

DELHI URBAN SHELTER IMPROVEMENT BOARD
GOVT. OF NCT OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER, E-2
1, KILOKARI, RING ROAD, NEW DELHI -14

File No. ⁰⁸ EE/E-2/DUSIB/2023-24/D-116

Dated: 21/8/23

NOTICE INVITING BIDS FOR THIRD PARTY INSPECTION / QUALITY ASSURANCE SERVICES

The Executive Engineer, Electrical Division-2, Plot No.1 Kilokari, Ring Road, New Delhi-110014 invites, on behalf of CEO DUSIB sealed offers under Single Bid system from the following agencies / institutes:

1. Delhi Technical University (DTU)
2. National Institute of Technology (NIT), Delhi.
3. Netaji Subhash University of Technology (NSUT), Delhi
4. Jamia Millia Islamia University, Delhi
5. WAPCOS Limited.
6. Engineers India Ltd.
7. RITES Ltd.
8. IIT Delhi
9. DSEU, Delhi
10. IGDTUW, Delhi
11. GGSIPU, Delhi

For the following work:

Supply, Installation, Testing and Commissioning of solar street light in various locations at AGE(U), Elect Supply, Phase I Delhi Cantonment assembly (AC-38);

SH :Third Party inspection/ Quality assurance service"

Tendered cost of Work : Rs.1,17,10,406 /- only

Tentative time period for execution of work	:	12 Months or till completion of work by executing agency.
Time and date of receipt of bid-documents	:	Upto 15:00 Hrs on 31/08/2023 ✓
Time and date of opening of financial bids	:	15:30 Hrs on 31/08/2023 ✓
Place of submission	:	DELHI URBAN SHELTER IMPROVEMENT BOARD GOVT. OF NCT OF DELHI OFFICE OF THE EXECUTIVE ENGINEER, E-2, PLOT No.1, KILOKARI, RING ROAD, NEW DELHI -14


Executive Engineer/E-2
DUSIB
Plot No.1, Kilokari, Ring Road
New Delhi-110014

Him
21/8/23
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Executive Engineer/E-2
DUSIB
Plot No.1 ,Kilokari ,Ring Road
New Delhi-110014

INSTRUCTIONS TO BIDDER

1. Sealed offers under Single Bid system in the prescribed forms are invited, from following agencies / institutes for providing the Third Party Inspection / Quality Assurance Services listed under the scope of services in this bid document:
 - a) Delhi Technical University (DTU)
 - b) National Institute of Technology (NIT), Delhi.
 - c) Netaji Subhash University of Technology(NSUT), Delhi
 - d) Jamia Millia Islamia University , Delhi
 - e) WAPCOS Limited.
 - f) Engineers India Ltd.
 - g) RITES Ltd.
 - h) IIT Delhi
 - i) DSEU, Delhi
 - j) IGDТУW, Delhi
 - k) GGSIPU, Delhi

2. The formats for submission of finance proposal in Appendix-I to help the bidders in submission of offers. ✓

3. **Language of bids**
All information in the bid shall be in English.

4. **Signature of bidder**
An authorized person must sign the bid with seal of the organization. Significant evidence of authority of the person signing on behalf of the bidder shall be furnished with the bid.

5. **Preliminary Costs.**
All costs of preparing the proposals, providing services efficiently including site visits, testing of material in his presence, all consumables etc. shall be borne by the bidder.

6. **Price Bids**
The bidders are required to quote lump sum fee for the item of schedule of quantity inclusive of all prevailing taxes, levies for the Third Party Inspection / Quality Assurance services in the prescribed format given in Appendix-I.

7. **Duties and Taxes**
No claim on account of any duties, taxes, and other levies payable by the bidders in respect of the transaction between the bidders and sub-Consultant/ other agencies will be entertained by DUSIB.

8. **Validity**
The offer shall remain valid for a period of seventy five days (75) days from the last day of receipt of bids. The overall offer including personnel proposed for the assignment as well as quoted fees shall remain unchanged during period of validity.

