

GOA ENERGY DEVELOPMENT AGENCY (GEDA)

TENDER NO. 1/5/ GEDA/SSLs/DF/2023-24/ 147

DATE :- 16/05/2023.

BID DOCUMENT FOR

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF LED BASED SOLAR STREET LIGHTING SYTSEMS (SSLs) OF SINGLE AND TWO ARMS MODEL AT FISHING RAMP AT BADEM, ASSAGAO, BARDEZ, BRACKISH WATER FISH FARM AT OLD GOA, FISHERIES TRAINING CENTRE AT DHAUJI, OLD GOA, FRESH WATER FISH SEED HATCHERY AT KERI SATTARI, SAWANTWADA, AMONA-BICHOLIM IN NORTH GOA DISTRICT AND FISHING RAMP, MUXER,VELLIM-SALCETE, FISHERIES COMPLEX, COLVA- SALCETE, NET MENDING SHED AT KINDLEBAG, CANACONA, TALPONA FISHING JETTY, CANACONA AND NEAR FISHERIES SUB OFFICE, CUTBONA IN SOUTH GOA DISTRICT WITH COMPREHENSIVE MAINTENANCE CONTRACT FOR 5 YEARS .

TENDER NO. 1/5/ GEDA/SSLs/DF/2023-24/147

DATED :- 16/05/2023.

TENDER DOCUMENT

Member Secretary
GOA ENERGY DEVELOPMENT AGENCY(GEDA)
5th Floor, Goa-IDC Building
Patto-panaji-Goa
Phone No: - 0832 - 2437401 / 2437402
E-mail ID: - gedagoa@yahoo.com
www.geda.goa.gov.in

TENDER NOTICE

NO: 1/5/ GEDA/SSLs/DF/2023-24/147

Date:- 16/05/2023.

Member Secretary, Goa Energy Development Agency (GEDA), Panaji- Goa invites the E-TENDER for design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems of single and two arms model at 1.Fishing Ramp at Badem, Assagao 2.Brackish Water Fish Farm at old Goa 3. Fresh Water Fish Seed Hatchery at Keri, Sattari 4. Sawantwada, Amona- Bicholim 5. Fisheries Training Centre at Dhauji, old Goa in North Goa District 6. Fishing Ramp , Muxer , Vellim- Salcete 7. Net Mending shed at Kindlebag, Canacona, 8. Talpona Fishing Jetty, Canacona 9. Near Fisheries Sub Office, Cutbona 10. Fisheries Complex Colva , Salcete in South Goa District with Comprehensive Maintenance Contract (CMC) for 5 years.

Name of the work	Estimated cost	Earnest Money Deposit (EMD)	Cost of Tender document (Rs.)	Tender Processing Fee (Rs.)
	Mode of payment : e-payment only			
Tender for design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems (SSLs) with single arm model (228 Nos.) and two arms model (64 Nos.) with pole and fixture with comprehensive maintenance contract for 5 years	₹ 64.62 lakhs	2 % of the Estimated Value ₹1,29,240/-	₹2500/-	₹6000/- only

The cost of Tender Document, Earnest Money (EMD) and the Tender Processing Fee shall be paid via e-payment mode. The detailed notice, eligibility criteria and tender document can be downloaded from <https://eprocure.goa.gov.in>. Any further notice/information related to this tender shall be uploaded on online mode. GEDA reserves the right to reject any or all bids without assigning any reason thereof.

Details of Tender Schedule of e-bid

1.The last date of online submission of tender is 26/05/2023 upto 17:30 hrs.

2.The date & time of opening of online technical Bid is 29/05/2023 after 11.30 hrs in the office of the Member Secretary, Goa Energy Development Agency (GEDA), Panaji.

Note: In case of any Holiday on the scheduled day, same time on the next working day shall be considered unless notified.

Online mode of submission of Technical and Financial Bid is mandatory. Manual submission of any bid will not be accepted and will be rejected without any notice thereof. The bidder should scan & upload all the documents on the e-Tender website i.e. <https://eprocure.goa.gov.in>. If the Bidder fails to submit the (online) required documents as above, the bidder is likely to be rejected at the discretion of the Member Secretary, GEDA, Panaji, Goa.

Sd/-

(Sanjeev Joglekar)
Member Secretary (GEDA)

DISCLAIMER

1. Though adequate care has been taken while preparing the Tender document, the Bidders shall satisfy themselves that the document is complete in all respect. Intimation regarding any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten (10) days from the date of notification of Tender Notice/ issuance of e-Tender documents, it shall be considered that the document is complete in all respect and has been received / acknowledged by the Bidder(s).
2. GEDA reserves the right to modify, amend or supplement this document at any time.
3. While this tender document has been prepared in good faith, neither GEDA nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this document, even if any loss or damage is caused by any act or omission on their part.

Place: Panaji, Goa

Date: 16/05/2023

INTERPRETATIONS

1. Words comprising the singular shall include the plural & vice versa.
2. An applicable law shall be construed as reference to such applicable law including its amendments or re-enactments from time to time.
3. A time of day shall save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
4. Different parts of this contract are to be taken as mutually explanatory and supplementary to each other and if there is any differentiation between or among the parts of this contract, they shall be interpreted in a harmonious manner so as to give effect to each part.
5. The table of contents and any headings or sub headings in the contract has been inserted for case of reference only & shall not affect the interpretation of this agreement.

PARTICULARS OF TENDER

Sr. No.	Particular	Details
1	Tender Notice No.	1/5/ GEDA/SSLs/DF/2023-24 /147 Date:- 16/05/2023.
2	Particulars of the works	Tender for design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems (SSLs) with single arm model (228 nos.) and two arms models (64 nos.) with pole and fixture with 05 years warranty.
3	Cost of Tender Document	Rs. 2500/-
4	Earnest Money Deposit (EMD)	₹ 2 % of the Estimated Value 1,29,240/-
5	Validity of offer for acceptance	180 days from the date of opening of the Tender
6	Address for communication and Venue for Tender opening	Office of the Member Secretary Goa Energy Development Agency 5 th Floor, Patto-Panaji-Goa Phone No: - 0832 - 2437401 /2437402 E-mail ID: - gedagoa@yahoo.com
7	Security Deposit:	The Security Deposit equivalent to 2.5% of the Project Cost to be deducted from invoice. The Security Deposit will be retained for the period of 05 years from the date of commissioning
8	Last date & Time for submission of Bids	26/05/2023 upto 17.30 hrs.
9	Date & Time of opening of Technical Bid	29/05/2023 at 11.30 hrs.
10	Performance Bank Guarantee	The Performance Bank Guarantee (PBG) of 5% of the Project Cost should be submitted by the successful bidder on acceptance of work order. The PBG will be returned on successful completion of works.

Note:1. The Tender document can be obtained from <https://eprocure.goa.gov.in>.

2. Tender document submitted online will only be considered valid.

SECTION-I

BID INVITATION

- Brief Description of the Bidding Process.
- The Member Secretary (GEDA), invites eligible bidder to submit a bid in accordance with the provisions of this Tender Document. In this Tender Document, the term "Bidder", which expression shall, unless repugnant to the context, include all parties who have submitted bids in response to this Tender Document within the stipulated time frame for submission.
- The Bidders shall submit the bids in two parts by following e-tendering process described in bidding documents. First part comprises of the technical bid and the second part comprise of the financial bid in accordance with this Tender Document.
- In terms of the Tender Document, a Bidder will be required to deposit, along with its Bid, a bid security as Earnest Money Deposit (EMD).
- The cost of Tender Document, Earnest Money Deposit (EMD) and the Tender Processing Fee shall be paid via e-payment mode.
- GEDA will open the technical bid of the Bidder, by e-tendering process. The financial bid will be open to those bidders who qualify in technical bid.
- The Bidder's Names, Bid prices and the presence or absence of the requisite and such other details as GEDA, at its discretion, may consider appropriate will be announced at the time of opening.

