

**Tender for Supply, Installation & commissioning of
7.5 kW Grid connect Solar Photovoltaic
Power Plant on Anklav S/Dn. Office building
during the Year 2010-11**

Madhya Gujarat Vij Company Ltd.
3rd Floor, S.P. Vidyut Bhawan, Race Course Circle,
Vadodara - 390007
Gujarat, India
Phone : +91 265 2310581-86, Fax: +91 265 2338280
website: www.mgvcl.com

(Sign. & Seal of the Bidder)

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A. - TENDER NOTICE

Madhya Gujarat Vij Co. Ltd. invites web tender for supply, installation & commissioning of 7.5 kW grid connect Solar Photovoltaic Power Plant on **ANKLAV** Sub Division Office building during the year 2010-11. **Tender** documents can be downloaded from website: www.mgvcl.com or www.gseb.com . Last date for submission of the physical offer is **05th Aug, 2010 before 14.00 hrs.** MGVCL reserves the right to reject any/all offers without assigning any reasons thereof.

ACE (CC)
Madhya Gujarat Vij Co. Ltd., Vadodara

(Sign. & Seal of the Bidder)



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1.0 Letter inviting Tender

Ref. No.MGVCL/Com/Solar/TNDR/2010-11

Date: Jun 15, 2010

To,

Sub : Tender for Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic power plant on ANKLAV S/Dn. Office building during the year 2010-11.

Dear Sir,

MGVCL invites offers for **Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic power plant on ANKLAV S/Dn office building during the year 2010-11.**

Offers are invited from Bidders/ Associates having adequate infrastructure facilities for manufacturing, marketing and to provide prompt & reliable after sales service and satisfying criterion as per the Tender Evaluation Criteria (TEC) of this document.

Offers submitted should be accompanied by an **Earnest Money Deposit of Rs. 18,000/-** (Rs. Eighteen Thousand only) in the form of Demand Draft drawn on any Nationalized Bank, ICICI Bank, IDBI Bank, UTI Bank, HDFC Bank in favour of Madhya Gujarat Vij Co. Ltd. payable at Vadodara. Offers received without requisite Earnest Money Deposit will be summarily rejected.

Tender documents may be downloaded from MGVCL website, the tenders submitted should be accompanied by **Tender Document Fee of Rs. 1,000/-** (Rs. One thousand only) in the form of Demand Draft drawn on any Nationalized Bank, ICICI Bank, IDBI Bank, UTI Bank, HDFC Bank in favour of MGVCL

(Sign. & Seal of the Bidder)

payable at Vadodara. Tenders received without requisite Tender Document Fees will be summarily rejected.

Offers are to be submitted in two parts:

Part – I	Technical Bid Containing original document duly signed and sealed on every page, Earnest Money Deposit & Tender Document fees in the prescribed form, details of manufacturing & infrastructure facilities as per the document, Test certificate of PCU, Modules, Technical Specifications and Bochures on the models proposed, Documents in support of Tender Evaluation Criteria, any other documents/ papers in support of claims made by the party
Part – II	Financial Bid Schedule of Rates as per the proforma attached in the tender document.
Both these envelopes should be packed in an envelope super scribed with offer detail and due date.	

Offers submitted by the Bidder should be valid for the period of six months from the date of opening.

Sealed offers, duly super scribed on the envelop as **“Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic Power Plant on ANKLAV S/Dn office building during the year 2010-11”** should reach to **The ACC (CC), MGVCL** on or before **05th Aug 2010 before 14.00 hrs. Page number shall be mentioned on each page.**

Part – I: Technical Bid of the offers received shall be opened on **05th Aug 2010 at 15.00 hrs** at MGVCL's office. **Parties are requested to go through the specifications carefully before submitting their offers.**

Part – II: Financial Bid of only those successful Bidders whose Technical offers are accepted shall be opened on the date as decided by the Tender Evaluation Committee (TEC) of MGVCL.

Tenders found incomplete or not followed all the instruction shall **not** be considered technically qualified. MGVCL may at its discretion change the date & time of opening of he offers without assigning any reasons thereof. In the event of any change in the schedule, the same shall be communicated to you in time.

MGVCL reserves the right to reject any/all offers without assigning any reasons thereof.

