	MB -Electrical , The Irish House	1			Correction cop	y	1	T 801	
SR. No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
1	PANEL & SWITCHGEAR								
	supply installation, results a commissioning or the standing from meaning								
	compartmentalized panels fabricated out of CRCA sheet steel sections after corrying								
	out 7 tank cleaning process and duly powder coated using Siemens Grey Shade No. Red.								
-	7032. The frame structure, doors and gland plates shall have 2.0 mm thick sheets and								-
(partitions shall be with 1.6 mm thick CRCA sheet. Base channel size 75 x 40 x 6 mm of								
т. Л	ISMC shall be provided. The panel shall be dust and vermin proof with neopreni			7.					
]	gasket. The doors shall be provided with concealed hinges and with brazing wherever required to avoid deformation and shall be earthed. The bus bar shall be of timed			10 Y		10			
	Copper with epoxy supports and shall be insulated with colour coded heat shrink	13/		W		Carrier D			
	sleeves. The control wiring min '2 S Sq.mm shall be ZHLS type. The Panel shall be					100			
100	provided with CTs, phase indication lamps meters, relays and all switchgear letc as per				V 11				
	the SLD. The panel shall be complete in all aspects as per the final approval of the			7					
	Constitute All concentrates for Contabases shall be 19 Theoread								
ē	Providing & Installing MAIN LT PANEL as per SLD & Spec.	5et	1						
	Material supply at site	7		1	1			1	
		5.3							
	Total qty Previous qty	Set Set		_				1	
	This bill gty	set						0	
	63 Amps 4 pole, 16kA MCCB with Microprocessor Based overload, short circuit & Earth	1		L T					
	Fault protection, Energy manager (EM6400NG) with RS485 port for BMS connectivity &	17		=1 11					
	4A with SP MCB, with 100/5A-3 Nos., 15VA, CL-1 CT's for metering & of AE make and								
- X 3	phase indicating lamps Vaishno make with SPMCB, CBCT with microprocesor based EFR								
	Busbar chamber - 1 set, 4 pole 100A Tinned Cu. Busbar with necessary								
	OUTGOINGS:								
3.	63A 4P MCB 1 No.								
0.	40A 40 MCB = 2 Nos	10.	L	V III					
	40A DP MCB - 2 Nos		military.						
IV.	MPCE suitable for 2 2kW-2 Nes								
2	Supply, installation, testing & commissioning of Switchgears (Standard Product)								
							AU .		
- 2	Supply, installation, Testing and Commissioning of 40 Amps, 4Pole MCB with ELCB at	Nos	RO		-				
	300mAh for HVAC Outdoor Isolation all complete with mounting accessories								-
	Supply installation, Testing and Commissioning of 32 Amps, 4Pole MCB for HVAC Gutdoor Isolation all complete with mounting accessories.	Nos	2						
- 22	Supply installation, Testing and Commissioning of 40 Amps DP, MCB for UPS/INVERTER	Nos	2						
	Isolation all complete with mounting accessories for UPS.	1405							
	UFS isolation DB and MCB set	Non		2				2	
	Total City Previous City	Nos.						2	
	This Bill Otv	Nos.						ō	
	Supply & installation of DOL starter L&T/Siemens/Legrand for 3 kW load	Nos-	RO						
	Supply & installation of DOL starter L&T/Siemens/Logrand for 4 kW load Supply & installation of Star Delta starter as per Type-2 Goordination for 3 kW (4HP)	Nos	RO						
	with on / off / trip indication Lamp, on off push button. & phase indication Lamp	Nos	RO			1 Y			
	(For Exhaust air fan)(EXISTING UNIT PROVIDED BY MALL)								
	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW		DO.						
8	Supply & installation of Star Delta starter as per Type 2 Coordination for 9.3 kW [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase	Nos	RO						
6	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW	Nos	RO						
6	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp, (For Exhaust air fan)	Nos.	RO						
8 H	Supply & installation of Star Delta starter as per Type 2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Star delta starter as per Type 2 Coordination for 5.5 kW (7.5HP). Cad with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan).								
ē h	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Star delta starter as per Type-2 Coordination for 5.5 kW (7.5HP). Load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan). Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load.	Nos	RO						
8 h	Supply & installation of Star Delta starter as per Type 2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Star delta starter as per Type 2 Coordination for 5.5 kW (7.5HP). Cad with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan).					j			
ă H	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication kamp. (For Exhaust air fan) supply & installation of Star delta starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For Fresh air fan) Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For AHU). Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP).	Nos	RO						
B I	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan) Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For Fresh air fan] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For AHU) Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication Lamp, on off push button, & phase indication	Nos	RO						= ×
B I	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Starter as per Type-2 Coordination for 5.5 kW (7.5HP) cad with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan). Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For AHU). Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber).	Nos	RO RO						100
B I	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan) Supply & installation of Starter as per Type-2 Coordination for 5.5 kW (7.5HP) Gad with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For Fresh air fan] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For AHU) Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) punno load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber) SC amps 4P ELMCB 30CmA with 63A 5 Pin Ray Roll Socket complete with all mounting	Nos	RO RO						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
B I	Supply & installation of Star Delta starter as per Type-2 Coordination for 9.3 kW [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Starter as per Type-2 Coordination for 5.5 kW (7.5HP) cad with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan). Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For AHU). Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber).	Nos Nos Nos	RO RO RO						1 ×
a i	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan). Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP). Caid with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Fresh air fan). Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For AHU). Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber). 90 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80. 6.3 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80.	Nos Nos	RO RO						2 ×
å .	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Exhaust air fan] Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Fresh air fan] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For AHU] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication samp, on off push button, & phase indication Lamp. [For Scrubber] 80 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80. 63 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80. 63 amps 4P MCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80.	Nos Nos Nos	RO RO RO						1 × 1
å i	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. (12.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Exhaust air fan) Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For Fresh air fan) Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For AHU) Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber) Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber) So amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80 23 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80 24 amps 4P MCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80 25 amps 4P MCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80 26 Amps 4P ELMCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80 27 Amps 4P ELMCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80	Nos Nos Nos Nos Nos	RO RO RO RO RO RO						1 × 1
B H	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Exhaust air fan] Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Fresh air fan] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For AHU] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) pump load with on / off / trip indication samp, on off push button, & phase indication Lamp. [For Scrubber] 80 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80. 63 amps 4P ELMCB 300mA with 63A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80. 63 amps 4P MCB with 32A 5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078 80.	Nos Nos Nos Nos Nos	RO RO RO RO						1 × 1
in the second se	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Exhaust air fan) supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Fresh air fan] supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.0HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp (For AHL) supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.0HP) push load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. (For Scrubber). SO amps 4P ELMCB 300mA with 63A.5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078-80. 63 amps 4P ELMCB 300mA with 63A.5 Pin Ray Roll Socket complete with all mounting accessories – for Indoor Legrand make model No. 6078-80. 23 amps 4P MCB with 32A.5 Pin Ray Roll Socket complete with all mounting accessories – for kitchen Legrand make model No. 6078-80. 25 amps 4P MCB with 32A.5 Pin Ray Roll Socket complete with all mounting accessories – for kitchen Legrand make model No. 6078-80. 25 amps 4P MCB with 25A.5 Pin Ray Roll Socket complete with all mounting accessories – for kitchen Legrand make model No. 6078-80.	Nos Nos Nos Nos Nos	RO RO RO RO RO RO						1 4
i i i i i i i i i i i i i i i i i i i	Supply & installation of Star Delfa starter as per Type-2 Coordination for 9.3 kW. [12.5HP] load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Exhaust air fan] Supply & installation of Star delfa starter as per Type-2 Coordination for 5.5 kW (7.5HP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For Fresh air fan] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For AHLI] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Scrubber] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp. [For Scrubber] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For Scrubber] Supply & installation of DOL starter as per Type-2 Coordination for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For Scrubber] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For AHLI] Supply & installation of DOL starter as per Type-2 Coordination for 2.2 kW (3.CHP) load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For AHLI] with one for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp, on off push button, & phase indication Lamp [For AHLI] with one for 1.5 kW (2.OHP) pump load with on / off / trip indication Lamp [For AHLI] with one for 1.5 kW (2.OHP) load with on / off	Nos Nos Nos Nos Nos	RO RO RO RO RO RO						

Divest Toibathi

	MB -Electrical ,The Irish House				orrection cop	Y			
SR. No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
q	5/15A Rey roll socket complete with 15 amps SPMCB with 3 pin metal clad socket - Legrand make Model No. 6078 41	Nos	7			SELLIN COR		2 320 1111 3	
	Legrand make impoer to 5073 41. Set of Ino 25A Metal clad Socket with MCB, and 2nos 6/16A Switch sockets housed in Fabricated SS Panel suitable for hanging arrangement for Kitchen equipments	Nos	RO			16			
a	5/15A Switch socket complete (IP-65) for Kitchen	Nos.	20						
	Switth socket Ip65 for kitchen	Nos		10				10	
-	Total City	Nos						10	
	Previous qty	Nos						10	
	This bill qty	nos						0	
3	SITC of Standalone Gas leak detector with inbuilt sounder for Kitchen	Nos	RO						
	TOTAL FOR MAIN PANEL & SWITCHGEAR								
11	INVERTER / UPS	148	7111						
	Supply, Installation, testing and commissioning of 6 kVA UPS. System Single Phase I/C &		100						
	Single Phase O/G complete with 30 Minutes Battery Back-up the required accomplete	Nos	1						
	as specified in the drawings & the specifications.								
	UPS	Nos		1				1	
	Total Qty	Nos						1	
	Previous qty	Nos							
	This bill qty	nos						1	7
	TOTAL FOR UPS								, -
101	DISTRIBUTION BOARDS								
	mounted with Double door containing MCB/ELMCB as incomer and SPMCB as outgoing. All MCBs are of 10KA breaking capacity and ELMCBs/RCCB should be of 30mA/100 mA sensivity. The DB shall have appropriate no of top and bottom knock outs for outgoing circuits and shall be complete with necessary busbars, interconnection terminals and earth studs. All terminations in DB shall be complete with ferulling, dressing and all circuits shall be properly labeled with PVC strip (sticker type) having identification as per the final approval of Consultant. For UPS DB MCB shall be 'D' type and other MCBs shall be 'C' category for lighting and raw power DB	n Will							
	LEGRAND// RIT								
	Lighting Distribution Board + LPDB 12 WAY TPN DB	Nes	1						
	/C- 1 # 40A P MCB , 16KA	-	- 7						
	SUB I/C = 3 # 25A DP RCCB 30mA per phase								
	D/G · 30 # 10/20A SP MCB Distribution board	Nos		1				1	
	Total Qty	Nos.						1	
	Previous bill	Nos.		A				1	
- 1	this bill qty	Nos.						0	
2	RAW Power Distribution Board - RPDB	Nos	RO						
	6(8) WAY TPN DB								
	/C- 1 #40 A FP MCB SUB I/C- 3#40 DP ELCB 300mA per ph								
	0/G - 18 # 16/20A SP MCB			- 15					
	Kitchen Power DB - (KPD8-1) B WAY TPN DB	Nos	2						
	VC- 1 #40 A FP MCB								
	SUB I/C- 3#32 DP ELCB 100mA per ph								
	D/G - 18 # 16/20A SP MCB Supply kitchen dB	Nos		1				1	
	Fotal Qty	Nos						1	
	Previous bill	Nos.						1	
	this bill qty	Nos						0	
4 1	EMERGENCY LIGHTING DB (ELDB/UPSDB) 12 way SFN DB	Nos.	1						
	LA MAN SERVICES								
	Dutgoings : 10/16 SP MCB, 'D' Type – 8 Nos			.,_					
	ncomer: 40A DP RCBO 30mA Dutgoings :10/16 SP MCB, 'D' Type – 8 Nos Emergency DB	Nos		1				1	
C	ncomer: 40A DP RCBO 30mA Dutgoings : 10/16 SP MCB, 'D' Type – 8 Nos Emergency DB Fotal City	Nos.		1				1	
E	ncomer: 40A DP RCBO 30mA Dutgoings :10/16 SP MCB, 'D' Type – 8 Nos Emergency DB			1					
	Incomer: 40A DP RCBO 30mA Outgoings: 10/16 SP MCB, "D' Type – 8 Nos Emergency DB Total Otty Previous bill	Nos.		1				1	

