

Budweiser

HVAC + FAS

Sr No.	Item Code	Item Description	UOM	Qty	Length	Width	Height	Nos	QTY	Remark
1		<p>ANTI TERMITE TREATMENT- Providing doing anti termite treatment with IMIDACLOPRID (OZIER) for entire area (Pest control) Diluting and injecting chemical emulsion 3 in floor for pre constructional Anti Termite treatment and creating a continuous chemical @ 4 center to center barrier all over as per manufacturer specification and ISI standards. (OR AS APPVD.) including a 1 year guarantee under suitable undertaking on stamp paper etc, complete as directed by Architect.(Mode of measurement is to be carpet area of floor and not the area of surface treated).</p> <p>AREA - ALL MOH FOH</p>	Sq.m.	325						
2		<p>WATERPROOFING - Providing and Applying Fosroc RFX Brush Bond Coating waterproofing to RCC slabs comprising of the following operations.</p> <p>1. Removal of Top Screed from the Mother Slab. 2. Cleaning of the Mother Slab with Hard Brush Removal of Dirt from the Surface with Air Blowers 3. Applying of the Fosroc RFX Brush Bond Coating on the mother slab with Brush in Clock wise directions on all 2 Sides Walls till 450m.m Height . If the Floor has to be raised 150m.m 4. After drying of the 1st Coat of the Brush Bond Coating . 2nd Coat is applied in the Anticlockwise Directions 5. After drying of entire Surface say 24 Hours . we will fill Water to 3 Inch Levels for Ponding Testing. 6. Water will be kept for observations for 72 Hours . If Leakage is observed . Water is emptied 7. Above Procedure is Repeated . 8. If No Leakage is observed after 72 Hours . 9. Water will be drained out from the Floor Surface 10. Protective Screeding mixed with FOSROC NITOBOND SBR of Average 25m.m thickness is done on the Water Proofing Surface Coving on Side Walls . 11. After Dryings of Protective Screed say 2 Days. Drain Lines are laid on the Floor with Slope main Drain lines chambers are done . 12 . After this floor raising by Light Seaproax block is done followed by Kota Stone Flooring</p>	Sq.m.	80						
3		CINDER LIGHT WT. SIPORAX BLOCK BATS FILLING								
4		<p>Providing Filling light wt. Siporex block bats to conceal drainage plumbing lines. The Top layer should be finished properly to receive P.C.C base flooring layer on it. The same shall be completed as per the details are provided in drawings or as directed by Architect.</p> <p>AREA - MOH RAISED AREA (up to 75 mm)</p>	Sq.m.	54						
5		<p>PCC LAYER- Providing Laying P.C.C 1 3 6 of average thickness of upto 50mm of M 10 grade of concrete (1 cement 3 coarse sand 6 graded stone aggregate 20 mm nominal size) as floor base.</p>	Sq.m.	54						
6		<p>Block WORK - Providing Laying of block masonry of thickness 150mm in super structure, bund wall, in raised MOH counter area using cement mortar 1 4 (1 cement 4 coarse sand) mix, joints finished, curing complete as per specification and drawing or as directed by Project Manager.</p> <p>AREA - 150 MM THICK BLOCK MASONARY</p>	Sq.m.	110						
7		<p>PLASTER - P L12-15mm thick plaster in cement mortar 1 4 (1 cement 4 coarse sand) to ceiling, all types of R.C.C. work, brick work surfaces at all levels in line, level and plumb including smooth cement finish and providing necessary grooves at junctions of walls. Rate shall be inclusive of scaffolding and complete with curing etc</p>	Sq.m.	220						
8		<p>P L in place (cast in situ) RCC lintel beams in 150mm th. blockwork @ 1200 mm and at Door lintel lvtl approx. 2400mm from FFLvl. (1 4 8) 100mm high with 4 no. s 8mm th. Steel bars as per general specifications, complete in all respects</p> <p>AREA - RCC LINTEL BEAM</p>	Rmt	20						
		Wet Work BOQ of Water proofing and Wall work - LKN Budweiser bar								
9	1.0	Air Handling Units (Indoor Type)								
10		<p>Supply, Installation, testing commissioning Of Double skin Floor mounted Ceiling Suspended Type air handling units of extruded aluminium section with 0.6 mm preplasticized precoated GI sheet outside and 0.6 mm plain Galvanized sheet inside, minimum of 25 mm thick PUF insulation of 38KG m3, with Plug Fans Backward Type DIDW Blower with TEFC motors, copper cooling coils as mentioned below, with aluminium fins, MERV-8 and MERV 13 Filters. The drain pan shall be constructed out of 18G stainless steel duly insulated. All the AHU s installed under this tender shall have minimum IE2 motor or better. All the cooling coils shall be AHRI Eurovent Certified. The AHU Coil shall be selected at 9 deg C Chilled water Inlet Temp Temperature. Approval of AHU Technical Data by consultant prior to fabrication is required. The cost of AHU shall be inclusive of factory fitted VFD of approved make.</p>								

