		Each	16	
11	Supply of BEE 5star rated 1200 sweep BEE 5 star rated ceiling fan, including wiring, the down rods of standard length (upto 30 cm) with 3x1.5 sqmm FRLS PVC insulated copper conductor single core cables etc., as required to do the job in all respect in accordance with laid specification or upto the satisfaction of engineer in charge.			
		Each	50	
12	Supplying and fixing modular switch board (decorative type) round mechanism of following sizes / modules on surface or recessed including PVC/Steel boxes, modular plate and necessary switches plug/socket and fan regulator etc. with necessary painting if necessary.			
	Modular information socket Cat-6 UTP	Each	50	
13	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.			
		Meter	800	
25. IP BASED CCTV SYSTEM				

1	Supply, Installation, Testing & Commissioning of IP Network TDN Low-Light IR Dome Camera, 1/2.7" CMOS, 2 MP @ 25fps or better, triple stream, Min. Illumination required 0.05 lux @ F1.4 (color), 120dB True WDR, Min. Pixels 1920 × 1080, triple stream, 2.7–13.5 mm motorized focus & zoom lens, BLC, HLC, 3DNR, Privacy Mask, 3 IR LEDs Smart IR with upto 30m IR distance, 128GB SD card support, IP66, IK10, PoE, H.264 High Profile and MJPEG, PoE Class 3 and 12V DC, Having Operating temp range : 0°C to 60° C. Certifications: ONVIF Profile S & Profile G compliant, UL, CSA 60950-22, CE (EN 50130-4 & EN 55022) , FCC Part 15 & RoHS compliant complete as required and as per specifications.	Each	12		
2	Supply, Installation, Testing & Commissioning of IP Network TDN Low-Light IR Bullet Camera, 1/2.7" CMOS, 2 MP @ 25fps or better, triple stream, Min. Illumination required 0.05 lux @ F1.4 (color), 120dB True WDR, Min. Pixels 1920 × 1080, triple stream, 2.7–13.5 mm motorized focus & zoom lens, BLC, HLC, 3DNR, Privacy Mask, 4 IR LEDs Smart IR with upto 60m IR distance, 128GB SD card support, PoE, H.264 High Profile and MJPEG, PoE Class 3 and 12V DC, IP 66, Having Operating temp range : 0°C to 60° C. Certifications: ONVIF Profile S & Profile G compliant, UL, CSA 60950-22, CE (EN 50130-4 & EN 55022) , FCC Part 15 & RoHS compliant complete as required and as per specifications	Each	4		
3	Supply, installation, testing and commissioning of IP Based 270 Degree Panaromic Dome Camera, 12 Megapixel (4x3 MP), 1/3.2" CMOS Sensor, 2.8-6 mm remote zoom/focus lens, IR Sensitive, Day/Night 0.1 Lux Color Light Sensitive, WDR (120dB), Resolution 2048x1536p @ 25 FPS each sensor, 16 x optical zoom, 100 meter effective IR distance, 5 auto scan, auto focus, smart tracking, 128 GB SD card support, Ethernet 10/100 mbps, PoE Power, with IP 66 and IK-10 Rated housing (UL, CE-EMC, RoHS Certified) including mounting accessories complete as required to do the job in all respect in accordance with laid specification or upto the satisfaction of engineer in charge. Supply, installation, testing and commissioning of UL Listed, PTZ Camera with the following components / sub assemblies as per specifications complete etc. as required. Note : The camera shall be suitable for mounting	Each	1		