Divest Taipathi 24/04/24

	MB -Electrical ,The Irish House	- 4		C	orrection cop	/			
SR, No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
IV	CABLES & ACCESSORIES								
	CABLES & ACCESSORES Supply & installation of following LT XLPE FRISH cables (FINOLEX/RIF KABLE/FIDLYCAB) rated for 600 / 1100 volts AC as per i5 standard 1554 Part 1 with necessary M.S. clamps								
	All cables shall be properly clamped or field when run on cable travs. All such cables			10.77					
	shall be provided with temporary labelling at every 20 mt/s and ten finally with metal				, , , ,				
	identification tags showing the size and the location from/to the specific Panel/DB at			0.00	THE S				
	both ends								
1	3.5C x 300 5q, mm-AZXEY	Mtr	RO						-
2	3.5C x 240 Sq. mm A2XFY	Mitr	RO	7					-
3	3 5C x 185 Sq. mm A2XFY 3 5C x 150 Sq. mm A2XFY	Mtr	RO						
5	3 5C x 120 Sq. mm AZXFY	Mitte	RO						
6	3 5C x 95 5q. mm A2XFY	Mtr.	RO						
7	3.5C x 70.5a mm A2XFY	M4tr.	RO						
8	3.5C x 50 Sq. mm A2XFY	Mtr	RO			10111			
9	3.5C x 35 Sq. mm A2XFY	Mtr.	RO 100						-
	4C x 16 Sq. mm A2XF/ 4C x 10 Sq. mm A2XFY	Mrr	RO	Charles 1					-
	4C x 10 Sq. mm 2XFY (Cu.)	Mtr	RO						
	4C > 16 Sq. mm 2XFY (Cu)	Vtr	RO						
	4C x 6 Sq. mm 2XFY Cable (Cu)	Mtr	30						
				1	3			3	
	Total Qty	mtr						3	
	Previous bill	mtr						3	
	this bill qty	mtr						0	
15	4C x 4 Sq. mm 2XFY Cable (-Cu-)	Vitr	60						
	4C x 2.5 Sq. mm 2XFY Cable (Cu)	Mitr	RO						
	3C x 6sq. rom YVVY cable (Cu)	Mtr.	20						
18	56 x 4sq. mm YWY cable (Cu !	Mits	40						
Tō	3C x 2 S Sq. mm YWY cable (Cu)	Mtr.	RO						
20	1C x 10 Sq. mm (Y cable { Cu }	Mtr	RO				11.191		
	1C x 6 Sq. mm YY cable (Cu)	Mitro	RO	-1-11					
22	1C x 4 Sq. mm YY cable (Cu)	Mtr	RO						
	5Rx1Cx16 Sq.mm YY FRLS Cable (Cu)	Mu	RO						
24 25	SRX1CX10 Sq.mm YY FRLS Cable (Cu) SRX1CX6 Sq.mm YY FRLS Cable (Cu)	Mtr.	RO						-
	5Rx1Cx4 Sq.mm YY FRLS Cable (Cu)	Mir	RO						
	Termination of following sizes of cables with Single compression cable								
В	gland.(COMET/BRAKO)								
1	3.5C x 300 Sq. mm A2XFY	Nos.	RO						
	3.5C x 240 Sq. mm A2XFY	Nos.	RO						
3	s 5C x 185 Sq. mm AZXEr	Nos	RO						
	3.5C x 150 Sq. rnm A2XFY	Nos	RO			11/20			
	3.5C x 120.5q, mm A2XF r	Nos	RO						
	3.50 x 9.5 Cg, min A2Xi /	Nos	RO						
	3.5C x 70.5q rnm A2XFY 3.5C x 50.5q rnm A2XFY	Nos Nos	RO RO						
	3.5C x 35 Sq. mm A2XFY	Nos	RO						
	4C x 16 Sq. mm A2XFY	Nos	- 2						
. 11	4C x 10 Sa. mm A2XF7	Nos.	RO	- 3					
	4C x 10 Sq. mm 2XFY (Cu)	Nos.	RO						
	4C x 16 Sq. mm 2XFY (Cu)	Nos	RO						
	4C + 6 Sq. mm 2XFY Cable (Cu)	Nos.	- 6						
	4C x 4 Sq. mm 2XFY Cable (Cu) 4C x 2 3 Sq. mm 2XFY Cable (Cu)	Nos	4						4
	3C + 6xg, mm YWY cable (Cu	Nos.	RO 4				_		_
	3C x 4sg, mm (W) cable (Cu)	Nos.	4			0			
-	3C × 2.5 Sq. mm YWY cable (Cu.)	hes	RO						
	10 x 10 Sq. mm (Y cable (Cu)	Nos	RO						
	1C > 6 Sq. mm YY cable (Ca)	*los	RO						
	1C > 4 Sq. mm YY cable (Cu)	Nos	RO						
	5foct Cv.16 Sq.mm YV FRLS Cable I Cu	Nos/	RO			/			
	5Rv10x10 5q.mm Y: FPLS Cable (Gu)	Nos.	RO						
	SAX1Cx6 Sq mm YY FRLS Cable (Cu) SBX1Cx4 Sq mm YY FRLS Cable (Cu)	Nos.	RO						
	والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي والمتعادي	7605.	RO						
	TOTAL FOR CABLES & ACCESSORIES								
V	WIRING & ACCESSORIES								
	Notes :								
	1) Pates for point wring shall include supply & installation of Wires & wiring								
	accessories such as langte holders/celling roses as required conduits, conduit			1 1					
	accessories such as junction boxes. Ts, elbows etc Switches, sockets. & fixtures shall not			41.					
	be included in the point which rates. The so will be counted & paid separately.								
	Control of the Contro			-					

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SR. No	DESCRIPTION	NOM	Boq qty.	No.	Length	Width	Height	Total	Remark
	The 25 comm								
	Unless otherwise specified, all wires in point wiring shall be 2.5 sq.mm Stranded copper conductor 1.1 KV grade, I.S.I. marked (P+N+E).		-						-
-	I SZH) PVC insulated								
	Wires shall be colour coded (Red, Yellow and Blue for Phases								1
	Black for Neutral & Green for Harth)			-					
	3) Looping of wires shall be in fittings and switch boxes only			-					
_	3) Looping of wires shall be in fittings and switch boxes only								
	4) Location of switches/sockets/ DBs shown on the drawings shall								
	be confirmed with the Architect/ Consultant/ Project Manager								
	before installation.	-							
-	5) All Surface and concealed Conduits shall be rigid GI conduits of								
	size not less than 20 mm dia as per applicable IS								
			1111						
	6)The Contractor can take more than one circuit in the same conduit provided they are of the same phase. The size of conduit shall be								-
	decided according to the number of wires in it as per applicable IS & as					تترباس برال			
	specified	12							
	7) Payments for light fixtures & fans will be made separately as per the litems given in 'Light Fixtures & Accessories'			it -					
	Inchia Kitanini likiti natara a mananana								
	8) Type & location of light fixtures shown in the drawings are								
	tentative and subject to revision as per the recommendation of								
-1100	Architect/ Consultant The quantities (number of points and accessories) of point wiring will be revised as actual installed on account of such								
	revisions in the layouts.			_					
	9) Circuit wiring from DBs to the switch boards or first light point shall								
	Be included as primary points & remaining points of the same fooping		_						-
-	shall be considered as Secondary points and shall be counted in nos.	-							
	10) Circuit Wiring from DB to Altchen Power points shall be measured in running								
	meters					200			
		-							
-	Supply, installation, testing & commissioning of point wiring for light points, power						-		
	points. Point wiring for primary point shall include wiring from Distribution Board upto								73
1	First point of the circuit and shall be measured in nos. Secondary points shall also be								111
	measured in nos and shall include the remaining light points of the circuit controlled								
	from same distribution board where primary points are controlling. The Power points								
	Averagepoint length of primary&secondaryto be derived by Contractor from the								
	drawing provided AND+/-1MtrMeasured Radially								
8)	Primary Light points controlled by MCB (3R x 2.5 somm wire)	Nos	20					21	
	Light points	Nos.		21				21	
	Total City: Previous bill	Nos.						21	
	this bill aty	Nos.						0	
	Secondary Light points looped in the same circuit (3R x 2.5 sqmm wire)	Nos.	90	98				98	
-14	secondary light point Total City	Nos.		98				98	
	Previous bill	Nos						98	
	this bill aty	Nos.						C	
	Supply, installation, testing & commissioning of point wiring for light points, power								
	points. Point wiring for primary point shall include wiring from Switch Board upto f		1, 1						
	point of the circuit and shall be measured in nos. Secondary points shall also be					1			
	measured in nos and shall include the remaining light points of the circuit controlled								
	from same switch board where primary points are controlling. The Power points shall					7)			
	be measured in Nos Cost of GI conduits, 6A switch & switch board and accessories								111
a)	Primary Light points controlled by Switch 138 x 2.5 spmm wife)	Nos.	1			/			
	Light points			1				1	
	Total Qty	Nos.							-
	Previous bill	Nos.							+
	this bill qty	Nos.							
b)	Secondary Light points looped in the same circuit. (3R x 2.5 sqmm wire)	Nos.	2						
	Secondary Light			2				- 2	
	Total Qty	Nos.							
	Previous bill this bill qty	Nos.						2	

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SR. No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
c)	DB to SB & SB to SB circuit wiring a Foc Switch Operated Primary point. @ SB to SB loop point. Wiring for switch board controlled by MCB already installed in DB by using 3 × 2 5 sq mm flexible LSZH copper wires in 25mm GI conduits as per IS 9537 part-3 or surface mounted.	Mtrs	10						
3	Supply, installation testing & commissioning of point wiring for Emargency light points, power points. Point wiring for primary point shall include wiring from Distribution Board upto First point of the circuit and shall be measured in nos. Secondary points shall also be measured in nos and shall include the remaining light points of the circuit controlled from same distribution board where primary points are controlling. The Power points shall be measured in Nos. Cost of GI conduits and accessories shall be								
8)	Averagepoint length of primary&secondaryto be derived by Contractor fromthe drawing provided AND+/-1MtrMeasured Radially Primary Light points controlled by MCB (3R x 2, 5 sgmm wire)	Nos	2						
	Primary light point Total Oty Previous bill this bill qty	Nos. Nos. Nos.		2				2 2 2 0	
b)	Secondary Light points looped in the same circuit. (2R x 2.5 samm wire) secondary light point Total Oty	Nos.	9	9				9	
	Previous bill this bill aty Providing point wiring for Raw Power/UPS points Ino 6/164 switch cocket outlet on	Nos.						9	
5	Skirting level to be looped from the nearest point using 2 x 4.0 sq. mm copper conductor wires and minimum 4.0 sq. mm copper conductor PVC insulated green colour earth wire as per approval of Architect / Consultant. (Cost of GI Conduit / Floor Raceway and switch sockets are considered elsewhere). (Wires shall be (SZH type.) Note: Average primary / secondary point length to be derived by Contractor, from the drawing / site provided AND ±/1 Mtr. Measured Parhally.								-17-
al	Primary Point Primary light point TV POINT Addetional item	Nos.	8	8 2				8	
	Total City Previous bill this bill city	Nos. Nos.						8 8 0	
ь)	Secondary points secondary light point	Nos.	27	27				27	
	Total Qty Previous bill this bill qty	Nos. Nos.	-					27 27 0	
6	Providing point wiring for Raw Power points. The LBA switch societ outlet on Skirting level to be looped from the nearest point using 2 x 2.5 sq. mm copper conductor wires and minimum 2.5 sq. mm copper conductor PVC insulated green colour earth wire as per approval of Architect / Consultant, (Cost of Conduit / Floor Raceway, and switch sockets are considered elsewhere). (Wires shall be FRLS type). Note: Average primary / secondary point length to be derived by Contractor, from the drawing / site provided AND 4/- 1 Mir Measured Badially.								
b)	Primary Point Secondary points	Nos Nos	RO RO						
8	Supply and laying of following PVC insulated copper conductor 1100 volt grade stranded flexible LSZH wire in already laid. Gi conduit concealed or surface mounted making connections where ever required to complete the installation (For Kitchen and								
a)	Bar Power Points) Conduit rate shall be paid separately. 2R x 2 5Sqmm + 1R x 2 5Sqmm Cu. Wires Lighting	Mtr	60						
	Y6 R3 B2 B4 B3	Rmt Rmt Rmt Rmt Rmt		1 1 1 1	27 11 15 16			27 11 15 16 14	
	UPS kitchen F3	Rmt		1	25			25	
	Total City. Previous gty This gty.	Rmt Rmt Rmt						108 108 0	
b)	3R x 45gmm Cu. Wires kitchen circuit KP DB R1	Mtr.	240		55.00			25	
0100	KI ()	Rmt.	- 1	11	25.00			25	