Thanking you,
Yours faithfully,

ACE (CC)

(Sign. & Seal of the Bidder)

2.0 CHECK LIST

To ensure that your offer submitted to MGVCL is complete in all respects, please go through the following checklist & tick mark for the enclosures attached with your offer:

Sr. No.	Description	Attached	Not Attached
1	Earnest Money Deposit in the prescribed form		
2	Tender Document Fee in the prescribed form		
2	Tender document duly signed & sealed on every page, as a confirmation of acceptance of the terms & conditions of the document.		
3	A copy VAT & CST Number, Permanent Account Number (PAN)		
4	Test certificate of PCU, Modules.		
5	Details of similar work done in last three years along with copies of the orders and certificates from the customers, their address phone/fax as per the Offer Evaluation Criteria and as per Annexure – I of the tender document		
6	Details of Technical staff available (Brief Bio-data of key Personnel be given) as per Annexure – II of the tender document		
7	Name & address of dealers/ distributors/ service stations in Gujarat along with copy of agreements.		
8	Declaration of the Bidder about any relatives working with MGVCL as per Annexure – III of the tender document		
9	Deviation, if any, from the specifications, terms & conditions etc. (Annexure – IV)		
10	Whether validity of your offer is confirmed as per the document		

DETAILS OF EARNEST MONEY DEPOSIT ATTACHED

S.No.	Description
1	<u>Earnest Money Deposit</u> Earnest Money Deposit of Rs.18,000/- , submitted in the form of Demand Draft/ Banker's Cheque, drawn on _____ Bank, _____ Branch, bearing DD/BC No. _____ dated _____ is attached herewith.
2	<u>Tender Document Fee</u> Tender Document Fee of Rs.1,000/- , submitted in the form of Demand Draft/ Banker's Cheque, drawn on _____ Bank, _____ Branch, bearing DD/BC No. _____ dated _____ is attached herewith.

(Sign. & Seal of the Bidder)

3.0 GENERATION INFORMATION ABOUT THE BIDDER

(to be completely filled by the bidder)

1.	Name of the Company	
1a.	Postal Address	
1b.	Telephone nos. Fax no.	
1c.	e-mail address & URL	
2	Type of Company Attach Proof of Company Registration along with a copy of the Partnership Deed/ Article of Association and Memorandum of Understanding	Proprietorship/ Partnership/ Private Limited/ Public Limited
3	Name and designation of the representative of the Bidder to whom all reference shall be made to expedite technical co-ordination.	
4	Entrepreneur Memorandum Part 2 registration with DIC/ NSIC registration no./ CSPO registration no./ DGS&D registration no.	
5.	Factory Address	
6a.	Factory Telephone/Fax no.	
6b.	Factory e-mail address	
6c.	Floor area of the factory	
6d.	Manufacturing facilities (a list of machinery be attached as per annexure-VI)	
7	Name and address of the Indian/Foreign collaborator(s) if any.	

(Sign. & Seal of the Bidder)

8	Offer submitted in Technical Collaboration/ Joint Venture with a foreign Company? if yes, give details of such JV.	
9a.	Details of Technical Staff available. (Please furnish information as per Enclosed Annexure II)	
9b.	Details of workmen on muster roll Skilled/ semiskilled/ unskilled (attach copy of muster roll)	
10	Has the company/firm to pay arrear of income tax? If yes up to what amount.	
11	Turnover of company for last 3 years 2007-08, 2008-09, 2009-10 and profit for each year. (with Annual Accounts)	2007-08 Rs. 2008-09 Rs. 2009-10 Rs.
12	Has any Govt. Dept./ Under-taking ever debarred the company/ firm from executing any work?	

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 rejected and our company debarred from executing any business with MGVCL.

Date:

Sign. & Stamp of the Tenderer

(Sign. & Seal of the Bidder)