9. **Submission of Bids**

Proposals should be submitted in Single sealed Envelope namely 'Financial Bid'

'Financial Bid' for "Supply, Installation, Testing and Commissioning of solar street light various locations at AGE(U),Elect Supply, Phase I Delhi Cantonment assembly (AC-38):

Sub Head:- Third party inspection/Quality assurance service

The above envelope should be addressed to the **Executive Engineer/E-2**, DUSIB, Plot No.1 ,Kilokari ,Ring Road ,New Delhi-110014

Bid can also be seen online on the website Tender Notice Information System website <https://delhishelterboard.in>

10. The financial bid as per Appendix-I, should include the cost of all the works and other additional activities as felt necessary by the department for completing the job. The price bid shall also include the cost of all visits made by Third Party Inspection Agency (TPIA) to site of work. The cost of office expenses, stationary, travelling, attending meeting and related expenses shall be deemed to be included in the financial bid. **The quoted fee will be for providing Third Party Inspection/Quality assurance services till actual date of completion of whole project and this quoted fee shall not be increased due to time and cost over-run of main project.**
11. Award of Contract – The contract for TPIA shall be awarded to the Lowest best qualified and responsible Bidder offering the bid in conformity with the requirements of these specifications and documents and the competent authority shall be the sole judge in this regard.
12. The duly filled offer documents shall not be deposited by post or courier service and all participating bidders shall submit the same by hand delivery in the tender box of O/o the Executive Engineer/E-2, Plot No. 1 Kilokari , Ring Road , New Delhi -110014. †
13. If there is any contradiction in provisions of these tender documents with that of contract of executing agency, the provisions of the contract with the executing agency, shall prevail and any matter/ dispute in this regard shall be decided by C.E. DUSIB whose decision shall be final.
14. Offers received after the deadline of submission will not be accepted and shall be returned to the bidder unopened.
15. Execution of formal agreement after acceptance of quotation: The TPIA whose bid is approved for acceptance shall within 15 days of issuance of letter of Commencement to him/her, needs to execute a 'Formal Agreement' with the Executive Engineer.
16. Dispute & Arbitration: In the event of any question, dispute or difference arising under this contract, the same shall be referred to the sole arbitration.

TERMS OF REFERENCE

1.0 PROJECT DESCRIPTION:

The proposed work shall consist of Supply, Installation, Testing and Commissioning of solar street light in various locations at AGE(U), Elect Supply, Phase I Delhi Cantonment assembly (AC-38).

Sustained Third party Inspection/Quality Assurance Service.

2.0 PURPOSE

The agency has to ensure that the executing and implementing agencies have taken adequate and proper steps to ensure control of quality and have evolved a proper quality assurance plan and the work is being executed accordingly. It has to be further ensured by the agency that the work is being carried out as per Contract specification and relevant BIS specifications by deputing skilled and experienced Engineers who are experts in individual fields.

The Technical Specifications applicable to the project provide for Quality Assurance and Quality Control of the work executed by use of a Quality Management System (QMS). The basic concept of this process is that the contractor performs inspection & testing as per specifications to ensure a quality product and the Third Party Inspection Agency (TPIA) performs testing and Inspection to ensure that the Contractor's Quality Control test results are in order. The system requires that both the contractor and the TPIA have technical personnel who are competent in testing and inspection of all technical works. The general idea is that the contractor has to perform the necessary tests and inspection to ensure the likelihood that all works in his scope meet the specifications instead of "after the fact" testing to see if all works meets the specifications. This approach enables the contractor much more control over his operations. He is responsible for his product from the beginning to the end till the final acceptance of all the works. The TPIA monitors his process of testing to make sure that what he is doing is adequate and accurate. Ensuring production of a quality work of durability and uniform performance by a Contractor is the most important aspect of the quality supervision assignment of a TPIA.

