



**TAMIL NADU GENERATION AND DISTRIBUTION
CORPORATION LIMITED**

**TENDER SPECIFICATION FOR
PROCUREMENT OF SOLAR POWER FROM
DEVELOPERS ESTABLISHING SOLAR POWER
PLANTS IN TAMIL NADU**

**THROUGH
COMPETITIVE BIDDING**

**LAST DATE FOR BID SUBMISSION
DUE ON 04-01-2013**

Specn.No.CE/NCES/OT No.1/2012-13

**The Chief Engineer/NCES
Chennai-2.**

INTRODUCTION

Tamil Nadu State Solar Energy policy has been announced by Hon'ble Chief Minister of Tamil Nadu on 20.10.12. In the policy it is proposed to establish solar PV power plants for a capacity of 3000 MW within next 3 years as detailed below:

PHASE (2013-2015)	TARGET (MW)
2013	1000
2014	1000
2015	1000
TOTAL (By 2015)	3000

The 3000 MW of solar power generation will be achieved through Utility Scale Projects, Roof tops and REC mechanism.

The Solar Energy Policy mandates 6% Solar Purchase Obligation (SPO) (starting with 3% till December 2013 & 6% from January 2014) for the HT consumers (HT Tariff I to V) and LT commercial consumers.

In order to facilitate developers to establish Solar Power Plants of capacity 1 MW and above, TANGEDCO proposes to facilitate the investors by procuring the energy generated from these plants through a long term power purchase agreement up to a total capacity of 1000 MW. The developers will be selected through the competitive bidding process.

INVITATION FOR BID

For and on behalf of TANGEDCO sealed tenders are invited in duplicate under Open Tender-Two part rate contract system for the following scheme:-

- 1) Description: Procurement of Solar Power from Developers establishing Solar Power Plants of 1 MW or above capacity in the State of Tamil Nadu at the rate to be finalized through competitive bidding.

- 2) Specification No. CE/NCES/OT No.1/2012-2013

- 3) Earnest Money Deposit: Rs 7 Lakh per MW (Rupees Seven Lakhs only)

- 4) Last date for Submission of Bid: **04.01.2013 upto 14.00 hrs.**

- 5) Date & Place of Opening of Tender: **04.01.2013 at 14.30 hrs.**
Office of the Chief Engineer, NCES, 2nd Floor, Eastern Wing, NPKRR Maligai, 144, Anna Salai, Chennai-2.

If the due date happens to be a holiday, the tender will be received & opened on the next working day.

- 6) Validity of offer: 90 days from the date of opening.

- 7) Method of submission of tender: Open tender-Two Part System

- 8) Number of tender offer copies to be furnished: In duplicate

- 9) Place of Sale of Tender Specification & Clarification to be sought from: **Chief Engineer/NCES, 2nd Floor, Eastern Wing, NPKRR Maligai, 144, Anna Salai, Chennai-2.**
E.Mail: cences@tnebnet.org.
Ph: +91 44 28520167

- 10) Cost of tender specification, if obtained in person(Non refundable) Rs.10,000/- for firms inside Tamil Nadu and outside Tamil Nadu.
(For the firms inside and outside Tamil Nadu an additional amount of Rs.500/- & Rs.2000/- respectively are to be paid, if required by post.)
For the loss and delay in postal transit TANGEDCO shall not be held responsible.
- 11) Down loading tender specification from TANGEDCO website. Bidders can down load the tender documents from TANGEDCO website (www.tangedco.gov.in) and Government of Tamil Nadu website (www.tenders.tn.gov.in) **free of cost** and can participate in the Bid.
- 12) Date of commencement for sale of tender specification: 05.12.2012 at 11.00 Hrs
- 13) Date and time of closing the sale of tender specification: 02.01.2013 upto 14.00 Hrs
Note: Tender specification sold to one firm is not transferable to others.
Bids by consortium are also accepted.
Tenders which have been submitted without proof for remitting EMD will not be considered.
- 14) Date, Time & venue of pre-bid meeting: 19.12.2012 at 16.00 Hrs.
TANGEDCO Head Quarters, 144 Anna Salai, Chennai-2.
- 15) Tender Inviting Authority: **Chief Engineer/NCES, Chennai-2.**
E-mail:cences@tnebnet.org
Web: www.tangedco.gov.in

INSTRUCTION TO BIDDERS

TAMIL NADU GENERATION AND DISTRIBUTION CORPORATION LTD

1.1 General

1.1.1 The Provisions of Transparency in Tenders Act 1998 and Transparency in Tender Rules 2000 shall be followed in this Tender.

