

<b>SUMMARY</b>					
S.No	DESCRIPTION				Amount In RS.

A.	External light fixtures			Rs.	₹ -
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B	External Lighting Cable Work			Rs.	₹ -
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C	Earthing System			Rs.	₹ -
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D	External Lighting Panel (Panel Manufactures :- CPRI Approved )			Rs.	₹ -
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E	Civil works for Electrical works			Rs.	₹ -
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<b>TOTAL CARRIED OUT SUMMARY</b>				Rs.	₹ -
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GST Extra on above

Sr.	Item Description	Qty	Unit	Rate	Amount
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<b>SUPPLYING , FIXING TESTING &amp; COMMSIONING</b>					
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1	<p><b>Boundary wall post-top light</b> : Brand - Klite CYRILLA Round 22792, 24 Watt / Translucent <u>or equivalent</u></p> <p>Supply of 24W LED Symmetrical light distribution. Luminaire top cover &amp; bottom frame made of die-cast aluminium with extruded aluminium supporting arm(grade 6063). Clear / Translucent polycarbonate diffuser. Die cast aluminium base suitable for mounting on Ø60mm OD pipe.. All external screws are made of stainless steel. Protection class IP54. Pure polyester powder coated RAL 9004 Black, RAL 7016 Anthracite grey, Graphite grey. Available colour temperature 2700K / 3000K / 4000K / 5700K, Colour rendering index (CRI)&gt;80. LED module with expected service life of at least 100,000 operating hours. Prewired withLED driver and suitable for operating on 240V, 50Hz single phase ac supply. Driver efficiency &gt;85%, Power factor &gt;0.9, THD &lt;10%, Surge protection 4KV. Luminaire dimension : 207mm diameter x 356mm height. CE &amp; BIS Certified. Inhouse NABL accredited lab.</p> <p>complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	33		₹ -
2	<p><b>Ground embedded light</b> : Brand - WIPRO Inground Light - (LI-20) 24 W - 3000K, Mono 30° beam angle <u>or equivalent</u> complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	21		₹ -

**External Development Works**

3	<p><b>Bollard light</b> : Brand - K Lite SLEEK AJNA BOLLARD, 25559, 8W M2, Ø100 x 460 <b><u>or equivalent</u></b></p> <p>Supply of 8W LED Bollard luminaire designed for surface mounted. Symmetrical light distribution. Luminaire made of extruded aluminium alloy (grade 6063), die-cast aluminium of high corrosion resistance and non corrosive stainless steel fasteners. Translucent polycarbonate diffuser. Pressure die cast aluminium mounting plate Ø100.5mm x 4mm thick with 2 elongated holes 15 x 10 to suit M8 bolts at PCD55 for surface mounting on floor. The base plate have a cable entry hole of 70 x 24 mm dia at the center. Single cable entrance via PG7 cable gland. Protection class IP65. Mechanical resistance IK08. Pure polyester powder coated RAL 9004 Black, RAL 7016 Anthracite grey, Graphite grey. Available colour temperature 2700K / 3000K / 4000K / 5700K. Colour rendering index (CRI)&gt;80. LED module with expected service life of at least 60,000 operating hours. Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply. Driver efficiency &gt;80%, Power factor &gt;0.9, THD &lt;10%, Surge protection 2.5KV. Luminaire dimension : 106mm diameter x 565mm height. CE &amp; BIS Certified. Inhouse NABL accredited lab.</p> <p>complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	66		₹ -
4	<p><b>Under water light;</b> LU03 Brand - Wipro LU03-211-030-30; 8W, 3000K, Mono; With diver, IP68 (under water grade) or equivalent.</p> <p>complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	6		₹ -
5	<p><b>Step light</b> : Brand - Wipro Steplight LT51 LT51-750-XXX-57-XX; 7 W, 5700 K or equivalent.</p> <p>complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	18		₹ -
6	<p><b>Tree Light</b> : LED Spike light Wipro gardenia - LF05 Gardenia LED LF 05 (IP 67) LF05-600-036-27-XX 8 W / 36° beam or equivalent.</p> <p>complete with all mounting accessories, supports, fittings etc. complete in all respect as required.</p>	Nos	42		₹ -

