

PROJECT :- Double Story LGSF Structure For School of Pharmaceutical Education &					
BOQ - Electrical Works					
S.No	Description	Unit	Qty	Rate	Amount
1	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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)	4 way Double door	Nos.	2.00		
b)	6 way Double door	Nos.	2.00		
2	Supplying and fixing following rating, four pole, 415 volts, TPN MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	40 AMP	Nos.	2.00		
a)	63 amps	Nos.	2.00		
3	Supplying and fixing 5 amps to 32 amps rating, 240/415 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)	Single pole	Nos.	60.00		
B	SUB-HEAD - II : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed 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.				
a)	Group - B	Point	50.00		
b)	Group - C	Point	40.00		
2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed pvc conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.				
a)	Group - B	Point	36.00		
b)	Group - C	Point	24.00		
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed pvc conduit as required.				
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	450.00		
b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	100.00		
d)	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Metre	50.00		
f)	4 x 10 sq.mm + 2 x 6 sq.mm. earth wire	Metre	30.00		
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in buildings).	Each	18.00		

5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	6.00		
6	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc.as required.				
a)	6 Module (200mmX75mm)	Each	18.00		
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
a)	5/6 A switch	Each	18.00		
b)	3 pin 5/6 A socket outlet	Each	18.00		
c	15/16 A Switch	Each	18.00		
d)	15/16 A Socket outlet	Each	18.00		
6	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	6.00		
C	SUB-HEAD - III; LIGHT FITTINGS & ACCESSORIES				
1	Supplying, installation with hanging support , testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge.(all LED Light Fixures should be covered with minimum 3 Years onsite replacement warranty)				
	FULL GLOW 2X2 LED 36W of make As specified in tender document or approved by architect . Product to be approved by the consultant & JHU before proceeding for SITC.	Nos.	136		
	SITC of 15 W LED commercial type down lighter of make As specified in tender document or approved by architect.Product to be approved by the consultant & JHU before proceeding for SITC.	Nos.	36		
	SITC of 9 W LED commercial type down lighter of make As specified in tender document or approved by architect.Product to be approved by the consultant & JHU before proceeding for SITC.	Nos.	12		
	Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by Architect/EIC. Item also includes making of hole for fixing exhaust in existing brickwall and its repairing wherever required.	Nos.	8		
D	SUB-HEAD - IV; EARTHING				

	Supply, Installtion, Testing & Commissioning of Chemical Earthing of not less than 50MM Dia GI Pipe and minimum 2.5 Mtr length as per technical specifiication complete in all respect	1	Nos		
	Providing and fixing Copper/GI strip as per specification compete including connection to earth electrode revetting/sweating/soldering, burying 15 cms below in all types of soil/rocks etc complete as requiued. . (a) G.I.Strip 25 X 5 mm	30	Mtr.		
E	SUB-HEAD - V; MAIN PANEL				
	MAIN PANEL (TO BE PROCURED FROM APPROVED VENDOR ONLY. THE CONTRACTOR HAS SUBMIT A COPY OF THE CPRI APPROVEL OF THE MANUFACTURE.) The APFC Panel and main LT panel.				
	Design, Fabrication, assembling, supply, erection testing & commissioning of 2 mm thick rust inhibited, sheet steel enclosed, cubicle compartmentaised, dust and vermin proof with rubber gaskets, hinged and lockable doors and powder coated lockable doors and powder coated complete with copper Bus bard, incoming and Outgoing, meters,indicators as specified, The panel being free standing type. The floor mounted panel shall be provided with ISMC mounting channels size 75 mmx40 mmx6 mm).				
	The Construction of panel shall strictly as per technical specifications and as per relevant indian standards All fabrication shall be with CRCA sheet steel with stiffeners and bracing as required An earth bus of 50 mm x5 mm GI strips shall be provided along the width of the panel.				
	INCOMMING- 2 No. 100 Amp TPN MCCB, 2 SETS OF 150 Amp TPN Copper Bus bar, 2 strips properly insulated, (Hot Shrunked with colour coding)				
	Metering				
	Digital multifunction meter to measure , vottage, current frequency etc.Min. size 75cmx75cm				
	1 Set of on (3 nos.) phase LED indicating lamp & toggle switches with HRc fuses.				
	4 pole 100 Amp on load Changeover -1 No.				
	OUTGOING: 2Nos 40 AMPS TPN MCB for Light Points & 2 Nos 63 AMPS TPN MCB for AC DB and Raw Power Points & 2 nos. for EXTERNAL LIGHTING				
	Full Set (a+b)as above	set	1.0		
F	SUB-HEAD - VI; CABLES, MAINS & SUBMAINS				
	Supplying, laying, testing & commissioning of 3.5 C X 70 sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (for Main Supply Tapping Point to Main Panel)	RMT	45.0		

	Supplying, laying, testing & commissioning of 3.5 C X 35sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination accessories, Clamps etc. as required as per specification (for Main Supply Tapping Point to Main Panel)	RMT	45.0		
		TOTAL ELECTRICAL			