

INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR
Supply, Installation and maintenance for different types of LED
Street Light, Flood Lights, High Mast Lighting and Solar LED
Lighting

SINGLE PART BID

EOI Ref: WEBEL/EOT/COM/19-20/00082

Dated: 11-02-2020

Issued By:-

West Bengal Electronics Industry Development
Corporation Limited (WBEIDCL)
Webel Bhawan, Block- EP & GP,
Sector-V, Salt Lake,
Bidhan Nagar,
Kolkata-700091, West Bengal

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DISCLAIMER

This Expression of Interest (EOI) contains brief information about the project, qualification requirements and the selection process for the successful applicant (Applicant). The purpose of this EOI document is to provide applicants (applicants) with information to assist the formulation of their bid application (the “application”).

Whilst the information in this EOI has been prepared in good faith, it is not and does not purport to be comprehensive or to have been independently verified. Neither West Bengal Electronics Industry Development Corporation Limited (WBEIDCL) , nor any of its officers or employees, nor any of their advisers accept any liability or responsibility for the accuracy, reasonableness or completeness of the information contained in the EOI, or for any errors, omissions or misstatements, negligent or otherwise, relating to the proposed project, or makes any representation or warranty, express or implied, with respect to the information contained in this EOI is based or with respect to any written or oral information made or to be made available to any of the recipients or their professional advisers and, so far as permitted by law and except in the case of fraudulent misrepresentation by the party concerned, and liability therefore is hereby expressly disclaimed.

The information (‘Information’) contained in this EOI document or subsequently provided to interested parties (the "applicant(s)), in writing by or on behalf of WBEIDCL is provided to applicant(s) on the terms and conditions set out in this EOI documents and any other terms and conditions subject to which such information is provided.

This EOI document is not an agreement and is not an offer or invitation by WBEIDCL to any other party. The terms on which the project is to be developed and the right of the successful applicant shall be as set out in separate agreements contained herein. WBEIDCL reserves the right to accept or reject any or all applications without giving any reasons thereof. WBEIDCL will not entertain any claim for expenses in relation to the preparation of EOI submissions.

NOTICE INVITING APPLICATION FOR EXPRESSION OF INTEREST (EOI)

EOI Ref: WEBEL/ EOT/COM/19-20/00082 Dated: 11-02-2020

West Bengal Electronics Industry Development Corporation Limited (WBEIDC Limited), nodal agency of Department of IT & E, Government of West Bengal (GoWB), invites application in form Of EOI for the work mentioned in the Table1. Application are invited from OEM’s (Original Equipment Manufacturer) with sufficient technical & financial capabilities. Submission of application should in offline process.

Table 1: Detail of the Scheme

Name of the Project	EOI Document Cost in INR (Non-Refundable) in form of Demand Draft drawn in favour of WBEIDC LTD.	Earnest Money Deposit in INR (Refundable) in form of Demand Draft drawn in favour of WBEIDC LTD.
Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting.	Rs. 1,000 (Rupees One Thousand Only)	Rs. 1,00,000 (Rupees One Lakh Only)

- a) Intending bidders are requested to download the tender documents from the website <https://www.webel.in/tenders> directly. Necessary cost of tender documents (tender fees) and Earnest Money Deposit (EMD) to be remitted through Demand Draft issued from any Scheduled Bank in favour of WBEIDC LTD payable at Kolkata.
- b) Submission of the Bid should be done as per the stated time schedule mentioned in “IMPORTANT DATES & INFORMATIONS” section of the EOI.
- c) For any queries regarding this EOI please contact General Manager (Commercial), e mail ID pratul.show@webel-india.com . No queries will be entertained after 14-02-2020. If tender committee feels, suitable corrigendum will be hosted in our website for the information of all prospective bidders.
- d) Exemption under NSIC the bidders (small scale units) who are registered with National Small Scale Industries Corporation, i.e., NSIC, UNDER SINGLE POINT REGISTRATION SCHEME for the TENDERED ITEMS are exempted from payment of bid security up to the amount equal to their monetary limit. A proof regarding current registration with NSIC for the TENDERED ITEMS will have to be attached along with the bid. Registration other than NSIC & under Single Point Registration Scheme) will not be entertained.

GENERAL GUIDANCE FOR SUBMISSION OF THE APPLICATION

Any Bidder willing to take part in the Expression of Interest will have search & download EOI Document(s) from the website <https://www.webel.in/tenders> directly. This is the only mode of collection of EOI Documents.

1. EOI are to be submitted through offline as per the timeline mentioned in the Table 2 as Single Part Bid i.e. only Technical proposal along with all statutory & eligibility documents as mentioned in Table 3 in sealed cover.
2. Bidders are requested to super scribe EoI no. & date & EOI title on the top of the envelope
3. Bidders are requested to submit Tender document Fee as mentioned above in a separate small sealed envelope with in the single Part Bid cover.
4. Instruction to mark the techno-commercial bid envelope The firm shall seal and mark the Techno Commercial Bid in one envelope super scribed with words:- " EXPRESSION OF INTEREST (EOI) FOR Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting ". " Tender no. WEBEL/EOT/COM/19-20/00082, dated 11-02-2020" & "Do Not Open Before 20-02-2020 12:00 Hrs". This envelope will also contain the EMD and Tender Document Fees (if the tender document is downloaded from the website) in a separate small envelope inside it.

