

ELECTRICAL SYSTEM

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	MAIN FEEDER FROM EXISTING ATS-A TO NEW DB-A			27,980
	- WIREWAY 50 x 100 mm. EPOXY PAINT (KJL)	20	M.	-
	- CABLE THW 35 SQ.mm. (BCC)	80	M.	-
	- CABLE THW 10 SQ.mm. (BCC)	20	M.	-
	- SUPPORT & HANGER (LOCAL)	1	LOT	-
	- ACCESSORIES & FITTING (LOCAL)	1	LOT	-
2	MAIN FEEDER FROM EXISTING ATS-B TO NEW DB-B			27,980
	- WIREWAY 50 x 100 mm. EPOXY PAINT (KJL)	20	M.	-
	- CABLE THW 35 SQ.mm. (BCC)	80	M.	-
	- CABLE THW 10 SQ.mm. (BCC)	20	M.	-
	- SUPPORT & HANGER (LOCAL)	1	LOT	-
	- ACCESSORIES & FITTING (LOCAL)	1	LOT	-
3	DB-A, DB-B, P&O-A, P&O-B			35,400
	- LOAD CENTER 3 P MAIN 80 A 18 CKT. (Eaton)	2	SET	-
	- MINIATURE BREAKER 1 P 10 - 32 A (Eaton)	36	SET	-
	- ACCESSORIES (LOCAL)	2	EA.	-
4	MAIN FEEDER FROM DB-A TO INROW, UPS, P&O			17,770
	- WIREWAY 100 x 100 mm. EPOXY POWDER PAINT (KJL)	12	M.	-
	- CABLE THW 16 SQ.mm. (BCC)	48	M.	-
	- CABLE THW 6 SQ.mm. (BCC)	12	M.	-
	- CABLE THW 6 SQ.mm. (BCC)	120	M.	-
	- CABLE THW 4 SQ.mm. (BCC)	30	M.	-
	- SUPPORT & HANGER (LOCAL)	1	LOT	-
	- ACCESSORIES & FITTING (LOCAL)	1	LOT	-
5	MAIN FEEDER FROM DB-B TO INROW, UPS, P&O			13,430
	- WIREWAY 100 x 100 mm. EPOXY POWDER PAINT (KJL)	12	M.	-
	- CABLE THW 16 SQ.mm. (BCC)	48	M.	-
	- CABLE THW 6 SQ.mm. (BCC)	12	M.	-
	- CABLE THW 6 SQ.mm. (BCC)	120	M.	-
	- CABLE THW 4 SQ.mm. (BCC)	30	M.	-
	- SUPPORT & HANGER (LOCAL)	1	LOT	-
	- ACCESSORIES & FITTING (LOCAL)	1	LOT	-
6	LIGHTING & RECEPTACLE			62,890
	- WIREWAY 100 x 50 mm. EPOXY PAINT (KJL)	10	M.	-
	- DUPLEX RECEPTACLE 2 P + E (Panasonic)	2	SET	-
	- LED 2 x 18 W. REFLECTOR (PANASONIC)	6	SET	-
	- EXIT SIGN (SUNNY)	1	SET	-
	- EMERGENCY LIGHT (SUNNY)	1	SET	-
	- CONDUIT EMT 1/2 " (WIN)	30	M.	-
	- CABLE THW 4 SQ.mm. (BCC)	100	M.	-
	- CABLE THW 2.5 SQ.mm. (BCC)	200	M.	-
	- SWITCH (Panasonic)	1	LOT	-
	- SUPPORT & HANGER (LOCAL)	1	LOT	-