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11		Design Parameters- 25 deg C -R.A.Temp, 55% RH, 9 deg C- CHW IN							
12		Water Flow Rate- 2.0 GPM TR							
13	1.1	Ceiling Suspended Type							
14	1.1.1	3400 CMH(2000 CFM)at 20 mm External Static Pressure, 6 RD Cooling Coil, Approx 5 TR, 1 x 0.75 KW Motor	Nos	1				0.75	0.75
									0.75
15	1.1.2	5100 CMH(3500 CFM)at 25 mm External Static Pressure, 6 RD Cooling Coil, Approx 7 TR, 1 x 2.25 KW Motor	Nos	1				0.7	0.7
									0.7
16	1.1.3	10200 CMH(6000 CFM)at 25 mm External Static Pressure, 6 RD Cooling Coil, Approx 12 TR, 1 x 3.75 KW Motor	Nos	1				0.7	0.7
									0.7
17	1.2	Digital Heating Cooling Thermostat for Air Handling Units	Nos.	3					
									0
18	2.0	Kitchen Scrubber (Dry Type) (Ceiling Suspended Type)							
19	3.1	Installation, Testing and Commissioning of Dry Type Scrubber each comprising of extract air intake section, electrostatic precipitation technology, dry type air cleaner to remove oil, smoke and fumes from exhaust air, as per the Specifications. Electrostatic section shall be made of 16 gauge galvanised sheet, high bake epoxy powder coated, washable type aluminium mesh filters, stainless steel spiked ionizers to create high voltage DC field, aluminum collector plates which should be alternatively charged positive and negative with large collecting area with 14 deep cell, to work as magnet for charged smoke and oil particles. Average efficiency of 90-95% in single pass as per ASHRAE test method. Electrostatic Precipitator should be able to charge particles from 0.01 micron to 10 microns through solid state power supply. Collector cell should be of permanent type and incorporate slide out facility for easy removal for cleaning. Power supplies shall be 100% solid state UL Listed, Module of capacity above 3000 CFM shall be equipped with Pulse width modulating (PWM)							
20		The system should be fitted with interlock switch for safety. The system should allow connection to a fan section to achieve 500 FPM velocity across the air							
21		Operating Voltage 220V, 50 Hz							
22		Ionizing Voltage 12.5 to 13 KVDC							
23		Collector Cell Voltage 6 to 6.5 KVDC							
24		Power Consumption Not more than 50W per cell.							
25		Capacities 4000 CFM	Nos	1				0.7	0.7
									0.7
High Side - HVAC									
26	1.0	Chilled Water Piping with Nitrile Rubber Insulation							
27		Supplying, laying fixing, testing and commissioning of MS C class chilled water piping (cut of required length and installed with welded joints. The necessary fittings such as elbous, tees etc. shall all to included in this item). The Insulation shall be Class O nitrile Rubber pre-slit, pipe sleeve upto 100 mm dia and sheet for bigger dia with factory Laminated 7 mill woven glass cloth of thicknesses as specified, with approved adhesive. Manufactured supplied, suitable sized nitrile rubber pipe supports with PUF PIR inserts shall be used. Thermal conductivity should not exceed 0.035 W MK at 0 degree celsius and water vaper resisntance > 7000. Manufactures tapes and adhesive to used only. The pipe supports should also be of nitrile rubber with PUF PIR inserts and are to be installed as per manufacturer s recomendation. The pipe fittings shall be MS. class for pipes upto 150 mm and for 200mm and above, same material of the pipe shall be use all bends Reducess Tee upto 150 mm shall be factory fabricated ready made MS C class. Note Use proper template for marking block colour Arrows pipe. for supply return.							
28	I	40mm dia with 32 mm thick insulation with factory Laminated 7 mil glass cloth upper layer	Mtrs.	50					
		Return & Supply			12			2	24 18 ✓
									Rest steaming after installation
29	II	32mm dia with 32 mm thick insulation with factory Laminated 7 mil glass cloth upper layer	Mtrs.	30					
		Return & Supply			18			2	36 28 ✓
									Rest steaming after installation