1.1.2 For and on behalf of Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO), sealed bids in duplicate through "Two - Part Open tender" system are invited from bidders by the **Chief Engineer, NCES/Chennai-2** for supplying solar power at the rate finalized through competitive bidding, by establishing solar power plant of capacity 1 MW or more in Tamil Nadu.

Due on 04.01.2013 at 14.00 hrs.

1.2 Scope of Services

1.2.1 To establish, maintain and operate solar power plants of 1 MW or above capacity in Tamil Nadu and to supply the generated solar power to TANGEDCO under long term Power Purchase Agreement (PPA) at the rate to be finalized through competitive bidding.

Specification No: CE/NCES/OT. No. 1/2012-2013

1.3 Cost of Tender Specification (Non-Refundable)

Sl.No.	Description	Firms in Tamil Nadu Rs.
1	If obtained in person	Rs. 10,000/=
2	If required to be sent by post	Rs.10,500/=

1.4 Earnest Money Deposit (EMD): Rs.7,00,000/ (Rupees Seven lakhs only) per MW in the form of Demand Draft/ Banker's Cheque / Pay Order.

1.4.1 Intending Bidders should submit an Earnest Money Deposit as specified in Invitation for Bid.

1.4.2 The EMD of all the bidders except that of the successful bidder(s) will be returned by TANGEDCO after the acceptance of the order by the successful bidder.

1.4.3 Bid not accompanied with EMD in accordance with the above provisions will be summarily rejected.

1.4.4 The EMD may be placed either in the outer cover or in cover A.

The EMD will be forfeited if the Bidder

- i) Withdraws his tender or back out after its acceptance.
- ii) Violated the conditions of tender.
- iii) If Bid Qualification Requirement evidences are found to be fraudulent/non genuine.
- iv) In case, TANGEDCO offers to execute the PPA with the Project Developer and if the Project Developer refuses to execute the PPA within the stipulated time period, the EMD shall be forfeited.

1.5 Schedules for Receipt and Opening of Bid:

- | | | | | |
|----|--|------------|-----|------------|
| a) | Date of commencement of sale of Tender Specification | 05.12.2012 | IST | 11.00 Hrs. |
| b) | Date and time for closing the sale of Tender Specification | 02.01.2013 | IST | 14.00 Hrs. |
| c) | Date of Pre-bid meeting with tenderer | 19.12.2012 | IST | 16.00 Hrs |
| d) | Last date and time for receipt of bids | 04.01.2013 | IST | 14.00 Hrs |
| e) | Date and time for opening of bids (Techno-Commercial Bids) | 04.01.2013 | IST | 14.30 Hrs |

If the last day for sale / submission of bid happens to be a holiday, the next working day will be the last day for sale / submission of bids.

1.6 Sale of Tender Specification

Tender Specification can be obtained by remitting the cost either by Cash/ Banker's cheque or crossed Demand Draft drawn in favour of "TANGEDCO collection Account" payable at Chennai-2, noting the Specification Number and sending the receipt to the Chief Engineer, NCES/TANGEDCO/Chennai-2, India with a requisition furnishing the complete postal address, Telephone nos., Fax nos., e-mail etc., Please note that cheques / money order or any other mode of payment will not be accepted.

The TANGEDCO will not be responsible for any delay or loss of document sent by post.

1.6.1 Tender documents will also be placed in the **TANGEDCO Web Site: www.tangedco.gov.in** and the **Government of Tamil Nadu website: www.tenders.tn.gov.in**. The prospective bidders may get the specification **free of cost** by down loading from the above websites and can participate in the bid.

1.7 Bid Qualification Requirement (BQR):

The Bidder should be financially sound and the Bidder should have to give documentary proof of having financial capability to carry out this work. The required Financial Criteria are detailed in Annexure D.