3.0 TERMINOLOGY

Quality is defined as "The totality of characteristics of an entity that bears on its ability to satisfy the stated and implied need". Quality Control is defined as the procedure adopted and controls exercised to ensure that the materials proposed to be used in production, process adopted for production and workmanships of production conform to the prescribed standards and laid down acceptance criteria. The quality control is exercised by agency that ensures that the defined objective is achieved through appropriate tests, checks and inspections by suitable qualified personnel. Furthermore, the objective evidences of all tests, checks and inspections carried out from time to time are documented in prescribed formats for reference and record.

Quality Assurance of a work is defined as a process which exercises various checks at different stages of a work right from its inception till its acceptance, to put it in service to ensure that the work has been properly designed and constructed as per approved designs, drawings and specifications.

Confirmatory Testing is defined as the sampling and testing which is carried out

independent of quality control sampling and testing to confirm that the contractor's results which have been reported are correct and representative, with statistical parameters of the material being produced/processed.

Acceptance is defined as those operations, inspections, sampling and accepting the tests that are conducted to determine whether the product or service will be accepted for use and payment. Acceptance is determined using a statistically based acceptance plan with assurance that the contractor has fulfilled the quality control obligations. Acceptance is the responsibility of the client.

4.0 DOCUMENTS TO BE REFERRED

- (a) Tender specifications and IS Codes.
- (b) Upto date CPWD Specifications.
- (c) Upto date Quality Assurance circulars issued by CPWD from time to time.
- (d) Any other document as deemed fit by TPIA/Engineer-in-Charge.

5.0 SCOPE OF SERVICES

1. Preparation of Quality Assurance / Inspection Plan as per Tender Specifications. This will include
 - (a) Testing Plan of Raw materials.
 - (b) Testing & Inspection Plan of activities.
 - (c) Creating Testing and Inspection Formats.
2. Assisting DUSIB in developing its Quality Assurance / Inspection Plan.
3. **Review of Manufacturer's Certificates/ Test results from outside approved laboratory for all bought out items.**
4. The work of quality assurance / auditing shall be in the form of random inspections /lifting of samples at different stages as mentioned below for different type of works:

Item

Foundation

Pole

Light Fitting

I Stage

(i) At time of Casting

(i) At time of Supply

(ii) At time of Erection

(iii) At time of commissioning of project work.

(i) At time of supply

(ii) At time of commissioning

5. 3 rd Party outside agencies shall adhere to the above inspection schedule and decide the material / item for which sampling is to be done, if any during execution at different stages / completion of work to ascertain the required quality assurance.
6. The above inspections are the minimum inspection and if the 3 rd party needs to carry out additional inspections, they can do so However no additional payments shall be made to the outside agencies for the same. The above shall be strictly adhered to as per chart above.

7. During the inspections the 3rd party shall carry out thorough checking of works as per CPWD / specified specification and provision of the contract agreement:
- Random checking of items /works being carried out/ already carry out at the time of Inspections.
 - Reinforcement etc. to be verified before casting of RCC
 - Besides giving the inspections notes. The 3rd party shall also give technical advisory and suggestions the progress / completion of the work.
 - The 3rd party shall give its recommendations w.r.t the discrepancies found at the time of inspection & the corrective measures remedies so that the discrepancies can be rectified /re-done.
 - The 3rd party agency shall submit complete and comprehensive inspection Report within 10days of every inspection to concerned SE & EE and a copy to SE(QC). No report will be handed over to the contractor by the 3rd party directly in order to maintain secrecy and all communication will be restricted to DUSIB officials only.
 - All 3rd party agencies shall from time to time review the system & procedure for continuous improvements and to review errors, if any. The 3rd party agencies shall also from time to time ascertain complete transparency to maintain accuracy /credibility and reliability..
8. The 3rd party inspection agency after receipt of the work order shall contact the concerned EE within 3 days and work out the modalities and start checking the work immediately thereafter . Any constraints / hindrances in taking of the inspection, if any shall be brought to the notice of concerned SE/CE.
9. (i) The concrete mix design with or without admixture will be carried out by the contractor through one of the following laboratory/test house and no payment will be made to the contractor on A/c of fee to be paid to the agencies.
- IIT Delhi
 - National Council of Cement and Building Materials Ballabh Garh.
 - CRRI Delhi
 - Delhi Technological University, Delhi
- (ii) In the event of all the four laboratories mentioned above being unable to carry out the requisite design/testing the contractor shall have to get the same done from any other laboratory with prior approval of the competent authority.
10. TPIA will witness all the field-testing carried out by agency as per the requirement of standard codes and will review all the concerned reports and records regularly.
11. TPIA will also randomly check the workmanship & methods adopted for completing the activities of work by agency and any shortcoming will be informed by the TPIA for rectification.
12. Random sampling of materials for testing to be done by TPIA shall be done in such a way that it represents the whole work. The samples shall be collected in presence of representatives of agency as well as Engineer-in- Charge.
13. TPIA will witness calibration of all field laboratory equipments.
14. For testing of construction materials at field laboratory & outside laboratory, the sampling of materials shall be done jointly by TPQA & executing agency's authorized Representative.
15. Samples for outside testing shall be sealed by TPQA and forwarding letter shall be given to the

