

Tender Inviting Authority: India Trade Promotion Organisation, Bharat Mandapam, New Delhi

Name of Work:"Supply, Installation, Testing, Commissioning of High Mast and other allied LED lighting at Bharat Mandapam, New Delhi."

Contract No: ITPO/CE(P)/Electrical/24-25/03 dated 11.10.2024

Name of the Bidder/ Bidding Firm / Company :						
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Design, fabrication, supply , erection, testing and commissioning of 16 meter high mast pole of steel in two sections suitable for 50 m/sec wind speed as per IS:875(Part-III) totally hot dipped galvanized as per BS-EN 10025 with raising/lowering type of thickness 4 mm at bottom & 3 mm at top of high mast pole and diameter at top not less than 150 mm and bottom not less than 410 mm & 20 side polygon standard for galvanisation as per BS EN ISO 1461 including opening of door at base of size with 1050 x 250 mm base plate of 540 mm x 25mm thickness , minimum 8 numbers foundation bolts of EN-8 grade as per IS 1367(part 3) suitable for mounting 8 Nos floodlight luminaries in symmetrical arrangement made of 50 NB ERW class B MS pipe welded in 2 sections and electrically operated raising/ lowering system comprising double drum winch, two continuous 6mm dia steel wire rope made of AISI 304 as per IS 2266, 7/19 of breaking capacity 1450 Kg X 2 , trailing cable of size 5 core 2.5 sqmm , connector, integral power tool motor of capacity not less than 1 HP single speed one number as per IS 12615, manual vhandle, junction box, lightning finial, lantern carriage, top pulley arrangement complete including design and construction of shallow foundation with RCC (M-25) grade concrete for the high mast considering the safe soil bearing capacity as per site requirement with all material and labour, fully galvanised foundation bolt manufactured from special steel along with nuts, washer, anchor plate and common template. Power cables from panel to top of High Mast, mounting clamps and bolts, including erection and commissioning including earthing as per BIS and modern engineering practices including providing and fixing of lightning arrestor and LED type single dome aviation obstruction light complete all as specified, Note :- Foundation shall be made as per drawing and design approved by OEM.	10	Set		0.00	INR Zero Only
2	Supply and fixing of 200W LED Flood Light with a minimum system lumen of minimum 28000 lumen and efficacy >135 lumen/watt having CCT of 5700K and CRI > 70 and 50,000 burning hours @ L70B50. The housing should be of non-corrosive high-pressure die-cast aluminum with PF > 0.95, IP 66 with an IK 10. The Luminaire should have a 20 KV SPD. The wattage of each LED should be greater than 1 watt and less than 3 watt. Only high power Single white LED chip with ceramic based suitable for outdoor use is allowed. The Luminaires shall employ Structured LED array for optimized area lighting photometric distribution with individual photometric integrated optics lenses designed to optimize application efficiency and minimal glare achieving wide beam angle, individual Integrated / PC optical lens to be provided on each LEDs on a molded lens plate fixed mechanically. Electronic driver should be IP67 potted with APFC and CISPR 15 compliance with THD < 10% and shall have surge protection of minimum 4kV. Input Voltage range 140- 270V. The Driver should be a potted driver, not a printed circuit board without casing, mounted on the luminaries , BIS approved. LM 79 and LM80 reports for OEM in house NABL (not more than 6 months old) accredited lab to be submitted.	250	each		0.00	INR Zero Only
3	Supply and fixing of 100 W LED Flood Light with a minimum system lumen of minimum 12000 lumen and efficacy >120 lumen/watt having CCT of 5700K and CRI > 70 and 50,000 burning hours @ L70B50. The housing should be of non-corrosive high-pressure die-cast aluminum with PF > 0.95, IP 66 with an IK 07. The Luminaire should have a 10 KV SPD. The wattage of each LED should be greater than 1 watt and less than 3 watt. The Luminaires shall employ Structured LED array for optimized area lighting photometric distribution with toughened glass designed to optimize application efficiency and minimal glare achieving wide beam angle on molded lens plate fixed mechanically. Electronic driver should be APFC based with THD < 10% and shall have surge protection of minimum 4kV. Input Voltage range 140- 270V. The Driver should be a potted driver, not a printed circuit board without casing, mounted inside the luminaries, BIS approved. LM 79 and LM80 reports for OEM in house NABL (not more than 6 months old) accredited lab to be submitted.	100	Each		0.00	INR Zero Only
4	Supply and fixing of 100W LED Highbay Light with a minimum system lumen of minimum 15000 lumen and efficacy >150 lumen/watt having CCT of 5700K and CRI > 80 and 50,000 burning hours @ L70B50. The housing should be of non-corrosive high-pressure die-cast aluminum with PF > 0.95, IP 66 with an IK 10. The Luminaire should have a 10 KV SPD. The wattage of each LED should be greater than 1 watt and less than 3 watt. The Luminaires shall employ Structured LED array for optimized lighting photometric distribution with polycarbonate cover designed to optimize application efficiency and minimal glare achieving wide beam angle on molded lens plate fixed mechanically. Electronic driver should be SMPS based with THD < 10% and shall have surge protection of minimum 4kV. Input Voltage range 140- 270V. The Driver should be a potted driver, not a printed circuit board without casing, mounted on the luminaries, BIS approved. LM 79 and LM80 reports for OEM in house NABL (not more than 6 months old) accredited lab to be submitted.	100	Each		0.00	INR Zero Only
5	Supply and fixing of 80W LED Highbay Light with a minimum system lumen of minimum 12000 lumen and efficacy >150 lumen/watt having CCT of 5700K and CRI > 80 and 50,000 burning hours @ L70B50. The housing should be of non-corrosive high-pressure die-cast aluminum with PF > 0.95, IP 66 with an IK 10. The Luminaire should have a 10 KV SPD. The wattage of each LED should be greater than 1 watt and less than 3 watt. The Luminaires shall employ Structured LED array for optimized lighting photometric distribution with polycarbonate cover designed to optimize application efficiency and minimal glare achieving wide beam angle on molded lens plate fixed mechanically. Electronic driver should be SMPS based with THD < 10% and shall have surge protection of minimum 4kV. Input Voltage range 140- 270V. The Driver should be a potted driver, not a printed circuit board without casing, mounted on the luminaries, BIS approved. LM 79 and LM80 reports for OEM in house NABL (not more than 6 months old) accredited lab to be submitted.	200	Each		0.00	INR Zero Only
6	Supply of aluminium conductor XLPE insulated, PVC sheathed armoured served sheathed cables 1100 Volts grade.					
6.01	3.5 C x 50 sq. mm	800	RM		0.00	INR Zero Only
6.02	3.5 C x 25 sq.mm	500	RM		0.00	INR Zero Only
6.03	4 C x 16 sq. mm	750	RM		0.00	INR Zero Only