2) Submission of Tender :

- a) Tender not submitted as per the TANGEDCO schedule of quantities will not be considered.
- b) The Tender documents of the Bids are divided into two parts and should be submitted in two separate sealed covers named as below:
 - (i) **Sealed Cover – PART I:** The Techno-commercial Bid
(Cover A) (i.e) Qualifying data for the works, Commercial terms & Conditions, Financial statements. Cover A should not contain any price Bid.
 - (ii) **Sealed Cover – PART II:** The Price Bid as per Annexure C.
(Cover B) duly superscribed on it the name of work, specification No. and the due date of tender with the name of the tenderer.
 - (iii) **EMD Shall be enclosed either in outer cover or in Cover A :**
Cover A & Cover B shall be sealed and enclosed in sealed overall outer cover.
- c) Both the inner & outer covers shall be super-scribed with the specification No. CE/NCES/OT. No.1/2012-2013 and the name of the scheme.
- d) The tender shall be handed over to the Executive Assistant O/o the CE/NCES/ TANGEDCO/Chennai-2 either in person or through Registered post.
- e) The bidder shall submit the tender for supplying the solar power generated from their proposed solar PV plants in Tamil Nadu indicating the location of the proposed project.

3) Opening of Tenders :

- a) The tenders will be opened by the Chief Engineer/NCES/ TANGEDCO / Chennai-2 on the specified date & time in the presence of the Bidders or their authorized representatives.

4) Rejection of Tenders :

The tender of any company / firm / Individual may be rejected by TANGEDCO if:

- a) It is observed that the Bidder has not furnished the required EMD either in the outer cover or in the cover A.
- b) The tender does not conform to the TANGEDCO's technical specification or commercial terms.
- c) The past performance or Vendor rating of the Bidder is not satisfactory.
- d) Validity period quoted is less than 90 days stipulated in the specification.
- e) Tender is not signed by the tenderers.
- f) Tender is received by Telex/Telegram/E-mail.

5) Rights of the corporation :

Notwithstanding anything contained in this specification, the TANGEDCO reserves the right to

- (a) Accept the lowest tender
- (b) Revise the capacities of solar power plant to be established at the time of placing the orders.
- (c) Reject any or all the tenders or cancel without assigning any reasons there for.
- (d) Recover losses if any sustained from the successful Bidder who pleads inability to execute the work of his commitment after award of Tender. The security deposit paid shall be forfeited.
- (e) To cancel the order for not keeping up the work execution as per the schedule in establishing the solar power plant.

- (f) To cancel the tender, if the price quoted is found high even after negotiation and before placing the order.

6) Deviations:

- a) The Bidders shall furnish in a separate sheet, if there are any deviations in the commercial & technical terms contained in this specification. Deviations mentioned elsewhere will not be considered. If no deviations are furnished in the said schedules, it will be construed that the Bidder is accepting all the terms & conditions specified in the specification. Similarly, if any deviations are furnished in the said schedules, it will be construed that these are the only deviations and the Bidder is accepting all other terms of the specification and the offer will be taken for evaluation accordingly.
- b) The offers of the Bidders with unacceptable deviations in the commercial and technical terms of the tender document are liable for rejection.
- c) No alternative offer will be accepted.
- d) Any attempt by any Bidder to bring / to bear extraneous pressure on Tender accepting authority shall be sufficient to disqualify the Bidder.

7) Bar of Jurisdiction:

Save as otherwise provided in Tamil Nadu Transparency Act 1998, no order passed or proceeding taken by any officer or authority under this act shall be called in to question in any court & no injunction shall be granted by any court in respect of any action taken or to be taken by such officer or authority in pursuance of any power conferred by or under the above act.

8) Appeal :

Any Bidder aggrieved by the order passed by the Tender accepting authority under Section-10 of The Tamil Nadu Transparency in Tender Act 1998 may appeal to the Government within 10 (Ten) days from the date of receipt of order.

9) Permanent Account Number (PAN) & Service Tax Registration Number :

The Bidders are requested to furnish the Permanent Account Number (PAN) & Service Tax Registration Number in their offer to comply with IT & service tax rules.