4.0 INSTRUCTIONS TO THE BIDDER

- A.1** Offer should be submitted complete in all respects with all schedules, documents etc. of the tender document issued by MGVCL.
- A.2** Offers shall be received in MGVCL office up to the date and time as mentioned in the tender form.
- A.3** MGVCL reserves the rights to reject any or all the Offers or accept any Offer in total or in part or may divide the work among various Bidders, without assigning any reason thereof.
- A.4** Tenders should be accompanied with requisite Earnest Money Deposit (EMD). Any Tender not accompanied by Earnest Money Deposit (EMD) shall be disqualified and no further consideration shall be given to such Tender. Tenderers may note that no relaxation in this regard shall be made. **Tenderers having valid registration of Entrepreneur Memorandum Part 2 with DIC for the tendered item AND are having valid registration with CSPO/NSIC/DGS&D will be exempted from depositing the EMD.** NSIC/ Entrepreneur Memorandum Part 2 registration for other than tendered item will not be taken in to consideration and in such case; tenderer will be required to submit requisite EMD with their tender.
- A.5** Earnest Money Deposit (EMD) of unsuccessful bidders shall be returned upon finalization of order. The EMD will be returned to the successful bidder after he furnishes the Security Deposit for performance and duly enters in to the contract. If he fails to furnish the SD or to execute the contract for the work offered to him, his EMD shall be forfeited and the bidder may be disqualified from tendering for further works of MGVCL.
- A.6** If any information provided by the bidder is found to be concealed, suppressed or incorrect at later date or during finalization of the tender or the bidder withdraws their offer during finalization of the tender, the tender shall be liable to be rejected and company shall be debarred from executing any business with MGVCL for the period of 3 years and the EMD of such bidder shall be forfeited.
- A.7** Validity of the offer should be at least up for the period of six months from the date of opening of tender. Without this validity the Offers shall be rejected.
- A.8** Before submission of the Offer, Bidders are required to make themselves fully conversant with the scope of the work, technical requirements and specifications, etc., so that no ambiguity arises on a latter date in this respect.
- A.9** All information in the Offer shall be in English. Information in any other language should be accompanied by its translation in English. Failure to comply with this may disqualify the Bidder.
- A.10** The Offer must contain the name, address of residence and places of business of the person or persons submitting the Offers and should be signed with seal by the Bidder(s) with his/their usual signature(s).

(Sign. & Seal of the Bidder)

- A.11** If the Bidder finds discrepancies in, or omissions from the specifications or other documents or if he is in doubt as to their meaning, he should at once intimate MGVCL and obtain clarification in writing prior to submitting his Offer.
- A.12** Any approach from the Bidder, his representative or his agent to influence the decision on the Offer, officially or otherwise, shall render the Offer liable to be summarily rejected.
- A.13** Offer should be submitted in two separate sealed envelopes as mentioned below :
- A.13.1** First sealed envelope (Part-I) original document duly signed and sealed on every page, details of manufacturing & infrastructure facilities as per the document, Test certificate of Solar Energy Center/ Other Authorised Test Center of MNRE, New Delhi issued on or after April 1, 2007 Technical Specifications and Brochures on the models proposed, Documents in support of Tender Evaluation Criteria, any other documents/papers in support of claims made by the party. It should be super scribed with as ***“Tender for Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic power plant on ANKLAV S/Dn, office building during the year 2010-11”*** and ***“Technical Bid”***. All the papers of Tender documents except Financial Tender, duly signed should be submitted in the first envelope. Requisite Earnest Money Deposit and Tender Document Fee in the form of Demand Draft drawn on a nationalized bank pledged in the name of “Madhya Gujarat Vij Co.Ltd”, payable at Vadodara should be attached with this bid.
- A.13.2** **Second sealed envelope (Part-II)** should contain price only. It should be super scribed with ***“Tender for Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic power plant on ANKLAV S/Dn office building during the year 2010-11”*** and ***“Financial Bid”***. Anything in regard of financial conditions, payment terms, rebate etc. mentioned in Financial Tender shall make the Tender invalid. Therefore, it is in the interest of the Bidder not to write anything extra in part-II except price.
- A.13.3** Both these envelopes should be packed in a envelope super scribed with ***“Tender for Supply, Installation & Commissioning of 7.5 kW grid connect Solar Photovoltaic power plant on ANKLAV S/Dn office building during the year 2010-11”*** and **due date.**
- A.14** The procedure of opening of the Offer shall be as under :

