



Tripura Renewable Energy Development Agency (T R E D A)
(A Constituent Organization of Deptt. of Power, Government of Tripura)
 VigyanBhawan, Pandit Nehru Complex, Gorkhabasti, Agartala, Tripura,
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No.F.6 (134)/TREDA/NCES/Pt-I/2215

Date 17/12/2018

NOTICE INVITING QUOTATION

Sealed quotations are invited from the bonafied, resourceful and experienced SPV manufacturers or SPV System Integrator or their authorized agents for the work given below:

PNIQ No.	Name of the work	Qty.	Quotation document fee	Earnest Money	Time for completion
F.6 (134)/TREDA/NCES/Pt-I/ dated / /2018.	Supply of White LED based Solar Photovoltaic Lantern throughout the state of Tripura on turn-key basis including 2 years Warranty / Guarantee (25 years Warranty / Guarantee for SPV Modules) as per specification mentioned in this NIQ.	100 nos. (One hundred) nos.	Rs. 1000/- (Rupees one thousand only)	2.5% of the total quoted amount	45 (forty five) days

- The sealed quotations superscripted "Quotation for supply of LED based Solar Photovoltaic Lantern in Tripura on turn-key basis" with NIQ no. & Date, Due date & time, name of the quotationer etc. alongwith all required document as per the NIQ & forwarding letter as per the format at Annexure IV would be received by the undersigned during office hours till 3:30 PM on or before **2nd January, 2019**. The sealed quotations will be opened on the same day at 4:00 PM, if possible. In case the last date of dropping happens to be a holiday, the quotations will be received on next working day within the specified time.
- Cost of Quotation Document & EMD: Demand Draft or D-call drawn in favour of "The Director & Chief Executive Officer, Tripura Renewable Energy Development Agency (TREDA)" on any Scheduled Bank having branches at Agartala & should be enclosed with the Quotation.
- Quotation without Cost of Quotation document & EMD will automatically be rejected.
- ELIGIBILITY:** SPV System manufacturer i.e. manufacturer of (i) SPV Module and / or (ii) Battery and / or Electronics of Solar Lantern and should be for at least last one audited year or SPV System Integrator or their Authorized local agents. Documents in support of eligibility must be enclosed with the tender.
- CREDENTIALS:** Must have supplied at least 100 nos. of LED based Solar Photovoltaic Lanterns as specified in NIQ by the bidder himself or their Company during last /current financial year. Relevant documents should be enclosed with this quotation.
- SPECIFICATION:** The specifications of the systems are as under:

PV Module	Minimum 5Wp under STC <ul style="list-style-type: none"> Poly crystalline panel with industrial glass / aluminum frame. A distinctive serial number should be engraved on the frame of the module or screen printed on the tedlar sheet of the module.
Battery	Lithium Ion Battery with a capacity of minimum 4.0 Ah, at voltages minimum 6.0 V @ C/20 rate of discharge. Max. DoD 75 % or equivalent capacity.
LED	3.0 Watts (max.) W-LED luminaire, dispersed beam, soothing to eyes with the use of proper optics and diffuser.

