

State Bank of India						
Abstract of Cost						
ESTIMATE OF EXTERNAL ELECTRICAL WORK ON BANK'S PLOT AT SECTOR 3, VIDHYADHAR NAGAR, JAIPUR (RAJASTHAN)						
BOQ FOR ELECTRICAL WORK						
S.No	Item Description	Unit	Qty.	Rate	Amount	Remarks
1	Supply, Installation, Testing and Commissioning with end termination by heavy duty lugs of following 1100 volt grade XLPE insulated PVC inner sheathed and FRLS PVC outer sheathed Aluminium conductor Armoured LT cables in trenches, ducts, clamped to wall with suitable clamps, buried in soft soil, including, saddles fixing bolts, connecting testing and commissioning.(Make: Cable- Polycab, RR Kabel, Havells, Finolex.)					
1.1	4 core 6 sq. mm Armoured	RM	150.00			
1.2	3 core 6 sq. mm Armoured	RM	350.00			
1.3	4 core 25 sq. mm Armoured	RM	350.00			
1.4	4 core 4 sq. mm Armoured	RM	300.00			
2	Supply, Installation, Testing and Commissioning of following 1100 volt grade XLPE insulated PVC inner sheathed and FRLS PVC outer sheathed Copper conductor Armoured LT cables in trenches, cable trays, ducts, clamped to wall with suitable clamps, buried in soft soil, including, saddles fixing bolts, connecting testing and commissioning with Cable end terminations, bimettalic crimping lugs(Heavy Duty), double compression Brass glands for Armoured cables as per specification. Make:- Polycab, RR, Havells, Finolex.					
2.1	4 core 2.5 sq. mm. UnArmoured	RM	100.00			
2.2	3 core 1.5 sq. mm. UnArmoured	RM	100.00			
3	Supply and Installation of 5000mm Single Arm Lighting pole made of circular mild steel pipe (grade YST 210) 88.9mm Dia x 2.9mm thick with 3806mm Height. Decorative base made of Gravity Die-cast aluminium (310mm Dia x 562mm Height). The single arm bracket is a split constructed type, Bracket stem made of MS Pipe 88.9mm Dia x 2.9mm thick, emerging from a collar with total height of bracket 632mm. The artistically curved arm made of MS pipe 38.1mm Dia x 2mm thick is firmly welded to the stem on one side closed with plastic cap at open end and facilitates the fitment of luminaire at 600mm from the vertical axis of the bracket stem. 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 MCB and 32A terminal connectors for loop-in / loop-out arrangement. Any other internal cables and connections shall not be covered in the scope of supply. Mild steel mounting plate 280mm Dia x 12mm thick Steel of grade E250 to IS 2062: 2011 with 4 elongated holes 38 x 19 to suit M16 x 500mm bolts of grade 4.6 at PCD 230. The base plate have a cable entry hole as per the base pipe size. 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 zinc rich primer & 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 Graphite grey / Anthracite grey / Black as standard colour options. Make:- Philips,K-Lite, Bajaj, Havells.	EACH	11			

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S.No	Item Description	Unit	Qty.	Rate	Amount	Remarks
4	Supply and Installation of 3000mm Single Arm Lighting pole made of circular mild steel pipe (grade YST 210) 88.9mm Dia x 2.9mm thick with 1806mm Height. Decorative base made of Gravity Die-cast aluminium (310mm Dia x 562mm Height). The single arm bracket is a split constructed type, Bracket stem made of MS Pipe 88.9mm Dia x 2.9mm thick, emerging from a collar with total height of bracket 632mm. The artistically curved arm made of MS pipe 38.1mm Dia x 2mm thick is firmly welded to the stem on one side closed with plastic cap at open end and facilitates the fitment of luminaire at 600mm from the vertical axis of the bracket stem. 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 MCB and 32A terminal connectors for loop-in / loop-out arrangement. Any other internal cables and connections shall not be covered in the scope of supply. Mild steel mounting plate 280mm Dia x 12mm thick Steel of grade E250 to IS 2062: 2011 with 4 elongated holes 38 x 19 to suit M16 x 500mm bolts of grade 4.6 at PCD 230. The base plate have a cable entry hole as per the base pipe size. 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 zinc rich primer & 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 Graphite grey / Anthracite grey / Black as standard colour options. Make:- Philips, K-Lite, Bajaj, Havells.	EACH	16			
5	Supply and Installation of 5000mm Double Arm Lighting pole made of circular mild steel pipe (grade YST 210) 88.9mm Dia x 2.9mm thick with 3806mm Height. Decorative base made of Gravity Die-cast aluminium (310mm Dia x 562mm Height). The double arm bracket is a split constructed type, Bracket system made of MS Pipe 88.9mm Dia x 2.9mm thick, emerging from a collar with total height of bracket 632mm. The artistically curved arm made of MS pipe 38.1mm Dia x 2mm thick is firmly welded to the stem on one side closed with plastic cap at open end and facilitates the fitment of luminaire at 600mm from the vertical axis of the bracket stem. 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 MCB and 32A terminal connectors for loop-in / loop-out arrangement. Any other internal cables and connections shall not be covered in the scope of supply. Mild steel mounting plate 280mm Dia x 12mm thick Steel of grade E250 to IS 2062: 2011 with 4 elongated holes 38 x 19 to suit M16 x 500mm bolts of grade 4.6 at PCD 230. The base plate have a cable entry hole as per the base pipe size. 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 zinc rich primer & 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 Graphite grey / Anthracite grey / Black as standard colour options Make:- Philips, K-Lite, Bajaj, Havells.	Each	8			