- A.14.1** First envelope (Part-I) bearing super scribed as "Technical Bid" shall be opened on the date and time as mentioned in the tender at MGVCL's office at Vadodara. In unforeseen circumstances, MGVCL may at its discretion change the date and time of opening of the "Technical Bid". Bidders can attend the opening of "Technical Bid", if they so desire.
- A.14.2** Second envelope (Part – II) containing Financial Bid of only those Bidder shall be opened, whose Technical offer consisting of Earnest Money Deposit, features of the system offered, terms & conditions and other supporting information as mentioned in the Tender Evaluation Criteria contained in first envelope are found acceptable and those who are found qualified as per the Tender Evaluation Criteria of this Offer document. The second envelop (part-II) i.e. Financial Bid of only those successful Bidders who's Technical Bids is accepted may be opened on the date and time as decided by the Tender Evaluation Committee (TEC) of MGVCL.
- A.15** Erases and other changes shall be initialed by the person/persons signing the Offer.
- A.16** The Bidder should submit Financial Bid duly signed, on the original price schedule supplied with this Offer document. This price schedule has to be submitted in second envelope (Part-II) super scribed as "Financial Bid".
- A.17** Each page of the Offer document should be signed & stamped by the Bidder as a token of acceptance to terms and conditions mentioned herein.
- A.18** Offers of only those firms or individuals, who are either themselves technically capable and sound for providing such services and who give satisfactory evidence of such experience shall only be considered.
- A.19** The general technical requirements mentioned are mainly for the guidance of the Bidder. These requirements are not intended to preclude ingenuity of designs or other improvements. If the Bidder proposes any deviation from these requirements those shall be considered provided they are necessary either to improve the utility, performance and efficiency or to secure over all economy.
- A.20** The Bidder shall declare the name of the employee of MGVCL and his relationship with him in case any employee of MGVCL is a relative of the Bidder.
- A.21** In the event, the successful Bidder fails to sign the agreement with MGVCL or accept the work order within specified time or withdraws his offer within the validity period or fails to accept the order for any reason whatsoever, then the earnest money deposited by the Bidder shall be forfeited by MGVCL.
- A.22** MGVCL reserves the right to accept any offer based on its merits and MGVCL is not bound to place the order with the bidder having submitted the lowest offer. Thus bidder merely on the ground that their financial offer is lowest, does not necessarily qualify the bidder for receiving the order.

A.23 Only Notarized copies of documents will be submitted in support of claims made by the bidder and party shall bring the original copies of documents for verification by MGVCL officials during opening of the Part-1 Technical Bid.

A.24 MGVCL, at its discretion, may award the work to more than one party.

5.0 GENERAL TERMS AND CONDITIONS

B-1 In this deed of agreement/ Offer, unless the context otherwise requires:-

MGVCL shall mean the Managing Director or his representative of Madhya Gujarat Vij Co.Ltd., with Corporate Office at 3rd floor, S.P Vidyut Bhavan, Race Course Vadodara -390007, and shall include his successors and assignees.

The Bidder shall mean the Bidder/ Associate whose Offer shall be accepted by MGVCL and shall include such Bidders/ Associate heirs, legal representatives, successors and assignees. Associate shall mean the business associate authorized and having valid agreement with Public Sector Enterprise having five years experience in solar energy field with office in the State of Gujarat. The offer shall be considered on behalf of the Public Sector Enterprise and authority letter for submitting the tender shall be furnished. If the Public Sector Enterprise directly participates in the tender, Associate's offer shall not be considered.

B-2 The Bidder shall be deemed to have carefully examined all the papers, drawings, etc. attached in the contract. If he has any doubt as to the meaning of any portion of any condition/ specification, etc. he shall before signing the contract submit the particulars thereof to MGVCL in order that such doubts are removed.

B-3 The work, shall be completed within the completion period as mentioned in the agreement, failing which penalty at the rate of ½ % per week subject to maximum of 10 % of agreement value shall be imposed. This excludes delay in the completion of the work due to unforeseen reasons beyond the control and without fault and negligence of the Bidder including (but not restricted to) act of God or public anomie action of Government in its sovereign capacity, floods, epidemics, strikes, lockouts, fires and accidents. In the event of any of the aforesaid contingencies MGVCL may be promptly kept informed by the Bidder by Fax/Telex/Telegram followed by confirmation in writing with documentary proof within fifteen days of commencement and cessation of Force Majeur circumstances. Under such circumstances reasonable extension of time shall be granted by MGVCL. Application for such extension must be made before the due date of completion of work as per agreement. In the event of termination of the agreement, MGVCL shall be at liberty to get the remaining part of the work done through any other agency/Bidder in the manner and on the terms it thinks proper. If the cost of executing the work as aforesaid shall exceed the balance due to the Bidder, and the Bidder fails to make good the deficiency, MGVCL may recover it from the Bidder in any lawful manner.

B-4 The Bidder shall have to comply with all rules, regulations, laws including labour laws and bylaws enforced by local and Central/State Govt. and also the organisation in whose premises the work has to be done.