Bidders may in their own interest are advised to make a preliminary Survey/Site visit at above all mentioned places of North and South Goa District. GEDA will not be responsible for any incidental or consequential losses of the bidders while execution and till expiry of the period of maintenance.

The detailed notice, eligibility criteria and tender document can be downloaded from <https://eprocure.goa.gov.in>. Any further notice/information related to this tender shall be uploaded on online mode. GEDA reserves the right to reject any or all bids without assigning any reason thereof.

Online mode of submission of Technical and Financial Bid is mandatory. Manual submission of any bid will not be accepted and will be rejected without any notice thereof. The bidder should scan & upload all the documents on the e-Tender website i.e. <https://eprocure.goa.gov.in>. If the Bidder fails to submit the (online) required documents as above, the bidder is likely to be rejected at the discretion of the Member Secretary, GEDA, Panaji, Goa.

For detailed tender notice and participation please visit the Tender website <https://eprocure.goa.gov.in>.

For details please contact:
Member Secretary,
Goa Energy Development Agency,
5th floor, Goa IDC building, Patto-Panaji, Goa.
Phone:(0832) 2437401 / 2437402
e-mail: gedagoa@yahoo.com, Website:www.geda.goa.gov.in.

For assistance on e-Tender, please contact For more assistance on e- procure on Mobile- 7972871944 & 7972854213 Email:- eprocure.goa.gov.in

Sd /-
(Sanjeev Joglekar)
Member Secretary (GEDA)

SECTION –II

DETAILED TENDER NOTICE

Name of Work:-

Design, manufacture, supply, installation, testing, commissioning of LED Based Solar Street Lighting System (SSLs) with single arm model (228 Nos.) and two arms model (64 Nos.) with pole and fixture with 05 years warranty in the state of Goa details as under:

1. INTRODUCTION

The Goa Energy Development Agency (GEDA) exclusively to undertake all programme in the field of New and Renewable energy sources. The main objective of the GEDA is to implement renewable energy schemes and to supply Solar Street Lighting System (SSLs) as per the requirement of the respective beneficiary to conserve electrical power by using renewable energy and illuminate the sites to fulfill minimum needs by providing necessary funds related to new and renewable Energy.

GEDA call for Tender for the implementation of Design, manufacture, supply, installation, testing, commissioning of total 292 Nos. LED Based Solar Street Lighting System (SSLs) with single and two arm model with pole and fixture with 05 years warranty in the state of Goa details as under:

Accordingly, GEDA has envisaged the distribution of the tendered 292 no. of SSLs as under:

Sr. No.	Particulars of System	No. of SSLs installed	Place of installation
1	LED based Solar Street Lighting System (SSLs) model with pole and fixture i) Two arms	07	Fishing Ramp at Badem, Assagao, North Goa District.
2	i) Single arms	145	Brackish Water Fish Farm at Old Goa, North Goa District.
3	i) Single arm	45	Fresh Water Fish Seed Hatchery at Keri, Sattari, North Goa District.
4	i) Two arms	07	Fishing Ramp at Muxer, Velim, Salcete South Goa District.
5	i) Single arm Two arms	05 06	Net Mending Shedat Kindlebag, Canacona South Goa District.
6	Two arms	19	Talpona Fishing Jetty, Canacona South Goa District.
7	i) Single arm	07	Sawantwada, Amona, Bicholim North Goa District.
8	i) Single arm	11	Near Fisheries Sub Office Cutbona, Salcete South Goa District.
9	i) Single arm ii) Two arms	15 15	Fisheries Complex, Colva, Salcete
10	i) Two arm	10	Fisheries Training Centre at Ela Dhauji, Old Goa
	Total	292 Nos.	

The Bidder is advised to read carefully all instructions and conditions appearing in this document and understand them fully. All information and document required as per the bid document must be furnished. Failure to provide the information and /or documents as required may render the bid technically unacceptable.

The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect carrying out the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labour involved, wage structures and as to what all works he has to complete in accordance with the bid documents irrespective of any defects, omission or errors that may be found in the bid documents.

2. ELIGIBILITY CRITERIA

The bidder should meet the eligibility criteria in following manner:

- a. The Bidder shall be a reputed supplier of Solar Street lights. Experience certificate of designing, supplying, installing of Solar Street Lighting Systems at least 250 nos. shall be submitted.
- b. Bidder/Organization should have ISO certification and registered with NSIC for supply, installation, repairing, maintenance and commissioning of solar street lights.
- c. Tenderer/Bidders must have registrations of GST. All the registration documents should be provided.
- d. Declaration of not being blacklisted in any Government authority/Government Office on Rs. 100/- stamp paper.
- e. Bidder must have a minimum average annual turnover of Rs.25,00,000.00 . Certificate of C.A. mentioning Financial Turnover of last (three) years.
- f. Bidder should be empanelled channel partner to any State Nodal Agency in India. Bidder has to attach copy/document of empanelment.
- g. Eligible bidder has to submit the quotes for all systems.
- h. The bidder has to submit their technical and financial bids through online mode depending upon their eligibility criteria only

3. SCOPE OF WORK

Design, manufacture, supply, installation, testing, commissioning of 292 Nos. LED Based Solar Street Lighting System (SSLs) with single and two arms model with pole and fixture with 05 years warranty in the state of North and South Goa District details as under:

- a) Free replacement of defective components of systems within Comprehensive Maintenance Contract period (CMC) of 5 years after commissioning for efficient running of Solar street lights.
- b) Detailed planning for smooth execution of project.

- c) Selected Bidder(s) shall be bound by operation and management arrangements and rules, regulations and modalities as per MNRE (GoI), New Delhi and as established by GEDA and mutually agreed between GEDA and the contractor for effective implementation of the project.
- d) The Works are to be carried for Directorate of Fisheries Department, Panaji - Goa. Bidder can quote the price only after the all sites inspection towards installation of above 292 Nos. Solar Street Lighting Systems of North and South Goa Districts.
- e) The successful Bidder will be required to complete the works within the stipulated time as specified in the tender document. The bidder shall ensure that the systems should be installed and commissioned within 60 Days from the date of receipt of work order.
- f) Bids shall be complete and cover all Works described in the Schedule of Prices.
- g) Any item of works required for complete usable system shall be deemed to be included in bidder's scope irrespective of whether it is specifically mentioned or not in the price schedules.
- h) The tenderer will have to quote for proposed systems only.
- i) Bidder should note that obtaining permissions from statutory bodies wherever required for execution of works, shall be entirely in bidder's scope.
- j) Partial bids, or bids which do not cover the entire scope of the project will be treated as incomplete and not responsive to the terms and conditions of bidding and are liable to be summarily rejected.
- k) The conditional tender shall be rejected out rightly
- l) The successful bidder shall responsible for operation, cleaning, monitoring and maintenance of all installed Solar Street Lighting Systems.
- m) Regular cleaning of street light SPV Panels should be done at every 60 days (two months) positively late evening.
- n) The successful bidder shall submit the inspection report on quarterly basis for working of SSLs.

4. Standards/ Certificates

- i) The goods supplied and works executed under this contract shall confirm to the standards mentioned in the technical specification and where no applicable standard is mentioned, the latest version of Indian Standard Institution or Bureau of Indian Specification shall be applicable.
- ii) The Bidder shall submit all the valid test certificates and reports of the system components following the latest MNRE (GoI), New Delhi Guidelines and the same components shall be supplied for which the test reports/ Certificates are submitted.

