

## ANNEXURE - H

**PRICE BID**

PROJECT: PROPOSED INTERIOR FURNISHING,  
ELECTRICAL,HVAC, AND ALLIED CIVIL WORKS FOR  
ECGC, VIZAG

S NO	NAME OF WORK	AMOUNT
1	INTERIOR WORKS	
2	ELECTRICAL WORKS	
3	HVAC WORKS	
4	CIVIL WORKS	
5	PLUMBING WORKS	
6	FURNITURE WORKS	
	<b>TOTAL</b>	
	GST EXTRA	
	GRAND TOTAL	

**Contractor Sign and Seal**

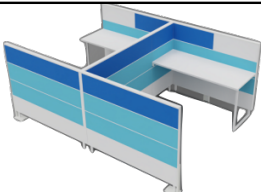
INTERIOR WORKS					
S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<b>GYPSON FALSE CEILING</b>	Sft	1737		
	Providing and fixing ½" thk. Gypsum India board false ceiling at levels as shown in the drg. From FFL. Rate shall be inclusive of all Gypsum India components contained G.I. perimeter channels of size 0.55 thick having one flange of 20mm and another flange of 30mm and a web of 27mm alongwith perimeter of ceiling, screw fixed to brickwall/ partition with the help of nylon sleeves and screws, at 610mm centres. The suspending G.I.intermediate channels of size 45mm, 0.9mm thick with two flanges of 15mm each from the soffit at 1220mm centres with ceiling angle of width 25mm x 10mm x 0.55 thick fixed to soffit with G.I. cleat and steel expansion fastners at every 610mm c/c. Ceiling sections of 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457mm centres. 12.5mm tapered edge Gypboard is then screw fixed to ceiling section with 25mm drywall screws driver or drilling machine with suitable attachment.				
	The boards are to be jointed and finished so as to have a flush look which includes filling and finishing the tapered and square edge of the boards with jointing compound & joint paper tape. Rate shall be inclusive of Cut outs for A/c machiness, spot lights, light fixtures, A/C. Grills, fire and security systems cut outs, All Sections should adhere to the manufacturers guidelines. Vertical sides visible will be measured.				
	Cleaning the old surface of the ceiling and then applying & painting with plastic emulsion White paint matt finish with two coats of approved make shade and colour over a base coat of appropriate paint of approved make (total 3 coats) including cost and conveyance of materials like paint to site including lift and labour charges such as preparing the wall,applying luppum,applying primary coat, curing for primary coat, applying paint with matt finish two coats etc., complete for the finished item of work.				
2	<b>ARMSTRONG GRID CEILING</b>	Sft	837		
	Providing & Fixing of Mineral Fibre Acoustical Suspended Ceiling System with 15mm Tiles and Silhouette GRID. The tiles should have Humidity Resistance (RH) of 90% - 99%, NRC 0.5, Light Reflectance ≥87%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 16mm , suitable for Green Building application, with Recycled content of 30% - 45% .				
	The tile shall be laid on Microline / Silhouette profile grid system with 15mm - 16mm white flanges incorporating a 6mm central reveal in white/black colour and with a web height of 38mm and a load carrying capacity of minimum 8 Kgs/M2 & minimum pull out strength of 100 Kgs. Microline / Silhouette, Main Runners & Cross Tees to have mitred ends & "birdsmouth" notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system as per manufacturers details.				

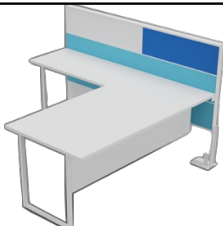
	The Instalation to comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using US Boral / Gyproc / Armstrong suspension system (specifications below) at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.				
	Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be Wall angles of size 3000mm x 19mm x 19mm, secured to walls at 450 mm maximum centres.				
<b>3</b>	<b>FLUTED PANEL CEILING</b>	Sft	350		
	Supply and Providing of WPC Louvers of size 14mm*195mm *2900mm (1 Panel =6.1 sft) with nessasasary clip and Installation chgs.The Pattern /Design is approved by Architect. Approved Brand:Leben / Sul Wood/SPLINE. Basic rate 350/-.				
<b>4</b>	<b>FULL HEIGHT PARTITIONS - SOLID</b>	Sft	1300		
	Providing and fixing partition framing shall consist of Heavy duty Aluminium Box Sections 50mm x 50mm @ 600mm c/c both ways Horizontally and Vertically. The vertical alternate frames to be fixed to the ceiling with necessary fixtures. The framing shall be finished with 8 mm thk. Commercial ply on both side and finished with 1.00 mm thk. Laminate finished with melamine polish. The shade of laminate and polishing finish to be got approved from Architect. The skirting should be as per approved laminate as per drawing and direction. Rate shall be inclusive of necessary hardware items, etc. Complete. The edge beadings with steam beach wood should be finished with melamine. <b>HILUX Calcium Silicate Board</b> of 9 mm tk. for UPS room.				
<b>5</b>	<b>FULL HEIGHT FULLY GLAZED PARTITION</b>	Sft	387		
	Providing and fixing of fully glazed partition with 12 mm thick toughened glass fitted with heavy duty SS patch fittings at the interval of minimum 2' interval at top, bottom and sides as per site condition, necessary support to be taken from the top (slab/ ceiling).				
<b>6</b>	<b>MODULAR STORAGE UNITS</b>	Sft	242		
	Free standing side/back credenza of above mentioned size with openable shutters in 19mm thk pre laminated mdf board , 19mm thk prelam mdf board for verticals & bottom, back of 9mm thk prelam particle board, with back to be inserted in the groves provided in the verticals top and bottom, with pvc edge banding on all exposed edges, 25mm thk top in post formed laminated on facing edge and other three sides edge banded, adjustable shelves at app 16" c/c. with 19 mm. with pre laminated particle board & all necessary fittings like 4" long ss brushed finish handles, tower bolts, self closing hafele make hinges, godrej make/hafele make locks & any miscellaneous items. the bottom facing skirting to be in same laminate				
<b>7</b>	<b>FULLY GLAZED DOOR</b>	Sft	105		