executing agency who will carry the sample and send it to the laboratory as approved by TPQA.

16. Mechanical/ Electrical Engineers of TPIA will be present at site for needful checking the quality during execution of related activities at site and as per direction of Engineer-in-Charge.
17. One suitably qualified engineer of TPIA, as approved by Engineer-in-Charge will always be available at site or contractor's laboratory during currency of work. Senior representatives of TPIA will also visit the site regularly at least every fortnight and as and when directed by Engineer-in-Charge.

After review of test report and analysis of inspection, observations will be made and communicated to the contractor/ DUSIB and to take necessary action for rectification/ modification (if required).

TPIA shall generate report for tests and inspections carried out by TPIA and submit it to DUSIB.

Department will nominate a Coordinating officer for interaction with TPIA and the contractors.

Executing Agency will hand over documents, Specifications/Manufacturer's instructions for TPIA.

TPIA agency shall also inspect all the deviation items, extra items and substitute items as per routine manner.

TPQA shall check and confirm the quality of the work after verifying the removal of defects, if any pointed out during inspections.

If, it is observed by TPQA that defects pointed out are not removed by executing agency, this matter shall be reported immediately to the DUSIB for necessary action in the matter as per agreement clause.

6.0 Payment Schedule:

- a. 85% of the total fees shall be paid during execution of work, quarterly on pro- rata basis of financial progress of work.
- b. Balance 15% shall be paid after actual completion of execution work and final report submitted by TPIA.

7.0 Security Deposit

An amount equivalent to 5% of the gross amount of each running bill of the TPIA will be deducted and held by Government by way of Security Deposit, unless he/they has/have deposited the amount of security at the rate mentioned in the form of Government securities or fixed deposit receipts. In case a fixed deposit receipt of any bank is furnished by the TPIA to the Government as part of the security deposit and the bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the TPIA and the TPIA shall forth with on demand furnish additional security to the government to make good the deficit.

9

Security deposit shall be released after 6 months of actual completion of the work. However before refund of security deposit, it will be ensured that extension of time, if any, for agreement of TPIA is decided by the competent authority (Project Manager/ Superintending Engineer) and final bill of TPIA has already been paid.

8.0 Responsibility for accuracy of TPIA services provided

The TPIA shall be responsible for accuracy of services provided by them for the project. They shall indemnify the department through the Security Deposit to be deducted as per this agreement against any action arising out of such inaccuracies in the work which might surface at any time at a later date of implementation of the project.

1. Release/ Forfeiture of Security Deposit

The work of TPIA shall be completed once the project is complete and final report has been submitted. **5% Security Deposit shall be released after 6 months of completion of TPIA consultancy works.**

2. Action for Deficiency in Services

2.1 Consultant liability towards the Client

TPIA Consultant shall be liable to indemnify the Client for any direct loss or damage accrued or likely to accrue due to deficiency in service rendered by them which shall include any or all cost and expenses incurred by the Client in removing the deficiency in Service including engaging any other consultant.