IMPORTANT DATES & INFORMATION

Table 2: Fact Sheet

1.	EOI No. & Date	WEBEL/ EOT/COM/19-20/00082
2.	EOI Version	1.0
3.	Brief description of project	Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting.
4.	EOI document Fee in form of DD	Rs. 1,000 (Rupees One Thousand Only)
5.	Earnest Money Deposit in form of DD	Rs. 1,00,000 (Rupees One Lakh only)
6.	EOI issuing entity	West Bengal Electronic Industry Development Corporation Limited (WBEIDC LTD.)
7.	Date of uploading of EOI. & other Documents (Publishing Date)	Date 11-02-2020 , 19:00 Hrs.
8.	Last Date and time of sending the queries.	Date: 14-02-2020, 16:00 Hrs.
9.	Application Submission closing date & time (offline)	Date: 19-02-2020 , 14:00 Hrs.
10.	Application opening date & time for Technical Proposals (Offline)	Date: 20-02-2020 , 12:00 Hrs.
11.	Date of visit for Survey of Manufacturing Facility (If Required)	To be notified later.
12.	Contact Persons	Shri Pratul Show GM (Commercial) email: pratul.show@webel-india.com and Shri A.R Bhattacharya DGM (Dev) email: arup.bhattacharya@webel-india.com .

SECTION-A INTRODUCTION & OBJECTIVE OF THE PROJECT

This Expression of Interest (EOI) is being invited for Supply and Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting as per attached specification mentioned in Section C along with Central Controlled Monitoring System (CCMS) with Group Dimming Facility, as per specification mentioned in Section C in various places in West Bengal.

Application are invited from the intending OEMs/Applicants, who fulfils the eligibility criteria as a Manufacturer of LED Luminaries and satisfies the technical specification completely for the products & accessories and complying the other technical specifications fully.

Applicant/OEM must have their own In-House Design & Development, Testing and Manufacturing of LED Drivers and Luminaires. Random testing are to be made by Department or their authorized representative from any NABL accredited Lab and Factory.

Technically and commercially complied applicants would be empanelled initially for a period of 1 year, with a scope of further extension based on the decision of the Management of WBEIDC Ltd.

WBEIDC may float a tender among the empanelled bidders in case of any opportunity arises in similar field in future.

SECTION – B INSTRUCTION TO APPLICANT

1. Definitions

In this document, the following terms shall have following respective meanings:

“**Agreement**” means the Agreement to be signed between the successful consulting firm and West Bengal Electronics Industry Development Corporation Limited (WBEIDC LTD.) including all attachments, appendices, all documents incorporated by reference thereto together with any subsequent modifications, the EOI, the bid offer, the acceptance and all related correspondences, clarifications, presentations.

“**Applicant**” means successful consulting firm/Prime Applicant

“**Contract**” is used synonymously with Agreement.

“**Deliverables**” means the documents as mentioned in this EOI

“**Default Notice**” shall mean the written notice of Default of the Agreement issued by one Party to the other.

“**Fraudulent Practice**” means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract and includes collusive practice among Applicants (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the WBEIDC LTD. and eventually Govt. of West Bengal of the benefits of free and open competition.

“**Law**” shall mean any Act, notification, by law, rules and regulations, directive, ordinance, order or instruction having the force of law enacted or issued by the Government of India and/or the Government of West Bengal or any other Government or regulatory authority or political subdivision of government agency.

“**GoI**” means Government of India

“**LOI**” means issuing of Letter of Intent shall constitute the intention of the WBEIDC LTD. to place the Purchase Order with the successful consulting firm.

“**Services**” means the work to be performed by the Applicant pursuant to this Contract, as described in the detailed Scope of Work.

2. Cost of Bidding

The Applicant shall bear all costs associated with the preparation and submission of the bid. WBEIDC LTD shall not be responsible for these costs regardless of the conduct or outcome of the bidding process.

3. EOI Document

Applicant is expected to examine all instructions, forms, terms and requirement in the bid document. The invitation to bid together with all its attachment thereto shall be considered to be read, understood and accepted by the Applicant. No deviations will be accepted. Failure to furnish all information required by the bid document or a bid not substantially responsive to the bid document in every respect may result of the bid.

4. Amendment of EOI Document

At any time prior to the deadline for submission of proposals, WBEIDC LTD. reserves the right to add/modify/delete any portion of this document by issuance of a Corrigendum, which would be published on the website. The Corrigendum shall be binding on all applicants and will form part of the bid documents.

5. Modification and Withdrawal of Applications

The Applicant may modify or withdraw its bid after submission, before the deadline prescribed for bid submission.

6. Language of Application & Correspondence

The proposal will be prepared by the Applicant in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Applicant & WBEIDC LTD. will be in English language only. The correspondence by fax/E-mail must be subsequently confirmed by a duly signed formal copy.

7. Forfeiture of EMD

EMD by Applicant may be forfeited under the following conditions:

- If Applicant withdraws the proposal before the expiry of validity period.
- During the evaluation process, if a Applicant indulges in any such activity as would jeopardize the process, the decision of WBEIDC LTD. regarding forfeiture of EMD shall be final and shall not be called upon question under any circumstances.
- If Applicant violates any of the provisions of the terms and conditions of the proposal.
- In the case of a successful Applicant, if Applicant fails to:
 - a) Accept the work order along with the terms and conditions.
 - b) Furnish performance security.
 - c) Violates any of the work conditions of this proposal or indulges in any such activities as would jeopardize the work.
 - d) Submitting false/misleading information/declaration/documents/proof/etc.