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Rest steaming after installation
24 18 ✓
36 28 ✓

					3.9	0.3		2	2.34	
	Line - 1									
	Droper No -1				0.7	0.5		2	0.7	
					0.7	0.2		2	0.28	
	Droper No -2				0.7	0.5		2	0.7	
					0.7	0.2		2	0.28	
	Droper No -3				0.7	0.5		2	0.7	
					0.7	0.2		2	0.28	
	Droper No -4				0.7	0.5		2	0.7	
					0.7	0.2		2	0.28	
	3 AHU 7 TR 3000 CFM									
	Line 3 (Duct 3 - 600*400)				1.1	0.6		2	1.32	
					1.1	0.3		2	0.66	
	Line 3 (Duct 4 - 600*400)				0.75	0.6		2	0.9	
					0.75	0.3		2	0.45	
	Line 3 (Duct 5 - 600*400)				1.9	0.6		2	2.28	
					1.9	0.3		2	1.14	
	Line 3 (Duct 6 - 600*400)				0.8	0.6		2	0.96	
					0.8	0.3		2	0.48	
	Line 3 (Duct 7 - 350*300)				2.5	0.35		2	1.75	
					2.5	0.3		2	1.5	
	Line 1 / Droper No - 1				1	0.5		2	1	
					1	0.2		2	0.4	
	Line 2 / Droper No - 1				1	0.5		2	1	
					1	0.2		2	0.4	
	Line 3 / Droper No. 1									
	Duct 1 (900*300)				0.2	0.9		2	0.36	
					0.2	0.3		2	0.12	
	Duct 2 (900*300)				0.5	0.9		2	0.9	
					0.5	0.3		2	0.3	
	Duct 3 (900*300)				1.5	0.9		2	2.7	
					1.5	0.3		2	0.9	
	Duct 4 (900*300)				0.6	0.9		2	1.08	
					0.6	0.3		2	0.36	
	Line 3 / Droper No. 2									
	Duct 1 (900*300)				0.2	0.9		2	0.36	
					0.2	0.3		2	0.12	
	Duct 2 (900*300)				0.5	0.9		2	0.9	
					0.5	0.3		2	0.3	
	Duct 3 (900*300)				1.5	0.9		2	2.7	
					1.5	0.3		2	0.9	
	Duct 4 (900*300)				0.6	0.9		2	1.08	
					0.6	0.3		2	0.36	
	4 3500 CFM									
	Duct 1 (650*350)				5.4	0.65		2	7.02	
					5.4	0.35		2	3.78	
	Duct 2 (650*350)				1.4	0.65		2	1.82	
					1.4	0.35		2	0.98	
									121.04	
61	4.1.3	0.80 MM (22 Gauge)	Sqm.	75						
	1 AHU 12 TR 6000 CFM									
	Line 1 (Duct 1- 450*250)				1.5	0.45		2	1.35	
					1.5	0.25		2	0.75	
	Line 1 (Duct 2- 450*250)				0.5	0.45		2	0.45	
					0.5	0.25		2	0.25	
	Line 3 (Duct 1 - 950*400)				8	0.95		2	15.2	
					8	0.4		2	6.4	
	Line 3 (Duct 2 - 300*400)				9	0.3		2	5.4	
					9	0.4		2	7.2	
	Line 4 (Duct 1 - 700*400)				0.6	0.7		2	0.84	
					0.6	0.4		2	0.48	
	Line 4 (Duct 2 - 700*400)				1.6	0.7		2	2.24	
					1.6	0.4		2	1.28	
	2 AHU 5 TR 2000 CFM									
	Line 1 (Duct 1- 600*300)				0.7	0.6		2	0.84	
					0.7	0.3		2	0.42	
	Line 1 (Duct 2- 600*300)				2	0.6		2	2.4	
					2	0.3		2	1.2	
	Line 1 (Duct 3- 600*300)				0.7	0.6		2	0.84	
					0.7	0.3		2	0.42	
	3 AHU 7 TR 3000 CFM									
	Line 1 (Duct 1- 350*300)				1.8	0.35		2	1.26	
					1.8	0.3		2	1.08	
	Line 1 (Duct 2- 350*300)				0.8	0.35		2	0.56	
					0.8	0.3		2	0.48	
	Line 2 (Duct 1- 300*250)				0.2	0.3		2	0.12	
					0.2	0.25		2	0.1	
	Line 2 (Duct 2- 300*250)				2.3	0.3		2	1.38	
					2.3	0.25		2	1.15	
	Line 3 (Duct 1 - 600*300)				0.8	0.6		2	0.96	
					0.8	0.3		2	0.48	
	Line 3 (Duct 2 - 600*300)				0.75	0.6		2	0.9	
					0.75	0.3		2	0.45	
	4 3500 CFM									
	Duct 3 (650*350)				8.5	0.65		2	11.05	
					8.5	0.35		2	5.95	
									73.88	
62	4.1.4	1.00 MM (20 Gauge)	Sqm.	10						
	1 Plenum AHU 12 TR 6000 CFM (1000*1800*750)									
						0.9		0.7	2	1.26
						1.8		0.7	2	2.52
	2 Plenum AHU 5 TR 2000 CFM									