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7	<p><b>Pole + Lantren</b> : Brand : Post : Chinar (3.0 mtr height), Dark Grey, Matt finish                  Top lantern : Magudam Midi (24932) 30 W / D1 ø 367 X 647  <b>or equivalent</b>                  Supply &amp; installation of 3000mm pole made of circular mild steel pipe (grade YST 210) 88.9mm Dia x 2.9mm with 2988mm height. Decorative base made of cast iron (322mm Dia x 237mm Height). Pole section welded by certified welders using high end MIG welding processes. PDC aluminium service door 348mm height x 80mm width shall be provided with the company logo embossed on the bottom of the door and safety rope. The control gear tray is prewired with 2.5 Sq.mm cable, 6A SP MCB and 32A Ramanuj stud type 4 way terminal block for loop-in / loop-out arrangement, 5A 2 Way terminal connector and provision for earthing. Any other internal cables and connections shall not be covered in the scope of supply. Mild steel mounting plate 200mm square x 12mm thick steel of grade E250 to IS 2062 : 2011 with 4 elongated holes 38 x 19 to suit M16 x 300mm bolts of grade 4.6 at CC 140. This mounting steel plate along with foundation bolts of suitable size to be used for ensuring firm grouting into the specially designed foundation. All dimension are within +/- 5% tolerance. After fabrication, entire pole is shot blasted (Inhouse). The pole is coated with pure polyester powder coating or epoxy zinc phosphate primer and finished using environmentally stable polyurethane based paint (coating thickness 60-80 microns). The Pole shall be provided with Black &amp; Gold finish as approved by the consultant. complete with all mounting accessories, supports, fittings etc. complete in all respect as required.</p>	Nos	33	₹	-
	<p>Supply of 30W LED pole-top luminaire. Symmetrical light distribution. Luminaire made of spun aluminium, die cast aluminium and non corrosive stainless steel fasteners. Pressure die cast aluminium magudam attachment added for aesthetics. Translucent acrylic diffuser. Die cast aluminium base suitable for mounting on Ø50 mm OD pipe. Pure polyester powder coated RAL 9004 Black &amp; Gold, . Available colour temperature 2700K / 3000K / 4000K / 5700K, Colour rendering index (CRI)&gt;80. SDCM-3 MacAdam. LED module with expected service life of at least 50,000 operating hours. Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply. Driver efficiency &gt;85%, Power factor &gt;0.90, THD &lt;10%, Surge protection 4KV. Luminaire dimension : 367mm diameter x 647mm height. CE &amp; BIS Certified. Inhouse NABL accredited lab. complete with all mounting accessories, supports, fittings etc. complete in all respect as required.</p>				
8	<p><b>UP-Down Wall light</b> : Brand: Wipro - Arcus Wall light - LW35LW35-361-029-30UDX2 X18 (W); 3000 K Up-Down 2-way light <b>or equivalent</b>                  complete with all mounting accessories, supports, fittings etc. complete in all respect as required..</p>	Nos	23	₹	-

**SBI NAINITAL, (U.K.) ELECTRICAL WORKS**  
**External Development Works**

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<b>TOTAL</b>				₹	-

**External Development Works**

<b>2</b>	<b>External Lighting Cable Work</b>				
	Supply and Laying of following size of cables as per specifications mentioned in the Document elsewhere complete as required with Supplying and making terminal joints for the following size of 1.1 KV PVC insulated aluminium / copper conductor armoured cables including providing heavy duty copper terminal crimping lugs, solder, insulation tape, approved sealing epoxy compound, Double compression brass cable glands, effecting gland connections and effecting terminal connections to the equipment; <b>laid in/on ground/cable trench/wall using GI clamps/saddles, including excavation, sand cushioning, protective tiling, backfilling, cable route marker, and termination, as required; all complete as required.</b> All external cables to be laid through trenching, HDPE & NP2 pipe. Cost of trenching, pipe & cushioning will be paid separately.				
a.	4C x 25sq.mm armoured aluminium XLPE cable.	RM	80		₹ -
b.	4C x 16sq.mm armoured aluminium XLPE cable.	RM	180		₹ -
c.	2C x 6.0 sq.mm armoured aluminium XLPE cable.	RM	350		₹ -
d.	3C x 4.0 sq.mm armoured aluminium XLPE cable.	RM	1250		₹ -
e.	3C x 2.5 sqmm FR PVC insulated copper flexible cable.	RM	200		₹ -
	<b>TOTAL</b>				₹ -
<b>3</b>	<b>Earthing System</b>				
1	Supply, Installation, Testing and Commissioning of Maintenance Free Earthing system made up of copper-bonded rod of 10 feet length, 23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill).	Nos.	11		₹ -
	Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required.				
	G.I. Earthing Strip/Wire:				
	Supply & installation, testing and commissioning of following sizes of GI strip/wire clamped to walls, cable trays, cables, in recess (including cost of digging & backfilling) or on surface etc for equipment earthing complete as required including inter connection between length at joints, all fixing accessories saddles, clamps etc. and other fixing hardware material as required for proper installation.				
a.	Copper tape 25mm x 6mm	RM	90		₹ -
b.	Copper wire 8 SWG	RM	520		₹ -
2	Supplying and laying of following size HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.				
a.	50 mm dia (OD-50 mm & ID-38 mm nominal)	RM	400		₹ -
b.	63 mm dia (OD-63 mm & ID-51 mm nominal)	RM	65		₹ -
c.	90 mm dia (OD-90 mm & ID-76 mm nominal)	RM	100		₹ -