The decision of WBEIDC LTD. regarding forfeiture of EMD shall be final and shall not be called upon to question under any circumstances, besides forfeiture of EMD the Applicant will be deferred from participating in any job for a period of one year.

8. Forms and Formats

The various inputs for the Technical and Commercial Applications are to be submitted in the format specified as per Annexure-III and Annexure IV respectively. The Applicant shall use the form, wherever specified, to provide relevant information. If form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information. For all other cases, the Applicant shall design a form to hold the required information.

9. Lack of Information to Applicant

The Applicant shall be deemed to have carefully examined the Bid document to his entire satisfaction. Any lack of information shall not relieve the Applicant of his responsibility to fulfil his obligation under the bid. If Applicant has any queries relating to bid document then he can send the queries before the Pre Bid Meeting.

10. Empanelment of Applicants

The applicants found to be technically and commercially compliant would be empanelled for a period of 1 year. With a scope of further extension based on the decision of the Management of WBEIDC Ltd. WBEIDC may float a tender among the empanelled bidders in case of any opportunity arises in similar field in future.

SECTION – C SCOPE OF WORK

This Expression of Interest (EOI) is being invited for Supply and Installation and maintenance for different types of LED Lights as per the categories mentioned below along with their specification. The controlling of the illumination system shall be carried out through Centralized Control & monitoring System-(CCMS) along with Central Controlled Monitoring System (CCMS) in various places in West Bengal.

A. General Technical Specifications

- I. Supply and Installation of different wattages of IP66 Smart Dimmable (where applicable) LED Streetlight / Flood Lights Luminaries, High Mast Lighting and Solar LED Lighting with integral driver and complete with pressure die cast aluminium housing with supplier word mark/name engraved/embossing on the die cast housing to allow traceability till life of fixture (Stickering / printing is not acceptable) and adhering to the following specifications: Group Dimmable property is applicable for the luminaries of rating 90W & above.
- II. The fixture shall be designed so as to have lumen maintenance of at least 70% at the end of 50,000 hours.
- III. The luminaries should be operable with auto adjustable 140-270V supply voltage using the same driver.
- IV. Power factor of the electronic driver should be at least 0.95 with THD<10% and efficiency of the driver to be more than 85%.
- V. The Luminaries should throw the perfect amount of uniform light with exactly the desired intensity and offer best pole spacing, along with better light control.
- VI. The Luminaries shall employ individual/ Matrix optical secondary lens for the each of the LED to ensure better uniformity of light distribution. The average minimum Lux level should be as per I.S. but not less than 20 Lux and maintaining uniformity 0.3.
- VII. The fixture should be impact resistant with suitable protection by using cover for driver and LED's, conforming to minimum IK05 impact resistance specifications.
- VIII. The fixture should be designed for IP66 ingress protection.
- IX. Heat dissipation should be managed through a built-in external heat-sink. The Luminaries shall deliver minimum 100 Lumen/watt, Colour Rendering Index of minimum 75 with cool white light output.
- X. The LED should be of modular design and module should be replaceable in case of any defect by the manufacturer.
- XI. LED Driver should be BIS certified. Make of LED's, Luminaries and LED driver should preferably of same manufacturer.

B. Electrical Specification

Make of Chip: CREE / NICHIA / LUMILEDS / OSRAM / SEOUL /SAMSUNG

Electrical Specification

Electrical ratings of the proposed luminaire product for the following criteria:

- i) Voltage range or rating: [140 volt – 260volt AC] on single phase - 140V to 270V
- ii) System lumen's per watt > 100
- iii) Frequency range (+/-5%) 50Hz
- iv) Power factor: ≥ 95
- v) Color temperature $\geq 5500\text{K}$
- vi) CRI >70%
- vii) Life Expectancy 50000 hrs with 70% Lumens
- viii) Total Input wattage to the fittings including driver losses
- ix) Protection Level IP 66
- x) Total Harmonic Distortion < 10%
- xi) Operating Temperature -20 Deg to +35 Deg C

C. Conformance Standards

All applicants need to furnish the details of

- I. The Luminary shall conform to IEC 60598 standard and the driver should comply with IEC 61347-2-13 for safety, IEC 61547, CISPR-15; and 610-3-2 for EMC
- II. Luminaries should be tested as per BIS 10322 and IEC 60598 standards and following test reports should be submitted along with the EOI: Heat Resistance Test, Electrical /Insulation Resistance Test, Endurance Test, Humidity Test, Electronics Test.
- III. For Luminous efficacy and light output, Photometry Test of the Luminaries LM79 report to be submitted from NABL Accredited Laboratory.
- IV. Lighting level should be as per IS1944.
- V. B.I.S. Certification for both driver & luminary.
- VI. In house testing lab certification by the manufacturer. The certificate must be validated from a third party lab which is accredited by NABL / Central Govt.
- VII. LM79 report should be provided by the manufactures from NABL Accredited Laboratory or UL certification for photometric & electrical testing report.

a. LM79 report to be submitted against each category of luminary from a NABL Accredited Laboratory along with the Type Test Certificate validated by a third party lab accredited by NABL / Central Govt., for the individual product batch no, which are to be supplied against the current EOI.

b. At least 100 Lumen per watt efficacy certification of the product.

c. Total wattage of the consumption should be mentioned.

VIII. The manufacturer should submit the Safety Standards as per EN 60598, EMC/EMI Standards as per EN61547/EN 55015 and EN 61000-3-2 & 61 000-3-3 for Harmonics.