5. INSTRUCTION TO BIDDERS

- a) Bidder shall upload Information, Experience Certificates and other such relevant document's specified in the list of other important documents.
- b) The bidder should visit the sites & carryout the inspection/ survey along with the concern Officer (Block level) of Directorate of Fisheries Department, Panaji-Goa. The tender submitted without site visit report will be rejected out rightly.
- c) Only Technical Proposals conforming to minimum eligibility criteria and found to be responsive will be taken up for detailed technical evaluation. A technical section shall evaluate the Bids submitted by bidders for a detailed scrutiny. During evaluation of Bids, GEDA, may, at its discretion, ask the bidders for clarification of their proposals.
- d) In case bidder fails in the technical bid; his financial bid shall not be opened & he shall be disqualified from further bidding process.
- e) Price Proposals of bidders qualifying above conditions shall be subsequently opened.
- f) The Lowest price quoted for the bid will be determined on the intimated date.
- g) The work order shall be issued to the successful bidder who qualifies in the complete process as mentioned.
- h) The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect the carrying out the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labour involved, wage structures and as to what all works he has to complete in accordance with the bid documents irrespective of any defects, omissions or errors that may be found in the bid documents.
- i) The Bidder shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract. Before commencement of the work, the Bidder will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of bidder.
- j) Bidder may in their own interest visit the all sites where the SSLs to be installed. GEDA will not be responsible for any incidental or consequential losses of the bidders while execution and till expiry of the period of maintenance.
- k) Bidder shall quote their rates considering wide variation of site conditions, variation in price, logistics and distribution needs, and keeping the quantum and quality of work in mind.
- l) Bidder should upload only the documents which are asked to upload in the tender document.
- m) All bids must be accompanied by EMD as specified in the Tender Notification and uploaded/furnished on or before the prescribed date and time given in this document. Bids submitted without EMD will be summarily rejected. Bidder would need to upload the required documents through electronic mode as part of their proposal.

- n) Bidder should have to provide Local Office address with concern person name in Goa for Service and Maintenance of the systems time to time during the warranty period of 05 years.
- o) Income Tax returns of three previous assessment years.
- p) GEDA reserves the right to reject or accept any or all tenders wholly or partly without assigning any reason on the grounds considered advantageous to GEDA, whether it is the lowest tender or not
- q) The Bid uploaded by the Bidder and all correspondence and documents in relations to the bid shall be in English Language
- r)The work order is not transferable. Subletting is not allowed.
- s) The GEDA will not entertain any claim at any stage from the successful bidder on the plea of not having sufficiently acquainted himself as to the site conditions.
- t) Those bidder not registered on the e- procure website mentioned above, are required to get registered beforehand.
- u) Cost of each Tender document Rs. 2500/- (Rupees two thousand five hundred only) additional GST of 18% will be extra, to be submitted along with EMD through online.
- v) The bidder shall sign and put bidder stamp on each page of the tender document.
- w) The conditional tender will be rejected without any notice thereof.
- x) GEDA is not responsible for providing Road Permit .Necessary Road Permit is to be obtained by the successful bidder at their own cost.

6. Submission of Bid

- i) The bid document should be submitted in two parts detailed as below:
 - a) BID-1, TECHNICAL BID . All the relevant document of bid document except the price bid duly signed with stamp should be uploaded in the Technical Bid.
 - b) BID-2, FINANCIL BID. The Financial bid should be quoted as per the prescribed format at (Annexure - X). The Financial Bid should take into account all Taxes, duties, transportation etc. as may be applicable.
- ii) Opening and Evaluation of Bids:
 - a) Opening of duly submitted Technical and Financial Bids will be through online mode only in GEDA Office, Patto, Panaji- Goa. The Technical Bid shall be opened at the time and date mentioned in the bid notice by Goa Energy Development Agency in presence of representative of bidders, who is interested to be present.
 - b) Financial Bid shall be opened after evaluation of technical suitability of the offer. Financial Bid will be opened of only those bidders who would duly qualify in the Technical Bid.

- c) Evaluation of Bidder's Eligibility will be carried out based on the information furnished by the Bidder as per the prescribed Formats and related documentary evidence in support of meeting the Eligibility Criteria as specified in Bid Document.
- d) Non-availability of information and related documentary evidence for the satisfaction of Eligibility Criteria may cause the Bid non-responsive.
- e) The evaluation of Financial Bid shall be carried out based on the information furnished in Financial Bid Format. The Financial Bid submitted by the Bidders shall be scrutinized to ensure conformity with the Tender. Any Bid not meeting any of the requirements of this Tender may cause the Bid to be considered "Non-responsive" at the sole decision of the GEDA.

iii) Successful Bidder (s) Selection:

- A) Bid qualifying in as per Eligibility Criteria shall only be evaluated in this stage.
- B) All Bidders qualifying Eligibility Criteria shall be placed as equal. Technical qualification is must for a Bidder to become eligible for assessment on financial criteria.
- C) Bidder will be selected based on lowest financial quotes, provided the bidder is qualified for the systems.
- D) GEDA shall issue letter of allotment (LoA) to the L1 bidder after obtaining the financial expenditure sanction order.
- E) L1 Bidder will be given 15 days from the date of issuance of LoA to give their consent to execute the allotment no. of Systems at L1 Quote along with submission of security deposit. In case, L1 bidder failed to provide consent or submit security deposit within the stipulated time, GEDA shall withdraw the capacity from L1 bidder and may blacklist the bidder from future tenders. GEDA would then offer the same capacity to the next lowest bidder at the price quote of L1.
- F) If the successful bidder, to whom Allocation Letter has been issued, does not fulfill any of the terms & conditions specified in bid document, the GEDA reserves the right to annul/cancel the Letter of Award to such successful bidder.

iv) GEDA reserves the right to postpone and /or extend the date of receipt/opening of all Bids or to withdraw the Tender Notice, without assigning any reason thereof. In any such cases, the bidders shall not be entitled to any form of compensation from the company.

7. Language of Bid

The Bid uploaded by the Bidder and all correspondence and documents in relations to the bid shall be in English Language. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language duly authenticated and certified by the bidder.

Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.

8. Documents Comprising the Bid

The Bid prepared by the Bidder shall be uploaded in 'Two parts Viz.

Technical and Financial bids comprising the following components. Bids shall electronically submit online in the E-tender platform and the documents shall be scanned and submitted

Part I

9. Technical Proposal shall contain:

Bidder shall submit relevant certificates to demonstrate the financial, technical capabilities & eligibility criteria prescribed under this Tender Document. In this regards the Bidder shall upload following minimum documents/ information for technical or financial evaluation.

- Undertaking (Rs.100) and declaration that all the terms & conditions mentioned in each and every page of the said tender document along with the clarifications released are acceptable.
- Bidder's Information Sheet
- Firm's Profile at a Glance
- Financial Status
- Annual Turnover
- Self Certification of No Barr/non failure/blacklisted
- Experience certificate of Designing, supplying, installing Solar Street Lighting Systems with completion certificate.
- GST Registration Certificate
- Last 3 years audited balance sheets
- Copies of BIS, IEC,ISO,MNRE,MSME,NSIC Certifications.
- Copy of test Certificate is required to attach.
- Copy of empanelled channel partner with State Nodal Agency in India.
- Work orders with completion Certificate of at least total 250 nos. Solar Street Lighting Systems installed in India.

The Bidder is expected to examine all instructions, forms, terms and specifications in the Tender Documents. Failure to furnish all information required, by the Bidder, documents or submission of a Bid not substantially responsive to the Tender documents in every respect or incomplete bid document will be at the Bidder's risk and may result in rejection of its Bid.

Part II

10. Financial bid:

- 1) The bidder should quote the offer rate per unit in rupees (in figures) and the total contract tender estimate as shown in **Price schedule format**. No hard copies of any document will be accepted. Rate shall be exclusive of GST.
- 2) Installation, testing, commissioning charges include destination prices inclusive of packing, transportation, insurance, loading, unloading, and any all charges incidental for successful Design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems with Single and Two arms model with pole and fixture with 05 years Warranty Detail as under:

Sr. No.	Particulars of System	No. of SSLs installed	Place of installation
1	LED based Solar Street Lighting System (SSLs) model with single and two arm model with pole and fixture i) Two arms	07	Fishing Ramp at Badem, Assagao, North Goa District.
2	i) Single arms	145	Brackish Water Fish Farm at Old Goa, North Goa District.
3	i) Single arm	45	Fresh Water Fish Seed Hatchery at Keri, Sattari, North Goa District.
4	i) Two arms	07	Fishing Ramp at Muxer, Velim, Salcete South Goa District.
5	i) Single arm ii) Two arms	05 06	Net Mending Shedat Kindlebag, Canacona South Goa District.
6	i) Two arms	19	Talpona Fishing Jetty, Canacona South Goa District.
7	i) Single arm	07	Sawantwada, Amona, Bicholim North Goa District.
8	i) Single arm	11	Near Fisheries Sub Office Cutbona, Salcete South Goa District.
9	i) Single arm ii) Two arms	15 15	Fisheries Complex, Colva, Salcete
10	i) Two arm	10	Fisheries Training Centre at Ela Dhauji, Old Goa
	Total	292 Nos.	

