

Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA)
(Deptt. of Additional Sources of Energy, Govt. of U.P.)
Vibhuti Khand, Gomti Nagar, Lucknow, U. P.

Tender No: NEDA/Comp/ RMS/2015-16 Dated: 03/11/2015

Sealed and Separate Tenders are invited from reputed developers for design, development and implementation of “Online Web-based Solar Street Light Remote Monitoring System” comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services. This work will be commenced as a pilot project in district Kannauj for Approximate 500 Solar street lighting systems.

The offers will be accepted till 2.30 PM of 26/11/2015 and same will be opened on 26/11/2015 at 4:30 PM in UPNEDA, H.O. Lucknow.

Other details & tender document can be downloaded from UPNEDA website www.neda.up.nic.in. Director, UPNEDA reserves the right to reject any or all tenders without assigning any reason thereof.

Director UPNEDA

Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA)
(Deptt. of Additional Sources of Energy, Govt. of U.P.)
Vibhuti Khand, Gomti Nagar, Lucknow, U. P.
Tel.No. 91-0522-2720652, TeleFax: 0522-2720779, 2720829
Website:<http://neda.up.nic.in> e-mail: compneda@rediffmail.com

NOTICE INVITING TENDER

Office of Issue of Tender: UPNEDA, Vibhulikhand, Gominagar, Lucknow-226010

TENDER NO: NEDA/Comp/ RMS/2015-16

Dates of issue of Bid Document From 06.11.2015 from 12.30 P.M. onwards.

Tender Forms also Available at Website: <http://www.neda.up.nic.in> (In case of downloading, Bank draft from nationalized bank of Rs 525.00 as tender fee to be enclosed with tender)

Tenders will be received Upto 26.11.2015 Time 02.30 P.M.

Date of opening of bids 26.11.2015 Time 04:30 P.M.

For and on behalf of the Director, UPNEDA sealed tenders are invited from reputed developers for design & development of "Online Web-based Solar Street Light Remote Monitoring System" comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services. The work will be commenced as a pilot project in district Kannauj for Approximate 500 Solar street lighting systems.

1. Price quoted per unit should be inclusive of all levies taxes, packing & forwarding charges, installation charges including all material etc as per the scope of work. No extra cartage/ freight charges/ installation charges shall be paid.
2. Bidders shall have to deposit an amount of 10,000/- (Ten Thousand only) as Earnest Money Deposit (EMD) in the form of DD/ Pay Order from any Nationalized bank / SBI/ subsidiary bank of SBI/ scheduled bank of RBI in favour of "Director, UPNEDA", payable at Lucknow- Bid document without EMD will be rejected.
3. The Tenders should be addressed to Director, UPNEDA, Vibhuti Khand Gominagar, Lucknow should be enclosed in **two (02) separate envelopes:**

Part I :

Comprising of EMD, Tender Fee draft and all paper required and signed copy of tender document duly signed and envelop should be super scribed as "Tender for Online Web-based Solar Street Light Remote Monitoring System."

Part II :

Comprising of Price Bid, and the envelop should be super scribed as "Price Bid for Online Web-based Solar Street Light Remote Monitoring System." Any other condition laid etc will make the tender liable to be rejected.

Tenders may be dropped in the tender box kept in front of Room No,107, UPNEDA, Vibhulikhand, Gominagar, Lucknow-226010.

Bids will be opened on due date and time as indicated, in the presence of the available tenderers or their representatives.

4. The tenderer must attach following documents with signed tender document:

Part I

- a. Particular of tenderer as per Annexure-I completely filled and signed by the tenderer.
- b. A Demand Draft/ Pay order of Rs 10,000/- for EMD.
- c. A Demand Draft/ Pay order of Rs 525/- for Tender fee.
- d. Copy of VAT and Service Tax registration.
- e. Required team details for the project.
- f. Required ISO 9001-2000 Certificate
- g. Experience with Govt. departments/undertaking etc for last 03 years with Performance report(s) of other projects, Certificate of Design, development and implementation of Online Application
- h. Financial Statement with turnover of not less than Rs. 25 Lacs per annum (of Last 03 years) from the Chartered Accountant with address
- i. Local presence with office in Lucknow
- j. Details of "Online Web-based Solar Street Light Remote Monitoring System comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software"

Part II

- a. Rates for design, developemnt and implementation of "Online Web-based Solar Light Remote Monitoring System" with required Hardware and Installation/ Support Services as per Annexure II (Price Bid).