10) Sick Industrial company :

The Bidder who is a sick Industrial company shall state clearly whether the company is a potentially Sick Industrial company in terms of Section 23 or 25 of the Sick Industrial company Act 1985.

11) Scope :

(a) Scope of the bidder :

The selected bidder shall establish solar power plant of the capacity of 1 MW or more and in the location(s) offered and accepted within the specified period and supply the power generated from the above plants to TANGEDCO at the rate negotiated and accepted by L1 tenderer on long term basis. The successful bidder has to establish, operate and maintain the solar power plant. The erection of power evacuation line connecting the proposed solar power plant and TANGEDCO/TANTRANSCO substation shall be under the scope of the bidder. Also the successful bidder shall pay the cost of bay extension work and any other improvement works to be executed by TANGEDCO/TANTRANSCO under Deposit Contribution Works (DCW) basis after finalization of transmission system required for power evacuation. The successful bidder shall also pay 50% of the material cost of bay extension work, towards operation & maintenance of the same for the entire life period.

(b) Scope of TANGEDCO / TANTRANSCO :

The scope of TANGEDCO/TANTRANSCO is to execute bay extension work and any other improvement works under DCW basis on payment of estimated cost by the bidder and to carry out the operation and maintenance of the bay

extension and improvement works on payment of 50% of material cost of bay extension work and improvement work by the successful bidder.

12) Transmission Feasibility:

The developer has to pay consultancy charges to TANGEDCO towards load flow study at the rate of Rs.2 Lakhs + Service Tax for the projects up to 15 MW and Rs.5 Lakhs + Service Tax will be collected for projects more than 15 MW capacity. The solar power plant developer has to establish power evacuation facility based on the load flow study results i.e The developer has to erect the power evacuation line from their proposed solar power plant to the TANTRANSCO substation at their cost as per section 10(1) of Electricity Act 2003. Also if new substation is required for power evacuation the developer has to establish the substation and erect the transmission line upto TANTRANSCO grid substation which will be identified in load flow study as per section 10(1) of Electricity Act 2003.

13) LAND:

The bidder should be in possession of required land (Sale deed or Lease deed) or having a binding agreement to lease or purchase. The bidder has to submit the land document within 30 days from the date of issue of LoI.

14) Existing districtwise evacuation feasibility:

Indicative power evacuation capacity available in various districts.

Sl.No.	Name of the District	Quantum in MW
1.	Cuddalore	50
2.	Thiruvannamalai	100
3.	Vellore	50
4.	Krishnagiri	100
5.	Villupuram	50
6.	Salem	50
7.	Pudukottai	50
8.	Trichy	100
9.	Thanjavur	50
10.	Dindigul	50
11.	Ariyalur	100

12.	Kanchipuram	25
13.	Tiruvallur	25
14.	Namakkal	50
15.	Dharmapuri	50
16.	Erode	10
17.	Coimbatore	10
18.	The Nilgiris	0
19.	Nagapatinam	25
20.	Tiruvarur	25
21.	Karur	50
22.	Perambalur	50
23.	Madurai	10
24.	Theni	0
25.	Ramanathapuram	50
26.	Virudhunagar	25
27.	Sivagangai	25
28.	Tirunelveli	0
29.	Thoothukudi	10
30.	Kanyakumari	0
31.	Tiruppur	10
32.	Chennai	0
		1200

N.B. These power evacuation capacities are indicative only. Exact capacity available in the particular substation to be connected will be made available based on detailed load flow study to be undertaken based on request.

The bidder may submit their proposal for establishment of Solar power Plants in any district(s) in Tamil Nadu.

15) Capacity of Each Project:

The minimum project capacity shall be 1 MW.

16) Connectivity with the Grid:

The plant should be designed for interconnection with the TNEB Grid at the voltage level of 11 KV or above. The project developer should indicate in their offer the location (Village and District as applicable) of their proposed project. The responsibility of constructing the evacuation line from power plant upto TNEB substation would be under the scope of the developer.

