

6.0	PAINTING/VENEER/LAMINATE/CORIAN/POLISHING								
6.1	PAINT ON CEILING	Providing & applying two or more coats of Plastic paint of approved quality & shade on prepared surface by sand papering the surface, applying one coat of primer, prepare the surface with two coats of full putty, sand papering again, repeating a coat of primer & applying two final roller coats of plastic emulsion paint on internal walls /ceilings /masonry /concrete surfaces incl. scaffolding etc.							
	PT-01	Paint PT-01 Rich Charcoal - 8645	Sq m	20.00	6.20	2.70		16.74	✓
	PT-02	Paint PT-02 Absolute White - L161	Sq m	20.00	8.78	0.25		2.20	✓
								18.94	
6.2	PU PAINT ON WALLS	Providing & applying two or more coats of PU paint of approved quality & shade on prepared surface by sand papering the surface, applying one coat of primer, prepare the surface with two coats of full putty, sand papering again, repeating a coat of primer & applying two final roller coats of plastic emulsion paint on internal walls /ceilings /masonry /concrete surfaces incl. scaffolding etc.							
	PT-05	Paint PT-05 Caravel Yellow - 5135	Sq m	23.00	2.85		2.35	6.70	✓
					5.90		2.35	13.87	✓
					1.30		2.35	3.06	✓
					0.48		3.40	1.63	✓
					0.50		3.40	1.70	✓
					5.52		1.00	5.52	✓
							Total	32.47	
6.3	VENEER ON CEILING	Providing & fixing Veneer over existing surface to completed as per details & design given in drawing/Architect instruction.							
	VR-01	Veneer VR-01, Greenlam American Walnut (Crown & Qtr. Cut)	Sq m	25.00	2.76	6.79		18.74	✓
					1.30	2.69		3.50	✓
					12.50	0.30		3.75	✓
					5.26	0.30		1.58	✓
							Total	27.57	✓
6.4	CORIAN CLADDING	Providing and fixing vertical Corian stripe of width upto 150mm (near cold display & lowered storage unit) over existing panel/ as shown in detail drawing							
	CR-01	Corian CR-01, C-100 Cubic White, Make - Hanex	Sq m	1.50				1.50	✓
		SUB TOTAL OF PAINTING/POLISHING						TOTAL	1.50
7.00	FALSE CEILING WORK								
7.1	HDF CEILING (ABOVE MOH & FOH)	Providing & fixing suspended ceiling made of Double 12mm thk. HDF (above MOH & FOH) hanged from the roof slab with the help of necessary framework or suspended grid formed of GI perimeter channel and fixed along the wall by using wood screws & metal expansion rawl plugs, including all drops, coves, offsets in design etc if required, to receive paint finish above MOH & Veneer finish with grooves as required above FOH as shown in ceiling drawing. Rate to be inclusive cutting for lights, grills/ ducts etc., completed as per the details are provided in drawings or as directed by Architect/Engineer.	Sq m.	42.00	6.09	2.69		16.38	
					2.85	7.39		21.06	
					1.30	2.69		3.50	
					8.78	0.07		0.61	
					0.10	17.50		1.75	
							Total	43.31	✓
		SUB TOTAL OF FALSE CEILING							
8.00	MS/SS WORKS & MISCELLANEOUS WORK								
8.1	SITE BARRICADING	Providing and fixing MS framing with GI pre-painted corrugated sheet (3m high) to cover construction portion as indicated in architect's drawing including all fixing material as per requirement of the PMC, provision of secured pedestrian access doors through barricade including all civil work and foundation etc. The barricade will have to be retained and maintained by the contractor till the end of the project. The barricade must be structurally sound to withstand wind and other applicable loads. (ONLY ACTUAL SURFACE AREA OF THE COVERING TO BE MEASURED FOR PAYMENT ONCE UPTO THE COMPLETION OF THE WORK.)	Sq m.		7.00	3.00		21.00	✓
8.2	TRANSITION FLOOR PROFILE	Providing & fixing 25mm wide Brass Floor Transition Profile fixed between two different flooring as shown in detail flooring drawing.	R.m.	6.00					
8.3	CEILING BRASS PROFILE	Providing & fixing 10mm wide & 4mm high Brass Profile in ceiling over existing surface as shown in detail ceiling drawing.	R.m.	25.00	17.40	7.20		24.60	✓
8.4	PLANTERS	Providing and laying planters pots as per selection along with Pot/vask as required and as shown in detail drawings.	Nos.	2.00					
8.5	VERTICAL MS PIPES	Providing & fixing 25x50mm vertical MS hollow pipe fixed at floor & bottom of existing airport's signage portal. Pipe to be finished with 12mm thk. HDF frommm all sides finished with PU Paint PT-06. Rate is inclusive of all necessary hardware & fixtures. Please refer the design & details given in drawing/Architect instruction.	R.m.	15.00	5.00	3.00		15.00	✓