[Signature] 17/12/18

Electronics	<p>a. Adequate protection is to be incorporated for “No Load” condition, e.g. when the lamp is removed and the lantern is switched ON.</p> <p>b. The system should have protection against battery overcharge and deep discharge conditions. The numerical values of the cut off limits must be specified, while submitting the samples for the testing purposes.</p> <p>c. The load reconnect should be provided at around 80% of the battery capacity status.</p> <p>d. Adequate protection should be provided against battery reverse polarity & short circuit conditions.</p> <p>e. A fuse should be provided to protect against short circuit conditions.</p> <p>f. Protection for reverse flow of current through the PV module should be provided.</p> <p>g. During the charging, lamp cannot be switched “ON”.</p>
Duty Cycle	4 hours a day under average daily insolation of 5.5 kWh/ sq.m on a horizontal surface.
Autonomy	Minimum of 3 days or 12 operating hours per permissible discharge
Indicators	<p>a. The system should have two indicators, green and red.</p> <p>b. The green indicator should indicate the charging under progress and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.</p> <p>c. Red indicator should indicate the battery “Load Cut Off” condition.</p>
Lantern housing & chimney	Lantern Housing should be made of Plastic or Fiber & Acrylic made Chimney.
Quality and warranty	<p>a. The complete Solar Lantern with LED(s) should be warranted for two years from the date of supply to beneficiary.</p> <p>b. PV modules must be warranted / Guaranteed for their output wattage, which should not be less than 90% at the end of 10 years, 80% at the end of 25 years from the date of supply of the of the system to beneficiary.</p> <p>c. The Warrantee/ Guarantee Card to be supplied with the Solar Lantern must contain the details of the system supplied.</p>
Operation and maintenance manual	<p>An Operation, Instruction and Maintenance Manual, in English and the local language, should be provided with the Solar Lantern. The following minimum details must be provided in the Manual:</p> <ol style="list-style-type: none"> i. Basic principles of Photovoltaic. ii. A small write-up (with a block diagram) on Solar Lanterns - its components, PV module, battery, electronics and luminaire and expected performance. iii. Significance of indicators. iv. Type, Model number, Voltage, capacity of the battery, used in the system. v. The make and wattage of the LED used in the lighting system. vi. Clear instructions on mounting, operation, regular maintenance and trouble shooting of the Solar Lantern. vii. Instructions on replacement of battery. viii. DO's and DONT's. ix. Name and address of the contact person for repair and maintenance during the warranty.
Facility for Mobile charging	USB port for Mobile Charging. However, in case of mobile charging, the duty cycle for light to be reduced / adjusted accordingly.

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7. Schedule for quoting rate: Rate Quotation Sheet are given at Annexure – I.
8. Test Certificate: The quotationers are required to submit test certificates of Major Component i.e. (i) SPV Module & (ii) Battery from one of the MNRE approved /IEC/NABL Accredited Test Laboratories in compliance with the specifications mentioned in the Clause No.6 of the NIQ. Test Certificate of higher capacity of SPV Module will also be considered. Certificate issued during 2015-16 or after or as on date of opening the quotation will only be considered as valid. Test certificates issued prior to 2014-15 will not be considered as valid.
9. Completion period: Delivery of the complete system at site shall commence from 30th day and the work should be completed within 45th day from the date of issue of the work order.
10. SERVICING CENTRE: The successful quotationer should open Servicing Center's for providing after sales services during warranty/guarantee period
11. WARRANTEE/GUARANTEE: All parts and components of the solar lanterns such as module, battery, LED, electronics etc. shall be warranted / Guaranteed for 2 (two) years from the date of supply to the beneficiary and shall be repaired / replaced free of cost by the successful bidder within the warranty/guarantee period. PV modules must be warranted / Guaranteed for their output wattage, which should not be less than 90% at the end of 10 years, 80% at the end of 25 years from the date of supply of the of the system to beneficiary.
12. Any complaint must be attended within 7 (seven) seven days from the receipt of complaint in writing or telephonically.
13. No retired employees of Tripura Renewable Energy Development Agency within a period of 2(Two) years of retirement from Government service and the persons having direct or indirect relationship with the employees of Tripura Renewable Energy Development Agency.
14. Payment and other Financial Terms:
 - 14.1 No advance payment will be allowed.
 - 14.2 90% payment will be released on successful & satisfactory installation and commissioning of the Systems. The bills should be accompanied by completion report in respect of supply of the systems duly signed by the concerned authority of User(s), officer-in-charge of TREDA.
 - 14.3 10% amount against the supply will be retained as security deposit which will be released in phase manner @ 5% on prorata basis at the end of each guarantee/warrantee period on satisfactory performance. The bills should be accompanied by satisfactory performance/maintenance report of the systems duly signed by the concerned authority of User(s), officer-in-charge of TREDA.
15. Statutory Deduction from Bill: The Income Tax & GST as applicable will be deducted from bill at source as per the then prevailing rate. Deduction at source will not be made if concerned authority empowers the purchaser not to deduct such taxes specifically indicating the supply order.
16. Price variation Clause: Price should be fixed & firm. No price variation will be allowed in case of variation of raw materials cost, transportation etc.
17. Release of Earnest Money (EMD): Earnest money deposit of the successful quotationer will be released on successful completion of the work in full. However, if the supply is delayed beyond 60 days from the date of final inspection of materials at Agartala due to some unavoidable reasons on the part of TREDA, the materials will be received by TREDA & EMD will be released if the systems are found functional on the date of receipt. The EMD of un-successful quotationer shall be returned after award of the contract/ order to the successful quotationer. No interest will be paid on the earnest money.
18. The quantity shown in the quotation may be increased or decreased by 25% at the discretion of authority as per the accepted rate, terms & conditions stipulated in the Work Order of successful quotationer.
19. Legal Case: All disputes are to be settled within the jurisdiction of Tripura High Court, Agartala.
20. No T & P will be issued from TREDA for successful execution of the work.
21. Deviation of specifications and Terms and Conditions of NIQ documents may cause for rejection of the offer(s) of quotationer(s).
22. This NIQ document along with all relevant documents must be signed & stamped by the quotationer.
23. During the guarantee / warranty period, State Agency / User reserve the right to cross check the performance of the systems.