- 3) In no circumstances, escalation in the prices will be entertained.
- 4) Financial Bid uploaded with an adjustable price quotation/tender will be treated as non responsive and will be rejected.

5) Any Bid not in accordance with above clauses of this Section will be rejected

11. EARNEST MONEY DEPOSIT (EMD), SECURITY DEPOSIT (SD) & FORFEITING OF EMD:

A. EARNEST MONEY DEPOSIT:

i) The Earnest Money Deposit of 2% of the estimated value should be paid online through respective portal Via e- payment mode by NEFT/RTGS/OTS/debit card credit card facility/net banking with pre-printed challans available on e-tendering website and directly credit the amount to ITG account generated by challans for NEFT/RTGS/OTS. Tender without requisite Earnest Money Deposit (EMD) shall be out rightly rejected. Correspondence on request from any Bidder on exemption of EMD will not entertained by GEDA. No interest shall be payable on the amount of Earnest Money. It shall be retained by GEDA. EMD shall be returned to unsuccessful Bidders after acceptance of work order by successful Bidder.

ii) EMD of successful Bidder will be returned after the submission of Performance Bank Guarantee (PGB) equivalent of 5% of the project cost in the form of Bank Guarantee (BG) Against the Award of work order within 15 days. Failing to submission of PGB within the 15 days, the said order can be cancelled and EMD submitted will be forfeited.

iii) The initial validity of EMD shall be for a period of 90 days from the last date of bid submission. The validity of EMD shall have to be suitably extended, if necessary, on request by GEDA, without which the tender /work order shall be rejected.

iv) Request for adjustment of Earnest Money Deposit against any previous dues with GEDA will not be considered.

v) The units functioning in Goa registered /acknowledge under the Certificate of MSMEs i.e. EM-II/Udyog Aadhar/Udyam Registration are eligible for exemption of EMD under the Preferential Purchase Incentives for Micro and Small Enterprise Scheme 2008 of Goa Government and its amendments from time to time. Under the said scheme bidder is required to deposit EMD maximum of Rs. 500/- & Tender document shall be supplied at the rate maximum upto Rs. 200/-

B. FORFEITING OF EMD

The EMD paid or submitted by the Bidder shall be forfeited if:-

- 1) The Bidder withdraws his tender before finalization of work order.
- 2) The Bidder does not accept work order.
- 3) The Bidder violates any of the terms and conditions of the tender.
- 4) The Bidder fails to deposit requisite Security deposit.
- 5) The Bidder fails/refuses to execute the order as herein, the Bidder shall be deemed to have abandoned the contract & such an act shall amount to and be construed as the Bidders calculated and willful breach of contract, the cost and consequence of which shall be to the sole account of the Bidder and in such an event the GEDA shall have full right to claim damages thereof in addition to the forfeiture of EMD.

12. SECURITY DEPOSIT (SD):

1. The Security Deposit equivalent to 2.5% of the Project Cost to be deducted from each invoice. The Security Deposit will be retained for the period of 05 years from the date of commissioning.

2. If the successful bidder fails to attend the complaint during the warranty period or complaint are not attending stipulated time, then penalty charges at the rate of 0.05% per week of the total cost will be deducted from the security deposit. Further, if the successful

bidder does not attend the complaint within 02 weeks of the time period then the repairs works will be carried by GEDA from any other Manufacturer/Supplier and the respective billing amount will be deducted by GEDA from successful bidder. In such cases the bidder is also liable to be blacklisted.

3. **Delivery**: the materials must be delivered timely to the project site so as to complete the work within sanction period.

4. **Specification** : The detailed technical specification of the SPV Street lighting System /SPV Modules should be as specified as per the MNRE,(Govt. of India) , New Delhi guidelines.

13. PRICE VARIFICATION

Under any circumstances & for any reasons, escalation in the contract value will not be considered by GEDA.

14. JURISDICTION

In case of any dispute, in the documentation and during implementation, commissioning, completion and CMC period, all the matter will be resolve under Goa Jurisdiction only.

15. TIME FRAME

The time frame for the completion of work is 60 Days from the date of issue of work order.

16. PERIOD OF VALIDITY OF BID

Bids shall remain valid for 180 days after the date of opening of Technical Bid. A Bid valid for a shorter period shall be rejected by GEDA as non-responsive.

In exceptional circumstances, GEDA may solicit the Bidder's consent to extend the period of validity. The request and the responses thereto shall be made in writing.

17. MODE OF SUBMISSION OF BIDS

The Bids shall be submitted electronically in the e-tender platform only.

Bids sent by any other mode like in person, post, Telex or Fax or e-mail will be rejected.

GEDA may at its discretion require any Bidder to submit the hard copy of any of the document submitted on e-tender platform.

18. AMENDMENT OF BIDDING DOCUMENT

At any time prior to the deadline for submission of bids, the GEDA may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by issuing addenda.

Any addendum thus issued shall be part of the bidding documents pursuant to Sub-Clause and shall be communicated through the website

In order to afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, or for any reason deemed appropriate by the GEDA, the GEDA may extend the deadline for submission of bids.

19. DEADLINE FOR SUBMISSION OF BIDS

Bids must be uploaded by the bidder through e-tender process not later than the time and date specified in the invitation for Bids. The GEDA may, at the discretion, extend this deadline for submission of bids by issuing an addendum, in which case all rights and obligations of GEDA and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20. LATE BIDS

In online e-tender system, you shall not be able to submit the bid after the bid submission time and date as the icon or the task in the e-tender portal will not be available

21. CLARIFICATION OF BIDS

During evaluation of Bids, GEDA may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substances of the Bid shall be sought, offered or permitted.

22. PRELIMINARY EXAMINATION

- 1) The GEDA will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
- 2) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the lower of the two will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.
- 3) GEDA may waive any minor infirmity or non- conformity in a bid, which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any bidder.
- 4) Prior to the detailed evaluation, the GEDA will determine the substantial responsiveness of each bid to the Tender Documents. For purposes of these Clauses, a substantially responsive bid is one, which conforms to all the terms and conditions of the Tender Documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security, applicable Law and taxes and duties, Warranty, Force Majeure will be deemed to be a material deviation. GEDA's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 5) If a bid is not substantially responsive, it will be rejected by GEDA and may not subsequently be made responsive by the Bidder by correction of the non- conformity

23. ACCEPTANCE OR REJECTION OF BIDS

- 1) GEDA reserves the right to accept or reject any bid or all the bids and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability or any obligation to inform the affected bidder or bidders of the grounds for the said action.
- 2) Any Bid with incomplete information is liable for rejection.

- 3) For each category of pre-qualification criteria, the documentary evidence is to be produced duly attested by the authorized representative of the bidder and serially numbered. If the documentary proof is not submitted for any/all criteria the Bid is liable for rejection.
- 4) If any information given by the bidder is found to be false/ fictitious, the Bidder will be debarred for 3 years from participating in any other tenders of Govt., of Goa and will be black listed.

24. CRITERIA FOR EVALUATION OF BIDS

Step1- Test of Responsiveness

Step 2 - Bid evaluation

Step 1: Test of Responsiveness

- Prior to evaluation of Bids, GEDA shall determine whether each Bid is responsive to the requirements of the tender document. A Bid shall be considered responsive only if all documents as outlined in the tender document for two stage bid process are submitted as per the pre-defined format.
- The GEDA reserves the right to reject any Bid which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the GEDA in respect of such Bid.