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									1.5	0.7	2	2.1
		3 Plenum AHU 7 TR 3000 CFM (1500*1200*750)							1.2	0.7	2	1.68
									0.3	0.75	2	0.45
		Plenum 1 (300*750*400)							0.3	0.4	2	0.24
									0.3	0.75	2	0.45
		Plenum 2 (300*750*400)							0.3	0.4	2	0.24
												8.94
63	4.1.5	1.25 MM (18 Gauge)	Sqm.	0								
64	4.1.6	1.00 MM (20 Gauge)- Kitchen Exhaust Ducting with 25 mm thick high density of glasswool rockwool insulation of density 48kg m3 . The insulation shall be covered with muslin cloth over which 2 coats of Starbond approved fire paint is applied to make the insulation hard and fire retardant .	Sqm.	110								
		Duct 4 (750*400)						1.2	0.75	2	1.8	
								1.2	0.4	2	0.96	
		Duct 5 (750*400)						9	0.75	2	13.5	
								9	0.4	2	7.2	
		Duct 6 (750*400)						1.1	0.75	2	1.65	
								1.1	0.4	2	0.88	
		Duct 7 (750*400)						5.6	0.75	2	8.4	
								5.6	0.4	2	4.48	
		Duct 8 (750*400)						0.75	0.75	2	1.125	
								0.75	0.4	2	0.6	
		Duct 11 (450*350)						1.4	0.45	2	1.26	
								1.4	0.35	2	0.98	
												42.835
65	4.2	G.I. Sheet Metal Ducting - Site Fabricated										
66		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.										
67	4.2.1	0.63 MM (24 Gauge)	Sqm.	20								
												0
68	4.2.2	0.80 MM (22 Gauge)	Sqm.	20								
		Duct 1 (750*400)						1	0.75	2	1.5	
		Duct 2 (750*400)						1	0.4	2	0.8	
		Duct 3 (750*400)						1.1	0.75	2	1.65	
								1.1	0.4	2	0.88	
		Duct 9 (650*350)						2.7	0.75	2	4.05	
								2.7	0.4	2	2.16	
		Duct 10 (650*350)						4	0.65	2	5.2	
								4	0.35	2	2.8	
								0.8	0.65	2	1.04	
								0.8	0.35	2	0.56	
												20.64
69	4.2.3	1.00 MM (20 Gauge)	Sqm.	5								
		Plenum Box						1.6	0.89	2	2.848	
		Dry Scruber						1.6	0.6	2	1.92	
		Plenum Box						1.6	0.6	2	1.92	
												6.688
70	4.2.4	1.25 MM (18 Gauge)	Sqm.	0								
71	4.3	Ducting (Exhaust)- MS Welded Construction- Site Fabricated										
72		Supply, fabrication and erection of following gauges of MS ducting complete with welded drip proof seams and having access doors at every change in direction with maximum spacing of 6 meters in horizontal direction and maximum of 3 floors of vertical risers elbows splitters, supports suspenders bends, tees, vanes, double canvas connection of the equipment etc all complete as required. Duct shall be insulated 25 MM Thick High Density Rockwool Insulation 48 KG m3 . The insulation material and its installation shall be in accordance with the specifications as provided. The entire insulation shall be covered with muslin cloth over which 2 coats of Star Bond approved fire paint is applied to make the insulation hard and fire retardant.										
73	4.3.1	16 gauge (1.5 mm thick)	Sqm.	0								
74	4.4	Flexible Duct										
75	4.4.1	100 MM Dia	RM	0								
76	5.0	INSULATION										
77	5.1	Nitrile Rubber Insulation- Class O										
78		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										
79	5.1.1	19 mm thick (AC ducts Fresh Air Duct)	Sqm.	260								
		1 AHU 17 TR 6000 CFM										
		Line - 1										
		Droper No -1						1.1	1.25	2	2.75	

