

<b>Project</b>	Internal Electrification			<b>Date</b>	21.03.2025
<b>Area</b>	IIT Bombay - Main Building - Internal				
<b>Item No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
	<b>Removal Work</b>				
1.0	Removing of Existing Power / light / Data / telephone / BMS Point Wiring, Circuit wiring ,all type of Cables,Switch + /or / and Socket Boxes,MCB DBs,Fuse DBs,CableTerminations,Light fixtures,Ceiling Fans,Exhaust Fans etc. with proper care & and handing over the Cables,,MCB DBs,Fuse DBs,Light fixtures,Ceiling Fans,Exhaust Fans etc. same to client at scrap yard / Stores or other location with List of Materials Returned.Contractors take out balance scrap & shall offer rates for scrap purchase.Also the acknowledged copy IIT official along with Running Bil will be submitted for balance return of materials work to be carried	1.00	Job		-
<b>2.0</b>	<b><u>Distribution Boards</u></b>				
	S/I/T/C of Ready Made/Factory Fabricated, Sheet Steel,Powder Coated,Dust and Vermin proof and Double hinged door,IP-43, MCB type Lighting/Power Distribution Board (LDB/PDB) suitable for Surface Mounting on Wall/Beam,with all internals materials such as DIN rails,Neutral Link,interconnected wiring complete with Earthing Link with following switchgear.The Contractor shall includes all necessary hardware such as wooden screws/Anchor Fastner to install the DBs/Angle Iron Frame Work				
<b>2.1</b>	<b>Automatic Floor Lighting Panel</b>				
	Factory Fabricated Lighting Panel as per attached BOQ (sheet attached seperately)	5.00	Nos		-
<b>2.2</b>	<b>Power DB # GF,FF,SF,TF,LGF</b>				
	<b>Incomer</b>				
	63A,FP,100mA,RCBO - 1No.				
	<b>Outgoing</b>				
	10A/16A/20A,10KA,SP MCB - 12Nos.				
	Full Set as above	5.00	Nos		-

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3.0	<b><u>Cables</u></b>				
3.1	S/I/T/C of 1.1KV Grade,Armoured,Aluminium / Copper conductor,PVC insulated, Multi Core, PVC Tape, Wrapped Inner sheathed/Extruded innersheath, GI strip/ wire armoured and overall extruded PVC sheathed confirming to IS: 1554, laid on wall / ceiling / Cable Tray using AL clamps of 2 mm thick as per the route shown at site and further as directed by consultant/client for following sizes				
3.1.a	4C x 25 mm2 AYWY Cable (LDB)	600.00	M		-
3.1.b	4C x 35 mm2 AYWY Cable (PDB For POWER)	600.00	M		-
4	<b><u>Cable Termination</u></b>				
4.1	S & Termination of Cable End Termination of above mentioned cables by using FLANGED type Single Compression Brass Glands WITH Earthing Ring, Crimping type Copper Lugs for Copper Conductor & Aluminium Lugs for Aluminium Conductor, Insulation Tape etc. as required complete with earthing of glands etc.				
4.1.a	4C x 25 mm2 AYWY Cable (LDB)	10.00	No.		-
4.1.b	4C x 35 mm2 AYWY Cable (PDB For POWER)	10.00	No.		-