3. Effect of change in the scope of the work on TPIA consultancy fee

No extra payment shall be made due to delay in completion of main project.

APPENDIX -I

FINANCIAL BID

FINANCIAL PROPOSAL

To,

Executive Engineer/E-2/DUSIB

Plot No.1 Kilokari, Ring Road, New Delhi-110014

“Supply, Installation, Testing and Commissioning of solar street light in various locations at AGE(U),Elect Supply, Phase I, Delhi Cantonment assembly (AC-38) ;

SH :Third Party inspection/ Quality assurance service”

Sir:

I/We _____ TPIA herewith
Enclose financial bid for the evaluation of our agency /institute as TPIA for above work as per
the scope of work given under terms of reference.

Yours faithfully,

Signature _____

(authorized Representative of the TPIA)

Full Name _____

Designation _____

Address _____

Tele Nos: (O) _____ (R) _____

E-mail: _____

Fax No: _____

SCHEDULE OF WORK

Sr. No.	Description	Qty	Unit
1	Supply, erection, testing & commissioning of 7 meter hot dip Galvanized Octagonal street light Poles Continuously tapered profile for stability. The galvanizing shall be as per IS 4759, method of adhesion and life as per BS:729 equivalent to IS:4985, Street plates as per BSEN 10025/IS 5986, Folding and welding longitudinally as per is 9595/IS 10178 and withstand wind pressure as per IS:875 complete as required. Providing and making suitable size cement concrete foundation with M-25 Concrete with steel reinforced with 12m and 8mm TMT bar as per OEM design. Dimension of pole:Bottom-130 mm, Top 70 mm and 3 mm sheet thickness .Foundation base plate as per manufacture design. Make-Phillips/CG/Valmont/Wipro/Bajaj. (MR).	226	Each
2	SITC of all-in-one integrated LED solar street light consists of solar panel, battery, battery management system, control electronics, LED driver, PIR sensor, inter-connecting cables and pole mounting piece integrated into the luminaire as a single unit. Solar street light with IP65 ingress protection with a lumen output of 5000 lumens, 50Wp high efficiency monocrystalline solar panel, highly efficient MPPT based charge controller, Battery 12.8 Volt, 24Ah LifePO4 (Lithium Ferro Phosphate). LED lumen efficacy shall not less then 140 lumen/watt and LED driver should have >90% efficiency. Typical correlated color temperature should be 5700K with CRI>70. It should have a PIR sensor to ensure battery optimization and 24Hrs back –up with help of a suitable dimming profile. The luminaries should be housed in IK 08 impact resistance certified aluminum housing. Luminarie Warranty -05 Year. Make-Phillips/Wipro/Crompton/Havells/Bajaj. (MR).	226	Each

SCHEDULE OF LUMP SUM PRICE PROPOSAL

S.No.	Description of items	Qty.	Unit	Rate	Amount
1	“Supply, Installation, Testing and Commissioning of solar street light in various locations at AGE(U),Elect Supply, Phase I, Delhi Cantonment assembly (AC-38); SH :Third Party inspection/ Quality assurance service”	1 Job	Lump sum		

IMPORTANT NOTES:

1. The Lump sum amount shall be inclusive of all prevailing taxes and fees.
2. Services of Third Party Inspection agency shall be required up to the actual completion execution of work and finalization of the final bill.
3. No cost adjustment shall be made in case of increase / decrease in execution period of project.
4. No extra payment except as quoted by the TPQA shall be paid for any other items whatsoever in any shape and form.
5. TPQA is expected to make himself acquainted with the work/services expected to be carried out by him for satisfactory carry out of the TPQA services. No extra payment for any account shall be entertained.

Yours faithfully,

Signature _____

(Authorized Representative of the TPIA)

Full Name _____

Designation _____

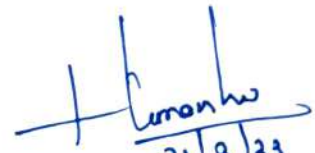
Address _____

Tele Nos: (O) _____ (R) _____

E-mail: _____

Fax No: _____


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