

# **JHARKHAND STATE CRICKET ASSOCIATION**

INTERNATIONAL STADIUM COMPLEX,  
H.E.C. CAMPUS, DHURWA, RANCHI- 834004.

## **PART-III** **PRICE BID**

FOR DESIGN, ENGINEERING, MANUFACTURE, TESTING, PACKING, SUPPLY, TRANSPORTATION,  
UNLOADING, STORAGE, ERECTION, TESTING & COMMISSIONING OF LED BASED HIGH MAST  
ILLUMINATION SYSTEM  
FOR  
OVAL GROUND AT J.S.C.A. INTERNATIONAL STADIUM AT  
DHURWA RANCHI.



**JHARKHAND STATE CRICKET ASSOCIATION**

**DHURWA, RANCHI 834004,**

**JHARKHAND**

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**Tender No.: JSCA/RNC/166/61/2021**

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**ANNEXURE-III**

## **FORM OF UNDERTAKING**

Undertaking of Truthfulness of Tender Participation  
(TO BE TYPED ON A LETTER HEAD OF THE BIDDER COMPANY)

*Date:*

The Chief Executive Officer,  
Jharkhand State Cricket Association,  
International Cricket Stadium,  
Dhurwa-Ranchi 834003, Jharkhand

Subject: Submission of Tender for the Design, Engineering, Manufacture, Testing, Packing, Transportation, unloading, storage, erection, Testing & Commissioning of LED based Luminaires High Mast Illumination System for Oval Ground at International Stadium, Dhurwa, Ranchi.

Dear Sir,

We, the undersigned, are submitting our bid for the above Tender in accordance with your Tender No.: JSCA/ELEC-Tender/2021/01 dated 05.02.2021

We hereby declare that all the information and statements made in this bid are true and we accept that any misinterpretation or false information /documentation contained in it may lead to our disqualification.

We accept all the terms and conditions of this tender document and we are not deviating from the terms and conditions of the Tender. Our bid is binding upon us. We understand that JSCA, Ranchi is not bound to accept any bid.

Yours sincerely,

Authorized Signatory [In full and initials]

Name

Designation

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Annexure-V

## **TO BE FILLED AND INCLUDED IN PRICE PART SEALED ENVELOPE**

### **PRICE BID FORMAT**

#### **A. SUMMARY PRICE SCHEDULE**

<b>Sl. No.</b>	<b>Description</b>	<b>Price</b>	<b>Taxes</b>	<b>Total Price</b>
1.	Design, engineering, manufacture, testing, packing, transportation, supply, unloading, storage, unpacking, erection, testing and commissioning of Total system including site survey, soil investigation, civil works, etc. complete in all respects covering items 1 to 20 of Bill of quantities.			
2.	Annual Maintenance contract charges for three years after warranty period.			
3.	Total Contract Price			

### **DECLARATION**

1. We have inspected the site, gone through the Tender and assessed the work .We undertake to take-up the work at a total quoted price as mentioned above.
2. We have gone through the terms & conditions stipulated in the tender document and confirm to abide by the same.

Signature of the bidder with Official Seal/Stamp

Name and Contact Details

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## TO BE FILLED AND INCLUDED IN PRICE BID SEALED ENVELOPE

High Mast mounted, High Efficiency, LED based Illumination System for Oval Ground, at International Cricket Stadium at Dhurwa, Ranchi, Jharkhand.

### BILL OF QUANTITIES (PRICED)

S.N	DESCRIPTION OF ITEM	Unit	Qty.	Rate	GST	Total
[A]	<b>SERVICES AND SUPPLIES FOR THE PROJECT</b>					
1	Design, manufacturing, supply, installation, testing & commissioning of Hot dip galvanized, polygonal high masts with fixed head frame suitable for mounting required no. of LED luminaires complete with all accessories as per specification and as required. The average height of the mast shall be of about 30 m. Or as per design.	No.	4			
2	Design, manufacturing/fabrication, supply transportation, unloading, and erection of Ladder from foundation to Top platform of the high mast suitable for climbing by men for maintenance of equipment at top platform with suitable guard cage and intermediate platforms for resting all made of Hot dip galvanized steel sections as per design properly welded and fixed to mounting rings in accordance with best practice and applicable standards.	set	4			
3	Supply, erection, testing and commissioning of requisite numbers of High efficiency, LED based Luminaires conforming to the technical specifications and standards of <b>Approved make</b> complete with all required accessories. <b>Bidder to indicate the number of Luminaires with wattage, make, model number.</b>	Set	4			
4.	Supply and Installation of Control Gear Rack/Panel as per specification for above luminaires	Set	4			
5	Supply, installation, testing & commissioning of Low intensity neon helix type aviation obstruction luminaires with lamps and accessories to be mounted on high masts.	No.	8			
6.	Supply, installation, testing and commissioning of 415 V,3 phase & N, 4-wire, 50 Hz, sheet steel clad, floor mounted fully draw out, IP54 protection class, Main L.T. Distribution Board with Incoming and outgoing modules as per the	No.	1			