17) Selection of Projects:

Selection of L1 Bidder shall be determined as per "Transparency in Tender Act 1998" and "Transparency in Tender Rules 2000". TANGEDCO will evaluate only those tenders, which are received by the appointed date and time at the office of CE/NCES/TANGEDCO/Chennai-2 based on the qualification criteria and all the bids satisfying the eligibility criteria shall be qualified by TANGEDCO. The bidders who have quoted lower rates (i.e) L1, L2,L3 etc... will be called for negotiation in that order and Letter of Intent (LoI) will be issued to all the qualified projects, provided the developers of the project are willing to supply at the negotiated and accepted rate till the aggregate capacity awarded to the bidders reach 1000 MW.

Qualified bidders shall pay the Load Flow Study Charges within 15 days from the date of issuance of LoI.

18) Power Purchase Agreement :

Power Purchase Agreement is to be executed between TANGEDCO and the Project Developer within one month from the date of confirming the Transmission feasibility. The agreement shall be valid for 20 years.

- Security Deposit / Performance Guarantee of Rs.30 Lakh/MW at the time of signing of PPA shall be furnished either by way of DD/Banker's cheque/Pay Order or Bank guarantee valid for a period of 15 months. On furnishing of the SD as above the EMD furnished shall be returned.

19) Commissioning :

Solar power Plant shall be commissioned within 10 months of the date of issuance of LoI. In case of failure to achieve this milestone, TANGEDCO shall encash the Performance Guarantee in the following manner:

- a. Delay up to one month – TANGEDCO will encash 20% of the total Performance Bank Guarantee.

- b. Delay of more than one month and upto Three months – TANGEDCO will encash 40% of the total Performance Bank Guarantee.
- c. Delay of more than Three months TANGEDCO will encash the remaining Performance Bank Guarantee.

In case, the commissioning of the Project is delayed beyond 18 months from the date of issuance of LoI, the PPA will be terminated and the Project shall be removed from the list of selected Projects.

However, if there is delay in commissioning beyond 10 Months from the date of issuance of LoI and in the meanwhile the applicable solar tariff has been reduced, the project shall be paid at the reduced tariff only.

20) Rates :

The Bidder should quote their selling rate in Rs. per Kwh for solar power to be exported to TANGEDCO grid from their proposed solar power plant for the period from 1.1.2014 or Commercial Operation Date (COD) whichever is earlier to 31.3.2014. The rate finalized after negotiation will be escalated at the rate of 5% every year upto ten years from 1.4.2014. The applicable rate at the end of 10th year will remain constant for the remaining PPA period. For eg. If the accepted rate for the first year upto 31.3.2014 is Rs.5.00 per unit, the rate applicable for the 2nd year from 1.4.2014 to 31.3.2015 would be Rs.5.25 (5.00+5%) per unit and for the third year from 1.4.2015 to 31.3.2016 would be Rs.5.51 (5.25+5%) per unit and so on.

21) Payment Mechanism:

The due date for payment of energy bill will be 30 days from the dated of receipt (excluding the date of receipt) of bill in complete from the generator. TANGEDCO shall provide unconditional revolving and irrevocable LC which shall be drawn upon the solar power plant developers.

TANGEDCO shall provide LC from public sector/scheduled commercial bank. The payment shall be made on 30th day from the date of receipt of passed bill (Invoice) at LC opener's bank. If the 30th day (due date) happens to be a holiday for TANGEDCO / Banks, then payment will be made on the next working day. All expenses relating to LC viz. Opening charges, Maintenance charges, Negotiation Charges and renewal charges are to the account of Solar Power Plant Developers. The revolving LC shall have a term of 12 months and validity of the LC shall be renewed year after year and remains valid upto expiry of the agreement and the amount shall also be renewed for an amount equal to 105% of the average of monthly billing of proceeding 12 Months.

22) Force majeure :

- a) If at any time during continuance of this agreement the performance in whole or in part in any obligation under this tender shall be prevented or delayed by reasons of any war, acts of public enmity, acts of civil commotion, strikes, lock outs, sabotages, fire, floods, explosions, epidemics, quarantine restrictions, or other acts of god (hereinafter referred to as eventualities) then provided notice of the happening of any such eventuality is given by the Bidder to the TANGEDCO within 15 days from the date of occurrence thereof, neither party shall by reasons of such eventualities be entitled to terminate this agreement nor shall have any claim for damages against the other in respect of such non performance of delay in performance and deliveries under this tender shall be resumed as soon as practicable after such eventualities has come to an end or ceased to exist.
- b) Provided that the performance in whole or in part by the contractor or any obligation under this tender is prevented or delayed by reasons of any eventualities for a period exceeding 60 days the TANGEDCO may at its option terminate this tender by giving notice in writing.