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ITEM	DESCRIPTION	QTY	UNIT	TOTAL
	- ACCESSORIES & FITTING	1	LOT	-
7	TVSS			81,110
	- SURGE PROTECTION 100 KA. (EATON)	2	SET	0
8	GROUND SYSTEM			28,810
	- GROUND GRID UNDER RAISED FLOOR	1	SYSTEM	0
9	RACK SYSTEM			78,840
	RACK PDU 20 UNIVERSAL OUTLET & POWER METER	8	SET	-
	RACK PDU 6 UNIVERSAL OUTLET	4	SET	-
	STATIC TRANSFER SWITCH 16 A. (DELTA)	2	SET	-
10	UPS SYSTEM			506,840
	APC Smart-UPS RT 8 kVA/8kW (BACKUP 15 MINS)	2	SET	-
11	ACCESS CONTROL			22,470
	HIP C806	1	SET	-
	- N Electro Magnatic Locked with LED			-
	- L/Z Bracket for UL-275CSP,SL,DL			-
	- Power Supply Switching 12V3A			-
	- Battery 12V7A HIP			-
	- Accessories & Installation	1	LOT	-
12	CCTV			153,970
	- Hikvision NVR 4ch DS-7716NI-E4	1	LOT	-
	- HDD 1TB (RECORD 90DAYS @ 2M)	27	LOT	-
	- Hikvision IPC 4MP DS-2CD2142FWD-I	3	LOT	-
	- Accessories & Installation	1	LOT	-
13	SMS ALARM SYSTEM			78,340
	- TCE SMS ALARM X200 SERIES	1	SET	-
	- 16 OPTICALLY COUPLED DRY CONTACT OR VOLTAGE INPUT			-
	- 4 RELAY OUTPUT ,CONTACT RATED AT 240 VAC,10A.			-
	- 4 CHANNELS ANALOG INPUT SUPPORT 4-20 Ma.			-
	- AUTO SEQUENCE CONTROL AIR CONDITION			-
	- 5 EMAIL RECIPIENTS			-
	- WALL MOUNT BOX			-
	- INSTALLATION & WIRING	1	SET	-
	- DIGITAL TEMPERATURE SENSOR	2	SET	-
	- PHASE PROTECTION	1	SET	-
	- COMMISSIONING & TRAINING	1	LOT	-
	WIRING CONTROL			-
	- TEMP SENSOR = 2 POINTS	2	SET	-
	- WATER LEAK = 1 POINTS	1	SET	-
	- UPS = 1 POINTS	2	SET	-
	- MAIN POWER = 1 POINT	1	SET	-
	- FIRE SUPPRESSION = 3 POINT	3	SET	-
	- PRECISION AIR = 2 POINT	2	SET	-

ELECTRICAL SYSTEM

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
14	WATER LEAK SYSTEM			296,620
	- TTK Water leak control panel (TTK FG-NET)	1	LOT	-
	- Leak cable sensor 15M/Box (TTK)	2	LOT	-
	- Modbus inteerface	1	LOT	-
	- Cable clips	1	LOT	-
15	OTHER			52,200
	- INSTALL UPS 8kVA	2	LOT	
	- INSTALL PDU	8	LOT	
	- INSTALL STS	4	LOT	
	- SITE EXPENSE	1	LOT	
	- CLEANING CHARGE	1	LOT	
	- TRANSPORTATION	1	LOT	
	TOTAL			1,484,650