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8.6	RAILING	Providing and fixing MS railing made of outer MS frame of 25x50mm MS section & internal bars of 12x12mm MS pipe. Complete MS work to be finish with Paint PT-05. Top of the railing to be made of 100mm wide & 50mm high handrail made of double 18mm thk. HDHMR board horizontally & both side surfaces to be packed with same board to achieve 50mm height from side. Complete HDHMR work to be finish with Veneer VR-01. Please refer the drawing for complete detail. Rate is inclusive of all necessary hardware & fixtures. Elevation area to be measured of railing.	Sq.m.	3.00		3.55	1.00		3.55	<input checked="" type="checkbox"/>	
	SUB TOTAL OF MS/SS WORKS & MISCELLANEOUS WORK										
9.00	SIGNAGES										

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9.00		SIGNAGES							
9.1	SIGNAGES	"THIRD WAVE COFFEE" backlit acrylic router cut to shape of branding.							
	a	Maximum Height of signage 350mm							
9.2	SIGNAGES	"CUP LOGO" backlit acrylic router cut to shape of branding.	No.	1.00				1.00	✓
	a	Maximum Height of signage 350mm							
9.3	WALLPAPER	Providing & pasting Tropical Wallpaper over existing surface/paneling. Design of tropical wallpaper to be selected by brand.	No.	1.00				1.00	✓
9.4			Sq. m.	10.00					
		SUB-TOTAL OF SIGNAGES							
9.00		Miscellaneous							
9.1	Equipment	Unloading and shifting till premises	No.	1.00				1.00	✓

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THIRD WAVE COFFEE SHOP, A-04_Lucknow Airport.

Estimated Cost - Electrical Works Dated 04-12-2023

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
	Design, fabrication, assembling, wiring, supply, Erection, Installation, testing and commissioning of MDB Panels fabricated out of 2mm thick for structural members (Load bearing members) and 1.6mm thick for door and covers (Non load bearing members) CRCA painted sheet steel in cubicle formation with reinforcement of suitable size angle iron, channels, T irons, flats wherever necessary for large meter boards. Cable gland plates shall be provided at top and bottom both and windows for meter reading, locking arrangement (pad-lock & seal) with wiring upto KWH meter & meter to MCB shall be done by using adequately rated flexible single core copper wire. The boards shall be treated with all anticorrosive process before painting as per standards with final approved shade of powder coated as approved, 2 nos. earthing terminals shall be provided for all panels. The boards shall be suitable for 415 V, 3 phase, 4 wire, 50 Hz supply system. Boards shall be fabricated in length, height, depth etc to match with site conditions.				
	An approval shall be taken for each panel before manufacturing. Galvanised hardwares with zinc passivation shall be used in fabrication of boards.				
	Note: The following provisions shall be required to be made in the switchboard detailed below				
	The Switchboard shall have provision for entry of all PVCA cables from the top/bottom as required.				
	All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbar insulation shall be with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used.				
	Suitable tinned copper extension links for incoming/outgoing cables shall be provided wherever required				
	Control circuits includes breaker control switch, auto manual selector switch, anti pumping relay, spring charging trip indication, TIMER, control wiring, Auxiliary contactors MCB's as required at site.				
	Positive isolation of all breakers.				
	All fault level breaking capacity indicates shall be ICS value at 415 volts (ICS = ICU = ICW = 100%).				
	Space Heater/ light/air filter shall be provided for each vertical compartment				
	Link and drops from MCCB shall be designed for full rated current of MCCB ratings at same current density as of Main Bus Bar				