	Providing and fixing frameless fully glazed 12mm thk toughened float glass fixed with necessary patch fittings (OZONE or equivalent) including cutting, making holes, cutouts in the glass of required shape and size to accommodate fittings and fixing the fittings in floors, soffits, jams including necessary fixtures, screws, sealant wherever required and SS cover over patch fittings. Rate shall include approved patch fitting locking systems, 1 pair of 12" long S. S. (C Shape) Handles of approved make, floor springs, and any necessary hardware items. Top Pivot , Top Patch Fittings, Bottom Patch fittings , Floor Spring , Corner lock with strike plate and Euro Profile Cilinder, C Shape Handle 25mm dia X 300mm length)				
<b>8</b>	<b>FLUSH DOORS</b>	Sft	203		
	Providing and fixing 50mm thick solid core flush shutter of 9'0" height with 85mm x 15mm beech wood jamb all round and 12mm x 12mm button beading fixed 1mm laminate as specified on both sides and 8mm clear float glass with 3M privacy film fixed as per drawing with 65mm x 15mm beech wood jamb around the glass opening and 12mm x 12mm beech wood beading for fixing of glass on both sides.				
	The rate to include necessary hardware viz., door stopper, door buffer, pair of " H " type handles, Mortise Dead Lock and Euro Profile Cylinder - Key and Knob 70mm SS, SS 2 ball-bearing hinges - (127mm x 76mm x 2.5mm), concealed door closer (all of approved make and quality), ZERO VOC or NO VOC duco paint finish for all beech wood members, etc., complete as directed.				
<b>9</b>	<b>ROLLER BLINDS</b>				
	Providing and fixing removable type room darkening fabric/ zebra blinds in approved shade with EOS 500 operating system and spring assisted HD 47 along with commonly used SF38 lifting system having chain drive clutch that allows precise control held in position with necessary accessories from the adjoining wall as per the detail drawings. provided with all standard fittings, accessories etc., as per the manufacturers' specifications complete for the finished item of work. (MAKE: Mac/Vista) Basic rate 180/-.	Sft	180		
<b>10</b>	<b>DISPLAY BOARD</b>				
	Providing and fixing 12mm Soft Board display covered with felt and teak wood border of size 6'-0" x 3'-0".	Sft	18		
<b>11</b>	<b>SHUTTER BOX IN ACP</b>				
	Providing & fixing in position Aluminium Composite Panel (ACP) with framing of Aluminium Tube sections of min 1.5" x 1" and 20 gauges 2'-0" C/C both ways. Joints to be finished with Silicon based sealant. ACP thickness of 3 mm minimum. Aluminium foil thickness to be min 0.20 mm, 2'-0" C/C both ways. ACP to be in 2' width panels or distributed equally. Alubond, Eurobond, Fujibond, Alcobond or equivalent ISO certified brands to be used. Trap door to be finished with ACP.	Sft	136		
<b>12</b>	<b>FLUTED PANELLING</b>				

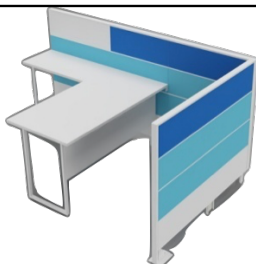

	Supply and Providing of WPC Louvers of size 14mm*195mm *2900mm (1 Panel =6.1 sft) with nessasary clip and Installation chgs.The Pattern /Design is approved by Architect. Approved Brand:Leben / Sul Wood/SPLINE. Basic rate 350/-.	Sft	849		
<b>13</b>	<b>ANTI TERMITE TREATMENT</b>				
	Chlorphripos emulsifiable concentrate of 20% or Bayer Anti Termite chemical to be used to treat all the surfaces of the plywood, slabs, beams and all infected areas two times with 1 hour drying time before starting the work.	Ls	1		
<b>14</b>	<b>PAINTING</b>				
	Providing & applying Luster Paint on walls, columns & ceilings. The rate shall include scrapping, levelling & preparing the surface. Primer coat + (minimum) 3 coats to get evenly spread quality finish (roller finish) of approved make, quality & shade shall be provided. Make: Asian / Berger	Sft	1029		
<b>15</b>	<b>SYNTHETIC ENAMEL PAINT FOR WINDOW GRILL, ROLLING SHUTTER &amp; COLLAPSABLE GATE</b>				
	Providing and applying 2 coats of synthetic enamel paint on the window grill, rolling shutter and collapsable gate. Before putting final paint scrapping, levelling, preparing the surface and 2 coats primer to be done. The wall is to be completed as per the direction of the architect. Make: Asian / Berger	Sft	615		
<b>16</b>	<b>PANTRY</b>				
	Supply & Fabrication of counter below for pantry by using marine ply of Century/ Green/ equivalent duly finished with the 1mm glossy finish laminate for exterior and 1mm laminate for inner side duly finished with the edge beading. Hardware to be used soft closure hinges telescopic channels of Ebco / Hettich/Hafele. The shutters of the cabinet duly finished with high gloss laminate of specified shade as per the directions of the Architect.	Sft	36		
<b>17</b>	<b>OVERHEAD STORAGE</b>				
	Providing & Fixing storage of size 1'-6" deep with various lengths & heights with 19mm thk. plywood for sides, front shutter and in between planks. 8mm thk. ply use for rear side of the storage unit. All the exposed surfaces will be laminated with 1mm thk. laminate of approved shade & brand. All the inner surfaces are to be laminated with 1mm thk laminate. Rate to include cost of necessary hardware like brass hinges, aldrops, magnetic stopper, handles etc., complete for the finished item of work.	Sft	16		
<b>18</b>	<b>DISPLAY UNIT</b>	Sft	21		
	Providing and fixing display unit of size 13'6"x1'6" with Vineer finish on all the sides duly melamine polished as per the Architect. The unit to be provided with frameless glass shutters. The rate is inclusive of necessary hardware to complete.				
<b>19</b>	<b>ACRYLIC SIGN BOARD</b>				
	Acrylic Sanwitching with 3mm & 3mm fixed with stud screws for elegant looks	Sft	30		
	Digital Printing Signage on 3M Media	Sft	30		




<b>20</b>	<b>LED BACKLIT SIGN BOARD</b>				
	LED Backlit Signage with 3M Vinyl & flex & Osram Leds	Sft	24		
	Digital Printing Signage on 3M Media	Sft	24		
<b>21</b>	<b>ACRYLIC SOLID SURFACE</b>				
	Providing and fixing of 6mm tk. Acrylic solid surface on table top as per selection of Architect. The rate including all till finishing to complete.	Sft	57		
<b>22</b>	<b>LACQUERED GLASS PANELLING</b>				
	Providing and fixing of Ultra White lacquered glass (Toughened glass) of 8mm thkness over plywood frame of 19mm thk fixed with silicon sealent with polished edges. Basic rate 750/-.	Sft	300		
<b>23</b>	<b>CARPET TILE FLOORING</b>				
	Providing and fixing 7mm thk. Tufted fibre tiles of size 50mm x 50mm backed up with PVC glass fibre reinforcement layer as per the detaildrawing duly attached to the floor with manufacturers recommended adhesives. Basic rate of tile is 200/- per Sft	Sft	220		
<b>24</b>	<b>DINING TABLE SET</b>				
	Providing and fixing solid wood 6 seater dining table with marble top finish, of sizes (L180cm x B 120cm x H 75cm). Six chairs of solid wood with fabric seat foam cushion. Basic rate of dining set 60000/-.	Nos	1		
<b>25</b>	<b>FIRE-RESISTANT EXIT DOOR</b>				
	Providing and Fixing in place 45/55mm thick absolute free composite Fire, flame smoke and heat guard Check Door (2hrs. as per IS:3614-PartII) conforming to BS476 part 22 and IS 3614 part-II as per prototype tested at National Test House ( Govt. of India) CBRI-Roorkee ,two 6/8mm non combustible boards sandwiching 25/32/43 mm thick insulation fire resistant filter, faced with 4mm fire retardent high density fibre board, internal lipping treated with fire retardent chemical with heat activated, brush type intumescent fire seal strips of size 10x4mm for smoke sealing mounted on all sides of the shutter except buttom,mounted on frames with 4nos. 100mmx75mmx3mm heavy duty hinges,fire rated clear/wired vision glass of sizes 200mmx300mm prefabricated inside the shutter under 50 tones pressure and MS Channel of approved shade and color as per the instructions of the engineer. All door frames in the partitions / Wall shall also be embedded in the floor for 1 1/2" for bearing. Cost of door frames shall be inclusive of hold fasts / anchors for fixing in walls, making all necessary rabites etc, as per design/details. Quoted rates shall include all necessary materials, accessories and labour etc. as per Architects's recommendations	Nos	2		
	<b>TOTAL</b>				