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SR, No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
100	R3	Rmt.		1	24 00	11100-0	111111111111111111111111111111111111111	24	
	Y1	Rmt		1	23.50			23.5	
	B3	Rmt.		1	22 50			22.5	
	Y5	Rmt		1				22	
	Y4	Rmt	110	1				22.5	
	Y2	Rmt		1				24	
	B1	Rmt.		1				25	
	R2	Rmt		1				24 5	
	B2	Rmt.		1				25	
	Y3	Rmt	100	1				25	
	B4 Power point LP DB	TXIIII.			20,00			25	
	Y9	Rmt	-	1	38.00	110,0		38	
	Y8	Rml.		i			_	18	
	R8	Rmt		1	The second second second			36	
	B7	Rmt.	111111111111111111111111111111111111111	1				35	
	B8	Rmt.		1				25	
	R9	Rmt.	M077	1		T VIII		22	
	Service UPS DB								
	F4	Rmt		1	19.00			19	
	F5	Rmt.		1			الحلك والمسال	35	
	Total Qty	Rmt						516	
	Previous Qty	Rmt						516	
	this Bill Oty	Rmt						0	
		1111			AS HOLL				
	4R x 4Somm + 2R x 2 SSamm Cu. Wires	Mtr							
d)	4R x 6Samm + 2R x 2 5Samm Cu. Wires	Mtr							
								L	
9	Supply & installation of 25 mm dia. Gl conduit with pull box / junction box & all	- 2						: -111	
	accessories for Kitchen & Bar Power wiring as per the requirement	140	050						
a	do - but conduit ope shall be Rigid type.	Mtr	350		20			20	
		Rmt	-	1	36 16	-		36 16	
-		Rmt		1	19			19	
-		Rmt		1				19	
		Rmt		1	19			19	110
9		Rmt		1				19	
		Rmt		1				19	
		Rmt		- 1	19			19	
		Rmt		1		-		19	
-		Rmt		i	8			8	
	Cat 6 Wiring for TV-01	Rint		1	24			24	
	Cat 6 Wiring for TV-02	Rmt		1	24			24	
		Rrnt		1				26	
	Total Qty	Rmt						267	
	Previous Qty	Rmt						193	
	this Bill Qty	Rmt						74	
b	do - but flexible conduit pipe	Mtr	25						
		Rmt		1	3.00			3	
		fimt		1	30.2.2			2	
		Rmt		1	2.00			2	
		Rmt		1	2.00			2	
		Rmt		1				2	
		Rmt		1				3	
_		Rint		1		_		3	
		Rmt	1 1 1	1				4	
		Rmt		1	3.00			3	
	Total Qty	D		1000					
	Previous Qty	Rmt						24	
	this Bill Qty	Rmt Rmt						0	
		MILL						- 0	
	Supply & installation of 20 mm dia, GI conduit with pull bex / junction box & all								
10	accessories for Lighting & Power wring as per the requirement								
0	- do - but conduit pipe shall be Rigid type	Mitr	RO						
b	-do - but flexible conduit pipe	Mtr	RO						
100									
	Supply and installation of Perforated Cable Tray (ASIAN)out of 14 gauge GI sheet	11/2						-	
11	complete with necessary fixing arrangement with Anchor Fastener and all other accessories as per the final approval of the Consultant/Architect								
11	accessories as per the final approval of the Consultant/Architect 300 x 50 x 2mm	Mtr	30						
11 b	accessibiles as per the final approval of the Consultant/Architect 300 x 50 x 2mm 200 x 50 x 2mm		RO						
11 b	accessories as per the final approval of the Consultant/Architect 300 x 50 x 2mm 200 x 50 x 2mm 150 x 50 x 2mm	Mtr Mtr Mtr	RO 10						
b b d	accessives as per the final approval of the Consultant/Architect 300 x 50 x 2mm 250 x 50 x 2mm 150 x 50 x 2mm 100 x 50 x 2mm	Mtr Mtr Mtr Mtr	RO 10 RO						
11 b c d	accessories as per the final approval of the Consultant/Architect 300 x 50 x 2mm 200 x 50 x 2mm 150 x 50 x 2mm	Mtr Mtr Mtr	RO 10						

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SR. No	DESCRIPTION	иом	Boq qty.	No.	Length	Width	Height	Total	Remarks
-	Supply and installation of GI trunking (SV_POWER/ASIAN) with 2 mm thickness &	2-47		100000					
1.2	properties/clamps for suspension at appropriate intervals. & as per the route approved by Architect/Consultant, (For DATA/CONTROL WIRING/LIGHTING & POWER CIRCUITS /						+		
	KITCHEN) 300 x 50 x 2mm;	Mit	RO						_
a	200 x 50 x 2mm	Mtr	RO						
	150 x 50 x 2mm	Mtr	30	-					
c	130 x 30 x 2000	Mu	00	8				8	
	Total Qty	Rmt						8	
	Previous Qty	Rmt						8	
	this Bill Oty	Rmt						0	
					no and				
c	100 x 50 x 2mm	Mir	RO						
6.	50 x 50 x 2mm	Mir	RO						
13	Supply and installation of GI raceway with 2 mm thickness & proper ties/cramps at appropriate intervals & as per the route approved by Architect/Consultant. (Cost of								
	cutting the floor for laying of raceways to be included								
a	3 runs of underfloor raceways of size 100 × 40 mm	Mtr	RO						
ь	2 runs of underfloor raceways of size 100 x 40 mm	Mtr.	RO						
C	1 runs of underfloor raceways of size 100 x 40 mm	Mtt.	20						
d	1 runs of underfloor raceway of size 85 x 40 mm	NIti.	RO	4 1					
	2 runs of underfloor raceway of size 65 × 40 rnm	Nitr_	RO						
f	1 runs of underfloor raceway of size 65 x 40 mm	Mtr_	10						
	Supply & installation of Gi junction boxes with 2 mm thickness. Zmm thick 55 cover with								
	2 extra on all sides SS cover on top and having screw fixed plates on all four sides with	Thur.							
			LU:SI					1.0	
	knock out holes for conduits. The plates shall be retained on the sideze having no								
1.74	conduit or raceway so as to avoid the entry of any unwanted material. Earth stud to be							117	
	provided for all Junction boxes for eartning. Junction box to be prepared as per thr		OHA.						
	final approval of Architect/Consultant. The junction boxes shall be protected from the	m						11	
	entry of unwanted material till the completion of the project & the SS plates shall be	11.10							
	installed after the final notishing of firming		00						
	suitable for 450 x 450 x 50. min	Nos.	RO						
	suitable for 350 x 350 x 50 mm	Nos	RO						
	suitable for 250 x 250 x 50 mm	Nos	RO RO						
d	suitable for 150 x 150 x 50 mm	Nes	RU						
15	Supply, installation, testing & commissioning of flush mounted plate type switch and switch + sockets with hot dipped Gi box complete as per the final approval of Architect/Consultant	7/6	n de la						
	6A one way plate type switch	Nos	2						
	6A.5 pin Socket outlet	Nos	RO						
	6A Spin switch socket outlet for CCTV & Charging point	Nos.	1						
	3 nos. 6A socket controlled by 1 no 16A switch	Nos	2						
	2 nos. 6A socket controlled by 2no 16A switch	Nos							
	USB Point	Nos	5						
_	d.p. rom	Nos		4				4	
		Nos							
	Total Oty							A	
	Total Qty Province Oty							4	
	Previous Oty	Nos.						4	
	Previous Oty this Bill Qty	Nos. Nos	32					4	
	Previous Oty	Nos. Nos	32	20				4	
h	Previous Qty this Bill Qty 1 nos, 6/16A socket controlled by Incs 6/16A switch	Nos. Nos	32	20				4	
h	Previous Qty this Bill Qty 1 nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket	Nos. Nos Nos	32					20 2	
h	Previous Oty this Bill Qty 1 nos. 6/16A socket controlled by Incs 6/16A switch tv switch socket Total Qty	Nos. Nos Nos Nos	32					20 22 22	
h	Previous Oty this Bill Qty 1 nos. 6/16A socket controlled by Incs 6/16A switch tv switch socket Total Qty Previous Qty	Nos. Nos Nos Nos Nos.	32					20 2	
h.	Previous Oty this Bill Qty 1 nos. 6/16A socket controlled by Incs 6/16A switch tv switch socket Total Qty	Nos. Nos Nos Nos	32					20 22 22 22 20	
h	Previous Qty this Bill Qty 1 nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty	Nos. Nos Nos Nos Nos.	32					20 22 22 22 20	
h	Previous Qty this Bill Qty 1 nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp. bakehte socket & switch, housed in Fabricated SS Fanel	Nos. Nos Nos Nos. Nos. Nos.	32					20 22 22 22 20	
h	Previous Qty this Bill Qty 1 nos. 6/16A socket controlled by Inns 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp. bakehte socket & switch, housed in Fabricated SS Panel suitable for hanging arrangement for Extchen equilibriants. (having Two outlet. /6	Nos. Nos Nos Nos Nos.						20 22 22 22 20	
h	Previous Qty this Bill Qty 1 nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp. bakehte socket & switch, housed in Fabricated SS Fanel	Nos. Nos Nos Nos. Nos. Nos.						20 22 22 22 20	
h	Previous Oty this Bill Oty 1 nos. 6/16A socket controlled by Incs 6/16A switch tv switch socket Total Oty Previous Oty this Bill Oty I phase, 2 Nos x 5/15 amp. bakehte socket 8 switch, housed in Fabricated SS Panel suitable for hanging arrangement for Fitchen equilibrients. (having Two outlet: /6 modular plate)	Nos. Nos Nos Nos. Nos. Nos.						20 22 22 22 20	
h	Previous Qty this Bill Qty I nos, 6/16A socket controlled by Inos 6/16A switch It switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket & switch, housed in Fabricated SS Fanel suitable for hanging arrangement for Extchen equilibriants. (having Two outlet: /6 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
b	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakelite socket 8 switch housed in Fabricated 55 Panel suitable for hanging arrangement for hitchen equilibriums (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes IP 66 (at terrace level) with 2 nos of 6/16A International switch & socket outlet + 1 set	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
h i	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakente socket & switch, housed in Fabricated 55 Panel switable for hanging arrangement for bitchen equilibrants. (having Two outlet: /6 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch & socket outlet + 1 set of blanking plate for 2 data/voice outlet switable for AMP typo i/o's of following.	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
6	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch to switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket 8 switch, housed in Fabricated 55 Fanct switable for hanging arrangement for bitchen equilibriants. (having two outles 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking, plate for 2 data/voice outlet suitable for AMP typo I/O's of following modules complete with all installation hits, accessories, required to finish the	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
b.	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch to switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amplibakente socket & switch, housed in Fabricated 55 Fancl suitable for hanging arrangement for bitchen equilibriants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch & socket outlet + 1 set of blanking, plate for 2 data/voice outlet suitable for AMP type for of following modules complete with all installation hits accessories, required to finish the installation – Sample will Approved by Chent/Consultant.	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
b	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch to switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket 8 switch, housed in Fabricated 55 Fanct switable for hanging arrangement for bitchen equilibriants. (having two outles 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking, plate for 2 data/voice outlet suitable for AMP typo I/O's of following modules complete with all installation hits, accessories, required to finish the	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
h 16	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch to switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amplibakente socket & switch, housed in Fabricated 55 Fancl suitable for hanging arrangement for bitchen equilibriants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch & socket outlet + 1 set of blanking, plate for 2 data/voice outlet suitable for AMP type for of following modules complete with all installation hits accessories, required to finish the installation – Sample will Approved by Chent/Consultant.	Nos. Nos. Nos. Nos. Nos. Nos.						20 22 22 22 20	
h 16	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket 8 switch housed in Fabricated 55 Panel suitable for hanging arrangement for hitchen equilibrants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A International switch & socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP typo 1/0's of following modules: complete with all installation wits, accessories, required to flinish the installation — Symple will Approved by Chent/Consultant. Cost of Switches, sockets outlet & blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
h 16	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch to switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amplibakehte socket & switch, housed in Fabricated 55 Fanct suitable for hanging arrangement for bitchen equilibriants. (having two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch & socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP type for 5 of following modules complete with all installation hits, accessories, required to finish the installation – Sample will Approved by Chent/Consultant Cost of Switches, sockets outlet & blanking plat for Data/Voice outlets shall be included.	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
h	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch It switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket & switch, housed in Fabricated 55 Fanct suitable for hanging arrangement for bitchen equilibrants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP typo 1/0's of following modules complete with all installation hits, accessories, required to flinish the installation – Sample will Approved by Chent/Consultant Cost of Switches, sockets outlet & blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm. Supply, installation of temporary lighting & power arrangement for construction purpose of with industrial type switch & sockets/MCB s/ELCB's & lighting fittings as	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
n 16	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch tv switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakente socket 8 switch, housed in Pabricated 55 Panel switable for hanging arrangement for Nitchen equilibrants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP typo 7/0's of following modules complete with all installation with accessories, required to flinish the installation Sample will Approved by Chent/Consultant Cost of Switches, sockets outlet 8 blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm.	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
h 16 161	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch It switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket & switch, housed in Fabricated 55 Fanct suitable for hanging arrangement for bitchen equilibrants. (having Two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. IP 66 (at terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP typo 1/0's of following modules complete with all installation hits, accessories, required to flinish the installation – Sample will Approved by Chent/Consultant Cost of Switches, sockets outlet & blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm. Supply, installation of temporary lighting & power arrangement for construction purpose of with industrial type switch & sockets/MCB s/ELCB's & lighting fittings as	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
16 1 16 1 17	Previous Qty this Bill Qty I nos. 6/16A socket controlled by Inos 6/16A switch It is switch socket Total Qty Previous Qty this Bill Qty I phase 2 Nos x 5/15 amp bakehte socket 8 switch housed in Fabricated SS Fanel suitable for hanging arrangement for bitchen equilements. (having two outlet 76 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. (P. 66 Lat terrace level) with 2 nos of 6/16A international switch 8 socket outlet + 1 set of blanking plate for 2 data/voice outlet suitable for AMP typo 1/0's of following modules complete with all installation hits, accessories, required to flinish the installation - Sample will Approved by Chent/Consultant. Cost of Switches, sockets outlet 8 blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm. Supply, Installation of temporary lighting & power arrangement for construction purpose of with industrial type switch 8 sockets/MCB s/ELCB's 8 lighting fittings as required to finish the work for interior contractor 8 necessary electrical protections.	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	
h. 161	Previous Qty this Bill Qty I nos. 6/16A socket controlled by thos 6/16A switch It switch socket Total Qty Previous Qty this Bill Qty I phase, 2 Nos x 5/15 amp, bakehte socket 8 switch, housed in Fabricated SS Fanel suitable for hanging arrangement for Extener equilibriants. (having Two outlet 1/6 modular plate) Supplying, installation, Testing and commissioning flush mounting floor metallic boxes. (P 66 (at terrace level) with 2 hos of 6/16A international switch 8 socket outlet + 1 set of blanking, plate for 2 data/voice outlet suitable for AMP typo 1/0's of following modules complete with all installation hits, accessories, required to finish the installation - Sample will Approved by Chent/Consultant Cost of Switches, sockets outlet & blanking plat for Data/Voice outlets shall be included. 300mm x 300mm x 65/75 mm Supply, installation of temporary lighting & power arrangement for construction purpose of with industrial type switch & sockets/MCB's/ELCB's & lighting fittings as required to finish the work for Interior contractor & necessary electrical protections throughout the site for construction work till the handover of site. Contractor shall	Nos. Nos. Nos. Nos. Nos. Nos. Nos. Nos.	1					20 22 22 22 20	

