

Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 20:00:00
Bid Opening Date/Time	21-07-2020 20:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	40 (Days)
Ministry/State Name	Maharashtra
Department Name	Rural Development And Panchayat Raj Department Maharashtra
Organisation Name	N/a
Office Name	Panchayat Samiti Bhandara
Total Quantity	5
Item Category	High Mast Pole with LED Flood Lighting System
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC) *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
Past Performance	50 %
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

1. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

High Mast Pole With LED Flood Lighting System (5 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERIC	Highmast with LED Luminaires contains High mast pole, LED flood light luminaire, Distribution box, MCB, Power cable, Wiring, Earthing rod and wire, Mounting brackets and other suitable accessories as applicable	Yes	*
	Installation and commissioning (Installation and commissioning work at multiple locations shall follow as per the guidelines of State/Central Govt., rules and regulations as applicable)	Yes. Including Civil work at site	Yes. Including Civil work at site
	Onsite warranty (in Years)	2	2
POLE	Tubular steel poles shall be conforming to	IS 2713/80(Part-1& 2) with amdt No-1 latest	*
	ISI Marked	No	No
	ISI Marekd if "Yes" BIS License Number (CM/L Number) - Must declare (If No write NA)	-	*
	Length of Tubular	9	9

LED FLOOD LIGHT LUMINAIRE	steel poles (in Metre)		
	Type of steel poles	Swaged (SP)	Swaged (SP)
	Designation of Tubular steel poles as per table 2 of IS 2713/80 Part-2 with amdt No 1	410SP-2	410SP-2
	Earthing arrangement as per Cl.14.1 of IS:2713:1980 Part 1 latest	Yes	Yes
	Coating on the tubular steel poles (for entire length)	Galvanised min. Mass of Zinc coating 360 Gms. sq. Mtr.,	Galvanised min. Mass of Zinc coating 360 Gms. sq. Mtr.,
	Grade of steel tube, as per IS:1161/1998	Yst 310	Yst 310
	Availability of Type Test Reports of the product from Central Govt/NABL/ILAC accredited Lab showing compliance to the specification (as per IS:2713:1980 Part 1, Part 2 latest).	Yes	*
	No. of Luminaires per pole	4 Nos. / pole	4 Nos. / pole
	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	100W	100W
	Luminaire System	>= 100 Lm/Watt	*

Efficacy (Lumen/watt)		
Ingress Protection (IP Rating) as per IS:10322 (Part 1):1982 latest	IP65	IP65
Mounting brackets (included)	Adjustable	*
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	*
AC Power Factor at full load	≥ 0.95	*
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	*
LED chip Efficacy	≥ 130 Lm/Watt	*
Colour temperature (+/-500K)	5000 K	5000 K
Working life for LED (Minimum 50,000 burning hours as per LM-80 report)	Yes	*
Colour Rendering Index(CRI)	≥ 70	*
Beam Angle	≥ 120	*
Optic lense materal (UV stabilised) (Write NA for without optic lense supply)	NA	NA
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	Yes	*

better		
Junction temperature	< 85 degC	*
Operating temperature range	-20 deg C to +50 deg C,	-20 deg C to +50 deg C,
Operating Humidity Range	10 % to 95% RH	*
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 between earth and current carrying part	>100 M ohm	*
The luminaire shall be protected against surges and transients (Internal)	>/=5KV	>/=5KV
The luminaire shall be protected against surges and transients of >/=10KV (External)	Yes	Yes
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	Yes	*

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.,		
Luminaries light transparency should be of Toughened glass	Yes	*
Toughened transparent glass cover thickness	≥ 4 mm	*
Toughened Glass shall not get discoloured shall not suffer degradation due to heat and ageing within warranty period	Yes	*
Number of electronic control gear per luminaire (power supplies) (in Numbers)	1	1
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)	100 cm	100 cm
Light Source	SMD LED Chip as per LM 80/IS16106	*
Manufactures Name and and brand on the aluminium die cast body	Engraved/Embossed	*
Manufacturer's name,	Yes	*