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
	2 nos. GI earth strip throughout the panel.				
1	MAIN MDB				
A	Incoming				
	1 No. 80 amps 16 kA 440 volt FP MCCB with Thermal Magnetic overcurrent and short circuit and with following				
B	Metering, Indication & Protection:				
a	1 Nos. 6 Parameter Multi Function Meter with 3 Nos. Cast Resin CTs and MCBs				
b	Breaker ON OFF indication Lamps				
c	R-Y-B indication lamps with MCBs				
d	ELR with CBCT				
C	Bus Bar:				
	100 A, TPN Al. Bus Bar of suitable length having Current density 1Amp/sq.mm & having high conductivity electrical grade suitable to withstand symmetrical fault level of 25 kA. Neutral busbar shall be of 100% capacity.				
D	Outgoings:				
a	1 No. 40 amps 4P MCB (Type C)				
b	1 No. 25 amps 2P MCB (Type C)				
c	2 No. 32 amps 2P MCB (Type C)				
d	1 No. 40 amps 2P MCB + RCCB of 100mA sensitivity.				
e	1 No. 32 amps 4P MCB + RCCB of 100mA sensitivity.				
	PDB (In built Inside the Panel)				
E	1-40amp FP MCB with - 2 single phase banks each comprising of 40A DP RCCB(100 mA) and 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings. - 1 single phase banks each comprising of 32A DP RCCB(100 mA) and 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.				
	Main MDB as described above	1	Set	1	
1.1	DISTRIBUTION BOARDS				

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
	Supply, erection, testing and commissioning of the following sheet steel clad wall recess mounting dust and vermin proof double door type distribution boards constructed from 16 SWG sheet steel IP 42 construction, finished with rust proof duly powder coated in approved shade with hinged gasketed door and housing the following complete with P.V.C. insulated copper busbars rated 200 amp with interconnections, neutral and earth bar assembly per phase, earthing terminals complete as approved by Architects. Note : All MCBs in distribution board for power circuits shall be of C curve				
i	Type A				
	1-40amp FP MCB with 3 single phase banks each comprising of 40A DP RCCB(100 mA) and 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	RO	Set		
ii	Type B				
	1-32 amp DP MCB + DP RCCB (100mA) and 8 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	1	Set	1 ✓	
iii	Type C				
	1-25 amp DP MCB + DP RCCB (100mA) and 6 nos. 6/16/20/25 amps SP 10 kA MCB(Type C) with thermal magnetic protective releases out goings.	1	Set	1 ✓	
2	Supply installation testing and commissioning 1.5 kVA online (1ph input and 1ph output) UPS with 15 Min power back up complete with in buit Static by pass switch , Manual external maintenance by pass switch , Rectifiers , Sealed MF batteries etc as required	1	No.	-	
3	Supply, laying, testing & commissioning of following sizes of Al/Cu. conductor 1.1 kV grade, armoured, XLPE insulated FRLS LT Cables/ Control Cables including necessary cleats, clamps etc. (Cables shall be partly laid in Pipes, O/H cable tray, on wall as required)				
3.1	3.5C – 35.0 (Al.) FRLS Armoured XLPE Cable *	40	Mtrs	39 ✓	
3.2	3C – 6.0 (Cu.) FRLS Armoured XLPE Cable	20	Mtrs	18 ✓	
	* Approximate and shall be as per point of supply from Airport Panel/ Isolator				
4	Supply, erection, testing & commissioning of following sizes of cable end terminations with Single compression gland for 1.1 kV grade, XLPE insulated, Al/Cu Conductor cable				

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
4.1	3.5C - 35.0 (Al.) FRLS Armoured XLPE Cable *(Double Compression)	2	Nos.	2	✓
4.2	3C - 6.0 (Cu.) FRLS Armoured XLPE Cable	2	Nos.	2	✓
5	Wiring for DB Submains with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in surface/concealed MS surface/concealed conduit including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases as required and making suitable end termination with copper lugs complete as required and as below				
5.1	4 x 6 sq.mm + 2 No. 4.0 Sq. mm in 32 mm dia MS Conduit	12	Mtrs	12	✓
5.2	2 x 10 sq.mm + 1 No. 6 Sq. mm in 25 mm dia MS Conduit	15	Mtrs	15	✓
5.3	2 x 6 sq.mm + 1 No. 4 Sq. mm in 25 mm dia MS Conduit	15	Mtrs	15	✓
5.4	2 x 4 sq.mm + 1 No. 2.5 Sq. mm in 25 mm dia MS Conduit	40	Mtrs	38	✓
6	Supplying and laying of the following earthing clamped to wall with suitable clamps saddles and fixing bolts/ in ground including the cost of digging and back filling as required and complete as required to comply with IS 3043:1987. All copper joints shall be tinned. The rates shall be inclusive of making test joints where ever required				
6.1	25X6 mm GI Strip	15	Mtrs	15	✓
6.2	25X3 mm GI Strip	25	Mtrs	25	✓
6.3	8 SWG Copper Wire	30	Mtrs	30	✓
6.4	8 SWG GI Wire	80	Mtrs	79	✓
6.5	1 Core 6.0 Sq. Mm FRLS Green Wire	20	Mtrs	20	✓
7	Supply, erection, testing & commissioning of prefabricated GI Perforated type cable trays including Tees / Bends / Crossing / Reducers / Couping to be laid in cable trench, overhead on wall or hanged from ceiling complete with all accessories as required including support at every 1500mm as required				
7.1	150 mm x 40 x 40 x 2 mm thick with 2 Nos. 25X3mm GI Earth Strip	20	Mtrs	20	✓
8	Wiring for MCB controlled normal primary light points/ Wall Point/ Floor Point with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm dia 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq. mm PVC insulated copper conductor wire for loop earthing etc. complete as required. (Cost of MCB included in the item for per DB).	6	Pt	6	✓