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d	120 mm dia (OD-120 mm & ID-103 mm nominal)	RM	150		₹	-
3	Supply, Installation, Testing and Commissioning of Junction Box with Enclosure- IP67 Water Proof complete with all fitting and accessories etc. complete in all respect as required.	Nos.	15		₹	-
<b>TOTAL CARRIED OVER TO SUMMARY</b>					₹	-

4	<b>External Lighting Panel (Panel Manufactures :- CPRI Approved )</b>				
	Design, manufacture, supplying, assembling at site the following cubical type, dead front, 2mm thick sheet steel enclosed, free standing indoor type extendible Main M.V Panel and Sub -distribution Boards with vermin proof hinged lockable doors for each compartment provide bus bar interconnections for incoming and outgoing including feeders earthing and painting and as per specifications.				
	<b>Kindly Note :-</b>				
	LT Panel / PCC shall be of non-draw-out type (as per the 'specific Technical Requirement' / BOQ / SLD), in multi-tiers arrangement with modular and compartmentalized construction. The panel shall be lockable with key-lock (as required).				
	: The LT Panel shall be Indoor, steel metal clad, floor mounted, type conforming to (latest edition). The LT panel shall be CPRI Approved. The panel shall be complete with bus bars suitable for 1.1 kV with fault level with-stand: 25KA current for 1 sec. : All the equipment shall be accessible from the front side of the panel in case of 'Single front panel without adequate back excess. Protection relays, KWH & indicating meters, etc. shall be mounted on front door; when required. : Provided with anti-condensation space heaters, thermostat controlled & back-up protection (MCB) in each bay; rated for 240Volts, single phase, 50Hz. AC. Power supply. The space heater shall be of 100W rating (each). Cubicles shall be provided with LED lamps with control switches and suitable sockets.				
	All MCCBs shall have: : Ics = Icu = 100% for the breakers. : MCCBs upto 200A shall be with thermal - magnetic releases and beyond 200A shall be with micro-processor based releases. : MCCBs shall be with extended rotary handle as required.				
	All meters shall be digital with LED display.				
	All Multifunctional / Energy Meters shall have RS 485 MODBUS RTU half duplex interface for integrating to BMS .				
	All MCCB, shall have over load and short circuit protection .				

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	Type of Approval as instructed by the SBI/ Architect). All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be with heat shrinkable sleeves SMC/ DMC shrouds and busbar supports shall be used. Pad locking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in OFF position.				
	Suitable arrangement shall be made for termination of multiple incoming cables.				
	All kA values indicated shall be lcs breaking capacity				
	GA drawings shall be got approved by <b>Architect / SBI</b>				
1	<b><u>The MAIN EXTERNAL ELECTRICAL LIGHTING (Located at Ground) consists of :-</u></b>				
	<b>Incomer - 1</b>				
	1 No . 63Amps 4P MCCB 16 KA connection on one side and bus bar connection on the other side .				
	<b>BUSBAR SECTIONS</b>				
	100 amps TPN busbar chamber of suitable length with Aluminium busbars. All busbars and interconnections shall be of suitable size Aluminium busbar, current density of aluminium shall not be more than 0.8 Amps/ sq.mm cross sectional area of Bus Bar provide 50% capacity for neutral bus bar. The Bus Bar shall be suitable for max temperature rise of 30°C above ambient of 45°C .				
	<b>INDICATING PANEL</b>				
	3 nos phase indicating lamps(LED type) each backed up with MCB and switch .				
	Intelligent Panel Meter as per specification for all incoming . Provide CT operated dual energy meter with RS 485 port in all outgoing feeders				
	Provide ON/OFF indication lamp in all outgoing MCB Feeder				
	<b>OUTGOING FEEDERS</b>				
	1 No. 40Amps FP MCCB's (10kA) terminals suitable for cable connection on one side and Bus bar connection on other side. <b>(FOR FEEDER PILLAR -1 )</b>				
	1 No. 40Amps FP MCCB's (10kA) terminals suitable for cable connection on one side and Bus bar connection on other side. <b>(FOR FEEDER PILLAR -2 )</b>				