	on parapet wall / surface /lighting pole and quoted rate shall include all kind of supports required to complete the installation.				
4	Supply , Installation , Testing and commissioning of 32 Channel NVR (Network Video Recorder), for recording @ 1080P with 04 nos. SATA HDDs minimum 32B storage or more (recording requirement all cameras recording at 25fps for 30 days),H.265/H.264/MJPEG/MPEG4 codec decoding, Front Control Panel with LEDs Indication, 3 nos. USB, iPhone; iPad; Android based Mobile clients, Video Export feature on USB, Search Mode: Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search, Dual HDMI Output, Alarm Input (16 nos.), Alarm Output (6 nos.), 16 POE Ports, eSATA Device, 320Mbps each Incoiming & Outgoing throughput, Operating Temperature 0°C to 55°C Certification : CE, FCC & UL including fixing accessories and cable termination with required connectors/Jack including ONVIF Video management & recording software of Mirasys, Genetec & Onssi make with inbuilt video analysis enterprise level with central monitoring & unlimited client access, PTZ Control, Remote Viewing, Remote Storage, Playback. Supports JPEG, AVI, WAV export formats, Hourly schedules, Email Notification. complete as per tender specifications and as required.	Each	1		
5	Supply , Installation , Testing and commissioning of 16 Channel NVR (Network Video Recorder), for recording @ 1080P with 02 nos. SATA HDDs minimum 16TB storage or more (recording requirement all cameras recording at 25fps for 30 days),H.265/H.264/MJPEG/MPEG4 codec decoding, Front Control Panel with LEDs Indication, 3 nos. USB, iPhone; iPad; Android based Mobile clients, Video Export feature on USB, Search Mode: Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search, Dual HDMI Output, Alarm Input (16 nos.), Alarm Output (6 nos.), 16 POE Ports, eSATA Device, 320Mbps each Incoiming & Outgoing throughput, Operating Temperature 0°C to 55°C Certification : CE, FCC & UL including fixing accessories and cable termination with required connectors/Jack including ONVIF Video management & recording software of Mirasys, Genetec & Onssi make with inbuilt video analysis enterprise level with central monitoring &	Each	2		

	unlimited client access, PTZ Control, Remote Viewing, Remote Storage, Playback. Supports JPEG, AVI, WAV export formats, Hourly schedules, Email Notification. complete as per tender specifications and as required.				
6	Supply, installation, testing & commissioning with proper connection & termination of following size equipment rack made out of CRCA sheet to house all the control equipment complete as required in accordance with laid specification or upto the satisfaction of engineer in charge.				
7	19" equipment rack - 9 U	Each	4		
8	19" equipment rack -24 U	Each	1		
9	Supply, installation, testing and commissioning of Layer-2 PoE Distribution Switch 24 Gigabit Ports , Rack Mountable, 4 Port Combo Port POE+ Switch including Fibre module for LAN base feature set with support to integration with CCTV, with all related hardware complete as required and as per specifications	Each	1		
10	Supply, installation, testing and commissioning of Layer-2 PoE Distribution Switch 12 Gigabit Ports , Rack Mountable, 4 Port Combo Port POE+ Switch including Fibre module for LAN base feature set with support to integration with CCTV, with all related hardware complete as required and as per specifications	Each	1		
11	Supply, installation, testing and commissioning of Layer-2 PoE Distribution Switch 8 Gigabit Ports , Rack Mountable, 4 Port Combo Port POE+ Switch including Fibre module for LAN base feature set with support to integration with CCTV, with all related hardware complete as required and as per specifications	Each	3		
12	Supply, installation, testing and commissioning of 21" colour TFT Monitor including decodes and all accessories complete as required in accordance with laid specification or upto the satisfaction of engineer in charge complete as required and as per specifications	Each	2		
13	Supply installation, testing and commissioning of Desktop Computer comprising CPU, Keyboard and a mouse complete with operating system (OS) and other required software to control NVR in control room including Centralized Video Management Software as per the requirement of the successful operation of the surveillance system complete as required in accordance with laid specification or upto the satisfaction of engineer in charge.	Each	1		

14	Supply & laying of Cat 6 4 pair UTP cable for CCTV's signal/power including cable gland and other required accessories shall be laid in existing conduit/cable tray etc. complete as required in accordance with laid specification or upto the satisfaction of engineer in charge.	Metre	970		
15	Supply, installation Testing and commissioning of compatible media converter for the interconnection of switches on optical Fiber cable backbone , complete with patch cord, 3-LIU-6port,1 LIU-24Port units and junction boxes as required for integration as per specification complete as required including all support as required.	Lot	1		
16	Supply, Installation, Testing and Commissioning of armoured OM3 Single mode fiber optic cable for connectivity where ever required in pre-laid conduits / raceways / HDPE / DWC pipes, whichever maybe available etc. as required	Metre	100		
<u>26. Fire Fighting SYSTEM</u>					
1	Fire Fighting (with sprinkler system)	Area required to be protected 661.19 Sqm x 1149.2/Sqm			