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
9	Wiring for secondary MCB controlled normal light points/ Wall Point/ Floor Point(Looped from above point) with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq mm PVC insulated copper conductor wire for loop earthing etc. complete as required.	25	Pt	25	✓
10	Wiring for MCB controlled Emergency primary light points/ Wall Point/ Floor Point with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm dia 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq. mm PVC insulated copper conductor wire for loop earthing etc. complete as required. (Cost of MCB included in the item for per DB).	1	Pt	1	✓
11	Wiring for secondary MCB controlled Emergency light points/ Wall Point/ Floor Point(Looped from above point) with 1.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade FRLS wires in 25 mm 16 SWG MS conduit in wall / ceiling including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including the cost of running 1.5 Sq mm PVC insulated copper conductor wire for loop earthing etc. complete as required.	6	Pt	6	✓
12	Wiring for a 5 pin 240 volt 6 amp single phase and neutral switch socket outlet with 2.5 sq. mm PVC insulated stranded copper conductor 1100 Volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / ceiling including cost of providing circuit wiring with 2.5 sq mm PVC insulated stranded copper conductor 1100 volt grade wires and including cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and providing and fixing of a combined 5 pin 240 volt 6 amp socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires complete as required(Switch and socket shall be as approved by the architect / Client)	3	Pt.	3	✓

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
13	Wiring same as in Item 12 above looped from an adjacent 6 amp switch socket outlet as required and providing and fixing of a modular type 5 pin 240 Volt 6 amp shuttered socket outlet and a modular type 6 amp 240 Volt single pole switch in a recessed GI boxes with internal wiring and moulded front plates complete as required. (Switch and socket shall be as approved by the architect / Client)	4	Pt.	4	✓
14	Same as above but switch and socket provided at separate location including wiring between switch and socket and complete as required	RO	Pt.		
15	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (1 outlet wired on 1 circuit) with 2.5 sq. mm PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / Ceiling including the cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including providing and fixing 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted modular type switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires and complete as required(Switch and socket shall be as approved by the architect / Client)	4	Pt.	4	✓
16	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (1 outlet wired on 1 circuit) with 4.0 sq. mm PVC insulated stranded copper conductor 1100 volt grade wires (FRLS) in 25mm dia 16 SWG MS conduit in wall / Ceiling including the cost of cutting and filling chases for recessed conduiting and supports in case of surface conduit including all bends , saddles , Junction boxes etc and including providing and fixing 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted modular type switch with moulded cover plate in recessed GI box and including earthing of the 3rd pin with 2.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wires and complete as required(Switch and socket shall be as approved by the architect / Client)	12	Pt.	12	✓

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
17	Wiring for 6 pin 240 volt 16 amp single phase and neutral switch socket outlets (2 outlets wired on 1 circuit) with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS), 4.0 sq mm upto the first outlet and 2.5 sq mm from first to the second outlet in 25mm dia 16 SWG MS conduit in wall / Ceiling including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases and including providing and fixing of two sets of 6 pin 240 volt 16 amp socket outlet with safety shutters and 16 amp 240 volt single pole grid plate mounted switches with moulded cover plate in a recessed GI box including earthing of the 3rd pin with 2.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wire complete as required. (Switch/Socket Shall be as per approved sample by Architect)	2	Pt.	2	✓
18	Wiring for primary switch board consisting of 3 Nos. 5 pin 240 volt 6 amp single phase and neutral switch socket outlets with 3 Nos. 6A switch with PVC insulated stranded copper conductor 1100 volt grade wires (FRLS), 2.5 sq FRLS copper wire mm in 25mm dia 16 SWG MS conduit in wall / Ceiling including cost of providing saddles etc as required for surface conduiting and/or cost of cutting and filling chases and including providing and fixing prewired switch board each consisting of 3 Nos. 5 pin 240 volt 6 amp single phase and neutral switch socket outlets with 3 Nos. 6A modular switch , safety shutters in a recessed/surface GI box including earthing of the 3rd pin with 1.5 sq mm 1100 volt grade PVC insulated stranded copper conductor wire complete as required. (Switch/Socket Shall be as per approved sample by Architect) <i>Note- Conduits shall be 16 SWG MS on surface and FRLS PVC for wall concealed</i>	2	Pt.	2	✓
19	Supply installation testing and fixing 3 pin 20A , 240V , single Phase metal Clad industrial socket outlet with 20A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	2	Nos.	2	✓
20	Supply installation testing and fixing 3 pin 25A/32A , 240V , single Phase metal Clad industrial socket outlet with 25A/32A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	RO	Nos.		
21	Supply installation testing and fixing 3 pin 40A , 240V , single Phase metal Clad industrial socket outlet with 40A DP MCB and complete in all respects(Wiring Excluded from scope of this item)	1	Nos.	1	✓
22	Supply installation testing and fixing 5 pin 32A , 415V , single Phase metal Clad industrial socket outlet with 32A FP MCB and complete in all respects(Wiring Excluded from scope of this item)	1	Nos.	1	✓