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5	<b>Surface/Concealed Wiring</b>				
	S/I/T/C of Concealed/Surface wiring using <b>FRLS Grade 1100 V</b> ,PVC insulated wires (with R,Y,B (Ph),Black (N),Yellow-Green (E) color code) pulled through <b>atleast 25 mm (minimum)</b> heavy gauge <b>PVC LHSFT (MMS) White Colour conduit</b> with accessories like Tee,Bend,Junction Box,Coupling,Saddle,Spacer,Pull wire & Ceiling Rose laid on ceiling/wall/below floor and through PVC casing capping for wall from relevent distribution board to switch board & from Switch Board to Light/Fan/Power Point.The Chasing,drilling etc of wall/beam if required shall be part of point wiring & shall not be paid extra. .The Civil work also includes making the wall OK with Plaster & shall not be paid extra.The contractor shall offer Modular Switch,Socket,Box & Plate. <b>Contractor must visit the site for better understanding of layout.</b>				
`5	<b>Lighting Wiring</b>				
`5.1	<b>Conduit Wiring</b>				
	S/I/T/C of FR PVC Conduit wiring on Concealed/Surface i.e. on Slab/Wall for Corridor Lighting with following size of PVC Conduit & required assessories i.e. Saddle,Spacer,Tee,Bend,Junction Boxes etc. with FRLS wire 1100 V Grade of of following Runs & Size. The Scope shall also include the Termination/ Connection of Wire at Fitting & Panel End with lugs.				
`5.1.1	PVC MMS FR Conduit with 2W x 2.5 mm2 (P & N) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	1,500.00	M		-
`5.1.2	PVC MMS FR Conduit with 4W x 2.5 mm2 (P & N) + 2 x 1.5mm2 ( E ) (3 Phase Wiring for ERCO Trunking LGF & GF Lobby )	200.00	M		-
`5.2	<b>Casing Capping Wiring</b>				
	S/I/T/C of PVC Casing Capping wiring on Surface i.e. on Slab/Wall for Corridor Lighting with following size of FR PVC Casing & required assessories i.e. Saddle,Spacer,Coupler, Tee,Bend,Junction Boxes etc. with FRLS wire of Grade of 1100V following Runs & Size				
`5.2.1	PVC FR Casing Capping with 2W x 2.5 mm2 (P & N) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	500.00	M		-
`5.2.2	PVC FR Casing Capping with 4W x 2.5 mm2 (P & N) + 2 x 1.5mm2 ( E ) (Three Phase Wiring for ERCO Trunking)	150.00	M		-

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<b>6</b>	<b><u>Emergency Lighting Wiring</u></b>				
	<b><u>Conduiting</u></b>				
`6.1	S/I/T/C of FR PVC Conduit wiring on Surface i.e. on Slab/Wall/Cable Tray for Corridor Lighting with following size of PVC Conduit & required assessories i.e. Saddle,Spacer,Tee,Bend,Junction Boxes etc. with FRLS wire 1100 Grade of of following Runs & Size. The Scope shall also include the Termination/ Connection of Wire at Fitting & Panel End.				
`6.1.1	PVC MMS FR Conduit with 2W x 1.5 mm2 ( P & N ) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	770.00	M		-
	<b><u>Casing Capping Wiring</u></b>				
`6.2	S/I/T/C of PVC Casing Capping wiring on Surface i.e. on Slab/Wall/Cable Tray for Corridor Lighting with following size of FR PVC Casing & required assessories i.e. Saddle,Spacer,Coupler, Tee,Bend,Junction Boxes etc. with FRLS wire of Grade of 1100V following Runs & Size				
`6.2.1	PVC FR Casing Capping with 2W x 1.5 mm2 ( P & N ) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	100.00	M		-

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7	<b><u>Power Wiring</u></b>				
7.1	<b><u>Conduiting</u></b>				
`7.1.1	S/I/T/C of FR PVC Conduit wiring on Surface i.e. on Slab/Wall for Corridor Lighting with following size of PVC Conduit & required assessories i.e. Saddle,Spacer,Tee,Bend,Junction Boxes etc. with FRLS wire 1100 Grade of of following Runs & Size. The Scope shall also include the Termination/ Connection of Wire at Fitting & Panel End.				
`7.1.2	PVC MMS FR Conduit with 2W x 2.5 mm2 ( P & N ) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	1,250.00	M		-
`7.1.3	PVC MMS FR Conduit with 4W x 2.5 mm2 ( P & N ) + 2 x 1.5mm2 ( E ) (3 Phase Wiring for ERCO Trunking)	200.00	M		-
7.2	<b><u>Casing Capping Wiring</u></b>				
`7.2.1	S/I/T/C of PVC Casing Capping wiring on Surface i.e. on Slab/Wall for Corridor Lighting with following size of FR PVC Casing & required assessories i.e. Saddle,Spacer,Coupler, Tee,Bend,Junction Boxes etc. with FRLS wire of Grade of 1100V following Runs & Size				
`7.2.2	PVC FR Casing Capping with 2W x 2.5 mm2 ( P & N ) + 1 x 1.5mm2 ( E ) (Single Phase Wiring)	250.00	M		-
`7.2.3	PVC FR Casing Capping with 4W x 2.5 mm2 ( P & N ) + 2 x 1.5mm2 ( E ) (Three Phase Wiring for ERCO Trunking)	150.00	M		-
7.3	S/I/T/C of Following Switch Socket Items suitable on Surface/Cocealed application with Metal (GI) / PVC Box with Modular Plate & Switch/Socket/Telephone Socket/Data Socket. The Rate will include Chasing of Wall (if required) & making it good after Box Fixing with Proper Treatment of chased wall.				
`7.3.1	Modular Box + Plate + 16A,SP,Swich - 1 Nos. (Lighting Switch)	5.00	Nos.		-
`7.3.2	Modular Box + Plate + 16A,SP,Swich - 1 Nos. + 2M 6/16A, 5 Pin Socket 2 Nos. (on item 1 - Lighting Switch Board)	5.00	Nos.		-
`7.3.3	Modular Box + Plate + 16A,SP,Swich - 2 Nos. + 2M 6/16A, 5 Pin Socket. 1 Switch for Lighting & 1 Switch + Socket for Socket Application (WS4)	65.00	Nos.		-
`7.3.4	Modular Box with Plate for 6A,SP,Swich - 2 Nos. + 2M 6/16A, 5 Pin Socket 2 Nos.	50.00	Nos.		-
8	<b><u>Junction Box</u></b>				