Divest Taibathi

	MB -Electrical ,The Irish House	mm al	Dev		orrection copy	N-COLUMN	December 1		0.00
SR. No	DESCRIPTION	MON	Boq qty.	No.	Length	Width	Height	Total	Remarks
	Total Qty Previous Qty	100						1	
-	This Bill Oty							0	
	11113-11111-1111	F 1/3							
	TOTAL FOR WIRING & ACCESSORIES	1500							J. LUC, S
		11.70							
VI	LIGHTING FITTINGS Installation, testing & commissioning of the following concealed / surface mounted of								
	suspended light fixtures AS PER FINAL APPROVAL FROM ARCHITECT/CLIENT/CONSULTANT with lamps, ballast & all necessary mounting &	7							
	supporting accessories. No additional cost shall be paid for supporting.								
1	FILAMENT BULB	Nos	46						
1	FILANIEN FORES	Nos		31				31	
	Total Qty	Nos.						31	
	Previous Qty	Nos.						31	
	this Bill Qty	Nos.						0	
			- 10						
2	PULLEY LIGHT	Nos.	12	- 44					
	Terral Ohi	Nos.		11				11 11	
	Total Qty Previous Qty	Nos.						11	
	this Bill Oty	Nos.						0	
	tins oin Gry	11021							
3	CHANDELIER	Nos	4						
		Nos		5				5	
	Total Qty	Nos.	X.1		المستشارا			6	
	Previous Qty	Nos.						6	
	this Bill Oty	Nos.						0	
	New York Control of the Control of t		-						
4	KEG LIGHT	Nos	3	3				2	
-	Total Ob.	Nos.		3				3	
	Total Oty Previous Oty	Nos.						3	
	this Bill Ory	Nos.						0	
	with say	11001							
5	TRACK LIGHT	Nos.	32						
		Nos		28				28	
	Total Qty	Nos.						28	U
	Previous Qty	Nos	Ш					28	
	this Bill Qty	Nos.						0	
	NAME AND DESCRIPTION OF	Non							
6	DECORATIVE LIGHT	Nos Nos	1	- 1				1	
	Total Qty	Nos.						1	
	Previous Qty	Nos.	-					1	
	this Bill Oty	Nos.						0	
7	HANGING SPOT LIGHT	Nos	12						
		Nos		31				31	
	Total Qty	Nos.				h - c - 1		31	
	Previous Qty	Nos.						31	
	this Bill Oty	Nos.						0	
0	LED CTOID LICIUT		47						
	LED STRIP LIGHT Led Profile light	Mtr. Nos	47	42				42	
	Total Oty	Nos.		42				42	
	Previous Qty	Nos.	71					72	
	this Bill Qty	Nos.						42	
	SPIKE LIGHT	Nos	12						
	Spike light	Nos		12				12	
	Total Qty	Nos.	-					12	
	Previous Qty	Nos.						40	
-	this Bill Qty	Nos.						12	
10	FILAMENT LIGHT EMERGENCY	Nos	6						
	HANGING SPOT LIGHT EMERGENCY	Nos	5						
		NO2							
	TOTAL FOR LIGHTING FIXTURES								
	EARTHING								

Divest Subathi 24/04/24

	MB -Electrical , The Irish House			C	arrection copy				
SR. No	DESCRIPTION	иом	Boq qty.	No.	Length	Width	Height	Total	Remarks
1	supply and installation of Maintenance Free Chemical Farthing using Electrode of Site approx. 33 mm dia =/- 2mm, 3 metres long bonded with 50x6 capper internal strip complete with excavation, civil works, capturon cover with backfull compound min, 40 KG. The system shall be CPPI tasted. Warranty period of chemical earthing from the date of commissioning that the 5 years. Warranty implies the voltage between earth and neutral will not exceed 0 volts for earthing pits installed. (Note: Body earthing provided by Base builder. We have considered Neutral earthing	Nos.	RO	, N					
2	for IBS 8. Service racks. Supply & erection of GL stup of 50×6 mm used for earthing on wall cable trays with	Mtr_	RO						
3	necessary clamps fixed on wall painted with bituminous paint in an approximation of manner. Supply & election of G.I. strip of 25 x 3 mm used, for earthing on wall, cable trays with	Mtr	60						
4	necessary clamps fixed on wall painted with bituminous paint in an approved manner. 1 no. 4 sq. rnm YY cable in 35mm GL conduit for earthing FOR NETWORK RACK	Mtr	20					1-7-2-	
5 7	Supplying 8, erecting pare conductor of 8 swa for earthing numbes Supplying Sugrecting bare Greenductor of 8 swa for earthing number	Mtr. Mtr	80						
S	Supplying & erecting care CU conductor of 12 swig for earthing purpose	Mti.							
()	Supplying & installation testing & commissioning of earth terminal oc-	Nos							
	TOTAL FOR EARTHING			LLUGU.					
VIII	MISCELLANEOUS								
1	Supply & Installation of 6A 3 per plus top	Nos	RO					- 1 4	-
72	Supply & Installation of 16A3 pin plug top	Nos	RO						
3	Supply installation, testing & commissioning of Cat 8 FRES Cable for Lighting Automation	ldtr.	RO						8
4	Supply & laying of Rubber Maty, CPRI tested conforming to standards like 85 921 ASTM								
	D 178 & IEC 479 for different operating voltage ratings as below. Supply of 2M k IM Rubber mat suitable for operating voltage upto 1 1 FV.	Set	1						
	Supply & fixing of approved shock treatment chart written in English and in local	77116		4-00					
5	Language. The chart shall be framed in Took wood and covered with glass.	Nos	1						
6	Supply & fixing of approved Fire Alarm evacuation plan chart written in English and in local Language approved by cleen requirements.	Nos	RO					- 47	
7	Supply & fixing of the best quality L1 Danger Boards(415V) for lof approved shape and size as specified by the local electrical authorities written in English and local Language.	Nos	f						
S	Supply & handled over to client of First Aid Box	Set	RO						
9	SITC of Emergency Exit signage (battery operated) approval by client / accollect / consultant. Make: Prolite or Equivalent	Nos	RO						
100	TOTAL FOR MISELANIOUS						0		
IX	LOW VOLTAGE SYSTEM								
A	DATA AND TELEPHONE SYSTEM								
		- 25							
4	Supply & Installation of 25mm dis. Gi conduit with pull box7 junction box & all assessories for DATA (VOICE/WIF) wring as per the requirement.	Mtr	500	- "					
		Rmt		1	25 25			25 25	
		Rmt		1	20			20	
		Rmt Rmt		1	14 20			14	
		Ernt		1	2			2	
		Rmt Rmt	-	1	22 19			19	
		₽mt		1	19				
		Rint		1	26				-
	Total Qty	Rmt			71 75 7			147	
	Previous Bill This Bill	Rmt Rmt						147	
		11.71							
	Providing DATA wiring inside 25mm dia SI conduit from each Data outlet to ICT CF Point brussing Indoor Type CAT&A	Mtr	450				U I		
	V3 D7	Rmt	Щ	1	32			32	
	D8	Rmt Rmt		1	32 32	777		32	
The state of	D1	Emt		1	26			26	
	D2	Rmt Rmt		1	26 29			26 29	
		Torre		1.1	29			29	

Divest Tonbathing 24/04/24

	MB -Electrical ,The Irish House				orrection copy				
SR. No	DESCRIPTION	UOM	Boq qty.	No.	Length	Width	Height	Total	Remarks
	D4 .	Rmt		1	29			29	
	V1	Rmt		1	29			29	
	Ra-2nd								
	D9	Rint		1	27			27	
	D10	Brnt		1.	21			21	
	D11	Pmt		1	10	l l		10	
	D12	Rmt		1	16			16	
	D13	Pmt		1	19			19	
	D14	Rmit		1	26			26	
	D15	Rmt		1	36			36	
	D16	Rint		1	23			23	
	D17	Rmt		1	14	music district		14	
	D5	Pmt		1	8			8	
	D6	Emt		1	8			8	
	V2	Rmt		1	8	1111		8	
-	wift 1	kmt			23			23	
	wifi 2	Rmt		1	4	11111111111		4	
	projector	Rint		- 1	21			21	
	Cat 6 Wiring for TV-01	Rmt		1	24				
	Cat 6 Wiring for TV-02	Rmt		1	24				
	Total Qty	Rmt						499	
	Previous Bill	Rmt		DI IVIII				499	
	This Bill	Rmt						0	
- 5	Supply & installation of internet Jack Unit RE-45 suitable for CATEA	Nos	20			VIII I			
4	Supply & installation of make Cat 6A UTP Patch Cords, with snagliss boots, color matched. Size 3 Feet	Nos	20						
5	Supply & Installation of make Cat 6A UTP Patch Cords, with snagless boots, color matched, Blue 7 Feet	Nos	10						
6.1	Supply & laying indoors multi-pair 0.5mm dia copper PVC insulated and sheathed, arricured telephone cables on walls ceiling, cable trays, trunking complete with clamps, cable markeri arc from MDF to the various tap blocks as specified.								
a	10 pair cable armound	Mtr	40						
b	5 pair cable	Mtr	RO						
6	3 pair cable	Mtr	RO					Marie Wall	
cl.	2 pair cable	Mtr	RO						
. 7	Supply & installation of telephone tag block with nRONE terminal connectors, G.I.J.B as specified & compelete with all interconnections and jumper connections bet-ween the								
	two tan blocks on all floors as shown on drivi								
	50 pair tel (ag ofcic	Nes	RC				إقارها المسار		
D C	20 pair tel tar block 10 pair tel tar block	Nos.	RO I						
		148/311	140						
	TOTAL FOR DATA AND TELEPHONE SYSTEM			A. I					
	GRAND TOTAL				- 6	7.10			L U

Divest Taribathi 24/04/24

0 0	MB SHEET P	HE -The Ir	sh House	e	90V 11 P	Correctio	п сору	THE WAY	
Item No.	Description	Unit	Boq Qty	No.	Length	Width	Height	Total	Remarks
Α	WATER SUPPLY PIPING		×						
1	CPVC Pipes conforming to ASTM D-2846. SDR-11 grade and CPVC solvent weld filtings like elbows, tees, couplars, brass threaded adaptors, insert ring etc. suitable for (domestic and flushing) cold applications rated, concealed piping within wall / floor including jointing with fittings using solvent cement, brass threaded end fittings for making connection to fixtures. The work shall also include chasing the walls with machine wherever required for concealed piping and making good the same after laying of pipes & necessary pressure testing Chasing finishing shall be done with 1:1 cement mixed mortar, restore the same original condition for internal and shaft piping, including necessary hot deep galvanised supports vertical / horizontal, as per direction of Site incharge direction. [The rate shall include supply of S.S. screws and nut bolts etc. chasing in walls done by machine] (For Domestic and Flushing water-Toilet internal) (Pipe shall be tested with 1.5 times working pressure as covered in specifications)								
1.1	20 mm Dia	R.mt	35						
	RO Water Line on expose wall	R mt	110	1	2.08			2.08	
	Bar area LHS wall	R mt	14	1	3 05			3,05	
	Tap point vertical	R.mt		1	0.27			0.27	
	Bar Front wall	R.mt		1	2 2			2.2	
	Hot Water Gyser line Bar front wall	R.mt		1	1.5			1.5	
, j	RHS wall	R.mt		1	2.3			2.3	
	Fresh Water line main aiportline to column	R.mt		1	1.3			1.3	
	Column Inside vertical	R.mt		1	2 85	NI A		2,85	
	Above fasade glass	R.ml		1	5.02			5.02	
	Vertical for near glass fasade	R.mt		1	2.85			2.85	
	Expose main Line	R mt		1	2.48			2,48	
	RHS wall vertical Line	R.mt		2	0.45			0.9	110
	RHS wall Horizontal Line	R.mt		1	1.44			1,44	
	Ra-2nd								
	Gyser line horizontal	R _. mt		1	3 65			3,65	
	RO outline horizontal	R mt		1	4		i I	4	
111	Ro waste hprizontal	R _, mt		1	3			3	
	Gyser line vertical	R.mt		1	3.5			3.5	
	RO outline vertical	R.mt		1	3,5			3.5	
	Ro waste vertical	R.mt		1	3 5			3,5	
	Total Qty.							49.39	
	Previous Qty.					1 5		49.39	A.C.
	This Bill							0	6.
1.2	25 mm Dia	D mt							
1.3	32mm Dia	R mt				11			
1.4	40mm Dia	R mt	-						
2	Providing & Fixing of gun metal heavy Ball Valves-PN-16 (approved makes as covered in specification) screwed type for water system of the following diameters. Valve shall have with unions.								
	20mm Dia	Nos							
	Main line connection RO and Gyser	Nos Nos		1 2				1 2	
1111	Total Qty.							3	
	Previous Qty. This Bill							3	
	ومعود وووودون والتوالي الباتات			T 1				0	
22	25mm Dia 32mm Dia	Nos.							

