

Bid Document

| Bid Details | |
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| Bid End Date/Time | 22-07-2020 16:00:00 |
| Bid Opening Date/Time | 22-07-2020 16:30:00 |
| Bid Life Cycle (From Publish Date) | 90 (Days) |
| Bid Offer Validity (From End Date) | 75 (Days) |
| Ministry/State Name | Ministry Of Steel |
| Department Name | Na |
| Organisation Name | Steel Authority Of India Ltd |
| Office Name | Bslp61 |
| Total Quantity | 600 |
| Item Category | LED Luminaire (for Flood Light) |
| MSE Exemption for Years of Experience and Turnover | No |
| Startup Exemption for Years of Experience and Turnover | No |
| Document required from seller | OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer |
| Bid to RA enabled | Yes |
| Inspection Required | No |

EMD Detail

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| Required | No |
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ePBG Detail

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| Required | No |
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Splitting

Bid splitting not applied.

LED Luminaire (for Flood Light) (600 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

| Specification | Specification Name | Values | Bid Requirement (Allowed Values) |
|-----------------------|--|-------------------------------------|-------------------------------------|
| STANDARDS | LED Luminaire conformity to IS:10322/Part 5/Section 5/2012 latest and IS: 16107 (Part 2/Sec 1):2012 latest | Yes | * |
| | Photo biological safety of LEDs used shall be as per IS:16108/2012 (exempt group) | Yes | * |
| | Types of LED Luminaire as per the IS: 16107(Part-2/ Sec.-1)/2012 | Type B | * |
| | Types of LED Modules as per the IS: 16103(Part-2)/2012 | Type 3 | * |
| | LED Rating/System Wattage/Rated Power | 350W | 350W |
| | Luminaire System Efficacy (Lumen/watt) | >= 100 Lm/Watt | * |
| | Ingress Protection (IP Rating) as per IS:10322 (Part 1):1982 latest | IP66 | IP66 |
| | Mounting brackets (included) | Adjustable | * |
| | Warranty for free replacement (in Years) | 5 | 5 |
| ELECTRICAL EFFICIENCY | Input operating Voltage range and frequency | 90 to 300 V olts AC at 50 Hz+/-2 Hz | 90 to 300 V olts AC at 50 Hz+/-2 Hz |
| | Automatic Higher Cut off voltage above 300 volt | Yes | * |
| | Rated voltage | 230 V AC 50 Hz | 230 V AC 50 Hz |
| | AC Power Factor at full load | ≥ 0.95 | * |

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| | Driver Efficiency (in %age) | ≥85 | * |
| | Total Harmonics Distortion (in %age) | ≤ 10 | * |
| | "The total circuit power shall not be more than 110 percent of the value declared by the manufacturer" | Yes | * |
| OPTICAL | LED chip Efficacy | ≥130 Lm/Watt | * |
| | Colour temperature (+/-500K) | 6000K | 6000K |
| | Working life for LED (Minimum 50,000 burning hours as per LM-80 report) | Yes | Yes |
| | Colour Rendering Index(CRI) | ≥70 | * |
| | Beam Angle | ≥120 | * |
| | Optic lense materal (UV stabilised) (Write NA for without optic lense supply) | Poly carbonate lense | * |
| THERMAL MANAGEMENT | Heat sink should be die-cast aluminium along with sufficient heat sink fins to dissipate heat effectively | Yes | * |
| | Capacitor shall be rated for a temperature of 105 deg. celsius or better | Yes | * |
| | Junction temperature | < 85 degC | * |
| | Operating temperature range | -20 deg C to +50 deg C | * |
| | Operating Humidity Range | 10 % to 95% RH | * |
| PROTECTION | Short circuit Protection | Yes | * |
| | Over load protecton | Yes | * |
| | Over Voltage protection | Yes | * |
| | Reverse polarity | Yes | * |
| | High voltage test (1.5 KV for one minute between supply terminals and body of the unit) | Yes | * |
| | Insulation resistance | >100 M ohm | * |