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S.No	Item Description	Unit	Qty.	Rate	Amount	Remarks
6	Supply and erection of Galvanized Iron pole with galvanizing done in single dipping (Average coating thickness Minimum 65 Microns) continuously tapered poles having Octagonal / Circular crosssections designed to withstand the maximum wind speed as per IS:875, The pole shaft shall be made from sheet steel (HT Steel Conforming to grade S355JO) and confirming to BSEN 10025 and shall be continuously tapered with single longitudinal welding. There shall not be any circumferential welding. The welding of pole shaft shall be done by Submerged Arc Welding (SAW) process. pole shafts shall be provided with the rigid flange plate of suitable thickness (Fe 410 conforming to IS 226 / IS 2062) with provision for fixing 4 no. foundation bolts, This base plate shall be fillet welded to the pole shaft at two locations i.e. from inside and outside.The octagonal Poles shall have lockable door of approximate 500 mm length at the elevation of 500 mm from the Base plate with bakelite sheet having 6A SP MCB and 16 sqmm stud type connector ( 4 nos) inside the pole at door opening for cable connection of following length and dimension as per table P-01 with base plate and foundation bolt on the Existing cement concrete foundation.All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . Make:- Philips,K-Lite, Bajaj, Havells.					
6.1	5Mtr Height Poles with Octagonal Cross Section	EACH	5			
7	Supply and Fixing of Pole OEM fabricated hot dipped galvanised M.S. Overhang (48.3 X 3.25 mm) with cap (400 x 88.9 / 114.3 x 3.25 mm) over the existing poles. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . Make:- Make:- Philips,K-Lite, Bajaj, Havells.					
7.1	Double arm overhang	EACH	5			
8	Providing and Laying RCC Foundation for Octagonal / Conical Street Light poles, High mast Poles as per Drawing attach at in Tender Document with Following Procedure & All as per pre approved by Engineer in charge. For additional technical parameters of products/work , refer Annexure "A" attached with this BSR . A) Excavation of Pit for Foundation Size upto required depth from Ground level. B) Dressing of Pit and Dry stone pitching 200 mm thick including supply of stones and preparing surface complete. C) Providing and laying in position cement concrete of M-10 grade of 75mm thickness. D) Reinforcement for R.C.C. work with TMT bars including straightening, cutting, bending, placing in position and binding all complete. E) Centring and shuttering including strutting , propping etc. and removal of form work for Footing and Pedestal. F) Providing & Fixing of 2 no. Required Size PLB HDPE Pipe & Foundation Bolt with template as per OEM Recommendations. G) Providing and Laying Reinforce cement Concrete of M-25 grade in Footing and Pedestal including Curing the foundation for 7 days. H) Providing and Fixing Nosing Angle 40 mm x 40 mm x 6mm with 2no. 100 mm long, 10 mm dia. Lugs on each face.					
9	Pole Foundation for Octagonal pole from 3 Mtr. To 6 Mtr	Each	43			