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign
23	Supply , fixing & Laying 2.0mm Thick FRLS PVC conduits on surface or concealed complete with PVC junction boxes, cover plates, PVC bends, PVC saddles, base and other accessories all made in PVC with GI screws as required to complete the job. .				
i	25 mm dia FRLS PVC conduit	20	Mtrs	19	✓
ii	20 mm dia FRLS PVC conduit	25	Mtrs	23	✓
24	Supply , fixing & Laying 16 SWG MS conduits on surface or concealed complete with PVC junction boxes, cover plates, bends, saddles, base and other accessories all made in PVC with GI screws as required to complete the job. .				
i	25 mm dia 16 SWG MS conduit	RO	Mtrs		
ii	20 mm dia 16 SWG MS conduit	RO	Mtrs		
25	Supply and installation of flush mounted (Enhanced Category 6T 568 A or B) outlets with 2 mm thick GI box complete including cutting, chases, fixing of GI boxes and making good. The plastic shall be high impact, flame-retardant, UL rate thermoplastic. Dust cover / blank shall be provided to protect unused faceplate openings. Termination caps and plastic cover shall be provided to protect jack wiring.				
i	Single outlet face plate with RJ-45 Jack with information outlet	2	Nos.	2	✓
ii	Duplex outlet face plate with RJ-45 Jack with information outlet	1	Nos.	1	✓
26	Supply,installtion testing and commisioning of Cat-6A UTP cables in existing Conduit complete as required for Telephone and Data System	50	Mtrs	48	✓
27	Supplying,installation and commisioning of CAT-6A patch cords 2 mtrs.	4	Nos	4	✓
28	Supplying,installation and commisioning of CAT-6A patch cords 1 mtr.	4	Nos	4	✓
29	Installation of following light fixtures including connections and complete in all respects				
i	15/12Watt Recessed Down Lighter	24	No.	24	✓
ii	LED Strip Light (Per Meter)	40	Mtrs	18	✓
iii	Signage	2	No.	2	✓
iv	3W Pendant Light	7	No.	7	✓

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S. No.	Description	Unit	BOQ Qty.	RA Qty	sign