Item Rate BoQ

7	Laying of one number XLPE insulated and PVC sheathed power cable of 1.1 KV grade of following size direct in ground excluding excavation, sand cushioning, protective covering and refilling the trench etc as required.					
7.1	Upto 35 sq. mm	2050.000	RM		0.00	INR Zero Only
8	Supply and fixing of Copper Cables of following sizes :-					
8.1	3 x 1.5 sq. mm Cable	700	RM		0.00	INR Zero Only
8.2	3 x 2.5 sq. mm Cable	600	RM		0.00	INR Zero Only
9	Supply and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
9.01	4 x 16 sq. mm (28mm)	60	each		0.00	INR Zero Only
9.02	3.5 x 25 sq. mm (28mm)	80	each		0.00	INR Zero Only
9.03	3.5 x 50 sq. mm (35mm)	60	each		0.00	INR Zero Only
10	Supply, Installation, Testing and commissioning of Double Door Cubical Type free standing totally enclosed dust & Vermin Proof LT Panel suitable for 440Volts, 3 Phase .50HZ AC Supply system of suitable size fabricated in compartmentalized made from CRCA sheet steel of 14 SWG, factory made, Cubical type with base, with powder coated ,having suitable Bus Bar for 300 Amp. Aluminium Bus Bar of high conductivity with PVC Sleeves, DMC/SMC Bus Bar supports, entire Panel shall have 2 nos. earth copper strip of size 20 x 3 mm , and control wiring of 2.5sq mm PVC insulated Copper FRLS, Cable Alley , Bus Bar Chamber , Cable Gland Plate on both sides (top and bottom).250A 4P 36kA MCCB Microprocessor Release with O/L,S,C,E/F protection, confirming to IS/IEC60947-2 etc. - 01 No. Multifunction Meter, CT, Control MCB, LED Phase Indication, Control wiring. Out Going 63A TP + N MCCB, Thermal Magnetic Release, Adjustable type with On LED Indication -6 nos. All MCCB should be provided with rotary handle and spreader link.	5	each		0.00	INR Zero Only
11	Supply and fixing of 16 SWG CRCA sheet with powder coated painting automatic street light cubicle control panel of automatic street light cubicle control panel with anti corrosive alkali and acid proof characteristics providing 63Amp TP MCB as incomer, 1 nos 32A 3 Pole MCB for motor protection and consisting of time switch TSO 100 series with contactors, HRC fuses, isolating switch metering instrument & instrument box with CTs etc. in case of TPN, necessary push buttons with interlocking facility for motor operations complete in all respect.	10	each		0.00	INR Zero Only
12	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.	30	each		0.00	INR Zero Only
13	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	100	RM		0.00	INR Zero Only
14	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	80	RM		0.00	INR Zero Only
15	S/Laying of 90 mm dia (OD 90 mm & ID 76 mm nominal) size of (DWC) HDPE Pipes ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part-II complete with filling and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench pat excluding sand cushioning and protective covering etc. Complete in all respects.	200	RM		0.00	INR Zero Only
16	Excavation of the cable trenches in hard rock not exceeding 1.5 metres in width, and lift upto 1.5 metres, including getting out the excavated soil and disposal of excavated soil as direct within a lead of 50 metres.	30	CUM		0.00	INR Zero Only
17	Cement Concrete with 2 cm gauge stone grit, coarse sand & cement in proportion of 4:2:1 including supply of all material, Labour , tools & plants etc. Required for proper completion of work.	20	Cum		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				