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8.1	S/I/T/C Powder Coated MS Junction Box with Clip On Terminals with PG11 type Glands for 3 Phase Wiring	3.00	Nos.		-

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9	<b>Earthing</b>				
9.1	S/I/T/C of Earthing Pit made from 100mm Dia x 3000 mm Long Cast Iron Pipe & filled with 50 KG of Charcoal & Salt each. Earthing clamp made from 50 x 6 mm HDGI Strip to connect. Chamber made of FRP suitable for 450 x 450 mm with Heavy Duty FRP Chamber Cover of 5000 Kg shall be provided.	4.00	No.		-
9.2	S/I/T/C of wall mounted 12 SWG Powder Coated MS Fabricated Box with Earthing Busbar made from 32 x 6 mm GI Strip mounted on Insulators. The box shall be fixed on wall with Anchor Fastners. The Busbar shall have 6 Nos of Nutbolts.	4.00	No.		-
9.3	S/I/T/C of following size of HDGI Earth Strip on wall along with drilling/welding/painting with required Hardware.				
`9.3.1	25 x 6 mm (Panel Incomer)	150.00	M		-
`9.3.2	25 x 3 mm (For LDB, PDB)	700.00	M		-
`9.3.3	8 SWG GI Wire	200.00	M		-
`9.3.4	4 mm <sup>2</sup> Copper Wire	100.00	M		-
`9.3.5	2.5 mm <sup>2</sup> Copper Wire	100.00	M		-
`9.3.6	1.5 mm <sup>2</sup> Copper Wire	100.00	M		-

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10	S/I/T/C of following LED Light Fitting (with Lamp) & mounting arrangement required install fitting like GI Threaded Rod/Hook/Nut/Bolt/Down Rod/Clamps/Ball Socket & 3C x 1.5mm <sup>2</sup> flexible wire from 3 Part ceiling rose to fitting. 3 Part Ceiling Rose & 3C x 1.5mm <sup>2</sup> Wire cost is included in the cost of fitting.LED Fitting shall be provided with <b><u>ON SITE warranty 60 months</u></b> by Light Fitting Manufacturer from date of Supply)				
	<b>Light fitting General Compliances</b>				
	IEC 60598 Luminaires – Part 1+2: general requirements, specific requirements and tests				
	IEC 62031 LED modules for general lighting – safety requirements				
	IEC 62471 Photobiological safety of lamps and lamp systems				
	EN13032-4 Light and lighting – measurement and representation of photometric data				
	CIE 13 Method of measuring and specifying colour rendering properties of light sources				
10.1	<b>Corridor,Staircase,Lobby &amp; Display Area Lighting</b>				
	Surface-mounted / Pendant luminaire with LED (Light Emitting Diode) system power: <b>14W/ 4feet</b> , 230V constant current driver, 70% of luminous flux after 50,000 operating hours,direct light emission, luminaire housing in aluminium, polyester powdered White coloured coat applied over a 5 stage pre-treatment, Opal diffuser,integral Electronic control gear (application - Corridor & Staircase) Loop in Loop Terminal will be provided				
	Protection class I, IP65,Ø = 85mm, H = 85mm				
	<b>Manufactuer - Regent Lighting Model - Imperia</b>				
	<b>TYPE - CL</b>				
	Housing corrosion resistant extruded linear heavy duty Aluminum housing having Semi Circular section design with inbuilt design for snap fit diffuser and end plate fixation by loss proof screws and ingress protection design white non yellowing, non chipping , non cracking powder coating finish				
	SMD LED's CRI>80, R9 >50,SDCM<3,CCT 4000K, RG 2 compliance; LM 80 - L80 >100000 hrs, TM 30 Rf: 91 / Rg: 100 (NO COB permitted)				
	PMMA opal, non glaring, uniform smooth finish extruded uv stabilized snap fit diffuser				
	integral non dimmable 230/240V AC 50 Hz BIS certified Helvar Driver prewired with weatherproof cable gland for loop in loop out feature for thorough wiring				
	end plate die cast aluminum white powder coated finish and colour same as of the housing				