FURNITURE WORKS						
S NO	ITEM	DESCRIPTION	UNIT	RATE	QTY	AMOUNT
		<b>CUBICLE WORKSTATIONS - 1500 X 2100</b>				
1	Wish system	<p>Providing and placing WISH panel &amp; tile based modular workstation, with partition, thickness as 52.4 mm thk and ht - 1200 including powder coated aluminium trims. Combination of top tiles are fabric magneit and bottom tiles of Plain metal. Split tiles are in combination of two finishes for the top tiles on the user side shall be split fabric tackable along with split white board. Intermediate blocks are given in fabric + Fabric finish. Wires shall be taken into the system through cable ducts from the junction boxes and it is carried upto the panels through concealed conduits inside the blocks. Legs are metal powder coated at the end and are in shared condition. System shall also have 120 mm high powder coated standalone panel legs to give the system an elevated look. Main table recta out of 25 mm thk prelam particle board with flat pvc lipping edge banding of size 1500 mm w x 600 mm d .. CPU trolley are with castors. KBPT with mousetray in metal.</p> <p>Note: All partitions and side panels have levelling screws for adjustment in case of Uneven floor to take care of +/- 40 mm of uneven flooring. Note 2: SPECIFICATIONS OF FLOORING FOR THE FREE STANDING PARTITION:- GRADE OF PCC SHOULD BE MINIMUM OF M20 ( MIX RATIO 1:5:5:3) OR M25 (MIX RATIO 1:1:2). THE DIMENSION OF EACH PCC SHOULD BE 450 MM L X 300 MM W X 140 TO 150 MM HT AT THE MARKED LOCATION. ( MIX RATIO OF CEMENT: SAND: STONE). ALSO, ELECTRICAL TRUNKING SHOULD NOT BE LAID BELOW THESE PARTITIONS</p>	NOS		6	
	IMAGE					

2	Wish system	<p><b>CUBICLE WORKSTATIONS - 1650 X 1500 :</b> Providing and placing WISH panel &amp; tile based modular workstation, with partition thickness as 52.4 mm thk and ht - 1200 including powder coated aluminium trims. Combination of top tiles are fabric magnet and bottom tiles are in plain metal Split tiles are in combination of two finishes for the top tiles on the user side shall be split fabric tackable along with split white board. Intermediate blocks are given in fabric + Fabric finish. Wires shall be taken into the system through cable ducts from the junction boxes and it is carried upto the panels through concealed conduits inside the blocks. Modesty Panels with assembly legs are of 25 MM THK and PLB modesty has been given on the front of the main worktop which is attached to the partition on one end with gable end bkts and on the other end with metal powder coated frontier leg.. Legs are with metal powder coated at the end and are in shared condition. System shall also have 120 mm high powder coated standalone panel legs to give the system an elevated look. Main table recta out of 25 mm thk prelam particle board with flat pvc lipping edge banding of size 1500 mm w x 750 mm d and ERU table recta of size 1050 mm w x 450 mm d. CPU trolley are with castors. KBPT with mousetray is of-metal.</p> <p>Note: All partitions and side panels have levelling screws for adjustment in case of Uneven floor to take care of +/- 40 mm of uneven flooring.</p> <p>Note 2: SPECIFICATIONS OF FLOORING FOR THE FREE STANDING PARTITION:- GRADE OF PCC SHOULD BE MINIMUM OF M20 ( MIX RATIO 1:5:5:3) OR M25 (MIX RATIO 1:1:2). THE DIMENSION OF EACH PCC SHOULD BE 450 MM L X 300 MM W X 140 TO 150 MM HT AT THE MARKED LOCATION. ( MIX RATIO OF CEMENT: SAND: STONE). ALSO ELECTRICAL TRUNKING SHOULD NOT BE LAID BELOW THESE PARTITIONS.</p>	NOS		2	
	IMAGE					



3	Wish System	<p><b>CUBICLE WORKSTATIONS - 1500 X 2550</b> : Providing and placing WISH panel &amp; tile based modular workstation, with partition thickness as 52.4 mm thk and ht - 1200 including powder coated aluminium trims. Combination of top tiles are fabric magnet and bottom tiles are with plain metal. Split tiles are in combination of two finishes for the top tiles on the user side shall be split fabric tackable along with split white board. Intermediate blocks are given in fabric + Fabric finish. Wires shall be taken into the system through cable ducts from the junction boxes and it is carried up to the panels through concealed conduits inside the blocks. Modesty Panels with assembly legs are of 25 MM THK and PLB modesty has been given on the front of the main worktop which is attached to the partition on one end with gable end bkts and on the other end with metal powder coated frontier leg. Legs are metal powder coated at the end and shared condition. System shall also have 120 mm high powder coated standalone panel legs to give the system an elevated look. Main table recta out of 25 mm thk prelam particle board with flat pvc lipping edge banding of size 1500 mm w x 750 mm d and ERU table recta of size 1050 mm w x 450 mm d. CPU trolley are with castors. KBPT with mousetray of metal.</p> <p>Note: All partitions and side panels have levelling screws for adjustment in case of Uneven floor to take care of +/- 40 mm of uneven flooring.</p> <p>Note 2: SPECIFICATIONS OF FLOORING FOR THE FREE STANDING PARTITION :- GRADE OF PCC SHOULD BE MINIMUM OF M20 (MIX RATIO 1:5:5:3) OR M25 (MIX RATIO 1:1:2). THE DIMENSION OF EACH PCC SHOULD BE 450 MM L X 300 MM W X 140 TO 150 MM HT AT THE MARKED LOCATION. (MIX RATIO OF CEMENT: SAND: STONE). ALSO ELECTRICAL TRUNKING SHOULD NOT BE LAID BELOW THESE PARTITIONS.</p>	NOS		2	
						