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	specifications [refer Technical Specification] and applicable standards of <b>approved make</b> .					
7	PLC Based distributed Control System of approved make as per detailed specifications and consisting of 4 PLC systems for 4 numbers of High mast Lighting System and 1 number centralized PLC system, along with peripherals such as display unit, Printer, UPS supply panels, etc. as per design offered , complete in all respects conforming to the specifications and applicable standards.	Set	1			
8	Supply, Laying, Termination and testing of the following cables o Aluminium / Copper Conductor PVC Insulated PVC sheathed & sleeved armoured/unarmoured cables as per the applicable IS Specifications ( Aluminium as cables will be as per IS 7098 and copper cables as per IS 1554), Cables shall be laid in the trenches provided in control room.					
a	Incoming power cable, 3.5 core X 240 sq.mm, [minimum size] armoured Aluminium for incoming power supply from sub-station to Main Electrical room on peripheral of Oval Ground to be built by the Contractor. Cable size to be checked for voltage drop up luminaire terminals and size to be increased as required.	m	300			
B	Power cables assorted size & length	lot	1			
C	Copper control Cables of assorted sizes	lot	1			
D	Fiber Optic cable	lot	1			
E	LAN cable	lot	1			
9.	Supplying, installation, testing and commissioning of wall mounted type lighting board comprising of :	set	4			
	INCOMER : 1 no. 16A SPNMCB					
	OUTGOING : 6 no. 6A SPMCB					
10.	Supply, installation, testing and commissioning of 1 phase i/p, 1 phase o/p stand-by type UPS of 5kVA rating with 1 hour battery back-up.	Set	5			
11	Design, engineering, erection, testing and commissioning of Earthing system covering Earth pits including earthing strip network for Power Supply system for the complete Illumination system	lot	1			
12	Design, engineering, erection, testing and commissioning of Earthing system covering Earth pits including Earthing copper cable network for Electronic Earthing for the complete PLC based Control system					
13.	Design, Engineering, supply, erection, testing and commissioning of complete Lightning	set	4			

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	Protection System in accordance with specifications and standards for each Mast.					
14.	Design, Engineering, manufacture, testing, supply, erection, testing and commissioning of Electric Hoists, 500 kG, 35 m hoisting height, 2m travel as per applicable standards with control at foundation level of High Mast.	set	4			
15.	Design and casting of suitable raft type of foundation for the above high mast towers. The safe bearing capacity of the soil shall be obtained by contractor by undertaking soil investigation report. The foundation shall be designed for wind pressure 44m/sec. Bidder may carry out provisional design for quotation based on soil bearing capacity of 15 T/sq. m.	set	4			
16.	Design, Engineering and construction of Main Electrical Room housing Incoming Power Distribution Board, Main PLC based control system, along with UPS and peripherals complete in all respect with Illumination, cable trenches. The equipment will be laid with clearances as per standards/norms. Control Room shall be designed aesthetically with modern building materials and décor in accordance with specifications and standards.	No.	1			
17.	Design, Engineering and construction of Electrical Room housing Power Distribution Board, Ballast panels, PLC based control system, etc.in all respect with Illumination, cable trenches in accordance with specifications and standards.	Nos.	4			
18.	Design, engineering, supply, erection, testing and commissioning of LED based Luminaires complete with brackets, ballasts, cables, etc. as a replacement of Halogen Based Lights at the International Stadium in the same complex to provide lighting with LUX level of 350 in the ground and at ground level. The scope shall include dismantling of old Halogen Fixtures, brackets, etc. and removing them to EMPLOYER's stores	Nos.	24			
19.	Supply of Recommended Commissioning spares [As per the list furnished by the Bidder]. Unused spares shall become the property of the EMPLOYER.	set	one			
20.	Supply of Tools and tackles [ As per the list recommended by the Bidder]	set	one			
[B.]	<b>ANNUAL MAINTENANCE</b>					
1	Comprehensive Annual Maintenance of 4 nos. High Masts alongwith complete system which					

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	shall include routine, preventive and break down maintenance for a period of 3 years including free replacement of defective luminaries (under warranty) and after completion of 2 years guarantee period. Cost of spares will be reimbursed separately.					
	First (1 <sup>st</sup> ) Year - FREE					
	Second (2 <sup>nd</sup> ) Year - FREE					
	Third (3 <sup>rd</sup> ) Year					
	Fourth (4 <sup>th</sup> ) Year					
	Fifth (5 <sup>th</sup> ) Year					

Signature of the bidder with Official Seal/Stamp

Name and Contact Details