	1 No. 40Amps FP MCCB's (10kA) terminals suitable for cable connection on one side and Bus bar connection on other side.( <b>FOR FEEDER PILLAR -3 )</b>				
	2 Nos. 40Amps 4P MCB's (10kA) with terminals suitable for cable connection on one side and Bus bar connection on other side. ( <b>SPARE</b> )				
	The <b>MAIN EXTERNAL ELECTRICAL LIGHTING Panel - 1</b> FOR as described above as per specifications complete	Set	1		₹ -
<b>B</b>	<b>FEEDER PILLAR - 1 &amp; 2 ( IP 67, WEATHER PROOF &amp; WATER PROOF)</b>				
1	Supply, Installing testing and commissioning of Main Street Light Distribution Board comprising of the following (IP 67):-				
a.	1 no 40 A TPN MCCB as incomer				
b.	1 no 70 A TP Contactor (230 V coil)				
c.	1 no selector switch to select automatic or manual operation				
d.	1 set of ON/OFF push buttons for manual operation				
e.	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)				
f.	20 nos. 6A/10A DP MCB (10 KA) as outgoings				
g.	80 A TPN AL. busbar.				
h.	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.				
i.	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.				
	FEEDER PILLAR PANEL -IP 67 out door type as described above complete as required.	Set	2		₹ -
<b>C</b>	<b>FEEDER PILLAR - 3 ( IP 67, WEATHER PROOF &amp; WATER PROOF)</b>				
1	Supply, Installing testing and commissioning of Main Street Light Distribution Board comprising of the following (IP 67):-				
a.	1 no 40 A TPN MCCB as incomer				
b.	1 no 70 A TP Contactor (230 V coil)				
c.	1 no selector switch to select automatic or manual operation				
d.	1 set of ON/OFF push buttons for manual operation				
e.	1 no L & T timer TSQ -ST (daily dial - 1x 24 Hours)				
f.	10 nos. 6A/10A DP MCB (10 KA) as outgoings				
g.	80 A TPN AL. busbar.				

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h.	All interconnections and wiring as required for automatic ON and OFF operation of the SLDB.				
i.	2 mm thick M.S. sheet metal Cubicle Board as per specifications mentioned elsewhere in the document complete, including earthing as required.				
	FEEDER PILLAR PANEL -IP 67 out door type as described above complete as required.	Set	1		₹ -
	<b>Total (Carried Over to Summary)</b>				₹ -

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<b>5</b>	<b>Civil works for Electrical works</b>				
5.1	<b>SITC of foundation ( for Pole Light )</b> Excavation of earth (of any type) manually / mechanically (if required) of required depth & size (700 X 450 X 450 minimum size) & preparing the light pole base with RCC (1: 2: 4 mix) with 10 dia bar 4 nos (vertical main bar) and stirrup with 8 dia bar (@150 c/c), along with fixing of Rag bolts (supplied by light pole manufacturer) in RCC base; all complte as per design and drawing, as per the location mentioned in drawing.	Nos	33		₹ -
5.2	<b>SITC of foundation ( for Bollard and Spike Light )</b> Excavation of earth (of any type) manually / mechanically (if required) of required depth & size (450 X 300 X 300 minimum size) & preparing the light pole base with RCC (1: 2: 4 mix) with 10 dia bar 4 nos (vertical main bar) and stirrup with 8 dia bar (@150 c/c), along with fixing of Rag bolts (supplied by light pole manufacturer) in RCC base; all complte as per design and drawing, as per the location mentioned in drawing.	Nos	108		₹ -
5.3	<b>Keyword: Excavation Work</b> Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) (including paver removal, PCC removal, stone paving removal or similar work if required) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.	cum	21		₹ -
5.4	<b>Keyword: Backfilling</b> Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating eachdeposited layer by ramming andwatering,lead upto50 andforalllift.	cum	8		₹ -
5.5	<b>Keyword: brickbat</b> Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	sqm	33		₹ -
5.6	<b>Keyword :Sandfilling</b> Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	5		₹ -

5.7	<u>Keyword :PCC</u> Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering- All work up to plinth level (Grade M15 )1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3		₹	-
5.8	<u>Keyword :RCC NP PIPE</u> Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete  300 mm dia. R.C.C. pipe	rmt	70		₹	-
5.9	<u>Keyword : IC Chamber</u> Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:  inside dimensions 455x610 mm and 45 cm deep for single pipe line :  With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8		₹	-
5.10	<u>Making hole</u> Making hole in Stone masonry wall (of any thickness) for pipe fixing, size 300x300mm, including -Cutting and removing bricks to form hole. - Preparing and fixing hole with mortar - Finishing with neat cement - The hole shall be cut carefully to avoid damaging surrounding bricks. - The mortar used for filling the hole shall be of same mix proportion as used for original construction. - The neat cement finish shall be smooth and even.	each	3		₹	-
<b>Total (Carried Over to Summary)</b>					₹	-