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 voltage and power be marked inside of each LED luminaire unit	Yes	*
LED Make	OSRAM / NICHIA/CREE / SAMSUNG / SEOUL / LUMILED / PHILIPS / EDISON / SYSKA / LUMENMAX / EVERLIGHT / BRIDGELUX / NATIONSTAR / REFOND,	OSRAM / NICHIA/CREE / SAMSUNG / SEOUL / LUMILED / PHILIPS / EDISON / SYSKA / LUMENMAX / EVERLIGHT / BRIDGELUX / NATIONSTAR / REFOND,
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	Yes	*

	of the LED Chip being used in the luminaire)		
	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	*
	DC or AC supplied electronic control gear for LED Module shall comply as per IS:15885 (Part 2/Sec.13)	Yes	*
	LED Luminaire for Flood 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	Yes	*
ACCESSORIES - G I Pipe	G.I. Pipe (ISI Marked) for earthing with all accessories per pole shall supplied	Yes	Yes
	G.I. Pipe length (in mm)	NA	NA
	G.I. Pipe dia	NA	NA
ACCESSORIES - G I Wire	ISI marked G.I. wire shall be supplied per pole for earthing	Yes	Yes
	G.I. wire dia (in mm)	2.64 mm	2.64 mm
	G.I. Wire length (in m)	15	15
ACCESSORIES - Power Cable	PVC Insulated, armoured power cable (ISI marked to IS:1554 Part 1) shall be supply per pole	Yes	Yes
	No. of core	3	3
	Cross sectional area of cable (in Sq.mm)	2.5	2.5, 4, NA
	Conductor material	Copper	Copper
	Cable category	NA	NA

	Length (in mtrs.,)	NA	NA
ACCESSORIES - Wiring	PVC insulated wiring cable (IS Marked to IS:694) shall be supply per pole	Yes	Yes
	No. of core	2	2, NA
	Cross sectional area of cable (in Sq.mm)	1.5	1.5
	Conductor material (for wiring)	Copper	Copper
	Cable category (for wiring)	Type C, FR-LSH	Type C, FR-LSH
	Cable length (in mtrs.,)	20	20
ACCESSORIES - MCB	Distribution Board with Switches & Terminals and ISI marked MCB per pole shall be supply with lighting system	Yes	Yes
	Distribution board for fixing MCB with enclosure protection	Yes. Provided with IP 43	Yes. Provided with IP 43
	Distribution Board per pole for fixing MCB with enclosure protection IP43 and above	Yes. Provided.	Yes. Provided.
	MCB - Rated current (in Ampere)	32.0 A	32.0 A
	No. of pole	1 Pole	1 Pole
	Rated Voltage	240 Volt	240 Volt
	Bracket for each pole : Mounting arrachement including suitable bracket for fixing the Luminaires with each pole. Bracket material shall be MS. Galvanised min. Mass of Zinc coating 360 Gms. sq. Mtr.,	Yes	Yes
CERTIFICATIONS	Marking: All the products shall have marking details as per relevant BIS standard	Yes	*
	Seller shall furnish all the test reports and	Yes	*

	certificates as per the technical specification to the purchase authority on demand		
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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	Pradip Pandhari Lanjewar	441904,PANCHAYAT SAMITI BHANDARA,TAHASIL-BHANDARA,DISTRICT-BHANDARA	5	30

Bid Specific Additional Terms and Conditions

1. 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.
2. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance: Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): Seller Must Upload the "FORMAT 7", AND SITE SURVEY REPORT ISSUE BY BUYER/CONSIGNEE
Post Receipt Inspection at consignee site before acceptance of stores: SELLER MUST UPLOAD THE ELECTRICAL CONTRACTOR LINCENSE
3. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. **End User Certificate:** Wherever Bidders are insisting for End User Certificate from the Buyer, same shall be provided in Buyer's standard format only.
5. Bid reserved for Make In India products: Procurement under this bid is reserved for purchase from Class 1 local suppliers as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document 50%. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost

auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

6. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
7. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
8. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
9. Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 1 year before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
10. ISO 9001: The bidder must have ISO 9001 certification.

11. Malicious Code Certificate:

The seller should upload following certificate in the bid:-

(a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-

- (i) Inhibit the desires and designed function of the equipment.
- (ii) Cause physical damage to the user or equipment during the exploitation.
- (iii) Tap information resident or transient in the equipment/network.

(b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

12. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.
13. 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)
14. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
15. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture

of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

16. The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

- (i) Single order of at least 35% of estimated bid value; or
- (ii) Two orders of at least 20% each of estimated bid value; or
- (iii) Three orders of at least 15% each of estimated bid value.

Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion

17. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

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

---Thank You---