



**NEW DELHI MUNICIPAL COUNCIL**  
**ELECTRICITY DEPARTMENT**  
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Ref. No.EE (E) S-I/2019-20/D- 850

Date. 17/9/19

**M/s Halonix Technologies Pvt. Ltd.**  
B-31, Phase-II, Noida, Distt. Gautam Budh Nagar, (U.P.) - 201305  
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**Subject: Purchase of Energy Efficient Sports LED fittings of 400Watt  $\pm$ 5% for Talkatora Indoor Stadium ( Qty.-36 Nos.).**

Dear Sir,

Kindly give your budgetary offer for the purchase of subject cited material. Technical Specifications & Schedule of Quantity are enclosed herewith for your reference.

Your early response will be highly appreciated.

Thanking you.

17/9/19  
(Er. Surender Kumar)  
Executive Engineer (E) S-I

## SPECIFICATIONS

**Sub: Purchase of Energy Efficient Sports LED fittings of 400Watt  $\pm$ 5% for Talkatora Indoor Stadium.**

1. Input voltage-230V $\pm$ 10%, 50Hz.
2. Operating Voltage :140-270V,50Hz
3. Overall system Efficacy- More than 130 Lumens per Watt.
4. Power factor >0.90
5. Life expectancy : above 50,000 hours with 70% lumens
6. Rated wattage – 400Watt  $\pm$ 5%.
7. Color Temperature :- 4000K – 5000K
8. LED: with lens and uniformly distributed as per frame shape. (Glare Free Light or Indirect Light).
9. Working Humidity 10% to 90% RH
10. Working Temperature: (-)10 degree Celsius to (+ )50 degree Celsius
11. IP 65 (min.)
12. Surge Protection- more than 10KV.
13. Color Rendering index(CRI) Ra> 70
14. Total harmonic distortion(THD)<15%
15. Average lighting/beam Angle: 120 degree.
16. Make of LED lamp NICHIA/OSRAM/PHILIPS LUMILEDS/CREE /SAMSUNG /SEOL SEMI CONDUCTOR
17. Luminary casing /housing-Pressures Die cast/extruded Aluminium housing having two separate compartment one for luminaires & other for control unit/Driver with corrosion resistance polyester powder coated and heat resistant toughened glass cover fixture should be water proof & manufacturer brand name engraved/embossed.
18. Fitting should be with suitable clamping & grouting arrangement.
19. Impact Resistance>IK07
20. Lamp starting time should not be more than 10 seconds.
21. Thermal management of LED good thermal management system should be provided and LED must be mounting on heat sink conductive aluminium with suitable large areas surface by means of fins to dissipate the heat to ambient air.
22. Application Standard- the fixture should confirm to applicable IEC 60598-1,IEC 61000-3-2,IEC 61547.
23. Test Compliance for LED is LM 80(IS-16105) from the LED manufacturer and Test Compliance should be submitted from BIS/NABL accredited lab for Fixture is LM 79 (IS-16106, IEC 60598/IS:10322). Successful tenderer shall submit test compliance at the time of delivery. However, the tenderer shall submit an undertaking for the same at the time of submission of bid.
24. Internal wiring Fibre glass insulated multi strand wire
25. Protections: - Overvoltage Protection, Short Circuit Protection, Open Circuit Protection, Surge Voltage as per International Standards.
26. Driver:- Encapsulated Low current (less than 650 mA) and high voltage with external surge protection of 10KV inside driver compartment.
27. Guarantee/Warranty of complete fitting including ON/OFF & Dimming control unit: - Five years.

- Note:**
1. The firm shall submit BIS/NABL accredited lab report to confirm the above parameters at the time of delivery.
  2. The word “NDMC” & manufacturer make should be embossed/engraved/screen printed on the fittings.
  3. NDMC will get tested LED fitting from any NABL lab to verify the genuineness of LM79 report.
  4. Dimming control system shall be provided and maintained by the supplier/OEM.

**The item should be as per above specifications/makes.**

## SCHEDULE OF QUANTITY

**Subject: Purchase of Energy Efficient Sports LED fittings of 400Watt  $\pm$ 5% for Talkatora Indoor Stadium.**

Bidder Name :												
Sl. No.	Item Description	Item Code / Make	Qty (In Nos.)	Units	BASIC RATE	PRICE SCHEDULE						
						GST in %	GST Amount in Rs.	Freight and Insurance Charges (in Rs)	local Cartage and handling (in Rs)	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	Supply of Energy Efficient LED fittings for indoor stadiums suitable for sports and cultural events (glare free light or indirect light) on the existing truss with ON/OFF & Dimming control having rating of 400W $\pm$ 5% with pressure die cast/ extruded Aluminium Housing, water proof, heat resistant toughened glass cover, with IP-65 protection (min.), lens, CRI>70, Uniformity : 0.4, having Color Temp. (CCT) :- 4000K – 5000K, complying to LM/IEC/ISS/ International Standard with 5 years guarantee and as per specifications attached.	Item1	36	Each								
<b>Total in Figures</b>												
<b>Quoted Rate in Words</b>												

**Note:**

1. The L-1 position amongst firms will be based on the item wise L-1 computed cost inclusive of GST and other charges.