Divest Torbath

	MB SHEET PI	te-The Ir	D 1	е		Correctio	псору		
Item No.	Description	Unit	Boq Qty	No.	Length	Width	Height	Total	Remarks
3	Providing ,fixing, testing and commissioning capstan make Water Meter including providing & fixing matching Isolation valves ,strainer, non-return valve,complete with all necessary fittings etc screwed type(15Kgs/Sq cm). Valve shall have with union.						V		
3.1	20 mm Dia incoming line	Nos	1						
3.2	25 mm Dia incoming line	Nos	RO		, Y (1) Y (1)				
3.3	32 mm Dia incoming line	Nos	RO						
4	Supply, installation,testing & commissioning of Storage Type Electric Hot Water Generator of mentioned capacity, suitable for 3 KG/cm2 pressure. Wall Mounted / Floor standing type, with Auto Shut-off Thermostat, along with isollion Valves, Air Release valve, SS flexible connections and all other std accessories								П
4.1	5 L Capacity-	Nos	RO						-
4.2	20 L Capacity	Nos	1						
4.3	35 L Capacity- For shower	Nos	RO						
5	Supply, installation,testing & commissioning of Stiebel Type Electric Hot Water Generator of mentioned capacity, suitable for 3 KG/cm2 pressure, Wall Mounted / Floor standing type, with Auto Shut-off Thermostat, along with isoltion Valves, Air Release valve, SS flexible connections and all other std accessories (Optional in pantry)								
5.1	3.5kw in pantry- optional	Nos	RO	Hillym					
5 2	8kw	Nos	RO						
5.3	13kw-3ph- Subject to load permits	Nos	RO						
6	SITC of Eco smart RO-50 with all required accessories (Prior to order cpacaity and model to need to be confirmed by the kitchen consultant)	Nos	1						
7	SITC of ACO grease trap -model Lipumobil 0.8 -Capacity -48 lit (0.8 LPS) with all required accessories (Order shall be placed as per space available below the counter)	Nos							
8	SITC of ACO grease trap -model Lipumobil S -Capacity -32 lit (0.5 LPS) with all required accessories	Nos						H	
1	DRAINAGE uPVC-SWR pipes conforming to IS 13592/92 including fittings conforming to IS-14935/99 and agri type pipes above 100 mm dia conforming to IS: 4985, cutting the pipes to required lengths, laying in the position to required grade and level, jointing, supporting with PVC cleat hot deep galvanised bracket supports hot deep galvanised nut-bolts, anchor fastners, PVC coated U-clamp, testing and rectifying leakages for piping within vertical shafts / supported on wall / hung below slab etc. with all material & labor complete and as directed. [The Rate shall include supply and fixing of hotdip galvanised bracket nut bolts/PVC Coated U-Clamp and screws] Vertical line bracket shall be fixed at every 0.8 mtr to 1.00 mtr.] (For Soil, Waste, Vent and RWP-Internal and vertical shaft.)								
11	40mm Dia	R mt	2						
12	50mm Dia	R mt	6						
1.3	65mm Dia	Rmt	7						
1.4	Trap to small GT line	R.mt	7	1	0.7			0.7	
	The to diffidit of time	R.mt	-	1	0.55			0.55	
		Rml		1	0.83			0.83	
		Rmt		1	0.58			0.58	
	والمرافع والم والمرافع والمرافع والمرافع والمرافع والمرافع والمرافع والمراف	R ml		1	0.6			0.6	
		R ml		1	1.45			1.45	
	Trap to main GT line	R mt		1	2 05			2.05	
	600x300 to 600x600 main GT line	R mt		1	0.8			0.8	
	300x300 to 600x600 main GT line	R.ml		1	0.4			0.4	
	Total Qty. Previous Qty. This Bill							7.96 7.96 0	
1.5	100 mm Dia	R mt	2						
16	150 mm Dia	R mt	RO		-				
2	Supply, Install PVC Floor Trap for the following pipes including making all approved quality Solvent cement joints with material & labour etc all complete as per direction of the engineer-incharge.	Nos	2	14	1				

Divest Tubath

	MB SHEET PI	HE -The Ir	ish Hous	e	711000	Correctio	п сору		1 1 1 E F
Item No.	Description	Unit	Boq Qty	No.	Length	Width	Height	Total	Remarks
	Floor trap	Nos		6				6	
_	Total Qty.							6	
	Previous Qty.							6	
	This Bill							0	
			5						
3	Supply, Install PVC Multi Floor Trap for the following pipes including making all approved quality Solvent cement joints with material & labour etc. all complete as per direction of the engineer-in-charge.	Nos	4						
4	Supply, Install PVC urinal Traps including fixing with necessary consumables with Circular SS Grating with anti cockroach jall Suitable for 75mm Dia outlet	Nos							
5	Supply., Install PVC P- Traps including fixing with necessary consumables with Circular SS Grating with anti-cockroach jali Suitable for 75mm Dia outlet	Nos							
С	SANITARY AND C. P. FITTINGS & FIXTURES								-
	Only installation, testing and commissioning of sanitary and C.P. fittings		711						
1.1	EWC with seat cover	Nos	-						
1.2	Concealed flush tank	Nos	2						
1.3	Concealed flush valve	Nos	- 1						
1.4	Health Faucet	Nos	- 14						
1.5	2 Way Bib-Cock with connection for Health Faucet	Nos	P.O.						
1.6	Bided Under Counter Wash Basin including waste Coupling	Nos	R.O.						
1.8	Wash Basin Cock	Nos							
1.9	shower and mixer	Nos	-					-	
1 10	Jet Spray	Nos							
1.11	Bath Tub including waste Coupling and nessessary connections	Nos							
1.12	Under Counter Sink Including waste Coupling	Nos	1						
1.13	Sink Pillar Cock Sink Pillar cock	Nos Nos	1	2				2	
	SHIR FIRM COCK	1405							
	Total Qty. Previous Qty.							2	
-	This Bill	-						2	-
1.14	Bottle Trap for WHB/ sink and urinal with all connecting pipes Connection pipes	Nos Nos	1	2				2	
_									
-	Total Qty.		100					2	
	Previous Qty. This Bill							2	
	Triis biii							2	
1.15	Angle Cock with PVC pipe connection upto WHB/sink/Geyser connection	Nos	7						
	Bar area	Nos	1	7				7	
	For Ro and Gyser above ceiling	Nos	1	3				3	
		1100		j					
	Total Qty.					20		10	
	Previous Qty.							10	
	This Bill							0	
1 16	Urinal	Nos							
1 17	Auto Flush Valve & Sensor with connecting piping & spreader for urinal(DC)	Nos	1						
D.	C.C. COATING								
D	S.S. GRATING								
	Only installations/ testing and commissioning of S.S.Gratings								
1	Making chamber in brick work including internal tiling etc for S.S. Grating size. 1200mm x 200mm, in 16 swg 25mm x25mm Square Pipe around the Frame and 20mmX 20mm Square pipe in center of frame with SS perforated tray (304 SWR). Complete as per architectural detail drawing & Site Engineer's instruction.	Nos	¥						

Divesh Taibathi 24/04/24

	MB SHEET P	HE-The Ir	ish House	е	M Tyres	Correctio	п сору	1 37 10	
Item No.	Description	Unit	Boq Qty	No.	Length	Width	Height	Total	Remarks
2	Making chamber in brick work including internal tiling etc for S.S Grating size, 600mm x 300mm, *in 16 swg 25mm x25mm Square Pipe around the Frame and 20mmX 20mm Square pipe in center of frame with SS perforated tray (304 SWR). Complete as per architectural detail drawing & Site Engineer's instruction.	Nos	1						
	Floor greeting size 300x600	Nos		1				1	
	Total Qty.		. V				TATE OF THE PARTY	1	
	Previous Qty.				1			1	
	This Bill							0	
4	Making chamber in brick work including internal tiling etc for S.S. Grating size, 300mm x 300mm, in 16 swg 25mm x25mm Square Pipe around the Frame and 20mmX 20mm Square pipe in center of frame with SS perforated tray (304 SWR). Complete as per architectural detail drawing & Site Engineer's instruction.	Nos	3						
	Floor greeting size 300x300	Nos		2				2	
	Floor greeting size 500x500	Nos	20.0	1				1	
	Total Qty.			J.C. U				3	
	Previous Qty.							3	
_	This Bill							0	