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	internal wiring from PCB's to LED driver fire resistant and fibre glass sleeved arrangement till the connector block for incoming round white PVC outer sheath, copper stranded 3x1.5mm <sup>2</sup> unarmoured flexible IS 694 grade power cable				
	length 1.2 to 3 m in single length as per site requirements and light fitting circular diameter of 85mm				
	fixing bracket (included) shall be as per the extruded profiles provided in the housing as per site conditions and as approved by the MEP Consultant and the Architect				
	Ingress Protection IP 65, IK 03, Class I, design compliance for humidity entry and UV resistant materials and components LM 79, BIS and IP test certificate needed from independent third party NABL listed laboratory				

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`10.1.1	Length - 4212 MM - 48W - 5560 lumens (for Corridor)	16.00	Nos.		-
`10.1.2	Length - 3912 MM 45 W - 5160 lumens (for Corridor)	4.00	Nos.		-
`10.1.3	Length - 2306 MM 27W - 3045 lumens (for Corridor)	105.00	Nos.		-
`10.1.4	Length - 5412 MM 62W 7145 lumens (for Corridor)	4.00	Nos.		-
`10.1.5	Length - 1106 MM 13W 1460 Lumens (for Corridor)	8.00	Nos.		-
`10.1.6	Length 1200 MM 32W (for Staircase)	24.00	Nos.		-

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10.2	<p><b>Make</b> DELTA LIGHTS, <b>Model-</b> FRAX M 92747 A</p> <p><b>Housing</b> corrosion resistant Circular die cast aluminum for light source, driver and adjustable Circular base mounting head</p> <p>SMD LED's <b>CRI&gt;90, R9 &gt;50,SDCM&lt;2,CCT 3000K</b>, RG 2 compliance; LM 80 - L80 &gt;100000 hrs, TM 30 Rf: 91 / Rg: 100 <b>(NO COB permitted)</b></p> <p>Optical lens primary individual collimator narrow 14 deg and secondary common wide beam micro lens 47deg wide beam</p> <p>front Cover 8 mm clear Glass cover sealed</p> <p>integral LED Driver 230/240V AC 50 hz , non dimmable 24W, Class I, ENEC,BIS and CE certification; <b>flicker free and suitable for video recording compliances,</b></p> <p><b>Installation:-</b> Surface adjustable down light base vertical 0° to 120° swiveling, 360° rotatable for floor or column or beams with no wire and cables visible design in the spot lights</p> <p><b>Ingress Protection</b> IP 65, IK 08, Class I, Thermal protection from overheating and D lock design for humidity entry and UV resistant materials and components</p> <p><b>Weight and dimensions</b> - 2.4kgs and height 125 to 150 mm as per mounting orientation and swivel and diameter of the flood light housing 155mm NO visible hardware in the spotlight,installation, assembly or external product or mounting allowed</p> <p><b>Finish of the Fitting-</b> Powder coating WHITE UV resistant non peeling / chipping or cracking or fading required</p> <p><b>Application Area :-</b> LGF,GF,FF,SF &amp; TF (Lobby Area)</p> <p><b>Type - D1</b></p>	47.00	Nos.		-

