**SPECIFICATION OF ITEMS**

**Tender Name:Procurement of 120W Street light fittings for YTPS**

**Tender No. SESP/ET/MA2/EE(PS)/YTPS/19-20/5657 dated 09.01.2020**

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| **Sl.**  **No.** | **Item Code**  **Name & Specification** | **Unit** | **Qty.** | **HSN Code** | **GST %** | **Delivery Period** | **Make & Model** |
| **01** | **145309033Y**  **STREET LIGHT FITTING 120 WATTS :**Street Light fitting LED Type 120WATTS, 230VOLTS 50HZ, Aesthetically designed IP-66 Protected; Roadways Luminaire with excellent thermal management.  **TECHNICAL SPECIFICATIONS (as detailed in Annexure-1) :**   1. Rated wattage: 120 Watts( cool white) 2. Input voltage: 140V to 277V 3. The LED fittings shall withstand site voltage fluctuations from minimum 140V to 277V, single phase, 50Hz. 4. Power factor more than 0.90 5. Average life expectancy 50000 to 90000 hours 6. LED lumen efficacy 140 lumens per Watt 7. LED type: High power LED, BEE 5Star rated with IS16102: 2012 Part 2 certificate. 8. Number of hours uses per day - 10 to 12 hours for a day 9. Luminous flux - 12000 to 14,500 lumens 10. Working temperature 22 to 50 degree centigrade 11. Colour temperature 5700 to 7000K with test certificate 12. Ingress protection IP 66 as per IS :16102: 2012 part 22 /IEC 60529- 2001 with test certificate 13. Total harmonic distortion less than15% with test certificate as per IS:14700 standards 14. Colour render in rendering –CRI- above 90 15. Average lighting / beam angle 120 to 160 degree 16. Lamp starting time not more than 5 second 17. Energy consumption :Not more than 1.2 times at rated voltage 18. System power efficiency more than 85% 19. Control circuits compatible to LED. | NOS. | 16 |  |  |  |  |
|  | 1. Driver board details : To be specified, it shall be built in constant current LED driver with high efficiency LED module. 2. Pole entry/Rretrofitting : Suitable for existing lighting pole (30 mm - 55 mm dia with bracket and locking bolt and nut). 3. Electrical connectors: Connecting wires with minimum one meter length 4. Warranty :5 years brand warranty extended by manufacturer 5. Applicable standards: IESNA LM 79 for fixtures to withstand wind velocity 150mph with certificate. 6. Made in India: Chinese make not acceptable including inner components like LED modules etc). 7. Online products are not acceptable 8. Test certificate to be submitted IS: 16102: 2012 part 1/2 safety certificate, Photo biological test report as specified in IS :16108, LM 79 or IS: 16106 or IEC 60598 report of LED lamp, product warranty report, star rating. 9. Additional report: Fittings shall have LED type for example SMT 3030 1.5W Philips LED, (Mention here incorporated in offered fittings) 10. Radio disturbance characteristics as per IS 6873 (Para 5) 11. Complied as per Indian Energy Conservation Act 2001 gazette notification 14b Amendment 1 , 14(a) amendment- 1, 14(d) amendment-1 reference standards IS: 16102 (Part 1 and 2) with all amendments , GOI notification – S.O.93(E), dated 21st February 2019 , S.O.938.(E) dated 21st February 2019 number BEE / S&L/ LED / 52 / 2018-19, dated 21st February 2019. 12. The manufacturers shall have NABL accredited/certified laboratories and all relevant test certificates shall be enclosed with offer for technical evaluation along with data to be furnished. Mention test certificates furnished: 13. Predispatch inspection/Factory inspection clause is applicable. If necessary the tests will be witnessed & products will be inspected at manufacturers premises. If situation warrants for acceptance products testing will be arranged at NABL accredited laboratories at suppliers cost & risk for final acceptance of products. 14. Acceptable makes: Havells / Wipro / Bajaj / syska / Surya Roshini/ Philips / Osram / Oreva / GE Lighting / Jaquar / CGL. |  |  |  |  |  |  |

**Note:**

i. Rates quoted shall be inclusive of all applicable taxes, duties, levies etc., and FOR Destination basis (YTPS site premises as directed).

ii. The bidder shall upload**duly filled Technical specification (Annexure-2).**

**SIGNATURE OF THE AGENCY WITH SEAL**