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- 24.** PAN Card (Photocopy), Income Tax Certificate for last Assessment Year, GST registration certificate is to be submitted along with the Quotation.
- 25.** The rate should be valid for 180 (one hundred eighty) days from the date of opening of quotation. Once, the Work Order is placed as per the approved rates, the rates will be valid till the completion of work / extended period of completion of work.
- 26.** If any of the above applicable paper is not attached with any quotation, appropriate authority reserves the right to declare the incomplete quotation as informal.
- 27.** The quantity shown here may be increased / decreased by 25% of the quantity shown in the NIQ as per the discretion of the undersigned.
- 28.** The work should be done as per the direction of Officer – in – charge, Tripura Renewable Energy Development Agency.
- 29.** The materials would be inspected by TREDA before supply to the beneficiary. Approval of TREDA is mandatory for supply the Solar lanterns to beneficiary.
- 30.** The successful quotationer shall have to submit one sample of SPV Lantern as per specifications of the NIQ before placement of Work Order.
- 31.** Agreement: The successful quotationer shall be required to convey the acceptance of the Work Order on a valid stamped paper of Rs. 20/- (Rupees twenty) for strict compliance of the terms and conditions of the contract, vis-à-vis the NIQ within 15 (Fifteen) days of placement of the work order.
- 32.** The above terms and condition will be stipulated in the work order.
- 33.** Right to accept / Reject the quotation: Undersigned reserves the right to accept or reject any quotation and to annul the entire process and reject all such quotations at any time prior to award of contract, without thereby incurring any liability to the affected applicant(s) or any obligation to inform the affected applicant(s) of the ground for such decision.

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(N C DAS)
Director & CEO

SIGNATURE OF QUOTATIONER WITH SEAL & DATE

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RATE QUOTATION SCHEDULE

QUOTATION INVITING AUTHORITY: Director & Chief Executive Officer, TREDA.

NAME OF ITEM: Supply of White LED based Solar Photovoltaic Lantern throughout the state of Tripura on turn-key basis including 2 years Warranty / Guarantee (25 years Warranty / Guarantee for SPV Modules) as per specification mentioned in this NIQ.

NIQ: No. F.6 (134)/TREDA/NCES/Pt-I/2215 dated 17/12/2018.

NAME OF QUOTATIONER :

Description of the Items	Qty	Rate including GST	Amount
Supply of White LED based Solar Photovoltaic Lantern throughout the state of Tripura on turn-key basis including 2 years Warranty / Guarantee (25 years Warranty / Guarantee for SPV Modules) as per specification mentioned in this NIQ.	100 Nos.		
(Rupees _____)			

Date:

Signature of quotationer & seal

SIGNATURE OF QUOTATIONER WITH SEAL & DATE

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