

SCHEDULE FOR THE ELECTRICAL WORK AT UNITED INDIA INSURANCE, THRISSUR BRANCH.						
Sl.No	DESCRIPTION	UNIT	QTY	RATE	RATE IN WORDS	AMOUNT
1	MCCB DB, DBs & ACCESSORIES					
a	MCCB DB	No	1			
	Supply, erection, testing and commissioning of 8 way MCCB DB double door made out of 16 SWG CRCA Sheet , dust and vermin proof , wall mounting in recess /surface consisting of the following					
	Insulation mat as per IS 15652 std - in front of the main panel.CPR chart shall place as per CEA regulations on electrical safety Danger signs on doors of main panel and ups room as per CEA regulations					
	INCOMER:					
	Supply and Installation of 100A TPN MCCB with 25KA breaking capacity- 1 No					
	OUTGOING :					
	S & I of 63A TP MCB-1 nos for AC DB					
	S & I of 40A TP MCB- 5 nos for LDB, RAW Power, UPS1 and UPS 2 and One spare					
	S & I of 32A 2P MCB-2 nos- for Board Light and one spare					
b	POWER DB	Nos	1			
	Supply and installation of TPN 4 WAY MCB DB for Power Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged door with all internals such as DIN rails, neutral with provision for the following.					
	S & I INPUT- 40A, 100mA 4 pole RCBO - 1 No					
	S & I OUTPUT - 10/16/20/25 A SP MCB -12 Nos					
c	AC DB	No's	1			
	Supply and installation of TPN 4 WAY MCB DB for AC (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged door with all internals such as DIN rails, neutral with provision for the following.					
	S & I INPUT- 63A, 100mA 4 pole RCBO - 1 No					
	S & I OUTPUT - 16/20/25 A SP MCB -12 Nos					

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d	LDB					
	Supply and installation of TPN 8 WAY MCB DB for LDB (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof and vermin proof, gasketed and hinged door with all internals such as DIN rails, neutral with provision for the following.	Nos	1			
	S & I INPUT- 40A, 30mA 4 Pole RCBO -1 No					
	S & I OUTPUT - 6/10/16/A SP MCB -24 No					
e	UPS DB 1 &2- UPS Sockets					
	Supply & installing 12 WAY SPN UPS Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral with provision for the following.	Nos	2			
	Incomer : 32A 100mA 2P RCBO -1 No					
	Out goings: 10 - 16A SP MCB C Curve - 10 nos					
f	UPS DB - Light and Wall Fan					
	Supply & installing 12 WAY SPN UPS Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral with provision for the following.	Nos	1			
	S & I of INPUT- 32A 2 Pole 30mA RCBO					
	Out goings: 6 - 10A SP MCB C Curve - 10 nos					
g	UPS DB CCTV/NETWORK RACK					
	Supply & installing 8 WAY SPN UPS Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral with provision for the following.	Nos	1			
	S & I of INPUT- 32A 2 Pole 100mA RCBO					
	S & I of OUTPUT - 10/ 16 A SP MCB - 6 Nos					
h	UPS O/P SPLIT DB					
	Supply & installing 8 WAY SPN UPS Distribution Board (double door) flush mounted on wall, sheet metal fabricated, powder coated, having dust-proof & vermin proof, gasketed & hinged door with all internals such as DIN rails, neutral with provision for the following.	No	1			
	S & I of INPUT- 40A 2 Pole MCB -1 no					
	S & I of OUTPUT - 32 A DP MCB - 3nos					