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					1.1	0.275		2	0.605
					0.6	0.725		2	0.87
					0.6	0.25		2	0.3
					0.6	0.725		2	0.87
					0.6	0.25		2	0.3
					1.1	1.25		2	2.75
					1.1	0.275		2	0.605
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					1.7	1.25		2	4.25
					1.7	0.425		2	1.445
					1.7	1.25		2	4.25
					1.7	0.425		2	1.445
					1.7	1.25		2	4.25
					1.7	0.425		2	1.445
					4.2	0.325		2	2.73
					4.2	0.275		2	2.31
					1.4	0.275		2	0.77
					1.4	0.275		2	0.77
					4.2	0.325		2	2.73
					4.2	0.425		2	3.57
					0.4	0.325		2	0.26
					0.4	0.425		2	0.34
					2.4	0.325		2	1.56
					2.4	0.225		2	1.08
					0.9	0.725		2	1.305
					0.9	0.425		2	0.765
					4	0.725		2	5.8
					4	0.425		2	3.4
					0.3	0.325		2	0.195
					0.3	0.425		2	0.255
					0.7	0.525		2	0.735
					0.7	0.425		2	0.595
					1.6	0.525		2	1.68
					1.6	0.425		2	1.36
					1	0.525		2	1.05
					1	0.425		2	0.85
					4.5	0.525		2	4.725
					4.5	0.425		2	3.825
					0.5	0.525		2	0.525
					0.5	0.425		2	0.425
					8	0.525		2	8.4
					8	0.425		2	6.8
					0.9	0.925		2	1.665
					0.9	0.425		2	0.765
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.7	0.925		2	1.295
					0.7	0.225		2	0.315
					0.8	0.625		2	1
					0.8	0.325		2	0.52
					2.6	0.625		2	3.25
					2.6	0.325		2	1.69
					0.6	0.625		2	0.75
					0.6	0.325		2	0.39
					3.9	0.425		2	3.315
					3.9	0.325		2	2.535
					0.7	0.525		2	0.735
					0.7	0.225		2	0.315
					0.7	0.525		2	0.735
					0.7	0.225		2	0.315
					0.7	0.525		2	0.735
					0.7	0.225		2	0.315
					0.7	0.525		2	0.735
					0.7	0.225		2	0.315
					1.1	0.625		2	1.375
					1.1	0.425		2	0.935
					0.75	0.625		2	0.9375
					0.75	0.425		2	0.6375
					1.9	0.625		2	2.375
					1.9	0.425		2	1.615
					0.8	0.625		2	1
					0.8	0.425		2	0.68
					2.5	0.375		2	1.875
					2.5	0.325		2	1.625
					1	0.525		2	1.05
					1	0.225		2	0.45
					1	0.525		2	1.05
					1	0.225		2	0.45
					0.2	0.925		2	0.37