IX. Manufacture should provide the certificate of LM80 report directly from the LED Chip Manufacture (CREE, LUMILED, OSRAM, NICHIA, SEOUL, and SAMSUNG).

X. The manufacturer should submit the following in-house testing facility along with bid for Quality checks:

1. Test Bench for High Voltage, Surge, and Burst & Voltage dips.

2. Test Chamber for humidity and temperature of environmental testing.

3. Photometry Laboratory with Gonio photometer or Integrating Sphere for complete light.

XI. The manufacturer should have experience of manufacturing of LED lights for at least 5 Years.

XII. Warranty certificate as per OEM is to be submitted by manufacture.

XIII. Manufacture should submit the certificate of over voltage and low voltage protection report from their own electrical lab.

XIV. The manufacturer to be certified that the product should be in built surge protection of 4 K.V. to 6 K.V. and separate external surge protection should be provided not less than 6K.V. to 10 K.V. for street light luminaries and 10 K.V. to 15 K.V. for flood light /High mast, integral to same housing.

XV. The product should supply having aluminium pressure die cast /Aluminium extruded heat sink should provide by the manufacture.

XVI. Lighting design of the road for High mast or street lighting with lux level calculation should be submitted by the manufacture as per National Lighting Code (NLC) Sp-72-2010.

XVII. The manufacturer should have in-house Design & Development facility for LED lights and for electronic drivers.

XVIII. The manufacturer should have an in-house manufacturing capability for LED lights, including for the manufacture of electronic drivers.

XIX. The products should meet Safety Standards with Photo Biological Safety norms as per IEC 62471/EN62471/ IS: 16108

XX. The electronic driver should work in the short circuit and open circuit conditions and should work in the voltage range 140 Volts to 270 Volts.

D. Testing Facilities

To ensure type testing of the products and to have quality control measures the applicants / Manufacturers should have following in-house testing facility, R&D facility.

1. HV Tester
2. Adequate number of electrical meters for measurement of different electrical parameter
3. Megger (500 Volt).
4. Resistance to heat
5. Measuring gauges such as Vernier Calliper, Micrometres, Dial gauges
6. NON contract IR based digital thermometer
7. Harmonic analyser and THD meter
8. Digital Weighting Machine
9. Power Analyser
10. Surge Tester
11. Temperature simulation facility to test various temperature parameters
12. Ingress protection test facility for dust and water jet
13. Dry Heat Camber Test
14. Electronically controlled Gonio Photometer or Integrating Sphere for Complete Light Fixture.

E. Scope for Installation and Maintenance :-

1. Supply, Installation and Commissioning of
 - a. LED Street Lighting System of different wattages along with CCMS including installation of new poles, cables, laying of cable, civil foundation, earthing etc. as per requirement and BOQ provided by the end customer
 - b. LED Flood Lighting System of different wattages along with CCMS including installation of new poles, cables, laying of cable, civil foundation, earthing etc. as per requirement and BOQ provided by the end customer
 - c. High Mast Lighting System with LED Flood Lights of different wattages along with CCMS including installation of new high mast, laying of cable, civil foundation, earthing etc. as per requirement and BOQ provided by the end customer
 - d. Solar LED Street Lighting System with Solar LED Light, Battery and PV module including installation of new poles, cables, laying of cable, civil foundation, installation of battery box (with battery) and panel mounting frame (with panel) as per requirement and BOQ provided by the end customer

The scope of installation includes Site Survey, Preparation and Submission of DPR mentioning all Techno-commercial aspects of the complete project according to maintenance period.

2. Scope of Maintenance

- a. Scope covers Comprehensive maintenance of the complete project as per DPR for min 3 years and Max 7 years from the date of installation.
- b. Keeping adequate spare parts, drivers in stock at the respective service centres
- c. A complaint Management System will be utilized by bidder for complaint loading, monitoring, action, attending and closure of complaints. WBEIDC LTD has the right to review of complaint handling process.
- d. Identification of faulty fixture shall either be through public, call centre, patrolling staff, customer official's data from CCMS, in addition to the inputs from dedicated call centre if specified under scope of work.
- e. Bidder should have the complaint report to keep record of complaints and/or through CCMS.
- f. Faulty fixture must be attended within 48 hrs of reporting.
- g. Bidder will maintain adequate stock of drivers, MCPCBs and other essential spares properly.
- h. For non-availability of input supply from WBSEDCL/CESC or any other fault in overhead line/phase/earthing should be reported to customer.
- i. Bidder must have a maintenance team which comprises of at least 1 technician & 2 helpers per 2000 lights or 1 ULB whichever is lower.
- j. Bidder must provide name and contact number of technicians to WBEIDC LTD when maintenance activity begins.

TECHNICAL SPECIFICATIONS OF CENTRALISED CONTROL AND MONITORING SYSTEM (CCMS)

The controlling of the illumination system shall be carried out through Centralized Control & Monitoring System – (CCMS) [Both Hardware & Software], for LED street lights installed under the scope. The CCMS system has to be provided by the Applicant for the total no. of lights connected from that unit. For the instant case, the applicants are advised to quote for a CCMS system for controlling 40 nos of Poles.

1. CCMS Storage System:

Server for storage of data -preferably dedicated server set-up or cloud based arrangement to ensure 100% guarantee of the real time data storage and archived data for the contract period.