4	IMPRESS	<p>Size: 1800 (W) x 900 (D) x 750 (H)</p> <p>Main Top: 1800 x 900. Made of 68mm Thick (±1mm) combination of MDF, Particle Board and Solidwood (batton construction) with top Veneer face coated with clear lacquer.</p> <p>Side Panel: 683 x 600. Made of 60mm Thick (±1mm) combination of MDF, Particle Board and Solidwood (batton construction) with top Veneer face coated with clear lacquer.</p> <p>Modesty Panel: 1640 x 600. Made of 17mm Thick (±1mm) Particle Board with Veneer face, coated with Clear lacquer. All thickness edges are edge banded with matching lipping.</p>	NOS		0	
						

5	MARVEL	Work station : Godrej Interio Revolving Chair with ARM Advance Bio Synchronic	NOS		15	
						
6	MARVEL	Manager Module Chair HIGH BACK Leatherette, Active Bio-Synchro, Die cast polished Aluminum Pedestal, Adj Arms, 5 Position Tilt Limiter, Bk Ht Adj, Seat Slide Mech	NOS		0	
						
7	Visitor Chair	Interio office visitor chair with seat D X W X H 500mm 500mm 450 Padded with Polyurethane foam	NOS		4	
8	CUE 3 Seater 700mm	Providing Cue three seater sofa of understructure which is made up of combination of 25mm & 18 mm thk MDF block panels. The bare MDF structure is covered with 5mm MDF Sheet to provide a backing surface for foam padding. Pouf understructure is made up of plywood 12+/-1mm thk. The structure is covered with 3 mm MDF sheet to provide a backing surface for foam padding. The panel has 6mm PU foam of 60 Kg/m3 density on outer surfaces to give a soft touch and feel. The top structure of Pouf i.e., seating surfaces has slab foam of 32 Kg/m3 on the top for soft feel while the sides of the top structure is covered with PU foam of 28 KG/m3 density all around. The bottom structure has 6mm PU foam of 60 KG/m3 density on all four vertical sides to give a soft touch & feel. Panels upholstered with stitched covers made up of 230+/- 20 GSM polyester fabric. Pouf consists of two separate upholstered stitched covers made up of 340+/-20 GSM (for top structure) & 230+/-20 GSM ( for bottom) polyester fabric	NOS		2	
9						
9	PISA Center Table	Providing the pisa center table glass made of 10+/-0.3mm thick black tinted toughened glass UV glued with bushes made in SS 202grade for fixing with understructure. Understructure of it is a welded assembly made in SS 202grade having diameter of 12+/-0.04.	NOS		2	

						
10	OPTIMIZER	2 BAY DRIVE UNIT As per layout	NOS		1	
						
		TOTAL				

<b>ELECTRICAL WORKS</b>					
<b>S NO</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
1	<b>DISTRIBUTION BOARDS</b>				
	Supply and installation of following size MCB distribution boards with following combination of MCBs as required				
2	Supply, installation Testing and Commissioning of main LT panel, floor mounted front operated totally enclosed vermin proof, indoor non-drawout-cubicle type power panel fabricated out of 2mm thk CRCA sheet having gasketed hinged cover on each cubicle fully powder coated after 7 Tank treatment, incorporating horizontal and vertical sleeved copper busbars, complete with all internal wiring, danger board, 2 earthing legs, cable chamber etc as required, housing below mentioned switch gears / meter including following switchgear as per single line diagram and technical specifications (GA drawing of the panel got to be approved by Consultant)	1	Nos		
	Incomer: a) Incoming EB : 160A, 25kA 4 Pole MCCB c) Phases Indicating lamps LED type with fuse control -1Set d) On, off, trip, indication lamps - 1Set e) 0 to 160 Amps Ampere meter with selector switch -1 job f) 0 to 500volts voltage meter- 1 job BUS BAR : 160A TPN Aluminium bus bar Out Goings: 1) 63A, 4P, MCB -4 Nos 2) 40A, 4P, MCB -4 No 3) 32A, 2P, MCB-4No				
3	6 way Three Phase Vertical DB (with Double door) for AC distribution board i)Incomer: 63A 4P 10KA MCB ii)Outgoing: a) 40A TP MCB 3Nos, b) 16A SP MCB 6 no's	1	Nos		
4	3PHASE 8 way ETPN DB - i)Incomer: 63A TPN MCB, 25A DP RCCB -3Nos ii)Outgoing: 10/16A SP MCB 18 Nos for Power db .	1	Nos		
5	3PHASE 6 way ETPN DB - i)Incomer: 40A TPN MCB,, 25A DP RCCB -3Nos ii)Outgoing: 10/16A SP MCB 12 Nos for Lighting db .	1	Nos		
6	1PHASE 12 way SPN DB - i)Incomer: 32A DP RCCB, ii)Outgoing: 10/16A SP MCB 10 Nos for UPS db .	1	Nos		
	<b>ENCLOUSERS</b>				
7	25A TP MCB with weather proof encloser for VRV Units	2	Nos		

8	32A 2P MCB with weather proof encloser for UPS Input & OUTPUT	5	Nos		
9	16/20A SP MCB with weather proof encloser for Ac Units	7	Nos		
	<b>MCCB</b>				
10	160A TP MCCB with encloser	3	Nos.		
	<b>CABLES</b>				
	<b>SUBMAINS</b>				
11	Supply and laying following size 1.1KV grade PVC insulated armoured aluminium/Cu. FRLS conductor under ground cable on the surface of wall, above false ceiling along with 2runs of 12swg GI wire with all installation materials. The cable shall conform to IS 1554 Part- I. scope also includes termination of the cable as required with suitable glands and lugs				
	1) 3.5C X 70 Sq.mm AL. Arm cable for MAIN INCOMING	240	mtr		
	2) 4C X 16 Sq.mm Cu. Arm cable	100	mtr		
	3) 4C X 6 Sq.mm Cu. Arm cable	85	mtr		
	4) 3C X 6 Sq.mm Cu. Flx cable	90	mtr		
	5) 1C X 10 Sq.mm Cu. Flx cable	85	mtr		
12	Providing end terminations for following size cables including supply of Compression type cable gland, lugs, insulation tape and identification tags complete with end termination and earthing of gland.				
	1) 3.5C X 70 Sq.mm AL. Arm cable for MAIN INCOMING	2	Nos		
	2) 4C X 16 Sq.mm Cu. Arm cable	4	Nos		
	3) 4C X 6 Sq.mm Cu. Arm cable	8	Nos		
	4) 3C X 6 Sq.mm Cu. Flx cable	6	Nos		
	5) 1C X 10 Sq.mm Cu. Flx cable	8	Nos		
13	3core 2.5sqmm Copper Conductor Cable for Glow Sign Board & Indoor ac's	95	mtr		
	<b>POINT WIRING - LIGHTS &amp; CEILING FANS</b>				
14	Point wiring with 1.5sqmm FRLS 650V grade multistranded PVC insulated copper wire in 2mm thick 25mm dia PVC pipe for lights, fans including supply & fixing of 5 amp modular switch in concealed MS switch box, front plate, 3 plate ceiling rose, and concealed circuit wiring with 3 Nos (P,N,E) 2.5sqmm (DB's to switchboards & switch board to switch boards loopings). and all interconnections as required.	98	pts		
15	Same as above but for secondary points looped from the above	40	pts		
16	Same as point wiring but for the call bell points for the cabins including supply of call bell as required	5	pts		