5 Intending eligible bidders may obtain a copy of bid documents from UPNEDA, Vibhuti Khand Gomtinagar, Lucknow or by downloading it from the official website of UPNEDA <http://www.neda.up.nic.in>

Director UPNEDA

PROJECT OBJECTIVE:

The “Online Web-based Solar Street Light Remote Monitoring System” using GPRS,GPS,SMS enabled network to Monitor and Control modules installed over on about approx. 500 nos. Solar Street Lights at Kannauj district as pilot project. The data being captured from Solar Street Lights from various sites of Kannauj district(Status of Solar Street light- ON/OFF at various pre-defined time slots of the day), would be available in a central monitoring station over a well designed GUI (Graphic User Interface) making it easy for the controlling officer to know if all solar Street Lighting systems are working well and in case some of the Solar Street Lighting systems report OFF status when required to be ON, automatic commands go to the field team (over internet) with exact location of Solar Street Lighting Systems. Unless the fault is removed and the Solar Street Lighting Systems reports working status, these Solar Street Lighting Systems are always seeking attention of Field team and Central Control officer on daily basis for its rectification.

Scope of work:

UPNEDA is interested for design & development of “**Online Web-based Solar Street Light Remote Monitoring System**” comprises of wireless network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services over on about approx. 500 nos. Solar Street Lights at Kannauj district as pilot project. A detail of work is as under:-

• Software Part:

- A. System Study & System Requirement specification Preparation
- B. Online Cost effective “Web-based Solar Street Light Remote Monitoring System” design using Open Source software, development and implementation (Solution should have facility to read and Monitor the following listed below parameters of Solar street Lights).
 - Condition of Street light (on/off)
 - Facility to set any street light any time in following mode :-
 - (i) Pre defined time to on /off.
 - (ii) Manual control to on / off.
 - (iii)Dusk to dawn operation.
 - Website should be able to monitor “Online Website monitored Street light monitoring system” installed on street light.
 - Website should be able to provide ‘web service’ to live feed street light data to android application. So that Central Control officer can view/monitor the live status of street lights any time on his/her Android Smart Phone.
 - In case of fault in street light reported by “Micro Controller based Street light controller “ or observed by website based on particular street light data the website should automatically send SMS to service concern mobile number/numbers for removal /rectification of fault .

2. Hardware Part:

- a. Supply & Installation of “Online Website controlled Street light monitoring system” to be installed on street light. This module should consist of:-
 - GPRS,GPS,SMS enabled Micro Controller based system to read and monitor the various parameter of street light required by Online website remotely.
 - This “Online Website controlled Street light monitoring system” should be coded so that it should communicate with own controlling web site only

Project BOQ

Design & development of Online Web-based Solar Street Light Remote Monitoring System comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services over on about approx. 500 nos. Solar Street Lights at Kannauj district as pilot project, for **UPNEDA** VibhutiKhand, Gomtinagar, Lucknow.

SNo.	Item/ Job Description	Aprox.Quantity
1.	SRS- System Requirement Specification Document Preparation and DPR-Detailed Project Report Submission.	01
2.	<p>A. Online Cost effective “Web-based Solar Street Light Remote Monitoring System” design using Open Source software, development and implementation (Solution should have facility to read and Monitor the following listed below parameters of Solar street Lights).</p> <ul style="list-style-type: none"> • Condition of Street light (on/off) • Facility to set any street light any time in following mode :- <ul style="list-style-type: none"> (i) Pre defined time to on /off. (ii) anual control to control to on / off. (iii)Dusk to dawn operation. • Website should be able to monitor “Online Website monitored Street light monitoring system” installed on street light. • Website should be able to provide ‘web service’ to live feed street light data to android application. So that Central Control officer can view/monitor the live status of street lights any time on his/her Android Smart Phone. <p>In case of fault in street light reported by “Micro Controller based Street light controller “ or observed by website based on particular street light data the website should automatically send SMS to service concern mobile number/numbers for removal /rectification of fault .</p>	01
3.	<p>a. Supply & Installation of “Online Website controlled Street light monitoring system” to be installed on street light. This module should consist of:-</p> <ul style="list-style-type: none"> • GPRS,GPS,SMS enabled Micro Controller based system to read and monitor the various parameter of street light required by Online website remotely. • This “Online Website controlled Street light monitoring system” should be coded so that it should communicate with own controlling web site only 	500
4.	Gateway for above Smart Lighting Modules in various clusters, (if required) (no of gateways to be decided as per actual site survey) with GSM/GPRS connectivity and operating on a cloud based Gateway Manager for successful transmission of data for real time status of Streetlights (On/Off)	10
5.	Installation & Commissioning “Online Website controlled Street light monitoring system” at each Solar Lights.	500