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PHAT MALDIVES BILL OF QUANTITIES - FIRE FIGHTING WORKS

BILL OF QUANTITIES FOR FIRE WORK							
LOCATION:-A-04- Third Wave Coffee T3_Lucknow Airport							
S. NO.	DESCRIPTION	DIAGRAM	UNIT	QTY.	RA Qty	Sign	REMARKS
1	RI (RESPONSE INDICATORS) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) Response indicators are connected to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors which are not easily accessible or visible. They light up as soon as the connected fire detector gives an alarm (Wiring from switches to panel and stair case pressurization not included)		Nos	2	2.00	✓	
2	HD (HEAT DETECTOR) INSTALL NEAR HOOD Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) A heat detector is a fire alarm device designed to respond when the convected thermal energy of a fire increases the temperature of a heat sensitive element. The thermal mass and conductivity of the element regulate the rate flow of heat into the element. All heat detectors have this thermal lag (Wiring from switches to panel and stair case pressurization not included) (Edwards / Apollo)		Nos	-			ADDRESSABLE TYPE HEAT DETECTOR
3	CONVENTIONAL FIRE PANEL		Nos	-			ADDRESSABLE TYPE FIRE PANEL
4	MCP (MANUAL CALL POINT) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) Manual call points are used to initiate an alarm signal, and operate by means of a simple button press or when glass is broken revealing a button. They can form part of a manual alarm system or an automatic alarm system. Model : Edwards / Apollo and FM approved with GI mounting Box		Nos	1	1.00	✓	ADDRESSABLE TYPE MCP
5	H (HOOER) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) Fire Alarm Systems. A fire alarm system is a electrical / electronic system which is connected with many type of devices such as main panel, smoke / heat detectors, mcp, sounder etc. to detect the fire event by indicating audio or visualize signal at the main or individual devices Model : Edwards / Apollo with GI mounting Box		Nos	1	1.00	✓	
6	SD (SMOKE DETECTOR ABOVE CEILING) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) An optical smoke detector. Smoke enters through the slits around the side, triggering an electronic horn, which sounds through the large circular opening on the right. The dark circle in the middle is a test button with a built-in LED that flashes to show the detector is working okay. Model : Edwards / Apollo.		NOS	-			
7	SD (SMOKE DETECTOR BELOW CEILING) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) An optical smoke detector. Smoke enters through the slits around the side, triggering an electronic horn, which sounds through the large circular opening on the right. The dark circle in the middle is a test button with a built-in LED that flashes to show the detector is working okay. Model : Edwards / Apollo.		NOS	2	2.00	✓	
8	MSD (MULTI SENSOR DETECTOR BELOW CEILING) Providing and fixing electrically operated flow indicating mechanical foam type (ISI marked) An optical smoke detector. Smoke enters through the slits around the side, triggering an electronic horn, which sounds through the large circular opening on the right. The dark circle in the middle is a test button with a built-in LED that flashes to show the detector is working okay. Model : Edwards / Apollo.		NOS	-			
9	FIRE ALARM SYSTEM LOOPING		RMT	24	22 24.00		
10	MONITOR MODULE Providing and fixing Emonitor module . Model : Edwards FMM-1 flash scan type UL listed and FM approved.		NOS				
11	4.5 KG CO2 portable fire extinguisher ARAFFF capacity (IS. 15683) Providing and fixing water Co2 (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug.		NOS	1	1.00	✓	
12	4 KG ABC Dry powder portable fire extinguisher capacity (IS. 15683) Providing and fixing (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug.		NOS	1	1.00	✓	
13	6 KG TRS K-type fire extinguisher capacity. (IS 15683) Providing and fixing (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug		NOS	1	1.00	✓	

Divesh Tsibathi
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PH AT MALDIVES BILL OF QUANTITIES - FIRE FIGHTING WORKS

S. NO.	DESCRIPTION	DIAGRAM	UNIT	QTY.	RA Qty	Sign	REMARKS
14	Automatic 5 KG MOUDLAR ABC TYPE fire extinguiser capacity. (IS. 15683) Providing and fixing (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug.		NOS	-			
15	Fire Blanket-6'x4'		NOS	1	1.00	✓	
16	Acrylic EXIT Glow Sign Board with LED Lights, Size 10 x 6.5 inch,		NOS	1	1.00	✓	
NOTE: KINDLY FOLLOW THE GUIDELINES ISSUED BY AIRPORT AUTHORITY FOR THE DETAILED SPECIFICATIPONS OF DIFFERENT ITEMS MENTIONED IN THIS BOQ.							

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BILL OF QUANTITIES FOR SPRINKLER WORK
LOCATION:- A-04- Third Wave Coffee_T3_Lucknow Airport

SR. NO.	DESCRIPTION	UNIT	QTY.	RA Qty	Sign	Remarks
1	Providing, Laying, Jointing & Testing of Pipes for Sprinkler System - G.I Pipe conforming IS Codes Class 'C' Heavy Pipe & with necessary support & anchore fastening from slab.					
a.	25 mm dia	Rft.	0			
b.	32 mm dia	Rft.	32	32.00	✓	
c.	40 mm dia	Rft.	0			
d.	50 mm dia	Rft.	15	15.00	✓	
e.	65mm dia	Rft.	0			
2	Synthetic Enamel Paint.					
a.	25 mm dia	Rft.	0	30		
b.	32 mm dia	Rft.	32	32.00	✓	
c.	40 mm dia	Rft.	0			
d.	50 mm dia	Rft.	15	15.00	✓	
e.	65mm dia	Rft.	0			
3	Providing & Fixing of Butterfly Valve.					
a.	50 mm dia	No.	1	1.00	✓	
b.	65 mm dia	No.	0			
4	Providing & Fixing of Ball Valve.					
a.	25 mm dia	No.	0			
b.	32 mm dia	No.	0			
c.	40 mm dia	No.	0			
d.	50 mm dia	No.	1	1.00	✓	
e.	65 mm dia	No.	0			
5	HEADER FITTING.					
a.	Flow Switch	No.	0			
b.	Pressure Gauge	No.	0			
c.	Air Release Valve	No.	0			
d.	65 mm dia NRV	No.	0			
6	Providing & Fixing C.P. Brass 68 degree Quartzoid Bulb Sprinklers. Make : Tyco / viking temp rating standard coverage discharge coefficient k- 6.6 quick response UL listed & EN approved.					
a.	Pendant Type	No.	0			
b.	UP Right Type	No.	3	3.00	✓	
7	Providing & Fixing C.P. Brass 79 degree(QR) Quartzoid Bulb Sprinklers. Make : Tyco / viking temp rating standard coverage discharge coefficient k- 6.6 quick response UL listed & EN approved for high temperature area in Kitchen temprating shall be 79degree c (QR)					
a.	Pendant Type	No.	0			
b.	UP Right Type	No.	3	3.00	✓	

