

Client: National Law School of India University, Nagarbhavi, Bangalore					
Project: Proposed Classroom Interior Works of New Academic Block, NLSIU					
Description: BOQ for Electrical Works					
Architects: Iris Global					
Sl. No	Item Description	Unit	Qty	Rate	Amount
C	Electrical Works				
	Make: Indo Asian/ Legrand				
	MCB Distribution Boards				
1	Supply, installation, testing and commissioning of the following 415 V, 3 phase factory assembled totally enclosed wall mounting MCB Distribution Board with double door construction as per specification, all necessary hardware and accessories, complete.				
a	8 Way, TPN DB (LIGHTING)				
	Supply	Nos	8		
	Fixing	Nos	8		
	Supply Rate in words:				
	Fixing Rate in words:				
b	8 Way, TPN DB (POWER)				
	Supply	Nos	4		
	Fixing	Nos	4		
	Supply Rate in words:				
	Fixing Rate in words:				
c	4 Way, SPN DB				
	Supply	Nos	RO		
	Fixing	Nos	RO		
	Supply Rate in words:				
	Fixing Rate in words:				
	Make: Indo Asian/ Legrand				
2	Supply, installation, testing and commissioning of the following MCB's / MCCB's / ELCB's				
a	40A 4P MCB				
	Supply	Nos	RO		
	Fixing	Nos	RO		
	Supply Rate in words:				
	Fixing Rate in words:				
b	32A 4P MCB				

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	Supply	Nos	30		
	Fixing	Nos	30		
	Supply Rate in words:				
	Fixing Rate in words:				
c	100A 4P MCCB				
	Supply	Nos	RO		
	Fixing	Nos	RO		
	Supply Rate in words:				
	Fixing Rate in words:				
d	32A DB MCB				
	Supply	Nos	16		
	Fixing	Nos	16		
	Supply Rate in words:				
	Fixing Rate in words:				
e	6/10A SP MCB				
	Supply	Nos	75		
	Fixing	Nos	75		
	Supply Rate in words:				
	Fixing Rate in words:				
f	16/20A SP MCB				
	Supply	Nos	48		
	Fixing	Nos	48		
	Supply Rate in words:				
	Fixing Rate in words:				
	LT Cables				
	Make: Polycab/ Havells				
3	Supply, laying and Installation of the following 1.1 KV / 660V grade, Aluminium/copper conductor PVC insulated armoured PVC sheathed LT power/control cables in excavated trench / cable trays / cleated to the wall complete with all necessary consumables, fixing clamps, etc.				
a	1R X 3.5 Core x 95 Sq.mm Al. Cable XLPE	Mts	60		

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	Supply	Mts	60		
	Laying				
	Supply Rate in words:				
	Fixing Rate in words:				
b	1C x 10 Sq.mm CU Flexible Cable				
	Supply	Mts	RO		
	Laying	Mts	RO		
	Supply Rate in words:				
	Fixing Rate in words:				
	Cable Terminations				
4	Supply, Installation of Cable End Termination using single compression Brass Cable Glands with Earth tags, Tinned Copper lugs, etc.				
a	1R X 3.5 Core x 95 Sq.mm Al. Cable XLPE				
	Supply	Nos	2		
	Installation	Nos	2		
	Supply Rate in words:				
	Installation Rate in words:				
b	1C x 10 Sq.mm CU Flexible Cable				
	Supply	Nos	RO		
	Installation	Nos	RO		
	Supply Rate in words:				
	Installation Rate in words:				
	Make: Havells/Anchor				
	Circuit Wiring				
5	Supply and laying of circuit wiring from MCB DB/ LT Board to light control switch boxes to switch box loops, Power points, using 660 V grade flexible PVC insulated FRLS PVC insulated copper wires in 2mm thk PVC conduit of suitable dia.				
a	2 runs of 2.5 sq.mm + 1 run of 1.5 sq. mm. Cu wires drawn in PVC Conduit.				
	Supply	Mts	9800		
	Laying	Mts	9800		

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	Supply Rate in words:				
	Laying Rate in words:				
b	2 runs of 4.0 sq.mm + 1 run of 2.5 sq. mm. Cu wires drawn in PVC Conduit.				
	Supply	Mts	1200		
	Laying	Mts	1200		
	Supply Rate in words:				
	Laying Rate in words:				
c	4 runs of 4.0 sq.mm + 1 run of 2.5 sq.mm Cu wires drawn in PVC conduit				
	Supply	Mts	2250		
	Laying	Mts	2250		
	Supply Rate in words:				
	Laying Rate in words:				
d	2 Runs of 6.0 sq.mm + 1 run of 4.0 sq.mm Cu wires drawn in PVC conduit				
	Supply	Mts	20		
	Laying	Mts	20		
	Supply Rate in words:				
	Laying Rate in words:				
	Make: Switch: Anchor ROMA, Wiring: Havells)				
	Point Wiring				
6	Supply, laying, wiring and installation of light/ socket/ fan points complete with all wiring materials such as 660V grade PVC insulated wires (2 runs, 1.5sq.mm for phase and neutral and 2.5 sq.mm for earthing) drawn in 2mm thick PVC conduit pipe controlled by 6A piano type switch with all accessories. Rate to be considered for Point wiring not exceeding 7.5 mts from the control switch & Primary point to Secondary point loop not exceeding 3 Mts.				
a	One Light point Controlled by One Switch				
	Supply	Nos	150		
	Installation	Nos	150		
	Supply Rate in words:				

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	Installation Rate in words:				
b	Two Light point Controlled by One Switch				
	Supply	Nos	110		
	Installation	Nos	110		
	Supply Rate in words:				
	Installation Rate in words:				
c	Ceiling fan point controlled by One no. 6A decorative switch and regulator				
	Supply	Nos	102		
	Installation	Nos	102		
	Supply Rate in words:				
	Installation Rate in words:				
	Make: Anchor ROMA				
	Power Outlets				
7	Supply, Installation, Testing and Commissioning of power points by providing following Switches/ Sockets mounted flush to wall using recessed MS boxes with all wiring accessories				
a	1 No. 6A, 3 pin Socket (universal type) with safety shutters controlled by One 6A, Single Pole Switch with MS Box.				
	Supply	Nos	415		
	Installation	Nos	415		
	Supply Rate in words:				
	Installation Rate in words:				
b	3 No. 6A, 3 pin UPS Socket (Universal type) with safety shutters controlled by One 16A, Single Pole Switch with MS Box.				
	Supply	Nos	40		
	Installation	Nos	40		
	Supply Rate in words:				
	Installation Rate in words:				
c	1 No. 16A, 3 pin Socket with safety shutters controlled by One 16A, Single Pole Switch with MS Box.				

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	Supply	Nos	60		
	Installation	Nos	60		
	Supply Rate in words:				
	Installation Rate in words:				
	Make: HAVELLS				
	Luminaires/ Fans				
8	Supply, Installation, testing and commissioning of following type of light fixtures as per drawing and specifications with all accessories such as supporting rods/ frames, anchor fasteners, necessary hardware, etc. The rate shall include for fittings along with transformers, drivers, where required, diffusers, chokes, starter, power factor improvement capacitors, wires, down rods, etc. complete with all accessories to complete the installation as required. The rate shall also include the cost of lamps. The fluorescent lamp shall be Trulite high efficiency lamps. LED lamps shall be of the approved colour temperature.				
a	DESTELLO50LR36WLED857SPMMAWH 36W suspended linear lighting system inclusive of all accessories				
	Supply	Nos	140		
	Installation	Nos	140		
	Supply Rate in words:				
	Installation Rate in words:				
b	Constant current control Dimmable Drive 1 channel suitable for LED modules and compliant with above mentioned luminaire in item 6(a) with dimmable range from 3 to 100%- Make: DALI				
	Supply	Nos	RO		
	Installation	Nos	RO		
	Supply Rate in words:				
	Installation Rate in words:				
c	INTEGRANEODLR18WLED840S 18W LED downlighter				
	Supply	Nos	160		
	Installation	Nos	160		