23) Jurisdiction for legal proceedings :

- a) No suit or any proceeding in regard to any matter arising in any respect under this tender shall be instituted in any courts save in the appropriate city civil court of Chennai or the court of small causes at Chennai.
- b) It is agreed that no other court shall have jurisdiction to entertain any suit or proceedings even though part of course action arises within their jurisdiction.
- c) In case any part of course of action might arise within the jurisdiction of any of the courts in Tamilnadu and not in the courts at Chennai then it is agreed to between parties that such suits or proceedings shall be instituted in a court within Tamilnadu and no other court outside Tamilnadu have jurisdiction even though part of course action arises within their jurisdiction of such courts.
- d) An undertaking in this regard should be furnished on receipt of Letter Of Indent.

24) Specification & Clarification :

- a) The Bidder shall study carefully the specification & conditions that are contained in this specification before tendering.
- b) If the Bidder has any doubt as to the meaning of any portion of the specification he could refer to the CE/NCES, Chennai in writing and obtain the clarification well in advance i.e. before 48 hours of opening of tender.

25) Recovery of dues to the TANGEDCO :

The TANGEDCO is empowered

- (a) To recover any dues against this specification in any bills / E.M.D due to the successful Bidder either in this work or any other work with the TANGEDCO.

- (b) To recover any dues against any other work of the successful Bidder with TANGEDCO, with the available amount due to the successful Bidder against this tender.
- (c) To adjust any amount from the bills / pending payment in case of any amount due from the Bidder to the TANGEDCO consequent to the non-fulfillment of the terms or any other terms with the TANGEDCO.

26) Signature of the Bidder :

- a) The Bid must contain the name, residence and place of business of the person or persons making the tender and must be signed and sealed by the Bidder with his usual signature.
- b) A tender by a partnership concern must furnish the full names of all partners. It should be signed by one of the members of the partnership or by an authorized representative followed by the name and designation of the person or persons signing.
- c) Tenders by corporations / companies must be signed with legal names of the corporations / companies by the president, secretary or any other person or persons authorized to bind the corporations / company in the matter.

27) Bidder's understanding of the Tender document :

The Bidder shall carefully examine the tender documents and fully inform himself as to all the conditions and matters which may, in any way affect the work or cost thereof. Should a Bidder find discrepancies in or omissions from the specification or documents or should be in doubt as to their meaning, he should at once notify the CE/NCES, Chennai and obtain clarification in writing prior to submitting the tender.

28) Modification of Tender Documents :

Modification of specifications and extension of the opening date of the tender, if found necessary will be made by the competent Authorities of TANGEDCO.

29) Non Assignment :

The Bidder shall not assign or transfer the tender or any part thereof without the prior approval of the TANGEDCO.

30) Validity :

The tender shall be valid for a period of 90 days from the date of opening.

31) Agreement :

The successful Bidder is bound to enter into an agreement with the TANGEDCO as per the format approved by TNERC, and this agreement should be executed within a period of 30 days from the date of finalization of transmission system required for power evacuation.

32) Technical Specification :

As per the details enclosed in Annexure A.

ANNEXURE A

The bidder may adopt any technology in establishing Solar Power Plants. However, technical requirements of PV Module for use in Grid Solar Power Plants are as follows:

The following are some of the technical measures required to ensure quality of the PV modules used in grid solar power projects.

(a) PV Module Qualification

1.1 The PV modules used in the grid solar power projects must qualify to the latest edition of any of the following IEC PV module qualification test or equivalent BIS standards.

Crystalline Silicon Solar Cell Modules	IEC 61215
Thin Film Modules	IEC 61646

1.2 In addition, PV modules must qualify of IEC 61730 for safety qualification testing. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701.

(b) Authorized Test Centers

The PV modules must be tested and approved by one of the IEC authorized test centers. In addition a PV module qualification test certificate as per IEC standard, issued by ETDC, Bangalore solar energy centre or Government Authorized Testing Centre will also be valid.