6.	Hosting on WINDOWS Server with 10-GB Server Space for One-Year	01
7.	Training at One Locations (Lucknow) for 3-Days with Application User Manual.	01
8.	Annual Maintenance Support for the developed Software Modules and “Online Website controlled Street light monitoring system” for One-Year (2 nd Year Onwards)	500

* **Additional cost of the SIM (GPRS) shall be paid by UPNEDA to the actual service provider (after final agreement between UPNEDA and Service Provider).**

TERMS & CONDITIONS:

1. Bids shall be valid for a period of 60 days from the date of opening of bids. Bids submitted without EMD shall be rejected.
2. Bids will be opened in the presence of bidders or their representatives, who choose to be present on the specified date and time.
3. Bidders will be responsible for covering all risk for his employees/machinery on site for installation & commissioning of job. Department will not be responsible for any damages whatsoever on this account.
4. **Payment Terms:**
 - a. 90% payment of the total bill value shall be made only after supply, successfully installation & commissioning and satisfactory report of the designated officer of UPNEDA.
 - b. Balance 10% payment shall be released after one (01) year on satisfactory performance.
 - c. No advance payment will be made.
5. In case of any dispute, Director, UPNEDA shall be the sole arbitrator and this decision shall be final & binding on both the parties.
6. Director, UPNEDA reserves the right to reject or to accept any tender as whole or in part without assigning any reason thereof. It will also not be obligatory on UPNEDA to accept the lowest quotation and no explanation shall be given with regard to reason for rejection of quotation of any tenderer.
7. The Department is free to change the quantity of works for which the bid is called and the payment will be made for actual quantity installed.
8. All the documents submitted (whether original or photocopy) with the bid must be legible and signed by the bidders, otherwise the bid is likely to be rejected.
9. Prices indicated on the Price Schedule shall be entered in the following manner:
 - (i) The price of the work/goods shall be quoted total price (inclusive of all taxes and levies, freight, installation etc what so ever for complete work) of each number.
 - (ii) The bidder shall quote only one price for each item and if more than one price is quoted under different options the rate quoted by him in the first option will be valid only and will be taken for evaluation for all the items given in schedule of requirement.
10. Bidders shall have to deposit an amount of Rs.10,000/- (Ten Thousand only) as Earnest Money Deposit (EMD) in the form of DD/ Pay Order from any scheduled commercial bank in favour of "**Director, UPNEDA**" payable at Lucknow. Bid document without EMD will be rejected.
11. The bidder whose bid is finally accepted, his earnest money will be treated as performance security. Performance security will be returned to the bidder after completion of one year warranty period.
12. The successful bidder have to design & develop Online Web-based Solar Street Light Remote Monitoring System comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services over on about approx. 500 nos. Solar Street Lights at Kannauj district, within 04 months from the date of order by UPNEDA.

13. The EMD shall be forfeited:

- (a) If a bidder withdraws his bid during the period of bid validity specified by the bidder on the Bid form or
- (b) In the case of a successful bidder, if the bidder fails to complete the work in stipulated time.

14. Any bid received by UPNEDA after the deadline for submission of bids prescribed by the UPNEDA shall be rejected and returned unopened to the bidder.