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S.No	Item Description	Unit	Qty.	Rate	Amount	Remarks
10	<b>8Watt LED Bollard Light:-</b> Supplying, installation, Testing & Commissioning of 8W LED bollard luminaire designed for surface mounted. Symmetrical light distribution. Luminaire made of extruded aluminium alloy (grade 6063) with die-cast aluminium components of high corrosion resistance and non corrosive stainless steel fasteners. Translucent polycarbonate diffuser. Pressure die cast aluminium mounting plate Ø100.5 x 4mm thick with 2 elongated holes 15 x 10 to suit M8 bolts at PCD 55 with pure polyester powder coating. The base plate have a cable entry hole of 70 x 24 mm dia at the center. This mounting plate along with foundation bolts of suitable size to be used for ensuring firm grouting into the specially designed foundation. Protection class IP65. Mechanical resistance IK08. Pure polyester powder coated RAL 9004 Black, RAL 9007 Grey aluminium and RAL 7016 Anthracite grey, Graphite grey. Available colour temperature 2700K / 3000K / 4000K / 5700K. Colour rendering index (CRI)>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 >80%, Power factor >0.95, THD <10%, Surge protection 2.5KV. Luminaire dimension : Ø194mm x 1020mm height. CE & BIS Certified. Inhouse NABL accredited lab. Make:- Philips, K-Lite, Bajaj, Havells.	Each	135			
11	<b>60 watt LED Flood Light:-</b> Supplying, installation, Testing & Commissioning of 60W LED high efficiency flood light luminaire designed to provide uniform illumination in open spaces. Beam angle 60°. Extruded aluminium side frame, IP67 LED Module with excellent thermal management heat sink with vertical fin design for longer life of the LEDs & polycarbonate optical lens. Mounting bracket made of CRCA sheet (3mm thickness). Luminaire supplied with fast IP67 connectors. All external screws are made of stainless steel. Mechanical resistance IK08. Pure polyester powder coated RAL 9004 Signal black, RAL9007 Grey aluminium, RAL 7016 Anthracite grey, Graphite grey. Available colour temperature 3000K / 4000K / 5700K . Colour rendering index (CRI)>70. K-Lite LED module with expected service life of at least 84,000 operating hours. Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply. Driver efficiency >90%, Power factor >0.95, THD <7.8%, Surge protection 4KV. Luminaire dimension : 342mm length x 135mm width x 165mm height. CE & BIS Certified. Inhouse NABL accredited lab. Make:- Philips,K-Lite, Bajaj, Havells.	Each	10			
12	<b>50WATT LED Street Light:-</b> Supplying, installation, Testing & Commissioning of 50W LED pendant mounted compact pathway luminaire. Type IV (Asymmetrical light distribution). Luminaire made of specially contoured spun aluminium body of high corrosion resistance with extruded aluminium neck design for unique and better aesthetics and non corrosive stainless steel fasteners. Convex type clear acrylic diffuser. The mounting arrangement nipple, coupling & Hex nut made of Stainless steel 304 suitable for mounting to internally threaded pipe of designation M30. Protection class IP65. Mechanical resistance IK05. Pure polyester powder coated graphite grey / anthracite grey / jet black. Available colour temperature 3000K / 4000K / 5700K, Colour rendering index (CRI)>70. LED module with expected service life of at least 72,000 operating hours. Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply. Driver efficiency >85%, Power factor >0.95, THD <10%, Surge protection 6KV. Luminaire dimension : 475mm diameter x 450mm height. CE & BIS Certified. Inhouse NABL accredited lab. Make:- Philips,K-Lite, Bajaj, Havells.	Each	43			
13	16 way TPN double door waterproof distribution Box with suitable timer , contractor and ELCB with 01 63 AMPS TPN MCB as incomer and 12 nos. 6/10 amps SP MCB	nos.	5			
14	<b>FEEDER Panel</b>	Nos.	2			

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S.No	Item Description	Unit	Qty.	Rate	Amount	Remarks
	SITC of cubical panel made out of CRCA sheet, required hardware, duly painted by either two coats of zinc/ red oxide primer followed by two coats of synthetic enamel paint or powder coating in grey or required shade after rinsing . The panel having PU/ Neoprene rubber gasket of not less than 3mm thickness , separate detachable gland plate M.S. base channel ,hinged door with locking arrangement for equipment/switchgear . Thickness of sheet shall not be less than 1.6 mm up to 600 mm length / width of any compartment and be of 2.0 mm above 600 mm. Load bearing structure shall be of 2.0 mm thick sheet supported by base M.S. channel if required . 3 mm thick sheet for gland. Side walls and cable alley compartments having bolted type doors. double compression type cable glands, earth bus, hinged and lockable doors to achieve <b>weather and vermin proof with not less than IP-54 (For Outdoor Type) Protection.</b>					
	<b>Note: Panel Shall be Floor Mounted . Panel cable Entry &amp; Exit from Bottom . MCCB are T/M, O/L.S/C, lcs=100%lcu</b>					
	<b>Note :- Panel shall be made according to panel sld.</b>					
	<b>INCOMER</b>					
	MCCB 100Amp FP 16 KA , 1No.					
	4P Power Contactor 100Amp with timer, 1No.					
	Indicating Lights(Phase-R,Y,B,Contactor Open,Close) 5No.					
	6 amps Protective SP MCB's , 4 Nos.					
	<b>OUTGOING</b>					
	25A. SP, MCB, 10kA - 5 Nos					
	16A. SP, MCB, 10kA - 10 Nos					
	63Amp FP MCCB, 10 KA , 2No.					
	40Amp FP MCCB, 10 KA , 2No.					
	25Amp FP MCCB, 10 KA , 2No.					
	<b>Bus Bars</b>					
	100amps ,TPN,Electrolytic high conductivity Aluminium busbar with colour coded heat shrinkable insulating sleeves.					
	<b>Miscellaneous</b>					
	Missll.( Insulators, Acrylic Sheet , Backlight Sheet, Hardware, Wire, Name Plates, Lugs, PVC Channel , MCB Chanel , Lock, Hing , Bidding , Connectors, Neutral Links , Spiral , Saddle & Packing Material )					
	<b>TOTAL AMOUNT (EXCLUDING GST) FOR EXTERNAL ELECTRICAL WORKS (ELECTRICAL STREET LIGHT &amp; BOLLARD)</b>					
<b>Note :</b>						
1	All works shall be carried out as per SBI Handbook and other specification of Division or as directed.					
	Sample of all fitting and fixtures shall be approved by the Bank before installation					
2	All the columns in Schedules should be filled in ink and the total of the entries ink last column should be struck by the contractor under his signature.					
3	Serviceable material available ( if any ) after Demolishing / Dismantalling any item should be handed over to the concerned Site Engineer In Charge as per instruction.					