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85	6.2	Supply, Installation, Testing and Commissioning of multiblade Al volume control Collar Grille exhaust Air Opening damper complete with suitable links, lever and quadrants for manual control of airflow and with suitable links, lever and quadrants for manual control of airflow and neoprene rubber gaskets, nuts, bolts, screws, flanges etc., as per specifications.	Sqm.	3						
										0
86	6.3	Supply, Installation, Testing and Commissioning fixing of powder coated extruded aluminium Supply Exhaust Air Grills as per specifications	Sqm.	2						
										0
87	6.6	Supply, Installation, Testing and Commissioning fixing of powder coated extruded Aluminium Continuous Grille as per specifications								
88	6.6.2	150 MM Aluminium Continuos Grille	RM	5						
										0
89	6.6.3	100 MM Aluminium Continuos Grille	RM	30						
										0
90	7.0	Motorised Fire and Smoke Dampers								
91		Supply, installation, testing commissioning of motorised fire smoke damper (spring return type) of approved make of atleast 90 min fire rating as per UL555, made out of 16 ga GSS and suitable for duct wall mounting with suitable size 18 Ga Sleeve as per the specification detail given earlier in the relevant section. The damper shall have 90 minute fire rating. It shall be complete with electronic temperature sensor and electrically operated actuator. The fire damper shall be located in supply return air duct and at fire rated crossover. These fire damper shall be interlockaded with BMS system for fire detection and shall trip close in case of fire. Controller for Fire and Smoke Damper with necessary step down transformer, fan interlocking, centralize Fire Alarm panel Integration, Smoke Detector Integration, UL Listed Thermal Cut Off (72 deg C) and remote testing unit for routine testing with spring return motorized assembly shall be suitable to control the mentioned sizes of damper.								
92	7.1	Fire Dampers with Factory Fabricated TDC flange.	Sqm.	0						
93	7.2	Motorized Actuators and Modbus Compatible Contoller for motorized dampers	Nos.	0						
94	7.3	Interconnecting wiring for fire alarm system.	Lot.	0						
95	7.4	Loop in and loop out	Lot.	0						
96	7.5	Sealing the openings around the sleeve of fire damper with approved fire sealant as per manufacturer recommendation	Lot.	0						
97	11.0	Louvers								
98	11.1	Providing and fixing of powder coated extruded aluminium exhaust air louvers fresh air louvers with bird screen and mounting arrangement as per specification and drawings. Free Area shall be more than 60% of gross area.								
99	11.1.1	Fresh Air Exhaust Air Louvers with Bird Screen Mesh	Sqm.	1						
										0
Low side HVAC										
100	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.								
101	a.	25 mm dia	Rmt.	16						
		Sprinkler point 7			1.5			1		1.5
		Sprinkler point 8			2			1		2
		Sprinkler point 31			1.5			1		1.5
		Sprinkler point 32			1.5			1		1.5
		Sprinkler point 33			2			1		2
		Sprinkler point 34			2			1		2
		Sprinkler point 35			1.5			1		1.5
		Sprinkler point 36			1.5			1		1.5
		Sprinkler point 37			1.5			1		1.5
		Sprinkler point 38			1.5			1		1.5
		Sprinkler point 20			1.5			1		1.5
		Sprinkler point 21			1.5			1		1.5
		Sprinkler point 22			1.5			1		1.5
		Sprinkler point 23			1.5			1		1.5
		Sprinkler point 27to 28			2.5			1		2.5
		Sprinkler point 28to 30			2.5			1		2.5
		Sprinkler point 29			1.5			1		1.5
										29
102	b.	32 mm dia	Rmt.	12						