2. Other Specifications:

- (a) The CCMS shall enable to receive & store of all the field data with a time stamp related with controlling, monitoring, fault detection, report generation & group dimming facilities.
- (b) The CCMS shall enable to display all the field data with a time stamp locally as well as in a single or multiple remote points through computer/mobile.
- (c) The CCMS system shall facilitate to communicate, control and configure the each controller remotely. It shall be suitable to manage & transfer the data traffic from the field to the Server or Cloud.
- (d) Operation Time - It should be able to record LED luminaires glowing & non-glowing hours of each phase under the Feeder Panel.
- (e) Report Generation – shall enable Users to generate various reports related to the system performance parameters such as energy consumed report, luminaire and system failure report, actual hours of operation, uptime & down time with percentage(%) of total time, Energy pilferage, Line conditions i.e. Voltage Current, Power factor etc. based on captured data on daily, monthly, quarterly or annually basis as well as in a customized manner as the case may be from the data/readings received from the units. The reports shall be generated in Excel as well as Graphical format.

3. Use end features of CCMS:

CCMS hardware & software should be capable to provide the features.

1. Control and monitoring of the street lights connected to the CCMS system.
2. Local & Remote Energy Measurement & display for individual phase as well as for the entire network.
3. Real time measurement & display (Local & Remote), for Voltage (V), Current (I), Power(W), Power Factor (PF), Apparent Energy, Active Energy, Operating Hours of each street light in the circuit.
4. Group dimming in Step via suitable technology for 90W and more wattage lights.
5. Report Generation for Energy Reading, Luminaire Failures, Active Lights, Inactive Lights, Active Panels in Network, Power theft, daily/weekly/monthly reports, Energy savings due to dimming activity etc.
6. Morning Report Generation for the faulty lights per Panel basis.
7. Evening report Generation to monitor the rectification of faults taken place during the day.
8. Continuous monitoring of Energy pilferage in the Power Line.
9. Alarm Generation in the event of following critical situations at the Central Control Room Server or in the pre assigned mobile phones:-
 - i) Phase-wise current alarm on crossing a pre-set threshold value.
 - ii) Phase-wise voltage alarm on crossing pre-set threshold value.
 - iii) Energy Theft alert.
 - iv) Failure of lights.

- v) No output supply to street lights.
- vi) Mains supply failure in the CCMS system.
- vii) Over Burning hour beyond the scheduled time.

A live demonstration of CCMS system compatible with quoted LED lights for group dimming facility and other features as mentioned above to be arranged by the OEM before finalization of this EOI.

TECHNICAL SPECIFICATIONS FOR WHITE-LED BASED SOLAR STREETLIGHTING SYSTEM

1. PV module, under STC, 75 Wp or more Suitable for meeting the Autonomy
2. Battery Minimum 12.8V, 30 AH or suitable capacity Lithium Ferro Phosphate Battery to meet desired autonomy.
3. Light Source White Light Emitting Diode (W-LED) W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser. LED Chip should be compliance to IES: LM-80 (Approved Method for Measuring Lumen Maintenance of LED Light Sources and LED lumen depreciation time to L70). Test report for same should be submitted.
4. Light Output of the luminaire must use high efficacy W-LED with minimum 135 lumens per watt (and UV free). A certificate to be submitted by the System supplier to the Test Lab during Certification. For single light level: Minimum 24 Lux when measured at a point 4 meters below the light. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
5. For Multiple Light levels: The luminaire should have step dimming of light to take care of different lighting needs during the night. Minimum 24 Lux when measured at a point 4 meters below the light the illumination should be uniform without dark bands or abrupt variations. Minimum 12 Lux at lower illumination level. (Higher light output will be preferred)

The luminaire shall be tested for Electrical, Photometry and Colour parameters as per IES LM-79:2008 or IS: 16106:2012 for following performance parameters like:

- 1) Total luminous flux: ≥ 1500 lm.
- 2) Luminous efficacy (i.e. system efficacy): ≥ 125 lm/W.
- 3) Colour Temperature: Between 5500 K to 6500 K.
- 4) CRI ≥ 70
- 5) The luminaire should be tested for all type tests as per IS10322 Part 5 Sect 3 or IEC 60598-2-3 standards.
- 6) Mounting of light - Pole height 5 m above the ground level and 1 m below the ground. Luminaire shall be at least 4.5 m above the ground level.

- 7) Electronics Efficiency Overall total Efficiency of the Electronics should be Minimum 90%
- 8) Duty Cycle Dusk to dawn: First 4 Hours full light (Min. 24 Lux), rest of the time at lower light (50%, Min. 12 Lux) level. (Higher light output will be preferred)
- 8) Autonomy 3 days or Minimum 36 operating hours per permissible discharge with fully charged Lithium-Ferro Phosphate Battery.
- 9) Ingress Protection – IP
- 10) Optical and Control gear compartment - IP 65 / IP 66
- 11) Impact resistance of casing \geq IK 08
- 12) Radiated Emission Test as per CISPR-15
- 13) ESD (Electrostatic Discharge) and Radiated susceptibility test As per IEC 61.