PRECISION AIR

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	PRECISION AIR			1,054,510
	- APC InrowRD 10kW (ACRD101 2 set)	2	SET	
	- SUPPORT & HANGER	2	SET	
2	REFRIGERANT PIPE			77,840
	- REFRIGERANT PIPE TYPE L 1/2 "	40	M.	
	- REFRIGERANT PIPE TYPE L 3/4 "	40	M.	
	- REFRIGERANT R 410	20	Kg.	
	- STOP VALUE	4	SET	
	- SUPPORT & HANGER	1	LOT	
	- ACCESSORIES & FITTING	1	LOT	
3	WATER SUPPLY PIPE & DRAIN PIPE			14,520
	- GALVANIZED STEEL PIPE 1/2 "	20	M.	
	- GALVANIZED STEEL PIPE 1 "	20	M.	
	- GATE VALVE 1/2 "	2	SET	
	- SUPPORT & HANGER	1	LOT	
	- ACCESSORIES & FITTING	1	LOT	
4	INSULATION TUBE			12,440
	- INSULATION TUBE SIZE 1/2 " ID. 3/4 " WALL	40	M.	
	- INSULATION TUBE SIZE 3/4 " ID. 3/4 " WALL	40	M.	
	- ADHESIVE & AEROTAPE	1	LOT	
5	ELECTRICAL			12,660
	- CONDUIT EMT 1/2 "	30	M.	
	- CONDUIT IMC 1/2 "	10	M.	
	- CABLE THW 2.5 SQ.mm.	120	M.	
	- SUPPORT & HANGER	1	LOT	
	- ACCESSORIES & FITTING	1	LOT	
6	EXISTING AIR CONDITIONER			
	- REMOVE AIR & PIPING	4	LOT	44,410
	TOTAL			1,216,380
	GRAND TOTAL			1,216,380

CIVIL WORK

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	WALL FINISHED			101,390
	- 2x12 mm. THK. 2 HR. FIRE RATED GYPSUM BOARD ON METAL STUD	63	SQ.M.	
	WITH ROCK WOOL			
	- PAINT TO WALL	126	M ²	
2	DOOR & WINDOW			56,150
	- 0.90 x 2.20 M. 2 HR. FIRE RESISTANCE DUPLEX SWING DOOR	1	SET	
	ADDITION 2 HR. FIRE RESISTANCE GLASS. SIZE (620Wx770H)			
3	CEILING WORK			46,430
	- 2x12 mm. THK. 2 HR. FIRE RATED GYPSUM BOARD M-BAR	23	SQ.M.	
	- STEEL STRUCTURE WITH FIRE PROOF PAINTING	1	LOT	
	- 100% PURE ARCYLIC PAINT TO CEILING	46	SQ.M.	
	TOTAL			203,970
	GRAND TOTAL			203,970

FIRE SUPPRESSION SYSTEM

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	CYLINDER ASSEMBLY, 125 lb. (56.7 kg) Capacity 1-1/2" Valve, w/LL	1	SET	459,120
	Valve Outlet Adapter, 1-1/2" (use with 10-125# Cylinders)	1	SET	
	NOVEC 1230 FACTORY FILLED	91	EA.	
	NOZZLE RADIANT BRASS	1	SET	
	2 POLE ,STAND PRESSURE SW.	1	SET	
	RP 2002E CONTROL PANEL	1	SET	
	SMOKE DETECTOR	4	SET	
	6" RED BELL	1	SET	
	HORN/STROBE	1	SET	
	ABORT STATION	1	SET	
	MANUAL RELEASE	1	SET	
	SYSTEM INSTALLATION EE & PIPING WORK INCLUDE FOR TESTING	1	LOT	
	TOTAL			459,120

SUMMARY

PROJECT : "LDO SERVER ROOM RENOVATION"

DATE : 22-02-2019

ITEM	DESCRIPTION	QTY	UNIT	TOTAL
A	ELECTRICAL SYSTEM	1	LOT	1,484,650
B	PRECISION AIR	1	LOT	1,216,380
C	CIVIL WORK	1	LOT	203,970
D	FIRE SUPPRESSION SYSTEM	1	LOT	459,120
E	CALL SERVICE CENTER	1	LOT	-
	(SUPPORT 24X7)			-
F	PROJECT MANAGEMENT &	1	LOT	-
	AFTER SALES SERVICE			-
	GRAND TOTAL			3,364,120

REMARK

1. THIS PRICE EXCLUDE VAT 7 %
2. PROJECT SCHEDULE 80 BUSINESS DAYS (AFTER KICK OFF MEETING)
3. PAYMENT CONDITION : 10% (KICK OFF), 40% (JOB COMPLETED 70%), 40% (JOB COMPLETED 100%) & 10% (DEFECT CORRECTION
4. WARRANTY 1 YEAR