15. Work and performance of the services shall be made by the Supplier in accordance with the time schedule specified by UPNEDA in its work order. In case the works/supply is not completed in the stipulated delivery period, as indicated in the Work Order, UPNEDA reserves the right to short close /cancel this Work order and/or recover liquidated damage charges. The penalty at the rate of 1 % per week subject to the maximum of 10% will be charge on late work. The cancellation/short closing of the work order shall be at the risk and responsibility of the supplier and UPNEDA reserves the right to complete balance work/supply at the risk and cost of the defaulting suppliers who will be obligated to make good the pecuniary loss to UPNEDA.

Particular of Tenderer

Tender for design, developemnt and implementation of “Online Web-based Solar Light Remote Monitoring System” with required Hardware and Installation/ Support in various street lighting system in Kannauj districts of UP” as pilot project for Approximate 500 Solar street lighting systems.

1. Name of the tenderer (in Block letters) _____
2. Address _____

3. Telephone No. _____
4. Bank Draft No, date and amount (a) tender fee _____
(b) EMD _____
5. Name of the Bank _____
6. VAT No. _____
7. Service Tax No. _____

I/we hereby declare and affirm that I/we have read and understood the terms and conditions of the contract as stipulated in the tender notice No. **NEDA/Comp/ RMS/2015-16**. Accordingly, I/ we accept the terms and conditions and hereby offer the rates for the said work of design & development of “Online Web-based Solar Stree Light Remote Monitoring System” comprises of wireless mesh network allowing reliable communication between different modules installed over Street light with required Hardware, Software and Installation/ Support Services over on about approx. 500 nos. Solar Street Lights at Kannauj district as pilot project for UPNEDA as per ANNEXURE-II.

Signature _____

Name of the tenderer _____

Date _____

Official seal of tenderer _____

PRICE BID

For design, developemnt and implementation of “Online Web-based Solar Light Remote Monitoring System” with required Hardware and Installation/ Support in various street lighting system installed for in street lighting system in Kannauj districts of UP” as pilot project for Approximate 500 Solar street lighting systems.

S No	Item/ Job Description	Quantity	Rates (Rs.)
1.	SRS- System Requirement Specification Document Preparation and DPR-Detailed Project Report Submission.	01	
2.	<ul style="list-style-type: none"> ○ Online Cost effective “Web-based Solar Street Light Remote Monitoring <i>System</i>” design using Open Source software, development and implementation (Solution should have facility to read and Monitor the following listed below parameters of Solar street Lights). <ul style="list-style-type: none"> ▪ Condition of Street light (on/off) ▪ Facility to set any street light any time in following mode :- <ul style="list-style-type: none"> (i) Pre defined time to on /off. (ii) anual control to control to on / off. (iii)Dusk to dawn operation. • Website should be able to monitor “Online Website monitored Street light monitoring system” installeed on street light. • Website should be able to provide ‘web service’ to live feed street light data to android application. So that Central Control officer can view/monitor the live status of street lights any time on his/her Android Smart Phone. ▪ In case of fault in street light reported by “Micro Controller based Street light controller “ or observed by website based on particular street light data the website should automatically send SMS to service concern mobile number/numbers for removal /rectification of fault . 	01	
3.	<ul style="list-style-type: none"> a. Supply & Installation of “Online Website Solar Street light monitoring system” to be installed on street light at site. This module should consist of:- <ul style="list-style-type: none"> • GPRS,GPS,SMS enabled Micro Controller based system to read and monitor the various parameter of street light required by Online website remotely. • This “Online Website controlled Street light monitoring system” should be coded so that it should communicate with own controlling web site only 	01	

4.	Gateway for above “Online Website Solar Street light monitoring system” in various clusters at site (no of gateways to be decided as per actual site survey) with GSM/GPRS connectivity and operating on a cloud based Gateway Manager for successful transmission of data for real time status of Streetlights (On/Off)	01	
5.	Installation & Commissioning of “Online Website Solar Street light monitoring system” at each Solar Street Lights at	01	
6.	Hosting on WINDOWS Server with 10-GB Server Space for One-Year	01	
7.	Training at One Locations (Lucknow) for 3-Days with Application User Manual.	01	
	Total amount of above, for work (complete in all respect what so ever)	Total Rs.	
B	Annual Maintenance Support for the developed Software Modules and “Online Website Solar Street light monitoring system” per Year after one year gurrantee.	01	

Date : _____ Signature of the authorized Signatory _____
Seal of the firm : _____