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10.3	<b>Make DELTA LIGHTS, Model- FRAX M 927 <u>WALLWASH A</u></b> same as above but with <u>Wallwash optics</u> <u>Housing</u> corrosion resistant Circular die cast aluminum for light source, driver and adjustable Circular base mounting head SMD LED's <b>CRI&gt;90, R9 &gt;50,SDCM&lt;2,CCT 3000K</b> , RG 2 compliance; LM 80 - L80 >100000 hrs, TM 30 Rf: 91 / Rg: 100 ( <b>NO COB permitted</b> ) Optical lens suitable for <b>Wall Wash</b> front Cover 8 mm clear Glass cover sealed integral LED Driver 230/240V AC 50 hz , non dimmable 24W, Class I, ENEC,BIS and CE certification; <u><b>flicker free and suitable for video recording compliances,</b></u> <u><b>Installation:-</b></u> Surface adjustable down light base vertical 0° to 120° swiveling, 360° rotatable for floor or column or beams with no wire and cables visible design in the spot lights <b>Ingress Protection</b> IP 65, IK 08, Class I, Thermal protection from overheating and D lock design for humidity entry and UV resistant materials and components <b>Weight and dimensions</b> - 2.4kgs and height 125 to 150 mm as per mounting orientation and swivel and diameter of the flood light housing 155mm NO visible hardware in the spotlight,installation, assembly or external product or mounting allowed <b>Finish of the Fitting-</b> Powder coating WHITE UV resistant non peeling / chipping or cracking or fading required <b>Application Area :-</b> LGF (Lobby Area Stone Wall Application Wall Wash) <b>Type - D2</b>	6.00	Nos.		-

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10.4	<b>Make Delta Lights</b>				
	<b>Model - FOX W 83035</b>				
	<b>Housing</b> :- corrosion resistant Circular cylindrical die cast aluminum light source, driver and fixed base for wall / column mounting	-	Nos.		-
	<b>LED's</b> :- CRI>80, SDCM<2,CCT 3000K, RG 2 compliance; LM 80 - L80 >100000 hrs				
	<b>Optical</b> medium beam lens 35 deg for down light				
	front Cover 3 mm clear Glass cover in die cast aluminum ring				
	integral LED Driver 230/240V AC 50 hz , non dimmable 8W, Class I, ENEC,BIS and CE certification; flicker free and suitable for video recording compliances,				
	<b>installation</b> :- Surface Column or Beams with no wire and cables visible design in the spot lights				
	<b>Ingress Protection</b> IP 65, IK 03, Class I, design for humidity entry and UV resistant materials and components				
	Weight and dimensions - 0.6 kgs and height 125 mm and diameter of the housing 55mm, NO visible hardware in the spotlight,installation, assembly or external product or mounting allowed				
	Finish - Powder coating WHITE UV resistant non peeling / chipping or cracking or fading required				

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10.5	<b>Make ERCO</b> Spot light Cylindrical cast aluminum light head having polymer material rotatable adapter SMD LEDs's high power LED CCT <b>3500K</b> , CRI > 92, SDCM < 1.5, L90 ≤100000h, L90/B10 ≤50000h, RG 2 (NO COB permitted) Polymer collimator lens for light beam control and defination and Shpereiolit optical lens non yellowing type also to restrict direct entry of dust particles to the light head TLA (Temporal Light Artefacts) SVM ≤ 0.1; PstLM ≤ 1 integral 20W LED driver with in built rotary control for brightness regulation, flicker free and suitable for video recording compliances vertical tilt 0-270 and rotatable 360deg and suitable for 3-phase electrical adapter for ERCO 220-240V surface mounted Track Weight 0.68kg and dimensions width x height 140 (light head dia 90mm) x170mm Protection Class II, CE, ENEC compliances <b>Catlogue No. :- Optec Spot light A9006305</b> <b>Location - LGF - Hall of Fame Near Lift Area Type - E1</b>	8.00	Nos.		-
10.6	<b>Make ERCO</b> Spot light Cylindrical cast aluminum light head having polymer material rotatable adapter SMD LEDs's high power LED CCT <b>3500K</b> , CRI > 92, SDCM < 1.5, L90 ≤100000h, L90/B10 ≤50000h, RG 2 (NO COB permitted) Polymer collimator lens for light beam control and defination and Shpereiolit optical lens non yellowing type also to restrict direct entry of dust particles to the light head TLA (Temporal Light Artefacts) SVM ≤ 0.1; PstLM ≤ 1 integral 20W LED driver with in built rotary control for brightness regulation, flicker free and suitable for video recording compliances vertical tilt 0-270 and rotatable 360deg and suitable for 3-phase electrical adapter for ERCO 220-240V surface mounted Track Weight 0.68kg and dimensions width x height 140 (light head dia 90mm) x170mm Protection Class II, CE, ENEC compliances <b>Catlogue No. :- A9002593</b> <b>Location - GF - Display Area Type - E2</b>	6.00	Nos.		-