SECTION - D GENERAL TERMS AND CONDITIONS

- 1) **Amendment of Invitation.** At any time 1 days prior to the deadline for submission of proposals, WBEIDC reserves the right to add / modify /delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to all the Applicants who have been issued the EOI document. The Corrigendum shall be binding on all applicants and will form part of the bid documents (Techno Commercial as well as Price Bid).
- 2) **Amendment of Proposals.** In order to afford prospective Applicant reasonable time to make amendment in their proposals, WBEIDC may, at its discretion, extend the deadline for the submission of proposals. However, no such request in this regard shall be binding on WBEIDC.
- 3) **Assignments Assignment of the job** to third party is not allowed without the consent of WBEIDC Ltd.
- 4) **Rejection of Application** Any deviation from the given specification and make, will be treated as rejected.
- 5) **Canvassing** or support in any form for the acceptance of any EOI is strictly prohibited. Any Applicant doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.
- 6) **Clarification Regarding EOI Document** a prospective Applicant requiring any clarification about the tender document and scope of work may contact the person through e-mail / letter as mentioned above in EOI.
- 7) **Discrepancies and Adjustment thereof** Discrepancy between description in words and figures, the rate, which corresponds to the words quoted by the Applicant, shall be taken as correct. Discrepancy in the amount quoted by the Applicant due to calculation mistake of the unit rate, the unit rate shall be regarded as firm. Discrepancy in totalling or carry forward in the amount quoted by the Applicant shall be corrected.
- 8) **Disputes and Arbitrations** In case of any dispute or differences, breach and violation relating to the terms of this agreement, the said dispute or difference shall be referred to the sole arbitration of Managing Director, WBEIDC Ltd. or any other person appointed by him. The award of the arbitrator shall be final and binding on both the parties. In the event of such arbitrator to whom the matter is originally referred to vacates his office on resignation or otherwise or refuses to do works or neglecting his work or being unable to act as arbitrator for any reason whatsoever, the Managing Director shall appoint another person to act as arbitrator in the place of outgoing arbitrator and the person so appointed shall be entitled to proceed further with the reference from the stage at which it was left by the predecessor. The Contractor will have no objection in any such appointment that arbitrator so appointed is employee of WBEIDC Ltd. The adjudication of such arbitrator shall be governed by the

provision of the Arbitration and Conciliation Act, 1996, or any statutory modification or re-enactment thereof or any rules made thereof. The arbitration shall be held in Kolkata only.

- 9) **Force Majeure Condition** If the execution of the contract/supply order is delayed beyond the period stipulated in the supply order as result of outbreak of hostilities, declaration of an embargo or blockade of road, fire, flood or any such act of nature, then WBEIDC LTD may allow such additional time by extending the project execution timeframe as considered to be justified by the circumstances of the case and its decision will be final. If additional time is granted by the WBEIDC LTD, the supply order shall be read and understood as if it had contained from its inception the execution date as extended.
- 10) **Formats and Signing of Proposals** The original proposal shall be neatly typed and shall be signed by an authorized signatory / signatories on behalf of the Applicant. The authorization shall be provided by written Power of Attorney accompanying the proposal. The person or persons signing the proposal shall initial all pages of the proposal, except for un-amended printed literature. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Applicant, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words / figures completely.
- 11) **Governing Laws** This EOI Document and the contract shall be governed by and interpreted in accordance with Laws in force in India the courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract.
- 12) **Language of Proposal & Correspondence** the proposal submitted by the Applicant should be in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Applicant & WBEIDC will be in English language only. A duly signed formal copy must subsequently confirm the correspondence by Fax / e-mail.
- 13) **Non-eligibility of Application by Webel Group Company** No Webel Group Company allowed to apply in WBEIDC EOI, and Applications will be summarily disqualified if received from any WEBEL group company.
- 14) **Cancellation of PO** WBEIDC Ltd. reserves the right to cancel Purchase Order if the agreed delivery schedule is not adhered to by the supplier. Any loss arising out of such delay in the supply of the equipment / service, shall be on the supplier account.
- 15) **Withdrawal from EOI** any Applicant may withdraw his application by written request at any time prior to the scheduled closing time for receipt of EOI and not thereafter.
- 16) **Any Financial information/indication regarding rates will not be accepted** and bid will be treated as rejected. The decision of the 'Tender Evaluation Committee' will be final and absolute in this respect.

SECTION E-SPECIAL TERMS AND CONDITIONS

- 1) **Consignee Details:** West Bengal Electronics Industry Development Corporation Limited.
- 2) **Empanelment period:** - The contract would be valid for 1 year.
- 3) **Delivery Locations:** The items needs to be delivered installed at various location West Bengal.
- 4) **Payment Terms:** - The following payment terms as mentioned below may be considered during preparation of EOI. Actual payment terms will be mentioned in the subsequent tender (if any), in accordance with the payments terms decided by the end customer.
 1. 50% upfront payment against completion of project and balance 50% in annuity mode (bi-annually) for 7 years.
 2. 100% payment against completion of project and bill submission
- 5) **Warranty Support** - the equipment along with the solution supplied will be warranted for “Min 3 years to Max 7 years, as required and mentioned in the tenders” from the date of ACCEPTANCE of the system whole or part. Service support for the entire warranty period will be ONSITE and COMPREHENSIVE and free of cost for the entire warranty period.
- 6) **Warranty** the Applicant will warranty that products supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The Applicant would be responsible for the up keep and maintenance of the infrastructure and necessary deliverables under the scope of work during the entire on-site warranty period “AS PER OEM” from the date of FINAL ACCEPTANCE of the system by the customer. The Applicant shall not, without the express prior written consent of WBEIDC, assign to any third party of the contract or part thereof. Service support for the entire warranty period will be on site and comprehensive and free of cost for the entire warranty period.

