

Estimate & Schedule of Work						
Name of Work: Electrical Renovation Work in the LAB at Ground floor of New ERU Building of IACS						
Item No.	Description	Qty	Unit	Rate (Rs.)	Amount (Rs)	Remarks
1	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate , suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.					
	Group C (as per CPWD Categorisation)	5	Point			
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.					
a)	2X1.5 sq.mm+ 1X1.5 sq.mm earth wire	6	Metre			
b)	2X4sq.mm +1X4sq.mm earth wire	125	Metre			
c)	4X10sq.mm +2X6sq.mm earth wire (UPS)	18	Metre			
d)	2X10sq.mm +1X6sq.mm earth wire (UPS)	22	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)	2 Module	5	Nos			
(c)	6 Module	18	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 15/16A Socket	38	Nos.			
b)	15/16 amp switch	36	Nos.			
d)	Telephone socket outlet	1	Nos.			
5	Supply 20W, 2' double tube light set wall mounting type LED light fitting (as per philips Cat. No..WT200CLE20S-6500/4000PSUL60 with LED tube or equivalent model) with LED tube 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	5	Nos.			
6	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.	5	Nos.			
7	Supplying & Fixing of modular type 20Amp A.C. starter switch with GI Box complete recessed in wall.	2	Nos.			

Item No.	Description	Qty	Unit	Rate (Rs.)	Amount (Rs)	Remarks
8	Supply & drawing 20 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor,armoured telephone cable in the existing surface/recessed steel/PVC conduit as required.(Make;- Finolex,Netco or any other reputed manufacturer.	200	Metre			
9	Supply & fixing of 32 mm dia of medium class GI conduit along with accessories in surface/recessed including cutting the wall or road and making good the same in case of recessed conduit as required.	15	Metre			
	XLPE armoured Al. cable: -					
10	Supplying of XLPE insulated and PVC sheathed armoured heavy duty aluminium conductor cable of CC/Universal/POLYCAB make 1.1KV grade as per relevant IS specifications for the following sizes:					
a)	4cx16 sq.mm	50	Metre			
11	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)	50	mt.			
12	Cable Termination: -					
	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.			
13	Providing & Fixing 4mm dia copper wire on surface/recess for loop earthing along with existing surface/recessed conduit/submain wiring/cable as required.	100	Metre			
14	supply & fixing of make modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	15	No.			
15	Supplying and fixing following rating 240 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)	6 A MCB, SP	1	No..			
b)	16 A MCB, SP	18	Nos.			
c)	32 A MCB SP	2	Nos.			
16	Supplying & Fixing 4-pole Sheet Steel enclosure on surface/recess along with 63amp 415V 'C' curve 4-pole MCB complete with connection, testing & Commissioning etc. as required	1	No.			
17	Supplying and fixing of variable timer(National refrigeration make or equivalent make) to run both the AC periodically inside the room with complete connections,testing and commissioning etc. as required.	1	Nos.			

Item No.	Description		Unit	Rate (Rs.)	Amount (Rs)	Remarks
18	Distribution Board - (PDB): Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415Volts on surface/recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor upto the terminal connector/neutral link, earthing etc as required (But without MCB/RCCB/Isolator).					
a)	4 way(4+12) Double Door	1	No.			
19	Supply & fixing of single pair rozzete box for telephone.	1	No.			
20	Supply & fixing of telephone hand set as per cat. No-6390 or technically equivalent model of other approved manufacturer (make -Panasonic TS400SX /Beetel	1	No.			
21	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)	63A Four Pole	1	No.			
22	Supply & fixing of krone connector with stinless steel enclosure for telephone wire connection	1	No.			
	DEDICATED EARTHING					
23	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.	1	set			
24	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.	20	Metre			
25	Providing & fixing earth bus of 50 mm x 5mm copper strip on insulator surface for connections etc. as required.	0.5	Metre			
26	1x16 sq.mm ISI marked,FRLS PVC insulated,single core copper conductor.	10	Metre			
27	Supplying and laying of 32 mm diameter steel armoured fiexible pvc conduit as required	20	Metre			

Item No.	Description		Unit	Rate (Rs.)	Amount (Rs)	Remarks
28	Supplying and fixing of following waysingle pole and neutral ,sheet steel,MCB distribution board 240V, on surface/recesse,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.			
29	Supplying & Fixing following way singlepole and neutral Sheet Steel MCB distribution board,240V ,on surface/recess,complete with tinned copper bus bar,neutral bar earth bar,din bar powder painted including earthing etc. as required (But without MCB/RCCB/Isolator)	1	Nos.			
30	Supplying and fixing 63A,rating, 415V,10KA,"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)	4- pole (VTPN DB INCOMER)	1	No.			
31	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, TP (VTPN DB OUTGOING+UPS Incomer)	2	No..			
b)	63 A MCB, DP (UPS DB INCOMER)	1	Nos.			
C)	32 A MCB DP (M/C INCOMER)	2	Nos.			
32	Supplying and fixing 32A,240 V,SPN Industrial type socket outlet with 2 pole and earth, metal enclosed plug top along with 32A "C" curve single pole miniature circuit breaker in sheet steel enclosure ,on surface or in recess,with chain metal cover for the socket outlet and complete with connections,testing and commissioning etc as required.	1	No..			
	Total:Rs.			TOTAL		
i)	CGST%					
ii)	GST No.					
iii)	SAC No.					
iv)	Enclosed GST registration certificate copy					
	Note:-The quoted rate shall be inclusive of all taxes& duties,levies,cess etc and GST also.Nothing extra will be paid to the Contrctor except the accepted rate.i,ii,iii is mandetory.					