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					3			1	3
		Sprinkler point 1 to 2			3			1	3
		Sprinkler point 2 to 31			3			1	3
		Sprinkler point 3 to 4			3			1	3
		Sprinkler point 3To32			3			1	3
									12
103	c.	40 mm dia	Rmt.	50					
		Sprinkler point 5 To 6			3			1	3
		Sprinkler point 6 To 7			3			1	3
		Sprinkler point 7 To 33			3			1	3
		Sprinkler point 34 To 8			3			1	3
		Sprinkler point 8 to 9			3			1	3
		Sprinkler point 9 to 10			3			1	3
		Sprinkler point 11 to 12			1.5			1	1.5
		Sprinkler point 12 to 13			2.5			1	2.5
		Sprinkler point 13 to 38			3			1	3
		Sprinkler point 38 to 35			3			1	3
		Sprinkler point 36 to 37			3			1	3
		Sprinkler point 37 to 14			3			1	3
		Sprinkler point 14 to 15			2.5			1	2.5
		Sprinkler point 15 to 16			1.5			1	1.5
		Sprinkler point 17 to 18			1.5			1	1.5
		Sprinkler point 18 to 19			2.5			1	2.5
		Sprinkler point 19 to 20			3			1	3
		Sprinkler point 20 to 21			3			1	3
		Sprinkler point 22 to 23			3			1	3
		Sprinkler point 23 to 24			3			1	3
		Sprinkler point 24 to 25			3			1	3
		Sprinkler point 25 to 26			2.5			1	2.5
					1.5			1	1.5
									58
104	d.	50 mm dia	Rmt.	10					
		Main Heder						10	10
									10
									10
105	e.	65mm dia	Rmt.	15					
		Main Heder						14	14
									14
									14
106	f.	80mm dia	Rmt.	0					
107	2	Synthetic Enamel Paint.							
108	a.	25 mm dia	Rmt.	17				29	29
									29
									29
109	b.	32 mm dia	Rmt.	12					
								12	12
									12
									12
110	c.	40 mm dia	Rmt.	50					
								58	58
									58
									58
111	d.	50 mm dia	Rmt.	10					
								10	10
									10
									10
112	e.	65mm dia	Rmt.	15					
								14	14
									14
									14
113	f.	80mm dia	Rmt.	0					
114	3	Providing Fixing of Butterfly Valve.							
115	a.	50 mm dia	No.	0					
116	b.	80 mm dia	No.	1					
									0
									0
117	4	Providing Fixing of Ball Valve.							
118	a.	25 mm dia	No.	0					
119	b.	32 mm dia	No.	0					
120	c.	40 mm dia	No.	0					
121	d.	50 mm dia	No.	0					
122	e.	65 mm dia	No.	0					
123	f.	80 mm dia	No.	1					

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124 5	HEADER FITTING.									0
125 a.	Flow Switch		No.	1						
126 b	Pressure Gauge		No.	1						0
127 c	Air Release Valve		No.	1						0
128 d	80 mm dia NRV		No.	1						0
129 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.									
130 a.	Pendant Type 1 To 30		No.	30				30		30
131 b.	UP Right Type 1 To 30		No.	30				30		30
132 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 79degre									
133 a.	Pendant Type 31 To 38 No.		No.	8				8		8
134 b.	UP Right Type 31 To 38 No.		No.	8				8		8
135 8	Flexible Sprinkler Drop.									
136 a.	25mm		No.	38				38		38
137 b.	100mm		No.	0						
138 c.	150mm		No.	0						
139 9	Drain Valve		No.	0						
	PR for Fire Sprinkler LKN Budweiser bar									
140 1	R1 (RESPONSE INDICATORS)									
141	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	13						
142 2	HD (HEAT DETECTOR) INSTALL NEAR HOOD									0
143	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	1						

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										0
144	3	CONVENTIONAL FIRE PANEL	Nos		0					
145	4	MCP (MANUAL CALL POINT)								
146		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		3					
										0
147	5	H (HOOTER)								
148		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		3					
										0
149	6	SD (SMOKE DETECTOR ABOVE CEILING)								
150		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		13					
										0
151	7	SD (SMOKE DETECTOR BELOW CEILING)								
152		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		13					
										0
153	8	MSD (MULTI SENSOR DETECTOR BELOW CEILING)								
154		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		0					
155	9	FIRE ALARM SYSTEM LOOPING	RMT.		92					
										0
156	10	MONITOR MODULE								
157		Providing and fixing Emonitor module. Model Edwards FMM-1 flash scan type UL listed and FM approved. PR for FAS for LKN Budweiser bar	NOS		0					

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