Step 2: Bid Evaluation

Bid evaluation will be carried out considering the information furnished by Bidders as per the Tender documents. This process will involve evaluation of the response to tender document of the Bidder as per terms and conditions of this Tender Document. Based on technical/qualifying criteria preferred bidders will be short listed

25. Technical Evaluation

Only Technical Proposals conforming to minimum eligibility criteria and found to be responsive will be taken up for detailed technical evaluation. A technical/tender committee shall evaluate the Bids submitted by bidders for a detailed scrutiny. During evaluation of Bids, GEDA, may, at its discretion, ask the bidders for clarification of their Proposals.

26. Financial Evaluation.

The price bids of the eligible bidders will then be evaluated in the manner provided below:-

- 1) At the outset, the price bids of all the Bidders who are technically qualified in technical evaluation shall be opened in the presence of the Bidders' Representatives who choose to attend.
- 2) The bidder's names, the Bid Prices, the total amount of each bid, any discounts, and such other details as the GEDA may consider appropriate, will be announced and recorded by the GEDA at the opening. The bidder's authorized representatives will be required to sign this record.
- 3) Bidder that has quoted the lowest price (inclusive of all the taxes/duties) shall be declared as the preferred Bidder.

4)The work orders shall be issued to the successful bidder who ever qualifies in the complete process as mentioned.

27. AWARD CRITERIA AND AWARD OF CONTRACT

GEDA will award the Contract to the successful Bidder whose Bid has been determined to be substantially responsive and has been determined as the lowest evaluated Bid as per the criteria mentioned above, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

28. CORRUPT OR FRAUDULENT PRACTICES

- GEDA requires that Bidders shall observe the highest standard of ethics during the execution of contracts. In pursuance of this policy, GEDA Defines, for the purposes of this provision, the terms set forth as follows: “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Government, and includes collusive practice among Bidders (prior to or after tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the Government of the benefits of free and open competition;
- GEDA shall reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- GEDA shall declare a firm ineligible, 3 years for a period of time, to be awarded a Government financed contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

SECTION – III

29. GENERAL TERMS & CONDITIONS OF CONTRACT (GCC)

The following are the General Terms and Conditions of Contract of Design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems (SSLs) single arm model of 228 Nos. and 64 Nos. of double arms model totaling 292 Nos. with pole and fixture with comprehensive maintenance contract for 5 years at above mentioned places of North and South Goa Districts.

- 1) The tenderer shall handover the material at site of above all mentioned places of North and South Goa Districts with the consultation of Directorate of Fisheries Department, Panaji- Goa and start the installation and commissioning activity.
- 2) Supply of manual for Operation and Maintenance in English & Marathi to Concern Beneficiary/GEDA.
- 3) Commissioning of the entire system and carrying out comprehensive maintenance of the system for the period of 5 years after successful commissioning of the system and submission of all documents duly signed by Beneficiary, Manufacturer and GEDA Officials as the case may be.
- 4) Training to the user for operation and maintenance of the system and submission of Certificate from Directorate of Fisheries Department, Panaji-Goa.

- 5) The tenderer shall handover the system after commissioning to the concerned Department and submit the certificate duly signed by the tenderer, GEDA and Department Official.
- 6) The successful tenderer shall supply the Guarantee Card to the Beneficiary Dept./GEDA.
- 7) Once the systems are installed the users will carry out the daily operation and maintenance of systems. However it is responsibility supplier to provide necessary maintenance spares and also cleaning of SPV Panels/ Module every two months regularly for 5 years trouble free operation of the systems free of cost.
- 8) The tenderer has to submit the quarterly functioning status of the systems duly certified by concern beneficiary/ Dept.
- 9) Any additional works not covered above, but necessary for the functioning of the system and required as per specification incorporated. The items of minor nature, which are not mentioned, shall be incorporated by the tenderer.
- 10) Bidder shall be responsible for any damage occurred, if any, during installations of solar street lights.
- 11) The Bidder should provide appropriate tools and equipment's to the workmen and ensure that those are in proper working condition and the workmen use the appropriate tools and take precaution "PLEASE NOTE THAT ANY ACCIDENT TO THE WORK MEN / PUBLIC / ANIMALS / PROPERTY BOTH MOVABLE AND IM-MOVABLE SHALL BE ENTIRE AND SOLE RESPONSIBILITY OF THE BIDDER AND ANY PROCEEDING ARISING OUT OF THE SAME SHALL BE AT THE BIDDER'S RISK AND COST, GOA ENERGY DEVELOPMENT AGENCY (GEDA) OR ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR ANY SUCH INCIDENT".
- 12) Bidder should provide necessary manufacture's test certificates for materials being used for the work. Bidder should provide facilities and bear the cost for the same. Power curve of all the panels erected by manufacturers shall be provided to the GEDA.
- 13) The selected Bidder is bound to work on the guideline provided by GEDA from time to time. Guidelines if issued in future by GEDA, the changes proposed will also be applicable without enhancement in project cost till the completion of 5 years period.
- 14) The Bidder shall carry out the work strictly according to the specifications as per given in **Section-IV** and complete the work within stipulated time.
- 15) It is the responsibility of Bidder to submit the reports for systems installed & commissioned and certificates for undertaking the responsibility of maintenance of the systems to GEDA with a copy to user agency. Bidder shall also impart training to the user for regular Operation & Maintenance of solar street lighting system and certificate in this respect should be submitted.
- 16) Bidders should give Guarantee against any manufacturing defects from the date of commissioning up to CMC period. For any manufacturing defects, supplier shall replace defective parts at free of cost during the CMC period and shall keep the system functional.
- 17) Bidders shall allow GEDA Officials for inspection as and when necessary, during the execution of work and thereafter subsequent to installation and commissioning of the work for the purpose of issuing final completion certificate.

- 18) In the event of any discrepancy observed in specifications, the specifications given by GEDA will be final. In the event of dispute arising any time, related to this work and document, decision of the Member Secretary, GEDA or his nominee shall be final.
- 19) GEDA at its discretion may visit supplier's factory for testing / inspection at any time during the period of supply and installation of the systems.
- 20) GEDA will not pay any interest on any amount, due to the Bidders.
- 21) During the inspection, if any deviations in Technical Specifications are observed, GEDA reserves right to test any solar module / system/Instruments at any authorized test centre of MNRE (GoI), New Delhi. Bidder shall provide the facilities for getting the sample tested & the supplier shall bear the cost for the same.
- 22) If the supplier fails to complete the work or partially completes it then, GEDA reserve right to cancel the work order and get it done from other supplier and any loss due to this shall be recovered either from any amount due to the supplier or from his Security Deposit.
- 23) At the time of inspection of GEDA, manufacturer or supplier has to submit the I.V. curves and test reports of supplied PV modules/ Inverter (CPU)/Batteries to respective officer.
- 24) The Copper Wiring must be carried out in casing-capping / conduit which are suitable as per site condition.
- 25) The GI Pole should be apply Anti-rust coating Oil Paint.
- 26) It will be responsibility of the Bidder to ensure the satisfactory performance of the systems.
- 27) Please note that for any of the discrepancy observed during the period of installation and commissioning, conditions specified in tender by GEDA shall be final & binding.
- 28) If previous performance of any Bidder found unsatisfactory, he will be disqualified.
- 29) If any information / confirmation on any point of these tender conditions are required Bidder may contact / write to Member Secretary GEDA, Panaji giving tender reference no. etc.
- 30) In the event of dispute during installation of street lighting systems related to the work and documents, decision of the Member Secretary GEDA, shall be final & binding.
- 31) Once the Bidder submit his offer and subsequently if not interested to work, in such case GEDA will forfeit his EMD amount.
- 32) At the time of placing work order and during the implementation GEDA can revise the technical terms and conditions if revised by MNRE, which will be binding on the Bidder.
- 33) Member Secretary GEDA, reserves the right to select L2 Bidder i.e. second lowest Bidder to complete the work, if L1 i.e. lowest Bidder fails to fulfill tender conditions or fails to complete the work.
- 34) It is binding on the successful Bidder to submit original certificates, documents required by GEDA.
- 35) Before submission of the tender document the tenderer shall visit the site along with the concern Official /Representative of Directorate of Fisheries Department, Panaji- Goa. compulsory and then quote the price.

