

Schedule of Work						
Name of Work: Electrical Renovation Work and Installation of DEDICATED EARTHING for GC-MS Instruments in ROOM No-34 & 144 situated in the Main Building of IACS						
Item No.	Description	Qty	Unit	Rate (Rs.)	Amount (Rs)	Remarks
1	Distribution Board - (PDB): Supplying and fixing following way,single pole and neutral sheet steel MCB distribution board,240 Volts on surface/recess complete with, tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections,powder painted,including earthing etc as required (But without MCB/RCCB/Isolator).					
a)	12 way,Double door	1	No			
2	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.(Wire:-FRLSH)					
a)	2X4sq.mm +1X4sq.mm earth wire (For AC)	12	Metre			
b)	2X6sq.mm +1X6sq.mm earth wire (For UPS Distribution)	50	Metre			
c)	4X16sq.mm +2X16sq.mm earth wire (UPS)	5	Metre			
d)	2X16sq.mm +1X16sq.mm earth wire (UPS)	5	Metre			
3	Supplying and fixing of following size/ modules, GI/PVC box along with modular base & cover plate for modular switches in recess etc. as required.					
a)	6 Module	7	Nos			
b)	2 Module	2	Nos			
4	Supplying and fixing of following modular switch/socket on the existing modular plate & switch box including connections but excluding plate etc. as required.					
a)	6 pin 6/16A Socket	15	Nos.			
b)	15/16 amp switch	14	Nos.			
5	Supplying and fixing following rating four pole 415V, 10KA "C" curve miniature circuit breaker suitable for inductive load in the existing MCB DB complete with connections,testing					
a)	63A MCB 4P	2	No..			
	XLPE armoured Al. cable: -					
6	Supplying of XLPE insulated and PVC sheathed armoured heavy duty aluminium conductor cable of CC/Universal/POLYCAB/Havells make 1.1KV grade as per relevant IS specifications for the following sizes:					
a)	4cx16 sq.mm	25	mt.			
7	Laying & Fixing of 1no. PVC insulated and PVC sheathed/XLPE power cable of 1.1KV Grade of following size on wall surface as required.					
a)	4cx16 sq.mm (clamped with1mm thick saddle)	25	mt.			
7A	Supply 36W, double tube light set with LED light (as per philips Cat. No. TMC-501P with 2nos. 18W master LED length 1200mm,2100lumen or equivalent model) complete with all accessories including connection with 1.5 sq.mm FRLS PVC insulated copper conductor ,single core cable and earthing etc. as required	1	No.			
8	Installation, testing and commissioning of pre-wired, LED fitting / compact Led fitting of all types, complete with all accessories and tube etc. directly on ceiling, including connection with 1.5sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	1	No			

	Description	Qty	Unit	Rate (Rs.)	Amount (Rs)	Remarks
9	Providing & Fixing 4mm dia copper wire on surface/recess for loop earthing along with existing surface/recessed conduit/submain wiring/cable as required.	50	mt.			
10	Supplying and fixing of variable timer(National refrigeration make or BSC make or equivalent make) to run both the AC periodically inside the room with complete connections,testing and commissioning etc. as required.	1	No			
	Cable Termination: -					
11	Supplying and making end termination with brass compressor gland and copper lugs for following size of XLPE insulated and (PVC sheathed aluminium conductor cable of 1.1KV grade as required).					
a)	4cx16 sq.mm	2	nos.			
12	Supplying and fixing following rating 415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections,testing and commissioning etc. as required.					
a)	63 A MCB, DP	2	No..			
b)	16 A MCB, SP	8	Nos.			
	DEDICATED EARTHING					
13	Earthing with copper earth plate 600 mm x 600mm x3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc.with charcoal/coke and salt as required.	2	set			
14	Providing & fixing of 25mm x 5mm copper strip (wrapped with PVC sleeve) in 40mm G.I pipe from earth electrode including connections with brass nut,bolt,spring washer excavation and refilling etc as required.	85	mt.			
15	Providing & fixing earth bus of 50 mm x 5mm copper strip on insulator surface for connections etc. as required.	5	mt.			
16	1x16 sq.mm ISI marked,FR PVC insulated,single core copper conductor.	20	mt.			
17	Supplying and laying of 25 mm diameter steel armoured flexible pvc conduit as required	10	mt.			
18	Supply & fixing four pole sheet steel enclosure on surface/recess for four pole MCB complete with connections,testing and commissioning etc.as required.(Make:-Havells/Legrand)	1	No..			
19	Supplying & Fixing of modular type 25Amp A.C. starter switch with GI/PVC Box complete surface/recessed in wall.	1	No..			
	.			TOTAL		
	Rupees:					
i)	GST No.-	CGST-9% & SGST-9%				
ii)	SAC No.-					
iii)	Please enclosed GST Registration certificate copy					
	Note: The quoted rate shall be inclusive of all taxes & duties, levies, cess etc. including GST. .Nothing extra will be paid to the Contrator except the accepted rate.and (i),(ii) & (iii) are mandetory .					