Note: OEM has to clearly mention the warranty terms in the Technical Proposal.

SECTION F-ELIGIBILITY CRITERIA FOR PARTICIPATION IN THE EOI

Table 3

<u>SL NO</u>	<u>CRITERIA</u>	<u>DESCRIPTION</u>	<u>DOCUMENTS TO BE SUBMITTED</u>
1	MANUFACTURING FACILITY	Applicant/OEM should at least have one of its own manufacturing facility with test set up in Kolkata and in operation for at least 5 years in LED luminaire manufacturing	Relevant Document has to be submitted
2	ISO CERTIFICATION	Should have Valid ISO 9001:2015 & ISO 14001:2015 Certification	Copies of the necessary certificates are to be submitted
3	ANNUAL TURNOVER	Should have turnover of more than Rs. 50 crores in LED Luminaire business.	Extracts from the Balance sheet and Profit & Loss/Certificate from the statutory auditor or Chartered Accountant/Self Certification by Managing Director or equivalent authorized signatory of the firm
4a.	WORK EXPERIENCE	Applicant/OEM should have experience in Project execution of Urban and Rural Street Lighting/High Mast and Solar LED Street Light project including erection & installation of street light poles, luminaries, feeder pillars, cabling, earthing etc. with Centrally Controlled & Monitoring System (CCMS).	Completion Certificate along with the Work Order issued by the customer has to be submitted.
4b.	WORK	1. Must have supplied	Work Order

	EXPERIENCE	<p>minimum 10,000 LED Street Light Luminaries for any Street Lighting Project under with CCMS any Govt., Semi Govt., Govt. Undertaking body within last two years.</p> <p>2. Must have executed one single work order of installation and commissioning of LED Street Lights / High Mast Lighting system with CCMS worth not less than 20.0 Cr from any Municipalities /Municipal Corporations/Development Authorities in West Bengal during last 3 years</p>	/Completion Certificate issued by the customer has to be submitted.
4c.	WORK EXPERIENCE	Must be experienced in maintenance of LED Street Lights & Flood lights for min 5 years.	Work Order/Completion Certificate along with the Work Order issued by the customer has to be submitted.
5.	LOCATION OF SERVICE CENTER.	Should have Service Centre in West Bengal and service facilities /service franchises in major districts of West Bengal.	Relevant Document has to be submitted.
6.	LICENSE	Should have a valid Electrical Contractor & Supervisory License.	Copies of the necessary certificates are to

			be submitted
7.	Other legal documents	<ul style="list-style-type: none"> • Certificate Of Incorporation • Trade License • GST Certificate • Income Tax Return (Latest 5 years) • Copy of PAN • Articles of Association/ Company Registration (depending on company type) • ESI • PF 	Copy of the valid documents
8.	Blacklisting	The responding firm must not be blacklisted by any Department of Government of West Bengal for breach of ethical conduct or fraudulent practices.	A self-declaration that the bidder has not been blacklisted is to be submitted. In case it is found after issuing Work Order that the concerned organization is blacklisted by any of the Department of Government of West Bengal, the work order will be cancelled.

ANNEXURE-I APPLICATION FORM

(To be submitted on the letterhead of the Applicant)

(Date)

To,
General Manager (Commercial),
WBEIDC,
Webel Bhavan, Block-EP & GP, Sector-V,
Salt Lake, Bidhan Nagar, and Kolkata:-700091

Ref: WEBEL/ EOT/COM/19-20/00082

Sub: Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting.

Dear Sir/Madam,

We have examined the EOI document, we, the undersigned, herewith submit our EOI in response to your EOI no. WEBEL/ EOT/COM/19-20/00082 dated 11-02-2020 for “Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting”, in full conformity with the said EOI document.

- i. We have read the provisions of the EOI document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our EOI shall not be given effect to.
- ii. We agree to abide by this EOI, consisting of this letter, the detailed response to the EOI and all attachments, for a period of 180 days from the date of submission of the bid.
- iii. We would like to declare that we are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment and we are not under a declaration of ineligibility for corrupt or fraudulent practices
- iv. We would like to declare that there is no conflict of interest in the services that we will be providing under the terms and conditions of this EOI.
- v. We hereby declare that all the information and statements made in this EOI are true and accept that any misrepresentation contained in it may lead to our disqualification.
- vi. We understand you are not bound to shortlist / accept any EOI you receive
- vii. We have submitted EMD of Rs_____ and EOI Fees of Rs._____ in form of Demand Draft drawn in favour of WBEIDC LTD.

Sincerely,

Signature of Authorized Signatory and Seal of the Applicant

Name:

Designation:

Date:

ANNEXURE-II TECHNICAL PROPOSAL

(To be submitted on the letterhead of the Applicant)

The Applicant has to attach a technical proposal sheet as per specification mentioned in the following format.

All the offered products along with Make, Model, Products Description and data sheets/brochure has to be submitted:-

TABLE:-4

SL NO	OFFERED MAKE & MODEL	DESCRIPTION OF ITEMS	COMPLINACE (YES/NO)	DOCUMENTS SUBMITTED.

ANNEXURE– III MANPOWER DETAILS

(To be submitted on the letterhead of the Applicant)

The Applicant has to attach a detailed manpower list in the following format.