- 36) The rate quoted in the tender will be inclusive of CMC of 5 years installation, transportation, loading, unloading, all taxes and duties and no extra claim on any account will be entertained by GEDA. The tenderer will be totally responsible for complying with all rules and requirements concerning to taxes and duties.
- 37) Selected manufacturer shall visit the site regularly and carry out the operation and maintenance of the system. In this respect Manufacturer has to submit quarterly report duly signed by user to GEDA regularly up to 5 years.
- 38) The manufacturer shall quote for 5 years Operation and the cost of CMC shall be taken in to account while evaluating the tender cost for the project.
- 39) Installation of GI Pole should be 01 meter below the ground level by putting proper concrete material to hold the SPV Panels/luminary in proper design considering wind speed at site.
- 40) The progress work of the systems will be monitored by GEDA and the systems/ components /materials may be inspected for their quality at any time during installation/commissioning or after the completion of the work.

1. COMMUNICATIONS

- a) Wherever provision is made for the giving or issue of any notice, instruction, consent, approval, certificate or determination by any person, unless otherwise specified such communication shall be in writing and shall not be unreasonably withheld or delayed.

30. MANNER OF EXECUTION

Execution of work shall be carried out in the approved manner as outlined in the technical specifications or where not outlined, in accordance with relevant MNRE/ BIS/ Indian Standard Specifications, to the reasonable satisfaction of The Employer.

The Contractor/Agency should successfully complete the project within timeframe set out by the GEDA and mutually agreed between Contractor/Agency and GEDA.

GEDA shall not be responsible for any loss or damage of any material when installation of street lighting systems.

Undertake necessary activities during the warranty period as set out in this Contract.

31. APPLICATION

These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the contract

32. STANDARDS

The goods supplied under this contract shall conform to the Standards mentioned in the Technical specification Section as per the MNRE/GEDA requirements and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Good's country of origin and such standards shall be the latest issued by the concerned institution.

33. INSPECTION:

Bidder shall inform GEDA, in writing when any portion of the work is ready for inspection giving sufficient notice to enable GEDA to depute officials to inspect the same without affecting the further progress of the work. The work shall not be considered in accordance with the terms of the contract until the competent person from GEDA certifies in writing to that effect.

Bidder has to strictly follow the specifications given in the work order while carrying out the execution of work. During inspection if it is found that Bidder has deviated from the specifications, Bidder has to do the alteration/modification/ reconstructions as per the given specifications at his own cost & risk

34. TRANSPORTATION

Where the Contractor/Agency is required under the contract to transport the goods to specified locations defined as Project sites, transport to such places including insurance, as shall be specified in the contract, shall be arranged by the Contractor/Agency, and the contract price shall include transportation costs.

35. PLACEMENT OF PURCHASE ORDER

GEDA will place the Purchase Order to the successful Bidder in Full/ Partly according to the site /location with no. of solar street lights.

36. TERMS OF PAYMENTS:-

i) Payment against Supply of material : (a) 70% payment against supply of materials shall be made after verification by GEDA and Concern Fisheries Department Official/representative of satisfactorily conditions of the materials, production of manufacturing test certificate/report & delivery challan in original only where applicable and submission of list of bill of material that has been actually supplied at all proposed sites.

(b) The balance 30% payment shall be released only after completion of the item work i.e. including installation and commissioning of all systems at site along with relevant documents (Joint Inspection Report and Completion Certificate along with photographs) to the satisfaction of concern beneficiary Dept./GEDA Office.

ii) Payment against installation: - (a) 60% payment against installation shall be made after successful installation. The balance 40% payment shall be released only after satisfaction testing and commissioning of entire work involved.

(b) No advance payment shall be made along with the work order. Running account bills/payment will be made for the activates completed in all respect; payment will be made activity wise. No payment will be made unless all the items in a particular activity are completed. No payment of rent or otherwise will be made for the purpose contractors godown, work site, etc. No transportation, freight and duty, etc. shall be paid separately, all which are deemed to have rates whether expressively specified or not.

iii) Performance Bank Guarantee of CMC amount shall be revoked in case of non performance of street lights inspected by GEDA Officer and not attended by the tenderer within two week.

iv) Deduction:- Income tax TDS as applicable from time to time shall be deducted at sources from the eligible payments to the contractor from every bill. All applicable taxes will be deducted as per the Govt. rules and regulations.

v) Payment for the work will be made, subject to availability of funds without additional liability of interest

vi) All the materials and works for which payment is made in part or full shall become the sole property of the GEDA

37. LIQUIDATED DAMAGES / RISK PURCHASES

In case the successful tenderer fails to complete the work within the time period specified in the purchase order / contract with GEDA, Goa a sum equivalent to 1% of the total cost shall be deducted for each week of delay subject to a maximum deduction of 10% of the total project cost which the tenderer has quoted.

38. PENALTY CLAUSE

If the systems are not installed and commissioned within the stipulated period as mentioned in the work order the Bidder shall be required to pay penalty of 1/2% (half percent) per week, maximum up to 10% of the total cost of the systems and the amount shall be recovered either from the amount due to the Bidder or from security deposit.

39. ASSIGNMENT

The Contractor/Agency shall not assign, in whole or in part to any third party, its obligations to perform under the contract, except with GEDA's prior written consent

40. SUB-CONTRACTS

Subcontract is strictly prohibited.

41. TERMINATION FOR DEFAULT

GEDA without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor/ Agency, terminate the contract in whole or part:

If the Contractor/ Agency fails to deliver any or all the goods within the period(s) or within any extension thereof granted by the GEDA or If the Contractor/ Agency, in the judgment of GEDA has engaged in corrupt or fraudulent practices in competing for or in executing the contract. In the event GEDA terminates the contract in whole or in part, GEDA may procure, upon such terms and in such manner as it deems. Appropriate goods or services similar to those undelivered and the Contractor/Agency shall be liable to GEDA for any excess costs for such similar goods or services. However, the Contractor/Agency shall continue the performance of the contract to the extent not terminated.

42. APPLICABLE LAW

The contract shall be interpreted in accordance with the laws of the Union of India.

43. INSURANCE:

The bidder shall provide insurance coverage ex-factory until commissioning and acceptance for replacement or repair of any part of the consignment due to damage or loss.

SECTION – IV

1. TECHNICAL SPECIFICATIONS OF LED BASED SOLAR STREET LIGHT SYSTEM WITH POLE & FIXTURE WITH SINGLE ARM MODEL

Components	Specification for Solar street lighting System.
PV module	75 Wp under STC (one each)
Battery	Minimum 12.8V, 30 AH capacity (one each) Lithium Ferro Phosphate battery. Green & Red indicators provided for indicating battery charging/fault.
Light Source	White Light Emitting Diode (one each) 15 Watt, W-LED luminaries, 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
Light Out put	<p>The luminaries 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]</p> <p>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</p> <p>For Multiple Light levels: The luminaries should have two levels 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 (at "High" illumination level). The illumination should be uniform without dark bands or abrupt variations. Minimum 12 Lux at lower illumination level. (Higher light output will be preferred)</p> <p>The luminaries shall be tested for Electrical, Photometry and Color parameters as per IES LM-79:2008 or IS: 16106:2012 for following performance parameters like:</p> <ol style="list-style-type: none">1) Total luminous flux: ≥ 1500 lm.2) Luminous efficacy (i.e. system efficacy): ≥ 125 lm/W.3) Color Temperature: Between 5500 K to 6500 K.4) CRI ≥ 705) Luminous intensity distribution should follow the batwing patterns in polar curves.6) Require validation report using .ies file, which is generated during luminous intensity distribution test and using maintenance factor 0.9 and pole height of 4m., Road width 5m and Pole span 15m. The average luminance level and uniformity should comply with requirement as per IS 1944 wherever applicable.7) The luminaries should be tested for all type tests as per IS10322 Part 5 Sect 3 or IEC 60598-2-3 standards.

