



Item Rate BoQ

Tender Inviting Authority: Registrar, IIT Patna

Name of Work: Illumination of Football Ground at Sports complex in IIT Patna.

Contract No: IITP/IWD/ELECT/RS/NIT-01/2020-21

Name of the Bidder/ Bidding Firm / Company :	
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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 With Taxes In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Stadium MAST:					
1.01	Supply of 25 Mtr high Hot Deep Galvanized Fix Type Polygonal Stadium High Mast with fixed type head frame structure, in two sections suitable for 180 Km/hrs wind speed as per IS-875 Part-III with latest amendment, Mast shall be suitable to carry 25 Nos. of 350-450W LED Flood light luminaries fittings to illuminate Football Ground as per the light levels- FIFA Class-II (Leagues and clubs). The mast should include proper stepped ladder including safety cage and working platform to access the light fixtures, junction box, lightning finial & foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template & LED type twin dome aviation obstruction Light. Stadium mast shall be conformed relevant standards such as ASTM A572 or equivalent for pole shaft and base plate & BSEN ISO 1461 or equivalent for Galvanizing. The mean probable design life of structure should be 25 years.Makes- As per approved make list in Tender documents.	4.000	Nos		0.00	INR Zero Only
1.02	Construction of shallow RCC foundation with M25 grade concrete for the Stadium high mast considering the safe soil bearing capacity at site as 10 T/sqmr at 2 metre depth with all materials and labour. Installation of the Stadium mast with the help of suitable tools and plants, wiring of luminaires with all wiring materials like PVC insulated PVC sheathed flexible cable of suitable copper conductor, lugs, MCB Control box, Proper Earthing and all labour & hot dip spike earthing. Also antitermite treatment have to done during installation.	4.000	Nos		0.00	INR Zero Only
2	LED Flood Light Fitting					

2.01	Supply, installation, testing and commissioning of high- quality LED Flood light 350 to 450 Watt with a minimum system lumen output 47000 lumen and a system efficacy of 120 lumen/watt. The Luminaire shall have a rated system mean lifetime of 50000 burning hour @ L70. Correlated Colour Temperature (CCT) of Luminaire should not be less than 5000K and Colour Rendering Index (CRI) should not be less than 70 .The luminaire shall have a IP66 rating and IK08 alongwith the surge protection having a provision of protection upto 10kV/KA. SPD should be able to sustain a minimum 15 hits of 10KA rating. The power factor should be greater than or equal to 0.95 and THD < 20%. Light distribution of luminaire should be of symmetric wide beam and optics should be anti-dust exposed lenses . The luminaires housing shall be made of non-corrosive high pressure die-cast aluminium to withstand extreme environmens with corrosion resistant powder coating. The driver should be fully integrated with efficiency of more than 85%. The luminaire could be able to operate at an ambient of (-) 10 deg C to (+) 45deg C ambient. The luminaire should be completely integrated and modular part should not be their to avoid gathering of dust. The maintenance factor consider during lux level calculation should be 0.85 . Product should be suitable for continuous operation (10-12 Hrs per day).The wattage of each LED should be greater than 1watt and less than 3watt. Only high power single white LED chip with ceramic based suitable for outdoor use is allowed.The LED used in the luminaire shall be SMD type of reputed manufacturer. The luminaire should be capable of withstanding voltage stress of 440V for 8hrs, should have an auto shutdown @325V and have an auto recovery feature. The Driver should be a potted driver not a printed circuit board without casing, mounted inside the luminaire. Luminaire fitting should designed for application in outdoor sports field. The luminaire should comply design criteria and specification in tender. Makes- As per approved make list in Tender documents.	64.000	Nos		0.00	INR Zero Only
3	Supply of 1.1 kV grade XLPE insulated and overall sheathed stranded aluminum conductor, flat steel strip armoured cable conforming to IS: 1554/7098 part I of following sizes. 3.5C x 25 sq. mm	600.000	Mtrs		0.00	INR Zero Only
4	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning , protective covering and refilling the trench etc. as required. (Upto 35 SQ. MM)	600.000	Mtrs		0.00	INR Zero Only
5	Supply, installation, testing and commissioning of LT Outdoor type distribution panel suitable for operation on 415+10% volts, 50Hz AC 3ph 4wire system, cubicle & modular type, made of 2mm thick sheet steel for frame work and covers, 3mm thick for gland plates, totally enclosed, minimum IP 55 protection, dust & vermin proof free floor mounting with power coating complete with Aluminium busbars, interconnection with copper conductor, aluminium strip, neutral link, earth bus etc with following Incomer:- 1No, 150A, 4P, 25kA, MCCB having with microprocessor based release inbuild O/C, S/C, E/F protection. ON/OFF/TRIP indicating lamps- 1sets, Phase indicating lamps-1sets, Digital combined multifunction meter with relevant CT's of class 1.0 accuracy with RS485 port - 1No Outgoing:- 63A 4pole MCB 25kA -2Nos, 32A 4Pole MCB	1.000	Nos		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words	INR Zero Only					