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i	UPS INPUT /OUTPUT - PHASE SELECTOR ARRANGEMENT - Supply and commissioning of Switch Board for the Phase Selector arrangement for UPS with the following equipment fixed on it i) 40A- Phase Selector switch-1No. ii) Phase indication with LED solid state indication lamps - 4Nos. (3Nos on the incoming side and one after phase selector switch)	No	2			
j	Supply and installation of 32 A DP MCB with metal enclosure (For UPS output).	No	2			
k	Supply and installation of 32 A 4 pole MCB with metal enclosure (For UPS input).	No	2			
l	Supply and Installation of 20A Timer unit (L&T/ SIEMENS/ SCHINDLER make only)-	No	1			
2	WIRING FOR LIGHTS AND PLUG POINTS					
	Wiring for light/fan/ 6A sockets with 2 runs of 1.5Sq mm + 1.5 Sq.mm green PVC insulated FRLS Cu wire in medium gauge PVC conduits / casing capping controlled 6A SP switches of reputed make mounted on galvanized/ PVC boxes fixed on Modular plate in recess / surface including all connections as required					
a	1 light controlled by 1 no. 6A SP switch	Nos	68			
b	2 light controlled by 1 no. 6A SP switch	Nos	9			
c	3 light controlled by 1 no. 6A SP switch	Nos	4			
d	4 light controlled by 1 no. 6A SP switch	Nos	1			
e	Wall mounted fan points including 6A socket controlled by 6A switch.	Nos	24			
f	Exhaust fan controlled by 1 no. 6A SP switch using ceiling rose.	Nos	7			
g	Ceiling fan points with step up type 300W electronic regulator & ceiling rose.	Nos	11			
h	6 A plug points 5 pin type (combination in	Nos	14			
i	6 A Plug points 5 pin type (Independent	Nos	35			
j	BELL POINT	Nos	1			
3	POWER POINTS					
a	Supply and fixing of 6/16A combined socket controlled by 1 no. 16A switch in Galvanised metal/PVC Boxes fixed on Modular face plates in recess/Surface including all connection as required. (Rawpower Socket)	Nos	12			
b	Supply and fixing of 2 nos 6/16A combined socket controlled by independent 16A switch in Galvanised metal/PVC Boxes fixed on Modular face plates in recess/Surface including all connections are required for DATA HUB. (UPS Power socket)	Nos	1			

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c	Supply and wiring for 0/16 A socket point using 2 runs of 2.5 Sqm PVC insulated FRLS Cu wire along with 1 run 1.5 sq mm green CU wire as earth conductor through medium gauge PVC conduit in recess/surface including all required connections	Mtr	300			
d	supply and installation powerplug for motor	Nos	1			
4	WIRING FOR LIGHT CIRCUITS					
a	Supply and laying of wiring for Switch boards using 2 x2.5Sq mm PVC insulated FRLS Cu wire along with 1.5 Sq mm green colored Cu earth wire in recess/surface including all required connections from DB to Power sockets	Mtr	500			
b	Circuit main wiring for lighting circuits of 2 runs of 1.5 Sqmm FRLS Cu wire along with 1.5 Sq.mm green Cu earth wire through medium gauge PVC conduit in recess/ surface including all required connections from DB to Light switch board.	Mtr	650			
5	COMPUTER WIRING					
a	Supply and erection of 3 nos 6A socket controlled by 1 no 16A switch in Galvanised metal/PVC Boxes fixed on Modular face plates in recess/Surface including all connection as required (Fan + Fan Control)	Nos	33			
b	Supply and wiring for computer socket using 2 x2.5Sq mm PVC insulated FRLS Cu wire along with 1.5 Sq mm green colored earth Cu wire in PVC medium gauge conduit including all connections	Mtr	550			
c	Supply and wiring for computer socket using 2 x1.5Sq mm PVC insulated FRLS Cu wire along with 1.5 Sq mm green colored earth Cu wire in PVC medium gauge conduit including all connections	Mtr	500			
d	Supply and laying of 2 runs of 6 Sq mm and 1 run of 4 Sq mm PVC insulated FRLS Cu wire through PVC medium gauge onduits in recess /surface including all connections as required for UPS	Mtr	25			
e	Supply and laying of 4 runs of 6 Sq mm and 1 run of 4 Sq mm PVC insulated FRLS Cu wire through PVC medium gauge onduits in recess /surface including all connections as required for UPS	Mtr	12			
f	Supply and erection of 2 nos 6A socket controlled by 1 no 16A switch in Galvanised metal/PVC Boxes fixed on Modular face plates in recess/Surface including all connection as required (TV Socket)	Nos	3			
6	AC POINT WIRING					
a	Supplying all materials and fixing modular type 25 A power plug point with 25A 3 pin socket controlled with 25 A DP modular switch with moulded front plate, housed in a suitable factory built MS box	Nos	11			

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b	Supply and Installation of 20/32A SP MCB isolator in metallic box with 20/32A metal clad/modular plug socket complete with internal wirings for Stabiliser	Nos	11			
c	Supply and laying of 2 runs of 4 Sq mm and 1 run of 2.5 Sq mm PVC insulated FRLS Cu wire through PVC medium gauge conduits in recess /surface including all connections as required for Split AC input	Mtr	380			
7	LIGHT FIXTURES/FAN FIXTURES					
	Erection of following fan/ lighting fixtures with suitable lamp on walls/ceiling beams etc with proper supports wherever necessary					
a	600 X 600 LED SURFACE MOUNTING LIGHT FITTING Supply, Installation, testing and commissioning of LED Square light (Surface mounting),36W HAVELLS PLANOSURFACE and frame Complete with all accessories including lamp duly prewired etc	Nos	48			
b	LED TUBELIGHT- Supply, Installation, testing & commissioning 1 X 20W LED 4 ft Tube light with all fittings (make- Philips/Havells/syska)	Nos	31			
c	Supply, Installation, testing and commissioning of LED Down light (Surface mounting),12W HAVELLS INTEGRA NXT DL and frame Complete with all accessories including lamp duly prewired etc	Nos	10			
d	9W LED BULB- Supply, Installation, testing and commissioning of 9W LED bulb with holder and all fittings for toilet	Nos	6			
e	EXHUAUST FAN - Supply, Installation, testing & commissioning 250 mm dia wall mounted exhaust fan of decorative plastic body & blade with louvers on the outside	Nos	6			
f	HEAVY DUTY EXHAUST FAN - OPS ROOM Supply, Installation, testing and commissioning of Wall mounted exhaust fan (9" dia.) heavy duty metal body	Nos	1			
g	WALL FAN- -Supply, Installation, testing and commissioning of 400 mm diameter wall mounted fans with inbuilt regulator with rope	Nos	24			
h	Supply at site and installation of 1200 mm ceiling fan of approved make with all accessories . Installation includes the cost of materials for fitting, giving electric connection,fitting hooks wherever necessary etc	No's	11			
8	TELEPHONE POINTS					
a	Supply and fixing RJ11 Telephone sockets with back box and front plates in recess/surface including all connections as required.	Nos	30			
b	Supply and laying 2 pair 0.5mm annealed tint copper conductor telephone cable from telephone socket to EPBX.	Mtr	750			

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c	Supply and installation of 30 pair telephone junction box with chrome connector.	Nos	1			
d	Supply and laying 30 pair (0.5 mm) telephone cable including supply and laying 20 mm PVC conduit with all accessories	Mtr	10			
9	DATA CONDUIT					
a	Supply and laying of ISI marked 25 mm PVC conduit with accessories along floor / wall / partitions / recessed/surface with metal termination box and lead wire for computer cabling	Mtrs	500			
b	Supply and laying of cat 6 UTP CABLE FOR DATA CABLING through existing 25 mm PVC conduit with accessories along floor / wall / partitions / recessed/surface with metal termination box and lead wire for computer .	Mtrs	1200			
c	Supply and installation of K JACK RJ45 information outlet	Nos	42			
d	Supply and fixing of 24 port patch panel. The rate inclusive of termination and interconnections	Nos	2			
e	Supply and fixing of 16U Rack, the rack shall have ventillation fan and locking arrangements	Nos	1			
f	Supply and providing patch chord with CAT 6 UTP 4pair cable min 1m length	Nos	42			
g	Supply and providing patch chord with CAT 6 UTP 4pair cable min 2m length	Nos	42			
h	Supply, Laying of of HDMI Cable through existing conduit	Mtrs	5			
10	BELL POINT					
a	Supply and installation of bell point inclduing required length of wires ,PVC back box and front plates with bell push in PVC medium gauge conduit in recess/surface.The specification includes the rate for ding dong bell.	Nos	1			
11	GENERAL EARTHING					
	Supply and drawing bare earthing conductors of 3.15 mm copper conductor (10 SWG) along with wiring/ cables/ UG and giving connection as required					
a	NO. 10 SWG Cu wire	Mtr	300			
b	25 x 3 mm copper strip	Mtr	10			

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c	Supply and providing pipe earthing as per IS 3043 with 3.60 m long 40 mm dia B class GI pipe, GI funnel with weld mesh, filling required quantity of chemical compound containing graphite and montmorillonite including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but including test joint, earth continuity conductor to the plate,	Nos	2			
d	Supply and providing plate earthing as per IS 3043 with 600x600x6.30 mm cu earth plate, 20 mm GI watering pipe fixed to the earth plate with 20 x 3 mm GI clamps, GI funnel with weld mesh, filling required quantity of chemical compound containing graphite and montmorillonite including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but including test joint, earth continuity conductor to the plate, and covering at the top. (in ordinary soil) / Branch	Nos	2			
e	Supply and Providing Copper Earth bench for GI wire terminations etc.complete.	Nos	2			
12	CABLES & TERMINATIONS					
	Supply and laying the following XLPE insulated PVC sheathed armoured 1.1KV grade Aluminium / Copper conductor cable conforming to IS:1554 (part-1) in cable trenches or on concrete wall or through pipes as per specifications, including providing of cable route makers in every 50M and at all strategic turning/ diversion points etc. Necessary clamping should be providing while burying cables in prepared trenches etc.as per standards. Make V Guard					
a.	Supply and laying of 3.5 core 50 sq.mm XLPE insulated PVC sheathed aluminum armored cable from meter board to Main MCCB DB	Mtr	70			
b.	Supply and termination of 50 sq.mm Al cable	Nos	2			
c	Supply and laying of 4 core 25 sq.mm XLPE insulated PVC sheathed aluminum armored cable from Main DB to AC DB	Mtr	15			
d	Supply and termination of 4 core 25 sq.mm Al cable gland	Nos	2			

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e	Supply and laying of 4 core 10 sq.mm XLPE insulated PVC sheathed aluminum armored cable	Mtr	50			
f	Supply and termination of 4 core 10 sq.mm Al cable gland	Nos	6			
g	Supply and laying of 4 core 6 sq.mm XLPE insulated PVC sheathed aluminum armored cable	Mtr	50			
h	Supply and termination of 4 core 6 sq.mm Al cable gland	Nos	4			
i	Supply and laying of 2 core 10 sq.mm XLPE insulated PVC sheathed aluminum armored cable	Mtr	10			
j	Supply and termination of 2 core 10 sq.mm Al cable gland	Nos	2			
13	TV OUTLETS					
	Supply, Insulation of ISI Grade Light Duty PVC Conduit in wall(Conduit Drop) and Supply & carrying out TV wiring complete in concealed wiring system through all floors with foam filled TV cable (The leads should be marked for identification), including RG-6 (20 METER) and Supply & Labour charges for Fixing and connecting modular type TV co-axial socket in	3	Nos.			
14	DEPARTMENT LAISON WORK					
	Submission of necessary papers, drawings etc including for the entire existing installations to KSEB/Electrical Inspectorate and getting energised . All liaison work included with incidental expences. Necessary fees remitted against receipt will be re imbursed.	LS	1			
	GRAND TOTAL					