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	Supply Rate in words:				
	Installation Rate in words:				
d	LHLDAUSADD8U002 Astral 2W LED				
	Supply	Nos	44		
	Installation	Nos	44		
	Supply Rate in words:				
	Installation Rate in words:				
e	LED Flexilon Strip light 24W - LHEHCPP7NN1W024				
	Supply	Rmt	48		
	Installation	Rmt	48		
	Supply Rate in words:				
	Installation Rate in words:				
f	LED Batten 20W 3k polycarbonate body 1150mm - LHEXACP5IN1W020				
	Supply	Nos	RO		
	Installation	Nos	RO		
	Supply Rate in words:				
	Installation Rate in words:				
g	Supply, fixing, installation, testing and commissioning of 56" dia ceiling fan of white/ ivory colour, inclusive of wiring, Ceiling anchor bolts, fan rod, etc. complete. Make: Havells Velocity/ Crompton				
	Supply	Nos	RO		
	Fixing	Nos	RO		
	Supply Rate in words:				
	Fixing Rate in words:				
g	Supply, fixing, installation, testing and commissioning of 48" dia ceiling fan of white/ ivory colour, inclusive of wiring, Ceiling anchor bolts, fan rod, etc. complete. Make: Havells XP 390/ Crompton				
	Supply	Nos	102		
	Fixing	Nos	102		

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	Supply Rate in words:				
	Fixing Rate in words:				
	Make: VIP/ Modi				
9	PVC casing/ Conduits				
a	Supply and fixing of PVC 50mm wide casing with cover for laying of electrical wires/ network cables	Mts	RO		
	Rate in words:				
b	Supply and fixing of PVC 25mm wide casing with cover for laying of electrical wires/ network cables	Mts	RO		
	Rate in words:				
c	Supply and fixing of 25 mm Dia, 2 mm thick, PVC conduit with all necessary accessories like bends, collars etc. (Make: VIP)	Mts	7300		
	Rate in words:				
d	Supply and fixing of 32 mm Dia, 2 mm thick, PVC conduit with all necessary accessories like bends, collars etc. (Make: VIP)	Mts	1500		
	Rate in words:				
e	Supply and fixing of 40 mm Dia, 2 mm thick, PVC conduit with all necessary accessories like bends, collars etc. (Make: VIP)	Mts	RO		
	Rate in words:				
10	Earthing				
a	Providing, installation, testing and commissioning of G.I Pipe earthing station including excavation, back filling, 40mm G.I pipe of 2.5m long, construction, inspection chamber, chamber cover [C.I], disconnecting link etc., in conformity with IS 3043. The rate shall include the supply and filling of salt and charcoal.				
	Supply	Nos	RO		
	Installation	Nos	RO		

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Sl. No	Item Description	Unit	Qty	Rate	Amount
	Supply Rate in words:				
	Installation Rate in words:				
b	Providing, installation, testing and commissioning of copper plate earthing station using 600x600x3.15mm copper plates including excavation, back filling, construction of inspection chamber, chamber cover [C.I], disconnecting link etc., in conformity with IS codes, complete.				
	Supply	Nos	RO		
	Installation	Nos	RO		
	Supply Rate in words:				
	Installation Rate in words:				
c	Providing and laying following earthing conductors of G.I / copper strips including necessary accessories. The rate shall include all supports, accessories and hardware necessary for proper installation.				
i	25 x 6 mm Copper strip				
	Supply	Mts	RO		
	Installation	Mts	RO		
	Supply Rate in words:				
	Installation Rate in words:				
ii	25 x 6 mm GI strip				
	Supply	Mts	RO		
	Installation	Mts	RO		
	Supply Rate in words:				
	Installation Rate in words:				
iii	8 SWG GI wire				
	Supply	Mts	RO		
	Installation	Mts	RO		
	Supply Rate in words:				
	Installation Rate in words:				
	MS Perforated Cable Tray				

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11	Fabricating and installing following size of MS slotted/perforated cable tray made out of suitable type of angles / sheets, including accessories as required and suspended from the ceiling with suitable suspenders, anchor fasteners, inclusive of a coat of metal primer & two coats of enamel paint of approved make and shade, complete.				
a	300 mm wide cable tray	Mts	348		
	Rate in words:				
	Wi Fi Router				
12	Supply, Installation and testing of Dlink DIR 816 wireless AC 750 Mbps Router	Nos	RO		
	Rate in words:				
	Make: DLINK				
13	Supply, Laying, termination, Connecting, testing and commissioning of CAT 6 UTP cable for data in existing conduit/ raceway in ceiling/ wall/ cable tray with all required accessories				
	Supply	Mts	800		
	Laying	Mts	800		
	Supply Rate in words:				
	Laying Rate in words:				
	Total for Electrical Works				
	Amount in words:				

Note:

- 1 Rates to be inclusive of providing 3 sets of As Built printed drawings as well as soft copy of As Built drawings upon completion and handover.
- 2 Rates shall be inclusive of ladders, H Frames, Scaffolding, etc. wherever required.