Divest Tribathi 24/64/24

1 UNI 1.1 CEIL Suppl AHL Frantiner Panning rock kg/m skin Filtr type sect Coli Alur tube tube area Orai 304 elass Fan sect duri 1600 1m i as p Tota Und cont from box // ser AHU shall	Description JILLED WATER TYPE CEILING SUSPENDED AHU (AIR HANDLING WIT): JILING SUSPENDED AHU: JULING SUSPENDED	Unit	Boq Qty	No.	Length	Width	Height	Total	Remarks
1 UNI 1.1 CEIL Suppl AHL Franther Pannock kg/m skin Filtr type sect Coil Alur tube tube area Orai 304 elas Fan sect duri 1600 1m f as p Tota Und cont from box / ser AHU shall	ILING SUSPENDED AHU: pply and assembly of Ceiling Suspended Double skin cabinet type U Integrated (Air handling units) of following specifications: nme Structure: It shall consist of 48mm Extruded Aluminium with ermal break profile.		-4	2				0, 0, 100	
1 UNI 1.1 CEIL Suppl AHL Franther Pannock kg/m skin Filtr type sect Coil Alur tube tube area Orai 304 elas Fan sect duri 1600 1m f as p Tota Und cont from box / ser AHU shall	ILING SUSPENDED AHU: pply and assembly of Ceiling Suspended Double skin cabinet type U Integrated (Air handling units) of following specifications: nme Structure: It shall consist of 48mm Extruded Aluminium with ermal break profile.						1		
Suppliable Suppliable Frantiter Pantrock kg/n skin Filtr type sect Coll Alur tube tube area Orai 304 elas Fant Sect duri 1600 1m f as pp Tota Cont Man Und cont from box / ser AHU shall sott Cont folio a. Co	ILING SUSPENDED AHU: pply and assembly of Ceiling Suspended Double skin cabinet type (U Integrated (Air handling units) of following specifications: sime Structure: It shall consist of 48mm Extruded Aluminium with ermal break profile.								
Suppliable Suppliable Frantiter Pantrock kg/n skin Filtr type sect Coll Alur tube tube area Orai 304 elas Fant Sect duri 1600 1m f as pp Tota Cont Man Und cont from box / ser AHU shall sott Cont folio a. Co	pply and assembly of Ceiling Suspended Double skin cabinet type (U Integrated (Air handling units) of following specifications: sime Structure: It shall consist of 48mm Extruded Aluminium with grmal break profile.		9.						
AHL Frantler Pan- rock kg/r skin Filtr type sect Coll Alur tube area Orai 304 elas Fan sect duri 1600 1m f as p Tota Offil Man Und cont fron box / ser AHU shall intt	U Integrated (Air handling units) of following specifications: ime Structure: It shall consist of 48mm Extruded Aluminium with ermal break profile								
sher Pan- rock kg/n skin Filtr type sect Coil Alur tube area Orai 304 elass Fan Sect duri 1600 1m fi as p Tota Cont Man Und cont from box / ser AHU shall intt	ermal break profile.								
rock kg/r skin Filtr type sect Coil Alur tube area Orai 304 elas Fan sect duri 1600 1m f as p Tota Cont Man Und cont from box / ser AHU shall inst: Cont follo a. Co									
type sect Coll Alur tube area Orai 304 elas Fan sect duri 1600 Im f as p Tota Onn Man Und cont from box / ser AHU shall ort Conf follo a. Co	nel: 45mm +/- 2mm thick double skin sandwich panels with skwool insulation of density 64 kg/m3 or PUF insulation of 48 (m3 , The sheet thickness shall be minimum 0.6 mm for the outer n precoated and 0.8 mm thickness for the inner skin of plain Gl.								
Coil Alur tube area Orai 304 elas Fan sect duri 1600 In fi as p Tota Offil Man Und cont fron box / ser AHU shall out Cont folio a. Co	ration Section: It shall be provided with single stage washable be of prefilter 'MERV 8' first stage which shall be placed before coil								
Orai 304 elas Fan sect duri 1600 1m if as p Tota Offil Man Und cont from box / ser AHU shall out Cont folio a. Cc	tion. Il Section: Chilled water coil Multi row deep constructed with iminium fins of min 0.11mm thick 12 Fins per inch, and copper ues of min 27 Guage thickness HYRDOPHYLLIC coated fins. Copper ue shall be min 12 5mm diameter, AHRI coeffed coil. The coil face								
Fan sect duri 1600 1m f as p Tota OMM Man Und cont from box / ser AHU shall total follows follows as a Confollows follows as Confollows as Con	a velocity shall not exceed 2.5m/sec (500 fpm). iin Pan: Condensate drain pan shall be fabricated from 18G SS I powder coated, insulated with 13 mm thick closed cell								
Man Und cont from box / ser AHU shall out Cont folio a. Co	stomeric (nitrile rubber) insulation. 1 Section: SISW / DIDW Direct drive backward curved tan. The fan- tion shall be provided with limt switch for safety to shut off fan ring Opening of access door. Fan outlet velocity not to exceed DO FPM. The sound level shall not be exceed more than 60dB @ I from the source, Vibration isolators, Door Limit switch, UV Lamp per Technical Specifications, AHU Summary Sheet and drawings. Ital static pressue has to calculated by Contractor as per the								
Con- folio a, Co	nual switch and incomer power terminal, with SPP, Over/dervoltage protection, shortcircuit protection and with no-ne stacts (potential free contact) to be provided for tripping on signal m Fire Dampers / Fire Alarm Panel, Power cable from Terminal to motor & control cabling of required size upto the thermostations or etc. to be provided. Internal electrical and control wiring of U to be provided as factory fitted from AHU supplier. The cost all include all necessary supports & accessories required for								
a Co	tall stine ntractor shall design the chilled water coil according to the lowing conditions:		-						
	Coil air entering temperature - 75.4°F DB			It.		Y - V			
	Coil air leaving temperature - 54 deg. F DB/ 52 99 deg. F WB								
	hilled water temperature entering - 6.0 deg. C/ 42.8 deg. F								
	Chilled water temperature leaving - 13,3 deg. C/ 55,9 deg. F.								
Туре			_						
	(Cfm) TR (mm WG) Rows								
a CS A	AHU 2500 9.2 25 4/6								
GEN	NERAL NOTES								
	S & RHS VALVE station location to be confirmed.								
	outlet velocity - 1600 FPM								
C.	ntractor shall submit static pressure calculation for all above ts to Client/Consultant.								
	y change in motor HP shall be made at no extra cost to client.								
e. Fan	efficiency shall be minimum 75%								
f. mat	e cost shall be included liftting & shifting of each equipment / terial with all necesaary arrnagement. Also, it shall be included cost of scaffloding required for Installation of such material /					7			
	ILLED WATER PIPING WITH INSULATION: W PIPE								
SiTC to IS PUFI requ wasl Plast dire	C of MS Heavy duty class C ERW Chilled Water pipe conforming S 1239 - 2004 primer painted including bends, tees, MS supports, FF saddles, anchor fasteners, steel angles and any other material juired to complete the work. The piping flange connection bolts, shers and nuts should be hot dipped galvanised. Flourscent stic Sticker/ paint shall be applied to indicate Water flow ections. Only End flanges to be used for capping of pipes. Table ike: Jindal Hissar / TATA								
	55 mm	Rmt	110						
Φ 40									
40 n	10 mm	Rmt	30						

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		MBI	HVAC		er in enon	Corr	ection copy	100000000000000000000000000000000000000	20 11 11 11
Item No.	Description	Unit	Bog	No.	Length	Width	Height	Total	Remarks
STRUMBIC .	40 mm Inlet line AHU-2	Rmt	Qty	1	3 28	, , ,	in en	10,610	TISSNESS T
	40 mm outlet line AHU-2	Rmt		1	3 28			3,28 3.28	
									71
1	Total Qty	Rmt						13.12	
	Previous Qty	Rmt						0	
	This Bill	Rmt						13.12	
2.2	CHILLED WATER PIPING INSULATION - INTERNAL USE			()					
2.2	SITC of insulation for chilled water, piping	-	77						
	For internal pipe - Stick 25mm thick Nitrile rubber class "O" Closed		0						
	cell nitrile rubber with anti-microbial coating on it. Insulation shall				Name of the last				
	have Thermal conductivity of 0.033 W/(m.K) and water vapor								
	permeance of 0.10. Joints should be sealed with 50 mm wide 3 mm	11						- 1	
	thick self adhesive tane and outtine PVC hands at all supports								11.0745.07
	Make: Armaflex & K-flex	Rmt	110					and we have	
а	Φ 65 mm Φ 40 mm	Rmt	30		20 (197) 1-1-1				
	40 mm inlet line AHU-1	Rmt	50	1	3.28			3.28	
	40 mm outlet line AHU-1	Rmt		1	3.28			3.28	
	40 mm Inlet line AHU 2	Rmt		1	3.28			3.28	
	40 mm outlet line AHU-2	Rmt		1	3.28			3.28	
_	Total City	Rmt						13.12	
	Previous Qty	Rmt						12.12	
	This Bill	Kint						13.12	
2.3	BALL VALVE			7			E TOTAL		
	SITC or following sizes of Ball Valve consist of Cap, Brass Body, Rated			100					
	for 150 psi SWP. 600 psi WOG Pressure: Two-piece construction;	(11)	W. W.		1111			7.4	
	with brass hody, regular port, 8-16 chrome-plated ball and stem,		0.00						
	replaceable "Teflon" or "TFE" seats and seals, blowout-proof								
	stem, vinyl covered steel handle, threaded or soldered ends and								
	extended stem for insulated piping. Same valve shall be used as a	1. A	(1)				11 3 (1)		
	Make: Zoloto / Audco / Kltz								
a	Ф 40 mm	Nos.	8		ونتحر وعروا				
	Ball Valve			8		L.,		8	
	Total Qty	Nos.		o lone o				8	
	Previous Qty .	Nos.						0	
	This Bill	Nos.						8	
2.4	BALL VALVE WITH Y-STRAINER	-		1					
2.4	SITC of following sizes of Brass Ball Valve with Y-Strainer consist of						-		
	Cap, Brass Body, Rated for 150 psi SWP, 600 psi WOG Pressure: Two-								
	piece construction; with brass body, regular port, B-16 chrome-								17-3465
	plated ball and stem, replaceable "Tellon" or "TFE" seats and		111						
	seals, blowout-proof stem, vinyl covered steel handle, threaded or			1			100	-11-y = 12	
	soldered ends and extended stem for insulated piping. Filter								
	element shall be of non-magnetic SS sheet with perforation Make: Zoloto / Audco / Kitz								
а	Ф 40 mm	Nos.	2						
	Ball Valve Y-Strainer			2				2	
	Total Qty	Nos.						2	
	Previous Qty	Nos.						0	
	This Bill	Nos.						2	
2.5	PIBCV VALVES	-							
2.5	SITC OF Pressure morpendent: Balancing, com control valves (PIBCV)							-	
	including integrated motorised control valve and balancing device			Y Y					
	for combined flow and water balancing requirement. Valve body to			1, 110				-	
	be rated for PN 16. The valve design flow rate should be factory								
	calibrated with +/- 5% flow accuracy. Valve shall have necessary								
	measuring ports, drain port, flanges etc., Valve shall also provide			1 1					
	temperature sensor with necessary cabling (min 2mtr length to be			120					
	considered with each valve). The balancing to he done through								
	microprocessor based hand held terminal / POT and the same								
	results shall be furnished in the water balancing report as part of		10						
	Make: Oventrop / Siemens / Danfoss								
A	Ф.40 mm	Nos.	2						
	PIBCV VALVES			2				2	
	Total Qty	Nos.						2	
	Previous Qty	Nos.						0	
	This Bill	Nos.		-				2	
2.6	Auto Air Vent Valves		27.0						
	Make: Anergy / Flamco	-							
	Providing and fitting Auto Vent Valves	_							
	the standard water valves.								
а	SITC of Auto air vent in each risers & common headers & AHU. 3/4" auto vent valvés at each coil / riser/ header.	Nos.	4						

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		MB	Boq	100			rrection copy	100	
em No.	Description	Unit	Qty	No.	Length	Width:	Height	Total	Remark
12.1	Air Vent			4				4	
	Total Qty	Nos.						4	
	Previous Qty	Nos.	100					0	
	This Bill	Nos.						4	
2.7	575 (0. 0.7)								
2.7	SITC of Pressure gauges & Thermometers Make: H Guru / Waree								
	Necessary pressure gauges and thermometers 4" Dial type						1		
	Water Pressure gauges 150mm dial complete with gauge valves,								
а	mounting, fittings and copper tubing extension wherever	Nos	4						
	required. Pressure gauges Range 0-10 Kg/CM2		10 - 1		22				
	Pressure Gauge			4		WILLIAM		4	
	Total Qty	Nos.				-		4	
_	Previous Qty This Bill	Nos.	-					0	
-	This Bill	Nos					_	-	
	Thermometers of the mercury in glass stem type and copper				7,100				
	separable well complete with guard etc., of industrial grade			11.17					
b	mounting on water lines, Length 9/12 inches, Thermometer, Range	Nos	4	in					
	0-50 deg C	1							
	Thermometers		1 11	4				4	
	Total Qty	Nos.						4	
	Previous Qty	Nos.						0	
	This Bill	Nos.						4	
С	Thermowells	Nos.	8				-		-
	Thermowells	1403,	0	8				8	-
	Total Qtv	Nos.	TEAU!					8	
100	Previous Qty	Nos.						0	
	This Bill	Nos.						8	
				TO TO					
d	SITC of Brass Test Plug of industrial grade mounting on water	Nos.	RO						
2.8	INSULATED CONDENSATE DRAIN PIPE								
2.0	SITC of UPVC pipes of following sizes for drain with necessary								
	supports and fittings such as elbows, tees & reducers etc. The			11			TO A TRAIN		
	insulation line to be insulated with nitrile rubber insulation of								
	thickness 9mm and wrapped by weather proof protection tape. The			J. 17					
	Pipe wherever concealed should also have a parallel line as a								
	standby arrangement in case of block of primary pine.			111					
	Make: Supreme, Prince, Astral	JU 7/110	77						
9	Φ 25 mm	Rmt	10						
	AHU-1			1		61		6.61	
	AHU-2			1	7.	90		7.9	
	Total Oty	Rmt						14.51	
	Restricted Qty.	Rmt		_		-		10	
_	Previous Qty This Bill	Rmt						14.51	
	Tital Dill	- rane						44,54	
ь	Φ 32 mm	Rmt	20						
	NOTES FOR PIPING:								
а	Cover all open pipe ends with muslin cloth during construction								
b	Pipe cleaning & chemical treatment as per specs shall be included								
	in the piping cost. Unit rates for all indicated sizes of pipes & valves shall be		_						
C	furnished.		1.77						
	Cleaning/Painting of pipe before Insulation shall be included in								
d	piping cost.					1			
	The piping support should be as per tender specification and								
е	additional supports are to be provided Contractor as decided by					7			
	Consultant.								
	All the valves shall be insulated with the same material as that of								
1	Chilled water pipng and cost of insulation for valves shall be								
	considered.								
	SUB-TOTAL								
3	SHEET METAL WORKS:								
3.1	FACTORY FARRICATED & DECTANGULAR DUCT								- /
3.1	FACTORY FABRICATED G.I RECTANGULAR DUCT			-					
	Supply, Fabrication, Testing, and Commissioning of Factory								
	Fabricated GI Sheet Metal 120GSM Rectangular boxed ducting,	1111							
	Plenums, Cowls, Elbows with turning vanes, Splitters, Reducers,								
	Flanges, Collars etc as per IS and Installaton as per SMACNA		Lym_						
	standards, The complete ducting shall be provided with MS		Wing.						
	Supports, Rods, Angles, Flanges, Bracing, Rubber Gaskets, Wooden								
	frames, Canvas Connections, etc. as pel drawings and specifications.								
	GI Sheet Makes: Tata, Jindal, SAIL, Ispat	. 1	-	HILDER					
	A.V.								