All the manpower details must be supported with relevant documents:-

TABLE 5:-

SL NO	SKILL SET	TOTAL NUMBER OF MANPOWER	SUPPORTING RELEVANT DOCUMENTS.
1	MANAGERIAL		
2	PRODUCTION AND DEVELOPMENT		
3	SERVICE & QUALITY ASSURANCE		
4	IT & ITES SUPPORT		

ANNEXURE-IV SERVICE CENTER DETAILS

(To be submitted on the letterhead of the Applicant)

The Applicant should provide the service centre and details as per the format given below:-

The Service facility would be verified by the tendering authority.

TABLE 6-

SL NO	LOCATION DETAILS	NUMBER OF SERVICE ENGINEERS

ANNEXURE-V DECLARATION FOR ELIGIBILITY CRITERIA:

<<To be printed on lead bidder company’s letterhead and signed by Authorized signatory>>

ELIGIBILITY CRITERIA FOR BIDDER

<u>SL N O</u>	<u>CRITERIA</u>	<u>DESCRIPTION</u>	<u>DOCUMENTS TO BE SUBMITTED</u>
1	MANUFACTURING FACILITY	Applicant/OEM should at least have one of its own manufacturing facility with test set up in Kolkata and in operation for at least 5 years in LED luminaire manufacturing	Relevant Document has to be submitted
2	ISO CERTIFICATION	Should have Valid ISO 9001:2015 & ISO 14001:2015 Certification	Copies of the necessary certificates are to be submitted
3	ANNUAL TURNOVER	Should have turnover of more than Rs. 50 crores in LED Luminaire business.	Extracts from the Balance sheet and Profit & Loss/Certificate from the statutory auditor or Chartered Accountant/Self Certification by Managing Director or equivalent authorized signatory of the firm
4a.	WORK EXPERIENCE	Applicant/OEM should have experience in Project execution of Urban and Rural Street Lighting/High Mast and Solar LED Street Light project including erection & installation of street light poles, luminaries, feeder pillars, cabling, earthing etc. with Centrally Controlled & Monitoring System	Completion Certificate along with the Work Order issued by the customer has to be submitted.

		(CCMS).	
4b.	WORK EXPERIENCE	<p>1. Must have supplied minimum 10,000 LED Street Light Luminaries for any Street Lighting Project under with CCMS any Govt., Semi Govt., Govt. Undertaking body within last two years.</p> <p>2. Must have executed one single work order of installation and commissioning of LED Street Lights / High Mast Lighting system with CCMS worth not less than 20.0 Cr from any Municipalities /Municipal Corporations/Development Authorities in West Bengal during last 3 years</p>	Work Order /Completion Certificate issued by the customer has to be submitted.
4c.	WORK EXPERIENCE	Must be experienced in maintenance of LED Street Lights & Flood lights for min 5 years.	Work Order/Completion Certificate along with the Work Order issued by the customer has to be submitted.
5.	LOCATION OF SERVICE CENTER.	Should have Service Centre in West Bengal and service facilities /service franchises in major districts of West Bengal.	Relevant Document has to be submitted.
6.	LICENSE	Should have a valid Electrical Contractor &	Copies of the

		Supervisory License.	necessary certificates are to be submitted
7.	Other legal documents	<ul style="list-style-type: none"> • Certificate Of Incorporation • Trade License • GST Certificate • Income Tax Return (Latest 5 years) • Copy of PAN • Articles of Association/ Company Registration (depending on company type) • ESI • PF 	Copy of the valid documents
8.	Blacklisting	The responding firm must not be blacklisted by any Department of Government of West Bengal for breach of ethical conduct or fraudulent practices.	A self-declaration that the bidder has not been blacklisted is to be submitted. In case it is found after issuing Work Order that the concerned organization is blacklisted by any of the Department of Government of West Bengal, the work order will be cancelled.

ANNEXURE – VI FORMAT FOR APPLICANTS PARTICULARS.

<<To be printed on bidder company’s letterhead and signed by Authorized signatory>>

To,
 The General Manager (Commercial)
 WBEIDC Ltd
 Webel Bhavan, Block-EP & GP, Sector-V,
 Salt Lake, Bidhan Nagar, and Kolkata:-700091.

SL NO	DESCRIPTION	DETAILS
1	Name of the company	
2	Official address	
3	Phone No. and Fax No.	
4	Corporate Headquarters Address	
5	Phone No. and Fax No.	
6	Web Site Address	
7	Details of Company’s Registration (Please enclose copy of the company registration document)	
8	Name of Registration Authority	
9	Registration Number and Year of Registration	
10	Quality Certificates and its validity	
11	GST registration No.	
12	Permanent Account Number (PAN)	
13	Corporate Identity Number (CIN)	

ANNEXURE- VII DECLARATION FOR NOT BLACKLISTED.

(Self-declaration for not being blacklisted by any Government Entity)
(To be submitted on the Letterhead of the responding firm)

To,
The General Manager (Commercial)
WBEIDC Ltd
Webel Bhavan, Block-EP & GP, Sector-V,
Salt Lake, Bidhan Nagar, and Kolkata:-700091

Ref: Supply, Installation and maintenance for different types of LED Street Light, Flood Lights, High Mast Lighting and Solar LED Lighting. WEBEL/EOT/COM/19-20/00082 DATED 11-02-2020

Dear Sir,

In response to the above mentioned EO
I/We _____ as _____ <Designation> of M/s _____, hereby declare
that we are not blacklisted or ineligible to participate for bidding by any State/Central Government,
Semi-Government or PSU.

Sincerely,
Signature of Authorized Signatory and Seal of the bidder Name:
Designation: