

### Bid Document

| Bid Details  |   |
|--|---|
| Bid End Date/Time                                      | 27-07-2020 17:00:00   |
| Bid Opening Date/Time                                  | 27-07-2020 17:30:00   |
| Bid Life Cycle (From Publish Date)                     | 90 (Days)   |
| Bid Offer Validity (From End Date)                     | 75 (Days)   |
| Ministry/State Name                                    | Ministry Of Agriculture And Farmers Welfare   |
| Department Name  | Department Of Agricultural Research And Education (dare)  |
| Organisation Name                                      | Indian Council Of Agricultural Research (icar)  |
| Office Name  | Central Institute Of Agricultural Engineering Bhopal  |
| Total Quantity   | 100   |
| Item Category  | LED Luminaire (Recessed Luminaire)  |
| 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<br>*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                                      | No  |
| Inspection Required                                    | No  |
| Estimated Bid Value                                    | 225000  |

### EMD Detail

|          |    |
|----------|----|
| Required | No |
|----------|----|

### ePBG Detail

|          |    |
|----------|----|
| Required | No |
|----------|----|

### Splitting

Bid splitting not applied.

### MSE Purchase Preference

|                         |     |
|-------------------------|-----|
| MSE Purchase Preference | Yes |
|-------------------------|-----|

1. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for

supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

## LED Luminaire (Recessed Luminaire) ( 100 pieces )

### Technical Specifications

[\\* As per GeM Category Specification](#)

| Specification  | Specification Name  | Values  | Bid Requirement (Allowed Values) |
|----------------|---|---|----------------------------------|
| STANDARDS      | Conformity to Indian Standard   | IS:10322/part 5/sec-2/2012 and IS 16107 (Part 2/Sec 1) : 2012 for Recess type | *                                |
|                | Photo biological safety of LEDs used shall be as per IS:16108/2012 (exempt group)                               | Yes   | *                                |
|                | DC or AC supplied electronic control gear for LED Module shall comply as per IS:15885 (Part 2/Sec.13)           | Yes   | *                                |
|                | Luminaire Class (as per Cl. 2.1 Section 2 of IS: 10322 (Part-1)   | Class I   | *                                |
|                | Types of LED Modules as per the IS: 16103(Part-2)/2012  | Type 3  | *                                |
|                | <b>Rating of Recess type LED Luminaire/System Wattage/Rated Power</b>   | 36W   | 36W                              |
|                | Light Intensity(System Lumens) 80 Lm/Watt for 3000 deg K, 90 Lm/Watt for 4000 deg K, 100 Lm/Watt for 6000 deg K | Yes   | *                                |
|                | Color tempeprature (+/- 500 K)  | 6000 deg K  | *                                |
|                | <b>Type of fixture (in feet)</b>  | 2x2(30W to 48W)   | 2x2(30W to 48W)                  |
| CONSTRUCTIONAL | Ingress Protection (IP Rating) as per IS:10322 (Part 1):1982 latest (Minimum)                                   | IP20  | *                                |
|                | Mounting type   | Recess type   | *                                |
|                | Diffuser material   | Poly carbonate (UV stabilised)  | *                                |
|                | The luminaire body must be corrosion resistant epoxy powder coated / anadozing                                  | Yes   | *                                |
|                | All fastners must be of nickel/chrome plated  | Yes   | *                                |

|                                  |   |  |   |
|----------------------------------|---|--|---|
| ELECTRICAL EFFICIENCY MANAGEMENT | Number of electronic control gear (power supplies)  | 1  | *   |
|                                  | Light Source  | SMD LED Chip as per LM 80/IS16106            | *   |
|                                  | Warranty for free replacement   | 2 Years                                      | *   |
|                                  | Operating Voltage and frequency range   | 140V to 280 V at 50 Hz AC                    | *   |
|                                  | Rated voltage   | 230 V AC 50 Hz                               | *   |
|                                  | AC Power Factor   | $\geq 0.90$                                  | *   |
|                                  | Driver Efficiency   | $\geq 85$                                    | *   |
|                                  | Total Harmonics Distortion ( $\leq 20\%$ (for upto 20W) ( $\leq 10\%$ (for above 20W)   | Yes  | *   |
|                                  | The total circuit power shall not be more than 110 percent of the value declared by the manufacturer (as per Cl 8 of IS:16104:2012 lates)                           | Yes  | *   |
| OPTICAL MANAGEMENT               | <b>LED chip Efficacy (<math>\geq 130</math> Lm/Watt for 6000 deg K, <math>\geq 120</math> Lm/Watt for 4000 deg K, <math>\geq 110</math> Lm/Watt for 3000 deg K)</b> | Yes, with higher efficacy $\geq 140$ Lm/Watt | Yes, Yes, with higher efficacy $\geq 140$ Lm/Watt |
|                                  | Working life for LED : (Minimum 50,000 burning hours as per LM-80 report)   | Yes  | *   |
|                                  | Colour Rendering Index(CRI)   | $\geq 80$                                    | *   |
|                                  | Beam Angle  | $\geq 120$                                   | *   |
|                                  | Reflector type  | Diffuser                                     | *   |
| THERMAL MANAGEMENT               | Fixture / Luminaire should be die-cast aluminium /CRCA/Extruded aluminium   | Yes  | *   |
|                                  | Capacitor shall be rated for a temperature of 105 deg. celsius or better  | Yes  | *   |
|                                  | Junction temperature / soldering temperature  | $< 85$ deg C                                 | *   |
|                                  | Operating temperature range   | -10 deg. C to +50 deg. C                     | *   |
|                                  | Humidity Range  | 10 % to 95% RH                               | *   |
| PROTECTION                       | Short circuit Protection  | Yes  | *   |
|                                  | Over load protecton   | Yes  | *   |
|                                  | High voltage test (1.5 KV for one minute between supply terminals and body of the unit)   | Yes  | *   |
|                                  | Insulation resistance between earth and current carrying part   | $> 100$ M ohm                                | *   |
|                                  | The luminaire shall be protected against surges and transients of $\geq 2.5$ KV   | Yes  | *   |

|                            |  |  |   |
|----------------------------|--|--|---|
| MARKING                    | Manufactures Name and brand shall available on the body of the Luminaire   | Engraved/Embsed  | * |
|                            | Each LED liminaire shall have the manufacturer's name, model number, serial number, 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 such as rated voltage and rated power in watts shall be marked inside each LED luminaire unit  | Yes  | * |
| REPORTS AND CERTIFICATIONS | LED Make   | EVERLIGHT / EDISON / BRIDGELUX / NATIONSTAR / SEOUL / SAMSUNG / OSRAM / REFOND / NICHIA / CREE / LUMILEDS / PHILIPS / SYSKA / LUMENMAX | * |
|                            | LM 79 (Photometry) (Ref.IS:16106:2012) report from Central Government LAB /NABL/ILAC accredited lab. Reports shall be furnish to the buyer on demand (LM-79 report shall have total lumen output, power, PF, Current in Amps, CRI & CCT etc.,)   | Yes  | * |
|                            | LM 80 &TM21(Ref. IS:16105:2012) Report and Photo biological report for LED report from Central Government Lab /NABL/ILAC accredited lab. Reports shall be furnish to the buyer on demand (LM-80 report shall have the Photo 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-2/2012 and IS 16107 (Part 2/Sec 1) : 2012   | Yes  | * |
|                            | Seller has to furnish Type test report to the buyer on demand  | Yes  | * |
|                            | DC or AC supplied electronic control gear for LED Module shall complpy as per IS:15885 (Part 2/Sec.13)   | Yes  | * |
|                            | LED Luminaire for rcess type shall comply with Complusory  | Yes  | * |

|  |  |  |
|--|--|--|
| Registration(CRS) of BIS for safety as per IS 10322 (Part 5/Section 2): 2012 as applicable on date |  |  |
|--|--|--|

\* 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     | Ramesh KumarTripathi        | 462038,Central Institute of Agricultural Engineering, Nabibagh, Berasia Road, Bhopal | 100      | 30            |

#### Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Only supply of Goods
- 2.IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
- 3.Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
- 4.The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.  
Applicable Concessional rate of GST : 5%  
Notification No.and date : Notification No. 47/2017-Integrated Tax (Rate) dated 14/11/2017

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

---Thank You---