1 11 1		MBH		200		Corre	ection copy	KIND OF BUILDING	The state of the s
Item No.	Description	Unit	Boq	No.	Length	Width	Height	Total	Remarks
	Make: Rola Star, Zeco & Ductofab				100			HIIIII XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
a	22 Gauge GI Sheet Metal Duct (751-1500mm)	Sa mtr	RO	7					
b	24 Gauge GI Sheet Metal Duct (0-750mm)	Sq mtr	10						
c d	FACTORY FARRICATED C. I. FLAT OVAL DUCT								
0	FACTORY FABRICATED G.I FLAT OVAL DUCT Supply, Fabrication, Testing, and Commissioning or Factory	-	-						
	Fabricated GI Sheet Metal 120GSM Exposed Flat Oval ducting,		X 3	a i					
	Elbows with turning vanes, Splitters, Reducers, Collars etc as per IS	1.2	77 11	100			/ 1		
	and Installaton as per SMACNA standards, The complete ducting		5 (10)			W 111			
	shall be provided with MS Supports, Rods, Angles, Flanges, Bracing,								
	Rubber Gaskets, Wooden frames, Canvas Connections, etc. as per drawings and specifications. All exposed ducts has to be powder		F 3		44				
	coated by HVAC contractor, sample and color code to be presented		1 ×						
	for the validation of Client / Architect				·				
3.2	GI Sheet Makes: Tata, Jindal, SAIL, Ispat								
	Make: Rola Star, Zeco & Ductofab								
-	22 Gauge GI Sheet Metal Duct (751-1500mm) 24 Gauge GI Sheet Metal Duct (0-750mm)	Sq.mtr Sq.mtr	RO 115				المناسبة الأراب		
	850x300 mm duct	sqm	113	1	14.2	2.3		32.66	
	850x300 mm duct Glass screen side	sam		1	13.6	2.3		31.28	
	550x200 mm duct	sam		2	6	1,5		18.00	
	550x200 mm counter area	som		1	2.56	1.5		3 84	
	Bar counter area	sqm		1	1.8	1,5		2.70	
	Total Qty in sqm	-						88.48	
	Previous Oty							85.78	
	This Bill Qty	u dini		U LUV				2.70	
		<u> </u>		DESTERNING			1		
3.3	EXTRUDED ALUMINIUM CEILING GRILLES Supply, Installation, Testing and Balancing of Powder coated								
	aluminium supply air grilles complete with removable inner core as	mm ,			(1111111	7,1			
	per approved shop drawing and specifications. The area of grille can								
	be of any geometrical shape (Square/rectangular/Linear). The grilles								
	shall be with 15/30/45° deflections as per requirement. The Colour				100 11 11 1		n I no		
	shall be decided and approved by client and architect		LIDE N						
	Curve Grille Make: Cosmos, Alr Master & System Air	Sq.mtr	1.5						
	Grill	sam		15	0.4	0.1		0.6	
	Side Throw Curved Grill	Sam		12	0.4	0.1		0.48	
	Total Qty							1.08	
	Previous Qty							1.08	
	This Bill Qty							0	
3.4	SPIGOT DAMPER FOR ELLIPTICAL DUCT								
3				U					
	Supply, installation and testing of galvanized steel construction dampers for circular ducts (VCD) within ducts provided with								
	suitable lever and quadrants for manual control of volume of air	Sq.mtr	0.5						
101	flow and for proper balancing of the air distribution system.								
	Make: Cosmos, Air Master & System Air								
	SPIGOT Damper	Sam		1	1			1	
	Total Qty Postricted etv	Sam						1	
	Restricted qty Previous Qty	Sam						0.5	
	This Bill Qty	Sam Sam						1	
		- 3,411						- 1	
3.5	OPPOSED BLADE DAMPER								
	SITC of Aluminium Opposed blade dampers black powder coated								
41	vertical blades type for supply air collar. The damper should be gear operated type.	Sq.mtr	1.5						
	Grill damper	sam		15	0.4	0.1		0.6	
	Side Throw Curved Grill Damper	Sam		12	0.4	0.1		0.48	
	Total Qty	Sam						1.08	
	Previous Qty	Sam						1.08	
	This Bill Qty	Sam						0	
3.6	CANVAS CONNECTION								
	SITC of Flexible connections between mouth piece of Fan and initial								
3	piece of ducting with inspection zip. Flexible connections shall be double thickness non-flammable material (Fire retardant type).								
	For AHU	Nos	2						
JUL .	Canvas connection	Nos		2				2	
	Total Qty	Nos						2	
	Previous Qty	Nos						2	
	This Bill Qty	Nos.						0	15.

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tem No.	Description	Unit	Boq	No.	Length	Width	Height	Total	Remarks
111111111111111111111111111111111111111	SITC of fire dampers consist of 166 GI frame, 20G GI interlocking								100,000
	blades secured with SS springs, blades outside airstream clamped with fusible link UL-555 listed with melting point 165 / 225°F, etc; as								
	per the approved shop drawings and specifications.								
	Make: Carryaire / System Air / Dynacraft / Air Master								
а	Bare fire dampers	Sq.mtr	0.5						
b	Fusible link as per specification UL 555	No	1			14			
	NOTES:					100			
	The ducting support should be as per tender specification and additional supports are to be provided by Contractor as decided by								
	Consultant.								
	Muslin cloth cover for all air outlets during construction.					Jan Hayara			
	Pressure testing of complete duct work as per DW/ SMACNA standard.								
	Silicon sealant for longitudinal & transverse joints as per								***
	specification.								
	Diffusers & grilles shall be powder coated as per color approved by Architect						1111		
	EUR TOTAL								
	SUB-TOTAL SUB-TOTAL		8.4						
4	THERMAL & ACOUSTIC INSULATION:								
4.1	THERMAL INSULATION								
-	Supply & fixing of Thermal insulation for supply air duct using 13mm								
	thick class " O " Closed cell nitrile rubber with anti-microbial coating	10							
	on it. Insulation shall have Thermal conductivity of 0.033 W/(m.K)	Sq.mtr	100						
	and water vapor permeance of 0.10. Joints should be sealed with 50	54,1110	100					. 19	
	mm wide 3 mm thick self adhesive tape. The duct shall be stick with								
	recommended adhesive. Make: Armaflex & K-flex			-					
	850x300 mm duct	sgin		1	14.2	2.3		32.66	
	850x300 mm duct Glass screen side	Sqin		1	13.6	2.3		31.28	
	550x200 mm duct	sam		2	6	1.5		18.00	
	550x200 mm counter area	sqm		1	2 56	1.5		3.84	
	Total Qty in sqm	Sgm	_					85.78	
	Previous Qty	5qm						85.78	
	This Bill Qty	sam						0.00	
4.3	ACQUISTIC INCLUSION								
4.2	ACOUSTIC INSULATION								
	Supply & fixing acoustic insulation for ducting using Class "1" closed								
1111	cell elastomeric insulation of 10mm thick Nitrile rubber insulation		- 17		1000				
	adhesive, longitudinal & transverse joints sealed with adhesive in	Sq.mtr	25					31	
	neat & clean manner. Material shall be processed Nitrile Rubber foam with anti-microbial protection. Insulation shall have thermal	200							
	conductivity of 0.047 W/(m.K) and density of 140 - 180 kg/m ³								
	Make: Armaflex & K-flex								
	AHU and Duct Mouth connection	sam		2	0.3	2.3		1.38	
		, Jq						1.54	
	Total Qty in sqm	sam						1.38	
	Previous Qty	sqm						1.38	
	This Bill Qty	Sqm					0 10	0,00	
	Note:								
	Insulation work to be coordinated with other agencies and repair								
a	to be included by contractor as per site requirement.					N			
	Vendors to take care of the installation, if any damages takes place								
b	the vendor to repair or replace and hand over to clients in good and acceptable condition.								
C.	Thermal insulation shall be internal for Elliptical / Expossed ducting.							V I	
- 44	SUB-TOTAL SUB-TOTAL								
5	ELECTRICAL WORKS:								
5.1	STARTER PANEL			-					

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tem No.	Description	Unit	Boq	No.	Length	Width	Height	Total	Remarks
	STE OF IMBOOF / Outdoor, Wall informing type 3PH, 415VAC MOTOR STARTERS IN CRCA SHEET STEEL ENCLOSURE with necssary supporting brackets and required accessories, etc., The Enclosure								
	shall be provided with knockouts suitable for cable termination at TOP & BOTTOM for incoming and outgoing power cables of A2XFY type and size specified. The starters shall be complete with suitable MPCB/MCCB, Contactor, Bi-metal O/L relay with SPP, ON/OFF Push								
	buttons, on / off / trip indication Lamp, on off push button, & phase indication Lamp. Selection of relay, contractor, MPCB/MCCB etc. as per Type-2 Coordination. Panel shall have provision to connect with								
а	Suitable for 2500 CFM AHU, DOL Starter Panel AHU Stater	Nos.	2	2				2.00	
	Total Qty in nos	Nos.						2.00	
	Previous Qty This Bill Qty	Nos.						0.00 2.00	
	This bill Qty	1403.						2,00	
6.2	POWER CABLING								
	Supply, handling, laying effecting proper connections testing and commissioning of following sizes of 1.1 KV grade XLPE insulated FRLS Aluminium /Copper conductor cables laid over MS supports cable	-							
	racks or fixing on walls including clamping the cable to supports in an approved manner as required complete with Copper earthing as specified for continuous earthing along with cable. All complete as required and as per final instruction as given by Owners/					-			
	Consultants and as per Technical specifications. Earthing shall be measured separately and shall be connected in two runs. Power to ELCB to be provided near each ODU by electrical contractor.								
a	Suitable Power Cable: Suitable for 2500 CFM AHU, DOL Starter Panel	Rmt	10						
	AHU Stater	rmt	10	2	20.5			41	
0	Total Qty in nos	Nos.						41.00	
-	Previous Qty This Bill Qty	Nos.	1007					41.00 0.00	
		1103						0.00	
b	Earthing: 8 SWG	Rmt	20		A				
	8390	KIIK	20						
6.3	BTU MÉTER								
	Supply, fixing and testing of inline Btu meter for the flow rate & temperature measurement consisting mainly of following 3 parts a) Ultrasonic Flow Meter								
	b) Matched pair of temp sensor								
	c) Flowcell Sensor c) BTU Meter - 4 · 20mA DC from flowmeter								
	Insertion type Howmeter shall be suitable for chilled water application for temp. Ranging from 0 to 50 deg C. Power supply shall be 240V AC (+/-) 15 %. Display shall have 16 characters LCD display with Back light, flow rate, Velocity, totaliser etc. Output shall be BMS				7	Y .			
	Modbus compatible & shall have keypad lockout security option. It also should be able to show various units such as gallons, ft^3, lbs, liters, m^3 ke etc.								
a	Make: Honeywell / Danfoss / Siemens Dia 65 mm	No	1						
6.4	CABLE TERMINATION: Supply & Making of Cable termination of armoured / unarmoured								
	cables 1.1 KV grade including installation of cable glands, cable lugs (Aluminium for A2XFY & copper for 2XFY & YY Double compression type), heat shrinkable sleeves on long ends, crimping			H Y					
	paste etc. The work includes testing & commissioning of cables, meggaring values & submitting reports of tests. (One set includes termination of all cores of one end only). All crimping tools & dies								
a	shall be arranged by contractor Suitable for 2500 CFM AHU	Nos	4						
	CABLE TERMINATION :	twf		4				4	
	Total Qty in nos	Nos.						4.00	
	Previous Qty This Bill Qty	Nos.						4.00	
		. 1931						4 00	
6.5	CABLE TRAYS Supplying & Fixing of following sizes of GI cable tray duly painted								
	perforated type of height 50mm along with necessary bends, reducers etc. anchored along the wall / suspended from the ceiling with necessary MS supports.								
а	S0mm wide	Rmt	10						