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10.7	<b><u>Tracks &amp; Accessories</u></b>				
`10.7.1	ERCO Make Surface Mounted 3m, 3 circuit track suitable for ceiling mounting made of extruded aluminum powder coated white RAL 9002 finish and with electrical solid copper wires for 3 Phase electrical connections for Track Spot lights of ERCO Product Code 78343 <b>Location LGF &amp; GF</b>	15.00			-
`10.7.2	Erco Make Electrical Cconnector 3 circuit track finish white RAL 9002 Product Code 79300 <b>Location LGF &amp; GF</b>	5.00			-
`10.7.3	Erco make end plate 3 circuit track finish white RAL 9002 Product Code 79302 <b>Location LGF &amp; GF</b>	5.00			-

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10.8	<b><u>Emergency Lights for Corridor</u></b>				
10.8.1	Emergency Exit Light of Prolite make to Provides illumination on normal mains failure of power supply and the same LEDs continues to provide illumination during mains failure on self contained battery source. ON resumption of mains supply, the LEDs switches back to the mains automatically & simultaneously starts recharging the battery to the required level.Maintained. As per IS - 10322, Ingress protection - IP65, Housing - Moulded ABS , White in Colour.diffuser cum message panel : V-shape, 2mm , milky acrylic with cad design vinyl Pased on it.Input (v) : ~ 230 Volts, 50 Hz; ±10%., LED - Multiple LEDs., Led Make   GMR Light, BridgeLux, Edison, Osram., Mains Connector 5 A, 250 Volts, PCB Mount with electrical grade., Battery type - ithium-ion Rechargeable battery, Duration - 180 minutes back up; ±10%.,Charging type - Constant Current Charger., Recharging cycle 16 to 24 hours recharging period., Mounting type surface mounting., Weight (kg) 2 Kg. Approx., Application Domestic & Commercial purpose, corridors of hotels,Battery rooms, staircases, underground parking.CE/ROHS/BIS Certified, Glow wire tested upto 850°C With Accessories	32.00	Nos		-
	Indication Facia - Fascia E001,Fascia E035,Fascia E051,Fascia E054,Fascia E035 Without Arrow				
	All mounting Accessorties shall be provided by luminary manufacturer				



<b>Project</b>	Internal Electrification			<b>Date</b>	21.03.2025
<b>Area</b>	IIT Bombay - Main Building - Internal				
<b>Item No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
10.8.2	<b><u>Emergency Lights (Staircase Mid Landing Area)</u></b>				
	SELF CONTAINED RECHARGEABLE EMERGENCY LIGHT 6W LED, WITH 3 HRS. BATTERY BACKUP	30.00	Nos		-
	Application: Automatically Switches-ON mains power failure and provides illumination on battery source for specified duration, after which the battery gets automatically cutoff, to facilitate quick recharge on resumption of main supply. Once the battery is totally charged it automatically slides into trickle charge to constantly retain the charge and be ready for immediate use. Non Maintained				
	Technical Specifications : As per IS - 10322, Ingress protection - IP65, Housing - Moulded ABS , White in Colour.diffuser: Molded Polystyrene, Opal reeded finish.Input (v) : ~ 230 Volts, 50 Hz; ±10%., LED - Multiple LEDs., Led Make   Edison, Osram, Lustrous, Mains Connector 5 A, 250 Volts, Battery type -Ni-CD/Ni-Mh rechargeable., Duration - 180 minutes back up; ±10%.,Charging type - Constant Current Charger., Recharging cycle 16 to 24 hours recharging period., Mounting type surface mounting., Weight (kg) 2 Kg. Approx.,Indications - Red LED "ON" indicates charging. Application Domestic & Commercial purpose, corridors of hotels,Battery rooms, staircases, underground parking. CE/ROHS/BIS Certified, Glow wire tested upto 850°C With Accessories				
11	S/I/T/C of Heavy Duty PVC Conduit with all necessary hardware & accessories like Tee,Bend,Junction Box to be installed in coordination with Civil Contractor & Furniture Contractor for Concealed or Surface Application.The scope includes Cutting,Fixing,making Holes etc as per site condition. Per Phase one conduit will be used.				
11.a	20 mm PVC Conduit	100.00	M		-
11.b	25 mm PVC Conduit	100.00	M		-
11.c	32 mm PVC Conduit	100.00	M		-
11.d	40 mm PVC Conduit	100.00	M		-
11.e	25mm PVC Flexible Pipe	100.00	M		-
11.f	32mm PVC Flexible Pipe	100.00	M		-
11.g	40mm PVC Flexible Pipe	100.00	M		-