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8	Flexible Sprinkler Drop.					
a.	25mm	No.	15	15.00		
b.	100mm	No.	0			
c.	150mm	No.	0			
9	Drain Valve	No.	0			
NOTE: KINDLY FOLLOW THE GUIDELINES ISSUED BY MALL AUTHORITY FOR THE DETAILED SPECIFICATIPONS OF DIFFERENT ITEMS MENTIONED IN THIS BOQ. SPRINKLER TAP OFF TO BE TAKEN FROM EXISTING SPRINKLER LINE						

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FURNITURE Third Wave Coffee_Lucknow Airport

SIZE (mm)	DESCRIPTION	BOQ QTY
W600xD600xH750	<p align="center">SQUARE TABLE</p> <p>32MM THICK TABLE TOP MADE OF 19MM PLY BASE BOARD AND TOP OF IT HARDWOOD WD-01, WITH NATURAL POLISH FINISH TO BE MATCHED WITH LAMINATE - GREENLAM 5375 SATURNO WALNUT SUEDE. WITH 32 MM THICKNESS AT THE EDGES, TOP AND SIDE EDGE TO BE MADE HALF ROUND, M.S. CIRCULAR BASE WITH M.S. PIPE (65MM DIA) TO HOLD THE TABLE TOP, TO BE FINISHED WITH PAINT PT-03.</p>	8 ✓
<p>Dimensions : 560 x 600 x 820 MM Seat Height : 490 MM.</p>	<p align="center">CHAIR</p> <p>SEAT COLOUR : UP-01 MATERIAL OF THE SEAT : LUSTRELL CHARISMA SADDLE FRAME MATERIAL : HARDWOOD WITH NATURAL POLISH, TO BE MATCH WITH LAMINATE - GREENLAM 5375 SATURNO WALNUT SUEDE</p>	16 ✓

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PHAT MALDIVES BILL OF QUANTITIES - FIRE FIGHTING WORKS

BILL OF QUANTITIES FOR LIGHTING PROJECT : A04 Thlr wave coffee_T3_Lucknow Airport						
S.NO.	DESCRIPTION	UNIT	QTY.	RA Qty	Sign	REMARKS
1	Recessed Down Light - White Powder Coated - COB Led 12W, 4000K	NOS	24.0	24	<input checked="" type="checkbox"/>	
2	GLASS BALL SHAPED PENDANT LIGHT WITH METAL SUSPENSION 250MM DIA GLASS BALL SHAPED PENDANT LIGHT LAMP - 3W LED, 3500K HEIGHT-3250MM BOTTOM	NOS	7.0	-		
3	LED STRIP LIGHTS WITH ALUMINUM CHANNEL 5V PER METER, 4000K	R.MT	30.0	35 34	<input checked="" type="checkbox"/>	