Divest Tuibathi 24/04/24

2	MB Sheet Fire Alarm System +T	he Irish I	House		(Correction c	ору		
SR.NO	DESCRIPTION	UNIT	Boq Qty.	No.	Length	Width	Height	Total	Remarks
Α	ADDRESSABLE FIRE ALARM SYSTEM - NOTIFIER MAKE				min'				
2	operation and 15 minutes alarm operation. The control panel, battery charger etc. The panel shall be with 1 loop and expandable upto 2 loop capacity. The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel that shall include a backlit 640-character liquid crystal display, individual, color coded system status (EDs), and a QWERTY style alphanumeric keypaid for the field programming and control of the fire alarm system. Number of Loops / Fire alarm panels should be worked out based on loop capacity. It shall be selected keeping affect 20 accresses as soare capacity in each loop, the control panel shall be capable of network expandable upto multiple panels. The panel & all devises should be FM approved and comply Ut, 864 or equivalent. The enclosure shall also be Ut, listed or equivalent. The quoted rate shall include aupply of necessary software and harware for programming the panel, with all necessary licence. Should have the Facility to get integrated with the MAIN FAS Planel of the Building, Electrical main LT panel, (FRO) Connecting to BMS on Bachet or TCP/IP	Nos	RO						
) Each loop with Min, 125 Devices & Detectors, modules connection capability of		ilv						
	Addressable FACP) 2 Loop Panel. ii) FACP with all in-built modules & displays.								
	 ii) 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working. 						1111		
	iv) Programming & setting up								
	v) system to be capable of operating the system for 2 hours during an amergancy condition including all necessary software for remote programming of fire alarm								
	system through central control station.								
2	Passive Repeater Panel with 80-character (2x40) display with supervised power supply from FACP, Repeater Panel shall migrator and control (Scroll, Acknowledge, Reset & Mute) all the events of the FACP to which it is connected and it shall have Port Vectoring / Event Filtering capability of showing only ALARMS, TROUBLES or	Nos	RO.						1/10
2.1	SUPERVISORY or customized combinations of user selected events. Supply installation and testing of signal loso components in a suitable galvanised steel junction box.	Nos.	-1/						
3	Detectors and Devices								
3.1	Supply Installation, Testing & Commissioning of Analogue Addressable Monitor module having Rotary decimal addressing system for monitoring the field devices & shall be capable of providing DEDT contact rated at 24V DC 2A. Monitor modulate.	Nos	2	19					
	Total Qty	Nos		- 6-				2	
	Previous Bill This Bill	Nos						0	-
	THIS DIII	Nos						2	-
3.2	Supply installation Testing & Commissioning of Analogue Addressable Relay module naving Rotary, decimal addressing system and shall be capable of providing DEDTcontest rated at 24v DC 2A.	Nos	2						
	Relay Moudule. Total Qty	Nos	_	12				2	
	Previous Bill	Nos						0	
	This Bill	Nos						2	
3.3	Supply, installation, Testing & Commissioning of wall / ceiling mounted Horn curn Strobe rated at 82 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication and necessary accessories including back box.	Nos	2						
	Total Qty	Nos		ζ.				2	
	Previous Bill	Nos						0	
	This Bill	Nos						2	
7.0	Supply installation, lesting & Commissioning of above / below ceiling mounted Analogue Addressable Plash scan Type Photoelectric smoke detectors having Rotary, decimal addressing system with standard base, built in isolation function and junction Dox. The detector shall be capable to address in the range of 1-159. The detector shall be with Visible bi-color LEDs for 360 deg viewing and shall blink green every time the detector is addressed, and illuminate steady red on alarm.	Nos	6						
	Smake Detector			6				6	
	Total Qty	Nos						6	

Divest Toribathi 24/04/24

	MB Sheet Fire Alarm System -Tr	ne Irish I	House		С	orrection co	opy		
SR.NO	DESCRIPTION	UNIT	Boq City.	No.	Length	Width	Height	Total	Remarks
	Previous Bill	Nos						0	
	This Bill	Nos						6	
								NI III	
	Supply Installation Testing & Commissioning of above / below ceiting mounted								
	Analogue Addressable Heat / Thermal detectors having Rotary decimal addressing								
3,6	system with standard base, built in isolation function and junction box. The detector shall be capable to address in the range of 1-159. The detector shall be with Maible to-	Nes	12						
	color LEDs for 360 deg viewing and shall blink green every time the detector is								
	numersed, and the minate steady sed on alarm								
	Heat Detector			. 1				1	
	Total Oty	Nos						1	
	Previous Bill	Nos						0	
	This Bill	Nos						1	
	Constitute Patron Testing 5 Computational of Addressable Read Class Variation		23.11						
3.7	Supply, installation, Testing, & Commissioning of Addressable Break Glass Manual Call Point having Rotary, decimal addressing system and having an integrally mounted	Nos	2					14.5	14
3./	addressabla module that monitors and renorts contact. It also	IVCI	-						1000
	Call point			2				9	
	Total Oty	Nos						2	75000000
	Previous Bill	Nos*						0	
	This Bill	Nos						2	
								- JFXIII	
4	Res; onse indicator	Nos	RO						_
	NOTE: FIRE PANEL SHALL BE PROVIDED WITH FACILITY TO INTEGRATE WITH AIRPORT								
	FANEL								
S	CABLES								
	CAUCES								
	Supplying, laying, testing and commissioning of 1100V grade FIRE RESISTANCE LOW						107.1		
	SMOKE multicore, round type, insulated, sheathed, flexible copper conductor control								
	cables with including mecassary and terminations with copper lugs, junction box,								
	crimping identification task at each end str. 1881) COLOUR ONLY (MAKE IRR CARLE)								-
-0	2 core x 1.5 Sq.mm simcured cable(Un-screened, LSZH armoured)	Mir	-220	i e					
	reiling Looping Cable	mtr		55				55	The same
	Total Qty	Mtr				1000		55	
	Previous Bill	Mtr						0	
	This Bill	Mtr						55	
6	REWORKS	-11							
	Shifting , relocation and reworking including extending of cable & testing and								
_	commissioning of the following devices		-						
. 3	Photoelectric Smoke Detectors (BFC) at actuals	Nos.	R,O.						
b	kesponse Indicator of AFC detectors at actuals	Nos	8.0.						

Divest Tribathi 24/04/24

	MB Sheet Fire Fighting -The	rish Ho				Corr	ection cop	у	
Item No.	Description	unit	Boq qty	No.	Length	Width	Height	Total	Remark
T =	Providing, laying, jointing, testing and commissioning of G.I. C Class pipes (IS:1239 (Part-								
	I)-1979) including cutting, threading welding etc providing all malleable galvanized iron			100					
	fittings conforming to IS 1879, viz. Flanges, bends, tees, elbows, reducers, unions,	10							
1	supporting with G. I. clamps, hangers, M.S. brackets etc. including cutting holes and chase	5			1 11 17				
	in brick or RCC wall / slabs and making good the same to the Approval of Architect /							11 11	1
	consultant, complete including painting with one coat of primer and two or more coats of		3	1					
	synthetic enamel paint of approved make and shade. (Note- Rigid pipe extension from				1 11				
i)	25 mm dia.	RMT	18						-
	Branch -1 above Bar counter	RMT	10	1	4.00			4.00	-
	Sprinklar branch bar area	RMT	11	2	0.90			1 79	
	Branch -2 above rafters	RMT		1	1.11			1.11	
	Sprinklar brances	RMT		1	2.69			2.69	
-	Sprinklar brances	RMT		1	1.10			1.10	
		RMT	-	1	1 30 0.90			1.30 0.90	
	Above hut both side line	RMT		2	4 14			8 27	
	3 rd branc above C- bench sofa	RMT		1	6 00			6 00	
		RMT	TO THE REAL PROPERTY.	1	3 00			3.00	
_		II.							
	Total Qty in Rmt.	-						30.15	
	Previous bill qty. This bill qty.					30.145		30.15	
	This smally.							0.00	
10)	32 mm dia	RMT	0						
111)	40 mm dia.	RMT	3						
	Branch -1 above Bar counter	RMT		1	2 02			2.02	
	Branch -2 above rafters	RMT		1 .	0.79			0.79	
	Above but both side line	RMT		1 2	0.82 1.32			0.82 2.64	
		RMT		2	2.08			4.16	_
	3 rd branc above C- bench sofa	RMT		1	2.06			2.06	
		RMT		1	0.83			0.83	
_	THE PARTY OF THE P		MUTHER.						
	Total Qty in Rmt. Previous bill qty.							13.31	
	This bill qty.							13.31 0.00	
								0.00	
	50 mm dia.	RMT	10						
	Branch - 2 above rafters	RMT		1	5 23			5.23	
-	3 rd branc above C- bench sofa	RMT		1	4 82			4.82	
	Total Qty in Rmt.							45.55	
	Previous bill qty.							10.05 10.05	
	This bill gty.							0.00	
-									
	65 mm dia.	RMT	_5						
	Airport chilled line to main Header Down	RMT		1	5 50			5.50	
	Main Header run	RMT		1 1	0 60 5 25			0.60	
		MINIT			3.23	-		5.25	
	Total Qty in Rmt.							11.35	
	Previous bill qty.							11.35	
	This bill gty.							0.00	. 7
VI)	80 mm dia.	DAAT							
	100 mm dia.	RMT	0				-		
		IMMI	U				-		
2	Providing, fixing testing and commissioning of pendant type sprinkler heads 68 deg.		_						
	Temp.(Quick response type)	No.	0						
	Providing fixing tecting and commissioning of converted to the control of the con				/				
3	Providing , fixing testing and commissioning of concealed type sprinkler heads 68 deg. Temp.(Extended coverage /Quick response type)	No.	0						
		-							
4	Providing , fixing testing and commissioning of upright type sprinkler heads 68 deg								
	temp(Quick response type)- Optional Subject to liasion team requirements	No.	0						
	والمراجع والمراجع المراجع المراجع المراجع والمراجع والمراجع المراجع المراجع المراجع والمراجع والمراجع								
5	Providing , fixing testing and commissioning of upright type sprinkler heads 79 deg. Temp	No.	12						
	Quick response type) Sprinkler		1.2						
		No.		26				26.00	
3	Total Qty in Rmt.								
		no						26.00	

Divest bibath

	MB Sheet Fire Fighting -The Ir									
Item No.	Description	unit	Boq	No.	Length	Width	Height	Total	Remark	
6	Providing & fixing testing and commissioning of braided UL Rated SS Flexible pipe									
- i)	1 MT Long	No.	0		i					
ii)	1.6 MT Long	No.	12							
7	Gun metal chrome finished Ball valves (PN 16) with fittings of screwedend type.								-	
1)	40 mm dia	No.	R.O.						-	
1)		Nos	1							
- 11	32 mm dia, (Sprinkler drain-OPTIONAL)	1403							-	
8	Butterfly Valves (PN 16) with CI Body, Black Nitrile Body Liner and Nylon Coated SG Iron Disc with material and labour including hydraulic testing etc. complete as per drawing,									
1)	specification & to the level of satisfaction of Site-Incharge	No.	R.O.							
1)	150 nm dia	No.	R O					_	-	
	100 mm dia.	No.	2				-			
!)	65 mm dia. (OPTIONAL)			1	2.00			2.00	-	
	Main Header connection 2 nos	Nos.			2.00			2 00	And Ann	
	Total Qty in Rmt.		1000					2.00		
10.00	Previous bill qty.	1111		1				2.00	1	
	This bill qty.							0.00		
Ċ	6kg capacity ABC type dry chemical powder fire Extinguishers with wall mounting brackets	Nos	4						A A-	
	AbC Type fire extingusher	No.		4				4.00		
			DILLOCAL CO.							
	Total Qty in Rmt.	no						4.00		
	Previous bill qty.	no								
	This bill qty.	110		1				4.00		
10	6kg capacity K type fire Extinguishers with wall mounting brackets	No.	0			1000			-	
11	5kg capacity CO2 type fire Extinguishers with wall mounting brackets	No.	2						-	
11				2				2.00	-	
	co2 Type fire extingusher	No.		2				2.00		
	Total Qty in Rmt.	no						2.00		
	Previous bill qty.	no								
	This bill qty.	no					Some or tra	2.00		
- 1										
12	9Lit AR-AFFF type fire Extinguishers with wall mounting brackets	Nos	R _i O _i							
13	Flow switch on sprinkler distribution header on each floor with 2 SPDT contacts suitably rated, capable of the high pressure system and connected to fire alarm panel through cable.									
i)	100 mm dia	No	0	37-0-				-121 to 17 2		
		7.0								
14	Ceaseline 5 Kg Ceiling Mounted Fire Extinguisher Clean Agent FE-36, Zero ODP, Stored Pressure Type, Pressure Gauge, Gross Weight 7.7 Kg, empty Weight 2.7 kg, Can Height 264MM, Diameter 240MM, Discharge Time less than 8 Sec, Auto discharge mechanism on temperature rise, applicable on Class A,B,C and electrically started Fire, Can Construction: Deep drawn & Co2 Mig welded, Valve Construction: Forging & Machining, Internal Coating of Can: Epoxy Powder coating, External Coating of Can: Epoxy Powder coating, Sheet inetal thickness: 2.0MM, Helium Leak Detection Test, 5 Years Warranty-model no 1CH21CF	No	0							
	coating, Sheet metal thickness - 2.0MM, Helium Leak Detection Test, 5 Years Warranty-									

Divest Tankathi 24/64/24

	MB Sheet Fire Fighting -The Irish House			se Correction copy							
Item No.	Description	unit	Boq	No.	Length	Width	Height	Total	Remarks		
	• Previous bill qty.	no						26.00			
	This bill qty.	no						0.00			

Divery Jan 1511