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| | between earth and current carrying part | | |
| | The luminaire shall be protected against surges and transients (Internal) | $\geq 5\text{KV}$ | * |
| | The luminaire shall be protected against surges and transients of $\geq 10\text{KV}$ (External) | Yes | * |
| CONSTRUCTIONAL | The Luminaires casing/housing (single piece housing) shall be pressure die casted aluminium alloy with higher thermal conductivity | Yes | * |
| | The luminaire body must be corrosion resistant epoxy powder coated | Yes | * |
| | All fastners must be of stainless steel | Yes | * |
| | The entire housing (both LED section and driver section) shall be dust and water proof having IP 66 protection as per IS:10322 (Part 1):1982 latest | Yes | * |
| | Extruded silicon loop gasket shall be provided in the lantern body to ensure a weather proof seal between the UV Glass cover and the metal housing to exclude the entry of the dust, water, insects etc., | Yes | * |
| | Luminaries light transparency should be of Toughened glass | Yes | * |
| | Toughned transparent glass cover thickness | $\geq 4\text{ mm}$ | * |
| | Toughned Glass shall not get discoloured shall not suffer degradation due to heat and ageing within warranty period | Yes | * |

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| | Number of electronic control gear (power supplies) | 1 No. | 1 No., 2 Nos., 3 Nos., 4 Nos. |
| | Driver components shall be industrial grade or above | Yes | * |
| | PCB shall be FR4 grade minimum 0.8 to 1.0 mm thick or more | Yes | * |
| | The Luminaires works on single phase three wires system (Phase, Neutral and Earth) | Yes | * |
| | Suitable connector shall be provided for LED connection between driver output and LED | Yes | * |
| | Length of ISI marked three core wire (shall be provided along with supply of material) | 50 cm | * |
| | Light Source | SMD LED Chip as per LM 80/IS16106 | * |
| MARKING | "Manufactures Name and and brand on the aluminium die cast body | Engraved/Embossed | * |
| | Manufacturer's name, model number, serial number | Yes | * |
| | Date of manufacture (month-year), and lot number as identification mark inside each unit and the outside of each packaging box | Yes | * |
| | The operation characteristics voltage and power be marked inside of each LED luminaire unit | Yes | * |
| REPORTS AND CERTIFICATIONS | LED Make | OSRAM / NICHIA/CREE / SAMSUNG / SEOUL / LUMILED / PHILIPS / EDISON / SYSKA / LUMENMAX / EVERLIGHT / BRIDGELUX / NATIONSTAR / REFOND | * |

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| System must have EMI/EMC compliance as applicable (Test reports shall be furnish on demand by buyer/consignee) | Yes | * |
| LM 79 (Photometry) (Ref.IS:16106:2012) report from Central Government lab/NABL/ILAC accredited lab. Reports shall be furnish on demany by buyer (LM-79 report shall have total lumen output, power, PF, Current in Amps, CRI & CCT etc.,) | Yes | * |
| LM 80 & TM 21 (Part of LM 80) (Ref. IS:16105:2012) Reports and Photo biological report for LED report from Central Government lab /NABL/ILAC accredited lab. Reports shall be furnish on demany by buyer (LM-80 report shall haveand the Pohoto Biological report of the LED Chip being used in the luminaire) | Yes | * |
| Availability of test Report from Central Government lab/NABL/ILAC accredited lab to Indian Standrad IS:10322/part 5/sec-5/2012 and IS 16107 (Part 2/Sec 1) : 2012 | Yes | * |
| Seller has to furnish Type test report on demand by buyer/consignee | Yes | * |
| DC or AC supplied electronic control gear for LED Module shall comlpy as per IS:15885 (Part 2/Sec.13) | Yes | * |
| LED Luminaire for Flood | Yes | * |

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| | Light shall comply with Complusory Registration(CRS) of BIS for safety as per IS 10322 (Part 5/Section 5): 2012 as applicable on the date | | |
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* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

| S.No. | Consignee/Reporting Officer | Address | Quantity | Delivery Days |
|-------|-----------------------------|---|----------|---------------|
| 1 | Mahendra Singh | 827001,Room No- B333, Administrative Building, Bokaro Steel Plant, Bokaro Steel City. | 600 | 60 |

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---