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BILL OF QUANTITIES FOR PLUMBING WORK						
SR. NO.	MATERIAL	DESCRIPTION	UNIT	BOQ QTY.	RA Qty	Sign
1.00		WATER SUPPLY PIPES				
	CPVC Pipes	Supply, laying, testing & commissioning of FOOD GRADE CPVC pipes conforming to CTS (Copper Tube Size) SDR-11 as per (is 15778 ASTM D 2846) with necessary fittings up to the size of 50 mm dia. (Make – SUPREME / KASTA) including all necessary fitting as per site.			9	
1.01		15mm dia	R.M.	10.00	10.00	
1.02		20mm dia	R.M.	15.00	15.00	U
2.00		WATER DRAIN PIPES				
	UPVC WASTE PIPE	UPVC Pipe for Drainage (Make – SUPREME / KASTA) including all necessary fitting as per site.				
2.03		75mm dia	R.M.	10.00	10.00	✓
2.04		50mm dia	R.M.	10.00	10.00	✓
3.00		CHAMBER & GRATING				
3.01	INSPECTION CHAMBER	Supply, Laying, Testing & Commissioning of Approved SS Inspection Chamber along of Size-300mmx300mm with SS Cover & SS Grating over it. Make Jaquar / Ozone. Including trenching and finishing with ceramic tiles as per dwg and details.	Nos.	2.00	2.00	✓
3.02	OPEN GRATING	Providing & Fixing 20mm heavy quality SS triple layer Grating along with Perforated Mesh & Angle Frame of width 200mm, complete as per detail Drawings. Rate inclusive of chamber construction				
		Size - 560mm x 200mm	R.M.		1.00	✓
		Size - 1000mm x 200mm	R.M.		1.00	✓
4.00		FLOOR TRAP				
4.01	FLOOR TRAP	Supply, Laying, Testing & Commissioning of 100x100mm Floor Trap with Approved Make heavy duty round or Square.	Nos.	6.00	6.00	✓
5.00		VALVE AND TAP				
5.01	ANGLE VALVE	Providing & Fixing Angle Valve with connector pipe.	Nos.	7.00	10.00	✓
5.02	LONG BODY TAP	Providing & Fixing Sink Cock. with foot operated	Nos.	0.00		
5.03	Table Mixer	Providing & Fixing Sink Cock.	Nos.	1.00	1.00	✓
5.04	Gate Valves	Providing & Fixing PPR Ball Valve ISI mark. (For Inlet)	Nos.	1.00	1.00	✓
6.00		ACCESSORIES				
6.01	Grease Trap	Providing & Fixing of portable grease trap NGT-14 from Nugreen	Nos.			
6.02	Grease Trap	Providing & Fixing of portable grease trap NGT-50 from Nugreen	Nos.			
6.03	Bottle Trap	Providing & fixing 32mm CP finished Bottle Trap with wall flanges. (Make – JAQUAR / OZONE)	Nos.	5.00	5.00	✓
6.04	Water Meter	25mm Dia Water meter	Nos.	1.00	1.00	✓
6.05	GEYSER	6 LITER GEYSER	Nos.	1.00	1.00	✓
6.06	GEYSER	35 LITER GEYSER	Nos.			
6.07	Waste Coupling	Providing Waste Coupling 32mm size full thread waste coupling to be use for 3-bowl sink.	Nos.			
6.08	Water supply connection	water supply connection taken from existing point complete with all necessary fittings.	Nos.	1.00	1.00	✓
6.09	Drainage connection	Drainage connection connect to existing drain point complete with all necessary fittings including cleanout plug	Nos.	1.00	1.00	✓
6.12	Domestic RO	Providing and fixing of Domestic RO with water storage with all necessary valves and fitting required.	Nos.	1.00		

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THIRD WAVE COFFEE , LUCKNOW AIRPORT**MB Sheet LOW SIDE WORKS**

The prices are to be quoted in the below mentioned form and shall include the supply, installation, Testing and Commissioning at site of all the equipments, ancillary materials except where specified otherwise and all such items whatsoever which may be required to fulfill the intent and purpose as laid down in the drawings and specifications shall include all taxes and duties on a basis works contract

S.No.	Description	Unit	BOQ Qty.	RA Qty	Sign
Part A	Low Side Works				
1.0	DUCTING				
1.1	<u>G.I. Sheet Metal Ducting - Site Fabricated</u>				
	Installation, Testing and Commissioning of site fabricated GSS sheet metal rectangular ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required.				
1.2.1	0.63 MM (24 Gauge)	Sqm.	70	67.00	✓
2.0	INSULATION				
2.1	Nitrile Rubber Insulation- Class 'O'				
	Supplying and fixing of closed cell elastomeric insulation of density 55 kg/cu.m. and K value of not less than 0.037W/mk at 20 deg C as per specifications and drawings (For indoor applications) with factory Laminated 7 mill woven glass cloth				
2.1.1	19 mm thick (AC Supply / Return ducts)	Sqm.	70	68.00	✓
3.0	DUCT ACCESSORIES				
3.1	Supply, Installation, Testing and Commissioning of GI multiblade volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications.	Sqm.	1	1.00	✓
3.2	Supply, Installation, Testing and Commissioning Aluminium Air Grille with Damper	Sq.m	2.0	2.00	✓
3.3	Continuos Grille 150MM Wide	RM	5	4.00	✓
3.4	Aluminium Volume Control Damper for grilles	Sqm	1.0	1.00	✓

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