<b>Project</b>	Internal Electrification			<b>Date</b>	21.03.2025
<b>Area</b>	IIT Bombay - Main Building - Internal				
<b>Item No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
12	S & I of PVC Casing Capping with all necessary hardware & accessories like Tee,Bend,Junction Box.				
12.1	25 mm Medium Duty	100.00	M		-
12.2	50 mm Medium Duty	100.00	M		-
<b>13.0</b>	<b>Cable Tray &amp; Fabrication</b>				
13.1	Supply & Laying of <b>Hot Dipped GI Perforated Cable tray</b> with Tee/Bend/Off Set/ Elbow of following size with <b>Long Coupler</b> & Hardware. The Cable Tray will be Painted with Synthetic Enamel Painted with Choice of Colour as per site condition.				
13.2	300 (w) x 50 (H)x 2 mm (thick)	100.00	M		-
13.3	35 x 15 mm Pre Galanised C Chanel	25.00	M		-
13.4	8mm Threaded Rods with Fastners, hardware & Nut Bolts	150.00	M		-
13.5	Bullet Type Threaded Fastner (for Threaded Rod)	100.00	Nos.		-
<b>14.0</b>	Supply & Fabrication of any kind of MS Steel incuding Angle,chanel,flat, plate, rod....with Two Coats of Synthetic Enamel Paint + Red Oxide for Light Fitting,Cable Tray & Supporting.	200.00	KG		-
`14.1	Supply & Fixing of Anchor Fastner of following Size for Fixing of MS Steel Fabrication				
`14.2	75 x 10 mm Pin Type	50.00	Nos.		-
`14.3	75 x 8 mm Pin Type	50.00	Nos.		-

<b>Project</b>	Internal Electrification			<b>Date</b>	21.03.2025
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<b>Item No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>15</b>	S & Laying of following size 1100 V, FRLS wire in Conduit/Casing Capping as per Client's instruction				
15.1	4 mm2 Copper Wire	300.00	M		-
15.2	2.5 mm2 Copper Wire	300.00	M		-
15.3	1.5 mm2 Copper Wire	300.00	M		-
<b>16</b>	<b>Thermography Services</b>				
	As per IIT Norms Defect Liability Period shall be 3 Years from date of completion for healthy & satisfactory services of Installation. The Contractor shall carry following verification & rectify the defects found in the report free cost.				
	Carrying Thermography of Installation from Testing Agency (Third Party Only) & providing the Detailed Report of the testing agency in triplicate.				
	If Contractor donot provide the Report the retention amount will not be released	1.00	Job		-
	<b>Total</b>				-
	<b>add</b>	<b>GST</b>	<b>18%</b>		-
	<b>Total with GST</b>				-
	<b>Notes</b>				
1	Bidder will provide TDS duly signed by Manufacturer of Light Fittings along with Technical offer, without TDS the offer will be considered as invalid & Bidder will be rejected.				
2	Contractor cannot carry two phase wiring in same conduit. Single Phase Wiring & Three Phase wiring with Earthing is allowed in respective conduit.				
3	Colour of Conduit will be decided by Architect / PMC / Client as per site condition & finishes				
4	Contractor shall use only one make & one brand Switch Socket for all application.TWO brand/make will not acceptable.				
5	IIT has right select any colour of Plate based on Furniture & Interior Colour.				