Mounting of light	Pole height 5 m above the ground level and 1 m below the ground. Luminaries shall be at least 4.5 m above the ground level. Pole should be Hot dip galvanized pipe as per IS1161 7 IS 4736i.e.Class B
Electronics Efficiency	Overall total Efficiency of the Electronics should be Minimum 90%
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)
Battery Autonomy	3 days or Minimum 36 operating hours per permissible discharge with fully charged Lithium-Ferro Phosphate Battery
Ingress Protection – IP	Optical and Control gear compartment - IP 65 / IP 66
Impact resistance of casing	≥IK08
Radiated Emission Test	As per CISPR-15
ESD (Electro Static Discharge) and Radiated susceptibility test	As per IEC 61547

2. TECHNICAL SPECIFICATIONS OF LED BASED SOLAR STREET LIGHTING SYSTEM WITH POLE & FIXTURE WITH TWO ARMS MODEL

Components	Specification for Solar street lighting System.
PV module	75 Wp under STC (two each)
Battery	Minimum 12.8V, 30 AH capacity (two each) Lithium Ferro Phosphate battery. Green & Red indicators provided for indicating battery charging/fault.
Light Source	White Light Emitting Diode (two each) 15 Watt, W-LED luminaries, 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
Light Out put	<p>The luminaries 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]</p> <p>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</p> <p>For Multiple Light levels: The luminaries should have two levels 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 (at "High" illumination level). The illumination should be uniform without dark bands or abrupt variations. Minimum 12 Lux at lower illumination level. (Higher light output will be preferred)</p> <p>The luminaries shall be tested for Electrical, Photometry and Color parameters as per IES LM-79:2008 or IS: 16106:2012 for following performance parameters like:</p> <ol style="list-style-type: none"> 1) Total luminous flux: ≥ 1500 lm. 2) Luminous efficacy (i.e. system efficacy): ≥ 125 lm/W. 3) Color Temperature: Between 5500 K to 6500 K. 4) CRI ≥ 70 5) Luminous intensity distribution should follow the batwing patterns in polar curves. 6) Require validation report using .ies file, which is generated during luminous intensity distribution test and using maintenance factor 0.9 and pole height of 4m., Road width 5m and Pole span 15m. The average illuminance level and uniformity should comply with requirement as per IS 1944 wherever applicable. 7) The luminaries should be tested for all type tests as per IS10322 Part 5 Sect 3 or IEC 60598-2-3 standards.

Mounting of light	Pole height 5 m above the ground level and 1 m below the ground. Luminaries shall be at least 4.5 m above the ground level. Pole should be Hot dip galvanized pipe as per IS1161 7 IS 4736i.e.ClassB
Electronics Efficiency	Overall total Efficiency of the Electronics should be Minimum 90%
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)
Battery Autonomy	3 days or Minimum 36 operating hours per permissible discharge with fully charged Lithium-Ferro Phosphate Battery
Ingress Protection – IP	Optical and Control gear compartment - IP 65 / IP 66
Impact resistance of casing	≥IK08
Radiated Emission Test	As per CISPR-15
ESD (Electro Static Discharge) and Radiated susceptibility test	As per IEC 61547

ANNEXURE - I

Undertaking
(On Rs.100/- Stamp Paper)

I _____ Age _____ years, Occupation _____,
Address _____

_____, the (authorized signatory) of M/s _____

(Company) hereby state that, I/my company is intending to participate for tender no. TENDER NO. 1/5/ GEDA/SSLs/DF/2023-24 Design, manufacture, supply, installation, testing, commissioning of LED based Solar Street Lighting Systems (SSLs) with single arm model- 228 Nos. and double arms model - 64 nos. with comprehensive maintenance contract for 5 years at North and South Goa Districts in the State of Goa.

I have read all the terms & conditions mentioned in the Tender document of the GEDA.

I hereby further undertake and declare that all the terms & conditions mentioned in each and every page of the said tender document along with the clarifications released, if any, are binding on me / my company and I am fully aware that, in case of breach of any term or condition of the said Tender document, I am/my company is liable to be disqualified from the said tender process.

Sign :

Name of authorized Signatory :

Name of Company with Stamp :

ANNEXURE - II

Bidder's Information Sheet

To establish its qualifications to perform the contract the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Bidder's legal name	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's UIN No.	
Bidder's Copy of Constitution	
Bidder's registration certificates for G.S.T., and registration certificates under the applicable PF and labor laws	
Bidder's authorized representative (Name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the necessary original documents.	
1	
2	
3	
4	
5	
6	
7	
8	

Signature of Bidder

Name,

Designation

Company

Date:

ANNEXURE - III

Firm profile at a glance

Sr.no.	No. Particulars	
1	Name & Mailing Address of firm	
2	Contact Person Name, Designation & Contact No	
3	E-mail Address for correspondence	
4	Firm Website Address	
5	Firm Status (Private/ PSU/ Incorporate / Proprietor)	
6	Establish Year of firm	
7	PAN/ TAN No	
8	Firm Registration No/ ROC	
9	EPF Registration No, if applicable	
10	G.S.T. No	
11	Bank name & contact No	
12	Turnover 2020-21,2021-22,2022-23 (in Lacs Rs.)	
13	Factory Address & Floor Area of factory	
14	Collaborator/s, if Any)	
15	Own Testing facility	
16	Skilled manpower	
17	Dealer/ supply network in Goa. Pl. Specified detail local office address in Goa	
18	Experience in SPV Street Lighting Systems	
19	Accreditation (Own Firm)	
20	Accreditation (Partner/ outsourcing Firm)	
21	Technical specification for solar photovoltaic cell/ panel/ module	
22	Technical specification for Battery	
23	Other Technical specification, if any	
24	Special Remarks, if any	

It is certified that the information provided above is true to the best of my knowledge and belief. If any information found to be concealed, suppressed or incorrect at later date, our tender shall be liable to be rejected and our company may be debarred from executing any business with Govt. of Goa/ GEDA.

Signature and Seal of Bidder

Name /Designation Date:

ANNEXURE - IV

Financial Status

Each Bidder must fill in this form including private/ public limited company.

Sr. No.	Particulars	Financial Data for Previous 3 Years [Rs. in Lacs]		
		2020-21	2021-22	2022-23
1	Total Assets			
2	Current Assets			
3	Total Liabilities			
4	Long Term Loans			
5	Current Liabilities*			
6	Profits Before Taxes			
7	Profits After Taxes			
8	Net Worth [1 - 4 - 5]			
9	Dedicated Revolving Line of Credit (as per format)			
10	Available Working Capital [2 5] + [9]			
11	Return on Equity [6 / 8 of previous year]			
12	Attached are copies of the audited balance sheets, including all related notes, and income statements for the any three years of FY 2020-21, & 2021-22 & 2022-23 as indicated above, complying with the following conditions? All such documents reflect the financial situation of the Bidder, and not sister or parent companies			
	Historic financial statements must be audited by a certified accountant			
	Historic financial statements must be complete, including all notes to the financial statements			
	Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).			
	As per International Accounting, Current Liabilities shall include loan and other repayments due within one year			
	If the bidder feels that its financial capacity is insufficient bidder may include with the bid a letter from a reputed bank, addressed to the Member Secretary , GEDA which describes the revolving line of credit that the bidder is eligible for with the bank			

Applicant's Auditor

ANNEXURE - V

Annual Turnover

Each Bidder must fill in this form including private/public limited company.

Annual Turnover Data for the any 3 Years of FY 2020-21, 2021-22 & 2022-23	
Year	Rs in Lacs
2020-21	
2021-22	
2022-23	

The information supplied should be the Annual Turnover of the Bidder in terms of the amounts billed to clients for each year for work in progress or completed.

