

Project: Interiors of United Indian Insurance Company Limited, DO 3, 1st Floor, TKN Mansion, Double Road, (K.H. Road), Bangalore - 560027						
BOQ for electrical works						
Sl.No	Description	Unit	Qty	Rate in Figures Rs.	Rate in Words	Amount Rs.
a)	INTERNAL ELECTRIFICATION WORKS					
1	Same as in item No.1 with 5A, 3 pin, universal socket, 5A Modular type (Anchor Roma/Legrand) switch, M.S.box, moulded plastic plate etc., for independent lighting plug outlet.					
a)	One light point controlled by one 5A switch.	Each	7			
b)	Two light points controlled by one 5A switch.	Each	23			
c)	Three light points controlled by one 5A switch.	Each	3			
d)	Four light points controlled by one 5A switch.	Each	RO			
e)	Five light points controlled by one 5A switch.	Each	RO			
g)	One light point controlled by two 5A, 2 way switches.	Each	RO			
2(a)	Same as in item No.1 with 5A, 3 pin, universal socket, 5A Modular type (Anchor Roma/Legrand) switch, M.S.box, moulded plastic plate etc., for independent lighting plug outlet.	Each	3			
b)	b) Same as in item No. 2 (a) for dependent lighting plug outlet, located on the existing lighting switch board.	Each	10			
3	a) Same as in item No. 1, but along with Electronic Regulator (Anchor Roma/Legrand) suitable M.S. box, moulded plastic plate etc., and M.S. fabricated concealed fan hook box, etc., complete for ceiling fan outlets. (2 module type regulator)	Each	18			
	b) Same as in item No. 1, for Exhaust fan outlets with suitable M.S. box, 5A, 3 pin universal socket (Anchor Roma/Legrand) moulded plastic plate etc., near Exhaust fan opening, as required.	Each	5			
	c) same as in item no 1 for call bell points	Each	2			
b)	CIRCUIT MAINS					
1	Supplying and fixing 19 mm dia PVC conduit, 2 mm thick with all accessories and drawing 2 of 2.5+1RX1.5 Sq mm MSCC((Havells/RR cables/KEI)FRLS GRADE, for lighting main/sub-circuits.	RM	150			
2	Supplying and fixing 25 mm dia PVC conduit, 2 mm thick with all accessories and drawing 2RX4.0 sq.mm+1RX2.50 sq.mm MSCC ((Havells/RR cables/KEI)FRLS Grade) for work station points UPS circuits.	RM	400			
3	Same as in item 2 above) but with 2 of 6.0 sq.mm+1RX2.5 Sq mm MSCC(((Havells/RR cables/KEI)FRLS Grade) for A/C & sub main circuits	RM	30			
4	Supplying & fixing 32 mm dia PVC Conduit, 2 mm thk with all accessories and drawing 4 of 4.0 sq.mm+1RX2.5 Sq mm MSCC(((Havells/RR cables/KEI)FRLS Grade) for lighting mains	RM	-			
5	Supplying and fixing 38 mm dia PVC conduit, 2 mm thick with all accessories and drawing 4 X 6.0 sq.mm.+ 1RX2.5 sq.mm MSCC(((Havells/RR cables/KEI)FRLS Grade) for Mains circuits/UPS Mains.	RM	-			
6	Supplying and Laying 1cx10 sq mm Copper Flexible Cable in 25 mm dia 2mm thk PVC Conduit FRLS Grade with necessary supports complete as required.	RM	100			
7	Supplying and Laying 4cx16 sq mm Armoured AL cable with necessary supports complete as required.	RM	-			
8	Supplying and Laying 4cx10 sq mm unarmoured copper cable with necessary supports complete as required.	RM	-			
9	Supplying and Laying 4cx16 sq mm unarmoured copper cable with necessary supports complete as required.	RM	-			
	TOTAL					

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c)	POWER RECPTACLES					
1	a) Supplying and fixing suitable M.S. box with 1 No. 20A SP modular switch (Anchor Roma/Legrand) with indicator, 1 No. 16A & 6A, 3 pin universal socket, moulded plastic plate etc., for power outlets.	Each	3			
2	Supplying and fixing of 3 Nos 6A sockets controlled by 1 no 16 A SP modular switch located separately near table or as per client requirement(Anchor Roma/Legrand)with moulded plastic plate etc., for Computer outlets complete as required.	Each	32			
3	d) Supplying and fixing 25A DP MCB with heavy duty Industrial socket and flush mounting box etc., complete for A/C outlets (Anchor Roma or as approved by electrical consultant).	Each	1			
4	Supply & Installation of 16/20/25A DP MCB in weatherproof Hensel enclosure in terrace for A/C units	Each	-			
5	a) Supplying and fixing 10/20A, 3/5-pin Industrial plug & socket(Clipsal/Hensal make) controlled by one No.10/20A SP MCB,with necessary inter connections etc., complete as required & as approved by Engineer in charge.	Each	1			
6	b) Supplying and fixing 10/20/32A, 3/5-pin Industrial plug & socket(Clipsal/Hensal make)confirming to IP 54 & above controlled by one No.10/20/32A TP/FP MCB,with necessary inter connections etc., complete as required & as approved by Engineer in charge.	Each	-			
7	c) Supplying and fixing of POP box(Legrand make or equivalent or as approved by engineer in charge) complete as required	Each	2			
d)	EARTHING					
1	Supplying,Erection,Testing & Commissioning of compound type Earth Electrodes dual pipe with flat technology consisting of 2 mtr long 50 mm dia outer pipe,25 mm dia inner pipe,Terminal flat of 30x10/12x12 mm,the entire construction processed with Hot dip galvanization,outer surface upto 100 microns and all inner surface 200 to 300 microns all inner annular space filled with highly conductive and non corrosive nature crystalline material,along with electrode moisture booster compound of 1x25 kg bag filled to surround the pipe at the time of installation.(moisture booster to have moisture retention,conduction & non-corrosive properties)The rate shall also include cost of construction of 450x450x450 mm pit with GI inspection chamber.	Each	8			
2	Supplying,Erection,Testing & Commissioning of compound type Earth Electrodes dual pipe with flat technology consisting of 2 mtr long 80 mm dia outer pipe,50 mm dia inner pipe,Terminal flat of 40x10mm,the entire construction processed with Hot dip galvanization,outer surface upto 100 microns and all inner surface 200 to 300 microns all inner annular space filled with highly conductive and non corrosive nature crystalline material,along with electrode moisture booster compound of 1x25 kg bag filled to surround the pipe at the time of installation.(moisture booster to have moisture retention,conduction & non-corrosive properties)The rate shall also include cost of construction of 450x450x450 mm pit with GI inspection chamber.	Each	-			
3	a) Supplying and fixing in position following Earth strips including providing all fixing accessories and affecting proper connections.					
a)	Same as in item No. 15(a) but with 25 x 3 mm G.I strip	RM	-			
b)	Same as in item No. 15(a) but with 25 x 6 mm G.I. strip	RM	-			
c)	Same as in item No. 15(a) but with 40 x 6 mm GI strip	RM	-			
d)	Same as in item No. 15(a) but with 50 x 6 mm G.I. strip	RM	-			
e)	Same as in item No. 15(a) but with 25 x 3 mm Cu. strip	RM	-			
f)	Same as in item No. 15(a) but with 25 x 6 mm Cu. strip	RM	-			

Sl.No	Description	Unit	Qty	Rate in Figures Rs.	Rate in Words	Amount Rs.
4	Supplying and fixing of 25x3 mm Copper bus bar with necessary holes suitable	Each	3			
a)	for mounting on wall with necessary insulators.					
b)	Supplying and fixing of 25x3 mm GI bus bar with necessary holes suitable for	Each	2			
	mounting on wall with necessary insulators.					
	TOTAL					

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e)	PANEL BOARD					
1	Sheet steel fabricated (14/16 guage) Main Medium Voltage panel, cubicle type with hinged front door with locking arrangements. The board shall be free standing type, dust and vermin proof, having provision for extension on both sides. The boards shall be supplied with the following equipments necessary bus bars etc.,including inter connections as required.The board shall be provided with detachable plate at top and bottom of cable alley having adequate knockouts for facilitating cable/Bus duct entries.The board shall be mounted suitably with bolts and nuts firmly placed on supports on cable trench inside electrical room etc., complete as per standard.The panel shall be provided with name plates including feeder details of Amps,Feeding Panel,Outgoing cable etc.,The board shall be applied with one coat of primer after cleaning and degreasing the metallic surfaces and finished neatly with two coats of approved colour enamel paint.					
1	FLOOR PANEL consisting of the following					
	1 no 63A 4P MCCB with Shunt trip,Over load,Short Ckt & RHOM(NOTE: INCOMER BREAKER SPACE TO SUIT 125A MCCB)					
	1 No ELR with CBCT					
	1 No MDM(VAF Meter)					
	1 Set of R Y B indicating Lamps					
	1 Set of 100A Al Bus Bar(R,Y,B,N & E)					
	1 No 5 kvar Fixed Capacitor with necessary MCB & Contactor					
	4 SET BUS BAR SUITABLE FOR 63A,600V ststem.					
	OUTGOINGS					
	4 Nos 32A DP MCBS					
	20 Nos 10/16/25A SP MCBS					
	5 Nos Space Provision for 10/16A/25A SP MCBS	Each	1			
f)	DISTRIBUTION BOARD					
2	Sheet steel fabricated, 12way SP & N DB IP 43 with Metal door consisting of 10 Nos. 6/16A/20A single pole MCB's and 1 No.25 A DP RCCB,30 mA with necessary copper busbars, phase barriers, neutral link etc., as required (Legrand or as approved by Elec Consutlant) double door type.	Each	1.0			
g)	FITTING & FIXTURES (only Erection,Testing & Commissioning)					
	Erection,Testing & Commissioning of Following Fitting & Fixtures as per drawing.The work shall be done as per standards					
a)	2x2 feet 2x36w recessed mounted Light Fixture with CFL lamp complete as required.	Each	33			
b)	1'X1' 1x18w recessed mounted down Light Fixture with CFL lamp complete as required.	Each	19			
c)	1x40w Tube Light Fitting	Each	5			
d)	Mirror Light	Each	3			
e)	1200 mm dia ceiling Fan with necessary accessories	Each	18			
f)	300mm dia Exhaust Fan with necessary accessories	Each	5			
g)	Supply cost of above items a to f	LS	1			

Sl.No	Description	Unit	Qty	Rate in Figures Rs.	Rate in Words	Amount Rs.
h)	MISCELLANEOUS ITMES					
1	Preparation of Asbuilt dwgs of Lighting,Raw Power,A/C & Data Points .The scope of work includes giving details of Circuits with colour coding,numbering,routing of Electrical & Network etc complete as required and as approved by Electrical Engineer.The Electrical Contractor to provide 4 copies of coloured drawing with one copy laminated on a board.	I/s				
2	Supplying and fixing following size PVC conduits, 2 mm thick with bends, junction boxes, etc., complete with 16g G.I. Pull wires as required					
	a) 19 mm dia. 2 mm thick PVC conduit.	RM	75			
	b) 25 mm dia. 2 mm thick PVC conduit.	RM	250			
	c) 38 mm dia. 2 mm thick PVC conduit.	RM	-			
3	Flexible Conduits					
	a) 19 mm dia.	RM	15			
	b) 25 mm dia	RM	23			
4	Supplying and fixing of MS pull box for pulling & housing wires above DB boxes.The box shall be treated with one coat of primer and neatly painted with two coats of enamel paint.The box shall have adequate knockouts on both top and bottom to facilitate incoming and outgoing of conduits/wires.	Each	3			
5	Supplying & Laying of armoured cable with aluminium conductor in ground/wall/ceiling including necessary earth work/Chipping as required.					
a)	3.5CX35 SQ MM	Rm	115			
	Supplyind & fixing of End termination of above L.T cables with brass glands , copper lugs, (crimping type) etc., including necessary connections as required complete.					
b)	3.5CX35 SQ MM	set	2			
6	Supplying following safety equipments such as 1.1 KV class rubber mat, restillation chart, fire buckets, fire extinguisher, danger board, etc., in conformity with Electrical Inspectorate requirements, complete as required for electrical room.					
a)	1.1 Kv di-electric strenght calss Rubber mat 6 feet length 12 mm thick as per IS standards & CEIG requirement.	Each	1			
b)	Shock treatement/Restillation chart duly glazed maunted on wooden Aluminium frame with sheet glass as required.	Each	1			
c)	G.I. buckets of 20 litres capacity (3 nos)duly painted white inside and red oxide paint out side and written 'Fire' with while paint and filed with dry sand and mounted on M.S. angle iron bracket of size 50 x 50 x 6mm thick and 500mm long including grounting in wall etc. as required.	Each	1			
d)	Dry chemcial powder type fire extiguishers with cylinders duly charged of capacity 5 Kg i/c fixing M.S.clamps brackets complete.	Each	1			
e)	Danger boards(in English,Hindi & Kannada)	Each	1			
f)	First aid box as approved by St.John Ambulance Brigade / Indian Red Cross Society and confirming to I.S.2217 /1963.	Each	1			
g)	Miscellaneous & Unforseen Expenses	L/S	1			
	TOTAL					
1	a) Supplying and fixing suitable size M.S. box with telephone socket/TV socket/speaker socket with plug top/jacks (Anchor Roma/Legrand) with moulded plastic plate etc., for telephone/television/speaker outlets as required.	Each	15			
3	Supplying and fixing suitable size M.S. boxes with hylam/acrylic cover plate with following tag blocks for main telephone junction boxes.					
	a) 10 pair tag Block	Each	2			
	TOTAL					

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Rupees					Only	