(c) Warranty

- The mechanical structures, electrical works and overall workmanship of the grid solar power plants must be warranted for a minimum of 5 years.
- PV modules used in grid solar power plants must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

(d) Identification and Traceability :

Each PV module used in any MW scale Solar power Project must use a RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions).

- (i) Name of the manufacturer of PV Module
- (ii) Name of the Manufacturer of Solar Cells
- (iii) Month and year of the manufacture (Separately for solar cells and module).
- (iv) Country of origin (separately for solar cells and module)
- (v) I-V curve for the module
- (vi) Wattage, I_m , V_m and FF for the module
- (vii) Unique Serial No and Model No of the module
- (viii) Date and year of obtaining IEC PV Module qualification Certificate
- (ix) Name of the test lab issuing IEC Certificate.
- (x) Other relevant information on traceability of solar cells and module as per ISO 9000

All grid solar power plants must install necessary equipment to continuously measure solar radiation, ambient temperature, wind speed and other weather parameters and simultaneously measure the generation of DC power as well as AC power generated from the plant. They will be required to submit this data to TANGEDCO on line and / or through a report on regular basis for the entire duration of PPA.

ANNEXURE B

SCHEDULE

Sl.No.	Event	Date
1.	Date of issuance of Tender	Zero date
2.	Submission of Bid	Zero + 30 days
3.	Opening of Bid	Zero + 30 days
4.	Qualification of eligible bidder and issuance of LoI.	Zero + 60 days
5.	Completion of load flow study	Zero + 90 days
6.	Signing of PPA	Zero + 120 days
7.	Commissioning of the Project	Zero + 360 days

ANNEXURE C

Price Bid

Specification CE/NCES/OT/No.1/2012-2013

Sl.No.	Location of Proposed Solar power Plant	Capacity proposal in MW	Supply rate for the first year from 01.01.2014 or COD whichever is earlier to 31.03.2014 (at the TANGEDCO grid) Rs.per Kwh (all inclusive)
1.			
2.			
3.			

Company Seal

Signature

Designation

Company

Date

ANNEXURE D

Financial Criteria :

Net worth

The net worth of the bidder should be equal to or greater than the value calculated at the rate of Rs.1 Crore per MW of the proposed project capacity. The computation of net worth shall be based on unconsolidated audited annual accounts of the company. For the purpose of the computation of net worth, the average of the last four years shall be considered. The company would thus be required, to submit annual audited accounts for the financial years 2008-09, 2009-10, 2010-2011 and 2011-2012 while indicating the year, which should be considered for evaluation, along with a certificate from the Chartered Accountant to demonstrate the fulfillment of the criteria.

For companies which are newly incorporated, the Net Worth criteria should be met seven days prior to the date of submission of bid by the Project Developer. To demonstrate fulfillment of the criteria, the Project Developer shall submit a certificate from a Chartered Accountant certifying the Net Worth on the date seven days prior to submission of bid further, the Project Developer shall submit the un-audited financial statements of the company for the date on which the Certificate of Chartered Account has been obtained.

Net Worth :

=	Paid up share capital
Add:	Reserves
Subtract :	Revaluation Reserves
Subtract:	Intangible Assets
Subtract:	Miscellaneous Expenditures to the extent not written off and carry forward losses.

For the purposes of meeting financial requirements only unconsolidated audited annual accounts shall be used. However, audited consolidated annual accounts of the Project Developer may be used for the purpose of financial requirements provided the Project Developer has at least twenty six percent

(26%) equity in each company whose accounts are merged in the audited consolidated account and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.

If the bid is submitted by a consortium the financial requirement to be met by each Member of the Consortium shall be computed in proportion to the equity commitment made by each of them in the Project Company. Any consortium, if selected, shall, for the purpose of supply of power to TANGEDCO, incorporate a Project Company with equity participation by the Members before signing the PPA with TANGEDCO. The Project Developer may seek qualification on the basis of financial capability of its Parent Company and / or its Affiliate(s) for the purpose of meeting the Qualification Requirements. In case of the Project Developer being a Bidding Consortium, any Member may seek qualification on the basis of financial capability of its parent company and / or its Affiliate(s).