Signature of Applicant

Certified by Applicant's Auditor

(Affix Stamp)

POWER OF ATTORNEY

(To be executed on non-judicial Rs. 100 stamp paper)

Power of Attorney to be provided by the Bidding Company in favour of its representative as evidence of authorized signatory's authority.

Know all men by these presents, We _____ (name and address of the registered office of the Bidding Company as applicable) do hereby constitute, appoint and authorize Mr./Ms. _____ (name & residential address) who is presently employed with us and holding the position of _____ as our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of our Bid for Installation of Solar Street Light in Goa for Goa Energy Development Agency in response to the NIT No. _____ dated _____ issued by Goa Energy Development Agency (GEDA), Panaji including signing and submission of the Bid and all other documents related to the Bid, including but not limited to undertakings, letters, certificates, acceptances, clarifications, guarantees or any other document which GEDA may require us to submit. The aforesaid Attorney is further authorized for making representations to Goa Energy Development Agency, Panaji and representing us in all matters before GEDA, Panaji and generally dealing with GEDA, Panaji in all matters in connection with Bid till the completion of the bidding process as per the terms of the above mentioned NIT.

We hereby agree to ratify all acts, deeds and things done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall be binding on us and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the NIT.

Signed by the within named

_____(Insert the name of the executants company)

through the hand of Mr. _____ duly authorized by the Board to issue such Power of Attorney Dated this _____ day of _____ Accepted _____

Signature of Attorney

(Name, designation and address of the Attorney)

Attested

(Signature of the executant)

(Name, designation and address of the executant)

Signature and stamp of Notary of the place of execution

Common seal of _____ has been affixed in my/our presence pursuant to Board of

Director's

Resolution dated.....

WITNESS

1.....

(Signature)

Name

Designation

2.....

(Signature)

Name.....

Designation

Notes:

The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants (s) and the same should be under common seal of the executants affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executants (s) in this regard.

The person authorized under this Power of Attorney, in the case of the Bidding Company / Lead Member being a public company, or a private company which is a subsidiary of a public company, in terms of the Companies Act, 1956, with a paid up share capital of more than Rupees Five crores, should be the Managing Director / whole time director/manager appointed under section 269 of the Companies Act, 1956. In all other cases the person authorized should be a director duly authorized by a board resolution duly passed by the Company.

Also, wherever required, the executants (s) should submit for verification the extract of the chartered documents and documents such as a Board resolution / power of attorney, in favour of the person executing this power of attorney for delegation of power hereunder on behalf of the executants (s).

ANNEXURE –VII

PERFORMANCE BANK GUARANTEE (PGB) FORMAT

To:
The Member Secretary
Goa Energy Development Agency
5th Floor, Goa IDC Building, Patto – Panaji
Goa- 403001
(With due stamp duty if applicable)

OUR LETTER OF GUARANTEE NO. -----
In consideration of Goa Energy Development Agency, having its office at -----
----- (hereafter referred to as
“GEDA” which expression shall unless repugnant to content or meaning thereof include all its
successors, administrators and executors) and having Work Order No. -----
-----dated -----with/on
M/s -----(hereinafter referred to as “The Agency” which expression
unless repugnant to the content meaning thereof, shall include all successor, administrators,
and executors.)

WHEREAS the Agency having unequivocally accepted to perform the services as per terms
and condition given in the Work Order/Sanction Order No. ----- dated
-----and GEDA having agreed that the agency shall furnish to GEDA a
performance bank guarantee for the faithful performance during the entire contract ,of the value
of Rs. -----

We, -----(“The Bank”)which shall Guarantee No.
in your favour for account of -----
----- (The Agency) in cover of performance guarantee in accordance with the terms and
conditions of the Work Order/Sanction Order.

Hereby, we undertake to pay up to but not exceeding -----(say accompanied by
your declaration stating that the amount claimed is due by reason of the Agency having failed to
perform the Work Order/Sanction Order and despite any contestation on the part of above
named Agency.

This letter of guarantee will expire on -----including 90 days of claim
period and any claims made hereunder must be received by us on or before expiry date after
which date this Letter of Guarantee will become of no effect whatsoever whether returned to us
or not.

Authorized signature

Chief Manager/Manager

Seal of Bank

Note : PBG shall valid till completion of 5 years O&M period plus 3 months claim period.

ANNEXURE – VIII

Work Experience for supply, installations and Commissioning of LED based Solar Street Lighting Systems

(Separately typed preferable computerized and on Bidder Letter Head)

Name of the Organization:					
List of works completed in Last 02 Year					
S. No.	Name & Address of the Client	Contact Number of the Client	No. of SSLs installed	Value of Work Order	Actual Date of Completion
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

*The Bidder may require to submit all the attested copy of the work orders mentioned above as and when required.

UNDERTAKING TOWARDS NOT BEING BLACK-LISTED

I, _____ Authorized Signatory of M/s _____ hereby give undertaking that we, as a company are not black-listed by any Central/ State Government/ Semi-Government Organization/ Public Sector Undertaking/ Private Institution in India.

Further, if information furnished above stands false at any stage, we shall be completely liable for actions taken by GEDA, Panaji as per terms & conditions of the tender including disqualification and exclusion from future contracts/assignments.

(Signature of Authorized Signatory)

Name:-

Designation:-

Seal:-

*Please provide the name and designation of each signatory.

ANNEXURE -X**FINANCIAL BID**

(To be submitted through Online)

Tender No:

Dated:

Supply and installations of LED based Solar Street Lighting System 228 Nos. single arm and 64 Nos. double arms model with pole and fixture including Operation and Maintenance for 05 years at specified places of Fisheries Department of North and South Goa Districts.

Sr. No.	Particular of the items	Quantity (Nos.)	Cost in Rs. Per Unit(Rs.)	GST Amount per unit(Rs.)	Total Cost inclusive of GST (Rs.)
1	Supply and material cost for 228 nos. Solar Street Lighting System with Single arm model with pole and fixture	228			
2	Installation & commissioning cost of 228 nos. of solar street lighting systems with pole and fixture at all proposed locations including operation & maintenance for 05 years.	228			
3	Supply and material cost for 64 nos. Solar Street Lighting System with Two arms model with pole and fixture	64			
4	Installation & commissioning cost of 64 nos. of Solar Street Lighting Systems at all proposed locations including operation & maintenance for 05 years.	64			
	Grand Total				

- i) 12% GST on the material cost and 18% GST on the installation & commissioning of Solar Street Lighting Systems.
- ii) Note: The total cost of the project should include 70% against material and 30% against installations and commissioning.

Rupees (in Words) _____

(AUTHORIZED SIGNATORY)

NAME:

SEAL:

ANNEXURE- XI**Check List**

All the necessary Documents / Certificates should be uploaded as a SINGLE PDF in proper sequence as mentioned below:

SR.NO.	PARTICULARS	ANNEXURE
1	Undertaking (Rs.100) and declaration that all the terms & conditions mentioned in each and every page of the said tender document along with the clarifications released are acceptable.	Annexure -I
2	Bidder's Information Sheet.	Annexure -II
3	Firm profile at a glance	Annexure -III
4	Financial Status	Annexure -IV
5	Annual Turnover	Annexure -V
6	Power of Attorney	Annexure -VI
7	Performance Bank Guarantee (PGB)	Annexure -VII
8	Work Experience for supply and commissioning of Solar Street Lighting System.	Annexure -VIII
9	Under taking towards not being black -listed	Annexure -IX
10	Financial Bid	Annexure -X
11	EMD and Tender document fee (It is compulsory to pay tender document fee, EMD through E-payment SBI Net Banking, RTGS and NEFT only.	–
12	Copy of the recently paid Income Tax Challan / Return, Latest CA certified balance sheet of last three years, PAN number, GST registration certificates of VAT, service tax, professional tax etc. (Self Attested)	–
13	Test Certificate for SPV Street Light/ SPV module	–

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