17	Supply and fixing of 1nos. 6A sockets fixed the switch board with 1 no 6A switch including all interconnections as required for raw power	4	Nos		
18	<b>POINT WIRING- WALL MOUNTING FANS :</b>				
	Wiring for the wall mounting fans from the nearest switch board with 1.5sqmm FRLS 650V grade multistranded PVC insulated copper wire in 20mm dia 2mm thick PVC pipe and all interconnections as required including the supply and fixing of 6A modular socket 3" below the false ceiling and 6A switch in the switchboard as required.	12	Nos		
19	<b>WIRING FOR AIRCONDITIONERS :</b>				
	Wiring with 1100V grade PVC insulated Copper conductor multistrand wires along with 2Runs of 2.5mm +1Run of 1.0mm FRLS copper wire run in suitable size 2 mm thick 25mm dia PVC conduit run concealed on wall/ Ceiling etc as required for Single phase ACs	12	Nos		
20	<b>SOCKETS - RAW :</b>				
	<b>RAW Socket - 1 x 6A</b>				
21	Supply and fixing of 1nos. 6A socket fixed Above the table with 1 no 6A switch fixed above the table on 3 module metal box and white front plate (Modular type)with 2runs of 2.5 sq.mm FRLS and 1 run of 2.5sqmm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in 25mm dia PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories,interconnections complete as required for the raw power primary sockets (DB to work stations Primary point)	18	Nos		
22	same as above but looped from nearest Raw Power point (Primary point to Secondary point)	4	Nos		
23	<b>RAW Socket - 1 x 5/15A</b>				
24	Supply and fixing of 1nos. 6/16A sockets with 1 no16A switch fixed on a suitable module metal box and white front plate (Modular type) wiring with 2runs of 4.0 sq.mm FRLS and 1 run of 2.5sqmm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size PVC conduit of 2mm thick concealed in wall/ floor and supply of all fixing materials and accessories,interconnections complete as required for the raw power primary sockets (DB to Primary point)	11	Nos		
25	same as above but looped from nearest Raw Power point(Primary point to Secondary point)	7	Nos		
	<b>SOCKETS - UPS:</b>				

26	<b>UPS Sockets - 3 x 6A</b>				
27	Supply and fixing of 3nos. 6A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) including all interconnections as required (switch shall be fixed above the table with suitable modular front plate /box and sockets shall be fixed below the counters) with 3runs of 2.5 sq.mm FRLS grade 1100 V PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size PVC conduit of 2mm thick concealed in the above ducts in the floor and supply of all fixing materials and accessories, interconnections complete as required for the UPS power sockets. (DB to work stations Primary point)	14	Nos		
28	same as above but looped from nearest UPS Power point (Primary point to Secondary point)	4	Nos		
29	<b>UPS Sockets - 2 x 16A</b>				
	Supply and fixing of 2nos. 6/16A sockets with 1 no 16A switch fixed on a suitable module metal box and white front plate (Modular type) with 2runs of 4.0 sq.mm FRLS and 1 run of 2.5sqmm FRLS 1100 V grade PVC insulated multi strand copper conductor wires conforming to IS 694 (with latest amendments) in suitable size PVC conduit of 2mm thick concealed in wall/floor and supply of all fixing materials and accessories, interconnections complete as required for the UPS power primary sockets (DB to Primary point)	6	Nos		
	<b>TELEPHONE &amp; DATA :</b>				
30	Supply and fixing of RJ 11 Telephone socket with 2 Pair (0.5mm) Telephone Cable From Each Table to Krone Box, this include suitable Surface/ concealed box and all required materials this Includes Wiring. Supply and fixing of Suitable PVC Conduits and Cable Numbers to provided.	14	Nos		
31	Supplying and fixing a 20 pair krone connector in a suitable box as required. AGM antiroom and Mintanance room	1	Nos		
32					
33	Supply and Laying of 4Pair, UTP(Unshielded Twisted Pair) cat6 Lan Cable with Information outlet and Suitable 2mm Thick PVC Pipe Laying Below Flooring/Wall/Slab etc MS Junction Boxes to All Tables, Including all Related Civil Works etc All Cable Numbers to be Provided at both ends	28	Nos		
34	supply & fixing of 7 feet Patch Cords.	28	Nos		
35	supply & fixing of 3 feet Patch Cords.	28	Nos		

36	Supply & Fixing of 24 Port Jack Panel & switch	2	Nos		
37	Supply & Fixing of 9U Rack with Acceries(Self, Po	1	Nos		
<b>SUPPLY AND INSTALLATION OF LIGHTING FIXTURES</b>					
	Supply & Installation of following type Fluorescent / Compact fluorescent / Incandescent light fixtures. The fixtures shall be installed including supply and wiring between Ceiling rose to fixture with supply and laying of 3core 1.5Sq.mm copper flexible cable and fixing of Lamp with all required accessories, support chains & interconnections etc.				
38	Supply & Installation of 36W Back Lit Polar Panel Light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	0	Nos		
39	Supply & Installation of 36W 2x2 Down lights fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	12	Nos		
40	Supply & Installation of 15W Led Astra round surface mount down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	32	Nos		
41	Supply & Installation of 25W 4' Led Linear Light fixtures including cost and conveyance of all materials, taxes and all labor charges etc., complete.	14	Nos		
42	Supply & Installation of 20 W T5 led Light fixtures 1200MM Length and giving connections and all labour charges etc., complete for erection.	14	Nos		
43	Supply & Installation of 20 W T5 led Light fixtures 600MM Length and giving connections and all labour charges etc., complete for erection.	6	Nos		
44	Supply & Installation of 10W Led Mirror light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	3	Nos		
45	Supply & Installation of 6W Led down light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	10	Nos		
46	Supply & Installation of 30W Led Pendent light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	8	Nos		
47	Supply & Installation of LED Spot Linear Light for Ceiling Fixing (as per drawings) . including cost and conveyance of all materials, taxes and all labor charges etc., complete.	15	Nos		



48	Supply & Installation of 20W Led holder light fixture. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	5	Nos		
49	Supply & Installation of Under Flooring led Strip light per Mtr-3 Watts. including cost and conveyance of all materials, taxes and all labor charges etc., complete.	25	mtr		
50	<b>Wall Mounting Fans</b>				
	Supply and Fixing of wall mounted fans of approved make 400mm Hi flow model.	13	Nos		
51	<b>Ceiling Mounting Fans</b>				
	Supply and fixing of 600mm (48") size ceiling fan hi speed Crompton Greaves Rivera model with 120W step type regulator (Including 2F lenth down road and Hooks) of approved makewith all connections and anchor fasteners ,fan hooks, down rods etc as required	1	Nos		
52	<b>Exhaust Fans</b>				
	Supply & Installation of 6" size inline fresh air exhaust fan light duty , Metallic body plastic blades, wire mesh, bird louvers etc. including cost and conveyance of all materials, taxes and all labor charges etc., complete for eraction inclusive of connecting pipe &6 no. of diffusers.	3	Nos		
	<b>EARTHING</b>				
53	Providing standard copper plate earth station ,with 600x600x3.15mm thick copper plate, 40mm dia, 2.5 mtr GI pipe with 25X3 copper strips runs on both sides up to top of the earth pit including excavation and construction of brick pedestal providing meshed funnel, CI cover and other Civil works, spreading a homogeneous mixture of salt, charcoal around the plate etc completely as per IS 3043,1987 or latest revision	4	Nos		
54	Providing G.I earth station, with 40mm dia, 2500mm long galvanized iron pipe including construction of brick pedestal providing meshed funnel CI cover and other Civil works, spreading a homogenous mixture of salt charcoal around the pipe etc., Completely as per IS 3043,1987 or latest revision.	4	Nos		
55	Supply & Laying of 100mmX 25mmX 5mm Copper strip with supporting insulator and holes	3	Nos		
56	Supply and laying of 8SWG CU Wire in 20mm dia rigid pvc conduit for ups DB earthing from the existing earth pits in PVC conduit of suitable size	90	mtr		
57	Supply and laying of 8SWG GI Wire in 20mm dia rigid pvc conduit for Raw power & Lighting DB earthing from the existing earth pits as required in PVC conduit of suitable size.	50	mtr		

58	Supply & Laying of 25mmX 5mm Copper strip with supporting insulator	60	mtr		
59	Supply & Laying of 25mmX 3mm Copper strip with supporting insulator	90	mtr		
60	Supply & Laying of 25mmX 6mm GI strip with supporting insulator	80	mtr		
61	Supply & Laying of 25mmX 3mm GI strip with supporting insulator	85	mtr		
62	Supply, Installation, Testing and Commissioning of BULLET CAMERA/2 Mega Pixel/4 or 6mm Lens/Multiple Streaming/CMOS/On VIF/POE/H 2.64/30 Mtrs	6	Nos		
63	Supply, Installation, Testing and Commissioning of 8 channel 2U standalone Network Video Recorder, Oct core CPU presents the powerful preview, recording, playback and network performance, Up to 4 channel 1080P cameras realtime live view	1	Nos		
64	Supply, Installation, Testing and Commissioning of satta HDD 8 TB sea gate ( 30 Days)	1	Nos		
65	Supply, Installation, Testing and Commissioning of Switch 8 Port	1	Nos		
66	Supply & Laying of CAT 6 Cable	120	Rmt		
67	2C x 1.0 Sq.mm	60	Rmt		
68	BNC Connectors,Pins	6	Nos		
69	PVC Conduit with accessories	50	Nos		
70	Wall mount 6 U Rack with all accessories	1	Nos		
	<b>FIRE ALARM</b>				
71	Supply, Installation, testing and commissioning of wall mounting 2 zone conventional fire alarm control panel Makes: Pinnacle / GST / Ravel.	1	Nos.		
72	Supply and installation of duel tone electronic hooter of 85dB including the cost of mounting accessories complete as per specifications and as required. Makes: Pinnacle / GST / Ravel.	2	Nos.		
73	Supply and installation of dust and vermin proof manual call point to initiate audio visual alarm including the cost of mounting accessories complete as per specifications and as required. Makes: Pinnacle / GST / Ravel.	2	Nos.		

74	Supply and installation of plug -in type photo electric smoke detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base. Mounting accessories etc complete and as per specifications and as required. Makes: System Censor / Ravel	13	Nos.		
75	Supply and installation of plug -in type rate of rise cum fixed temperature heat detectors including the cost of base plate. 75mm dia MS outlet box for fixing of the detector base, mounting accessories etc., complete as per specifications and as required. Makes: System Censor / Ravel	2	Nos.		
76	Supply, Installation, Testing and commissioning of Fault Isolator Modules for 20 no's of devices with MS Powder coated Housing and mounting accessories	2	Nos.		
77	Supply and fixing of Co2 type Fire Extinguishers 4.5 Kg capacity confirming to IS 2878 made from ISI marked steam less cylinder confirming to IS:7285 & CE certified and fitted with ISI marked controlled valve confirming to IS:3224, high pressure 1 Mtr discharge hose & horn complete with initial gas charged with carrying handle with wheels and wall mounting bracket. Squeeze lever discharge, used un-used indicator, Aphoxy coated paint (Red) with 93% gloss with 2 years warranty Including transportation, all taxes and all labour charges etc complete.Makes : Safex / Kenex / Bharat / Reliance/NewTech	5	Nos.		
	<b>MISCELLENIOUS WORK</b>				
78	AS BUILT DRAWING Soft copies and 1 sets of A3 colour prints with laminations	2	sets		
79	Supply & Installation of rubber mats of 2000 mm x 600mm & thickness of 10mm 1.1 KV Voltage grade.	2	Nos		
80	Supply , Erection ,testing and Commisioning of 5KVA Microprocessor based double conversion on line UPS System with 3 phase input and 1ph output as per the requirement/ Technical Specifications IGBT INVERTER Including Batteries	1	Nos		
81	Supply , Erection ,testing and Commisioning of startlingly clear images in a more eco-friendly way. High on performance and reliability, yet low on power consumption, it is ideal for projects where there is no room for compromise. 55", Full HD, 350 Cd/M2, HDMI, VGA, USB, DVI-D, RJ-45	0	Nos		
82	Fire fighting - splinklers modification	0	Nos		

83	Supply , Erection ,testing and Commisioning of Hot & cold & normal water Dispensar TOP load	1	Nos		
84	Supply , Erection ,testing and Commisioning of Professional Wireless Goosneck Conference Wireless Microphone Desktop Conference Series On and Off Power Button with Wireless Receiver	2	Nos		
85	Supply , Erection ,testing and Commisioning of Automatic Sensor High Speed Hand Dryer	2	Nos		
86	Supply , Erection ,testing and Commisioning of EPBAX 2 Incoming and 24 outgoings	1	Nos		
87	Supply , Erection ,testing and Commisioning of SAMSUNG 180 Litres 3 Star Frost Free Single Door Convertible Refrigerator	0	Nos		
	<b>DG SET</b>				
	Supply installation testing and commissioning of 415V, 3phase 50HZ, 4 wire Radiator cooled 40 KVA DG set with Acoustic Enclosure with 160A TPN MCCB, Control panel with AMF RELAY. The Diesel Engine shall be complete with necessary control and safety devices as per CPCB II & IS/ BS specifications. The Engine shall be suitable for continuous operation of Generator, inclusive of Flywheel, flexible coupling, air cleaner, corrosion resistor, Radiator, fan with guard, Fuel pump,fuel filter, Electronic governor, starting system with separate Battery charger with 2nos 24Vsealed low Maintenance Batteries, Voltage regulator, Instrument panel with RPM Indicator, Exhaust silencer (residential), protections against Low Lube oil pressure, high water temperature and with 120Ltrs capacity fuel tank with all pipe connections, fuel lines from Fuel tank to DG set, battery s				
88	40 kVA DG Set	1	Nos		
89	AMF panel Incoming 160A MCCB's-2 no's and Outgoing 160A MCCB - 1 no	1	Nos		
	<b>FLUE PIPING AND CONTROL CABLES</b>				
	<b>EXHAUST PIPING</b>				

	Supplying, fixing & installing exhaust pipe fabricated out of 5 mm thick Class B MS and all fixing accessories and hardware for the following with 28G, aluminium sheet cladding & 100 mm thick 150 kg / cu M density mineral wool insulation wrapped in chicken mesh including all supporting structure with arrangements like Supporting frames, Hooks, Clamps, Hardware & Fasteners Etc complete as required.				
90	100 mm dia MS Exhaust pipe including all necessary long bends, Short bends, Tees, residential silencer Etc. complete with insulation as above, flange, hardware and painting in approved color & MS -ISMC Channels and Angles supports- for exhaust pipe & residential silencer.	25	Rmt		
91	Mineral wool / glass wool lagging for exhaust pipe system including aluminium cladding	40	Rmt		
92	Mineral wool / glass wool lagging for silencers	1	Nos		
93	Flexible bellows with suitable size of the flange.	1	Nos		
94	Supply and erection of Exhaust pipe supporting system with ISMC, ISAs complete including red oxide and black enamel painting and RCC foundation	200	Kgs.		
<b>COPPER CONDUCTOR CONTROL CABLES</b>					
95	Supply and terminating of XLPE / SWA / PVC Control Cabling from Main LT panel to DG Synch./AMF panel for mains ( using suitable no. of cores 2.5 sq.mm PVC insulated copper conductor control cable), between engine and DG panel sensing for sensing engine parameters, lub oil level, temperature, speed ,bearing temperature, Including all control cables etc.	1	set - LS		
<b>DG RELATED MISCELLANEOUS ITEMS</b>					
96	4.5 Kg co2 type fire extinguisher	2	Nos.		
97	Supply for first fill of lube oil (Castrol / HPL / IOCL) and diesel of 150 Ltrs.	1	Nos.		
98	Hand operated fuel transfer pump with flexible hose PVC pipe of 5M length.	1	Nos.		
			<b>TOTAL</b>		

<b>HVAC WORKS WITH VARIABLE REFRIGERANT VOLUME / FLOW (VRV/F) SYSTEM</b>					
<b>S NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>1</b>	Supplying, installing, testing and commissioning of VRF outdoor units of the following capacities. The scope includes making of suitable MS frames with railing, Channels, required installation accessories such as necessary bolts, screws & nuts, connecting kits etc, complete and necessary Interconnections of Power cables from Out door units panel, and earthing/ Refrigerant connections. The capacity of the Units shall be the nearest rating based on manufacturer.				
	The Outdoor condensing unit comprising of Inverter compressor's, Heat Exchanger, propeller / axial fans, refrigerant Circuit, Safety Devices & Oil Recovery System and in built starter. The starter unit shall be operated both from local and remote. The Refrigerant from the outdoor unit is distributed to the various indoor units thru a set of insulated refrigerant piping network, The outdoor unit shall have the multi-step of capacity control to meet load fluctuation and indoor unit individual control. Unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping. System suitable for Cooling Mode only and for R-410a / Eqv. Outdoor condensing unit comprising of filter driers, sight glass, liquid receivers, accumulators, Safety Devices, Oil Recovery System with complete charge of gas and recommended oil. The outdoor unit shall be fully capable of working in conjunction with multiple indoor units of various capacities as listed in this BOQ.				
	Refrigerant Circuit shall include an accumulator, liquid and gas shut off valves, ball valves, distribution / refrigerant joints, control valves, and solenoid valves. Unit shall be equipped with an oil recovery system to ensure stable operation with long refrigerant piping. Refrigerant should be R410A and As per Indian Seasonal Energy Efficiency Ratio. The outdoor unit shall be mounted on VI pads to avoid vibrations.				
	The initial Charge of refrigerant gas - R 410 A for all outdoor units as specified				

	Termination for cables & MS Angles fabrication & all necessary clamps, etc for Mounting of Indoor & Outdoor Units, the MS angle frame as per ODU dimensions and consider 1.5 mtrs height railing all around the ODU with 1 mtr clear space all around the ODU				
i)	22 HP	Nos.	1		
2	Supply of VRV/VRF -4 Way Cassete Indoor Units of the following actual capacities. The scope includes required Cordless/Cord Remotes supports with necessary Panels,bolts, screws&nuts etc, and necessary interconnections with Power supply/ earthing/ Refrigerant Connections Complete as required and as per drawing. The capacity of the Units shall be the nearest rating based on manufacturer				
i)	1.00 TR	Nos.	2		
ii)	1.60 TR	Nos.	3		
iii)	2.56 TR	Nos.	4		
3	Supply of VRV/VRF -Hi-Wall Indoor Units having drain pump of the following actual capacities. The scope includes required Cordless/Cord Remotes supports with necessary Panels,bolts, screws&nuts etc, and necessary interconnections with Power supply/ earthing/ Refrigerant Connections Complete as required and as per drawing. The capacity of the Units shall be the nearest rating based on manufacturer				
i)	1.28 TR	Nos.	1		
4	Supply, installation, testing & commissioning of Stand alone System controller with Display for controlling the indoor & outdoor units from a Remote place for all the circuits.	Nos.	0		
5	Supply, installation, testing & commissioning of Required size/ quantity of Ref.net Joints & Multi kits for Indoor units.	Nos.	20		
	<b>SUB TOTAL A</b>				
	<b>GST @ 28%</b>				
6	Supply, installation, testing & commissioning of 16 SWG copper Refrigerant Piping of various sizes as given below. The rate shall include Copper pipe and insulation with 13 mm Thick Nitrile rubber tube (i.e. As per Unit Manufacturer recommendation) and necessary Installation accessories such as supports and clamps. The sizes given shall be verified by Supplier for adequacy and size based on manufacturer standards.				

i)	6.35 mm dia.	Rmt	50		
ii)	9.52 mm dia.	Rmt	25		
iii)	12.70 mm dia.	Rmt	40		
iv)	15.88 mm dia.	Rmt	44		
v)	19.08 mm dia.	Rmt	18		
vi)	22.22 mm dia.	Rmt	24		
vii)	28.58 mm dia.	Rmt	45		
viii)	34.92 mm dia.	Rmt	0		
<b>7</b>	Supply, installation, testing & commissioning of UPVC heavy duty drain pipe of various sizes as given below. The rate shall include insulation with 6 mm Thick Nitrile rubber tube and necessary Installation accessories such as supports and clamps. The sizes given shall be verified by Supplier for adequacy and size based on manufacturer standards.				
i)	25 mm (ID)	Rmt	38		
ii)	32 mm (ID)	Rmt	15		
iii)	40 mm (ID)	Rmt	12		
<b>8</b>	Supply, laying and commissioning of required size Power and Communication cable with including all accessories and including connecting.				
i)	(3 core x 1.0 Sq mm)Unarmoured Copper FRLS cable / as required for control from indoor units to outdoor units.	Rmt	95		
ii)	(2 Core x 1.0 sqmm)Control cabling for corded Remotes thru FRLS PVC Conduit for Indoor units	Rmt	65		
<b>9</b>	Supply, installation, testing and commissioning of initial Charge of refrigerant gas - R 410 A for all outdoor units as specified above	Lot	1		
<b>10</b>	Pressure testing of the entire system with Nitrogen and vaccumizing the nitrogen for all outdoor units as specified above	Lot	1		
<b>11</b>	Termination for cables & MS Angles fabrication & all necessary clamps, etc for Mounting of Indoor & Outdoor Units.	Lot	1		
<b>12</b>	GSS Tray type support covered with GI sheet on top for all exposed copper pipes running on terrace/ balcony.	Rmt	5		
<b>13</b>	MS Stands for VRV Outdoor units	Kgs	60		
	<b>SUB TOTAL B</b>				
	<b>Extra GST @ 18%</b>				
	<b>GRAND TOTAL(A+B)</b>				
	Approved brands: MITSUBISHI ELECTRIC / LG / BLUE STAR / DAIKIN				



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CIVIL WORKS					
S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<b>DISMANTLING OF FLOORING / DADO / WALL</b>	LS	1		
	Dismantling existing flooring, dadoing, wall panelling, partitions, false ceiling, tables, platforms, counters of marble, granite, Doors, Cupboards, Window plywood covering, existing wiring, light fixtures, LAN, electrical fixtures etc. including transportation, all edges, gaps smoothing finishing. No extra payment will be paid.				
2	<b>CEMENT CONCRETE FLOORING</b>				
	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes the cost of cement slurry, but excluding the cost of nosing of steps etc. complete. 12" raised base in concrete for mounting Genset to be considered. The location of Genset located faraway	Cft	100		
3	<b>GRANITE TOP</b>				
	Providing and Fixing imported granite counter of Sindhura Red texture of thickness 19mm gangsaw cut and polished as per the directions of the architect. Surfaces like tops, sills & sides. All the edges should be moulded to bullnose/ chamfered as per design / drg. The rate shall include necessary cement mortar 1:4, joint filling compound of same colour. Basic cost of tile 450/-.	Sft	92		
4	<b>RCC SLAB</b>	Rft	20		
	Providing and laying 0'4" tk. RCC platform of M20 (1:1.5:3) concrete (2'-0" width clear) . It shall be supported on brick wall. The rate including necessary steel bars to complete				
5	<b>UPVC VENTILATORS</b>	Sft	16		

	Providing and fixing factory-made uPVC white colour sliding glazed window above 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, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi-point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with a hook (if required for wire mesh panel),				
	stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 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. (including 8mm thk. Single / double glass panes and silicon sealant). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
	Two/Three track two/three panels sliding 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 single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.) approved brand Fenesta / Aparna.				
6	<b>SPECIALISED ACRYLIC POLYMER ELASTOMERIC CEMENTITIOUS WATERPROOF COATING TREATMENT TO THE TOILETS</b>				
	Cleaning of the surface from dirt, dust and other contaminations. Providing and applying two coats of Acrylic Polymer Elastomeric Cementitious waterproof coating with – ROOFCOAT FLEXI 100 (Armstrong) mixing with cement as per manufacturers specifications.	Sft	670		
	<b>TOTAL</b>				

PLUMBING WORKS					
S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Make: Jaquar/ Toto/ Cera				
<b>A</b>	<b>SANITARY FIXTURES &amp; CP FITTINGS</b>				
<b>1</b>	Supply, Installation and commissioning approved make wash down <b>wall mounted EWC</b> conforming to IS:2556 (Part 16)- 2002 with 'P' or 'S' trap with concealed flush cistern fixed in wall with all internal parts of dual flush cistern, ultra-solid seat cover of approved make with rubber buffer and cap all of approved make etc. complete for finished item of work in all respects: White colour. Basic rate 20000/-.	Nos	4		
<b>2</b>	Supply and fixing of approved make 50% of white glazed 410x505x195 mm size Wall Hang Basin .The basin is mounted over GI rag bolts and the basin is fitted with the following CP brass fittings like 32 mm CP brass waste coupling CP brass bottle trap of casted type, 15 mm CP brass angular stop cock with wall flange 01 No's and 15 mm x 450 mm long PVC flexible hose inlet connecting pipe with end nuts for the Cold water connections etc. Basic rate 4000/-.	Nos	2		
<b>3</b>	Installation, testing & commissioning of <b>Pantry sink</b> with Double bowl with drain board manufactured from 1mm thick stainless steel, 18G high grade chrome nickel steel with top quality polish,(brush steel finish) 1no.40mm dia Cp waste coupling,with 1no.40mm dia CP Bottle trap with extension pipe, 15mm dia rigid/swing gooseneck spout and necessary CP extension nipples, wall flanges etc.,complete. Basic rate 10000/-.	Nos	1		
<b>4</b>	Installing & testing <b>CP Health faucet</b> of approved make and 2 way bib cock with necessary CP flexible hose, CP wall flange , CP extension nipples etc complete. Basic rate 1100/-.	Nos	4		
<b>5</b>	Fixing approved make <b>CP Double coat hook</b> fixed on wall by using with SS screws in the toilet Area	Nos	4		
<b>6</b>	Supply, Installation and commissioning approved mak white vitreous china urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard 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 Basic rate 3000/-.	Nos	2		

7	Fixing of approved make <b>Mirror</b> of having 6 mm thick with copper backing and fixed on to 8 mm thick water proof plywood sheets with CP clamps, CP hooks, CP screws and the sides of the mirror shall be covered with PVC frame of approved colour etc., complete.	Sqm	3		
8	Supplying, installing and testing in position <b>110 PVC Nani traps</b> of self cleansing design with outlet size of 75 mm diameter , including making connection with PVC soil / waste pipes using rubber gaskets, and fixing of SS gratings etc., complete all as specified & directed.	Nos	7		
	<b>TOTAL</b>				