B-5 The Bidder shall not, without the consent in writing of MGVCL, transfer, assign or sublet the work under this contract or any substantial part thereof to any other party.

B-6 If the Bidder neglects to execute the work with due diligence and expedition or refuses or neglect to comply with any reasonable orders within two days notice given in writing to the Bidder and if he fails to comply with the notice, then in such a case MGVCL shall be at liberty to get the work or any part of it, executed through any other agency/Bidder in the manner and on the terms it thinks proper. If the cost of executing the work as aforesaid shall exceed the balance due to the Bidder,

(Sign. & Seal of the Bidder)

and the Bidder fails to make good the deficiency, MGVCL may recover it from the Bidder in any lawful manner.

- B-7 MGVCL shall have at all reasonable time access to the works being carried out by the Bidder under this contract. All the works shall be carried out by the Bidder to the satisfaction of MGVCL.
- B-8 Any question, dispute or difference whatsoever arises between MGVCL and Bidder, in connection with this agreement except as to matters, the decision for which has been specifically provided, either party may forthwith give to the other notice in writing of existence of such questions, dispute, difference and the same shall be referred to the sole arbitration of a person nominated by Managing Director, MGVCL. This reference shall be governed by Indian Arbitration Act prevailing at the time of dispute and the rules made there under. The award in such arbitration shall be final and binding on all the parties. Work under the agreement shall continue during the arbitration proceedings unless the MGVCL or the Arbitrator directs otherwise.
- B-9 MGVCL may at any time by notice in writing to the Bidder either stop the work altogether or reduce or cut it down. If the work is stopped altogether, the Bidder shall only be paid for work done and expenses legitimately incurred by him as on preparation of the execution of the work up to the date on which such notice is received by him. Such expenses shall be assessed by MGVCL whose decision shall be final and binding on the Bidder. If the work is cut down the Bidder shall not be paid for the work as so cut down, but in neither case shall be paid any compensation what so ever for the loss or profit which he might have made if he had been allowed to complete all the work included in the contract.
- B-10 Prior to dispatch, the materials may be inspected and tested by MGVCL at the Bidder's works. Bidder shall inform MGVCL for such inspection at least 7 days in advance before the probable date of dispatch.
- B-11 The system supplied or installed shall be guaranteed by the Bidder for a minimum period of **ten years** in regard to quality of material, workmanship, performance, efficiency, installation, etc. Defects developed in the system within guarantee period, shall be rectified by the Bidder at his own expense promptly. In case the defects are not rectified within 2 days of the receipt of the complaint by the Bidder, MGVCL shall have full liberty to remove such defect or undertake such repairs as may be necessary to restore the system in working condition. The expenditure so incurred by MGVCL shall be deducted from Bidder's pending claims, security, etc. and if necessary may be recovered in other mode provided under the law. In the event of failure of the complete system, if necessary, the whole system shall be replaced by the Bidder promptly.
- B-12 Notices, Statements and other communications sent by MGVCL through registered post or telegram or telex or to the Bidder at his specified address shall be deemed to have been delivered to the Bidder.
- B-13 The work shall be carried out by the Bidder with prior approval of MGVCL. Work carried out without MGVCL's approval shall not be accepted and the MGVCL shall have right to reject it and to recover the cost as so incurred, from the Bidder.
- B-14 All equipment/material shall be suitably packed for transport/carriage at site and outdoor storage during transit. The Bidder shall be responsible for any damage to the equipment during transit due to improper or inadequate packing. The cases containing easily damageable material shall be very

(Sign. & Seal of the Bidder)

carefully packed and marked with appropriate caution symbols i.e. 'FRAGILE, HANDLE WITH CARE' etc. The contents of each package shall bear marking that can be readily identified from the package list and packing shall provide complete protection from moisture, termites and mechanical shocks during shipment/transportation to site. Adequate protection must be provided for outdoor storage at site in tropical humid climate, wherever necessary proper arrangement for attaching signs for lifting shall be provided and all packages clearly marked with gross weight, signs showing 'UP' and 'DOWN' sides of boxes, contents of each package, order no. And date, name of the plant/equipments to which the material in the package forms the part of, and any handling and unpacking instructions considered necessary. The Bidder without any extra cost shall supply any material found short inside intact packing case. The Bidder shall ascertain prior to shipment, from concerned authorities, the transport limitations like weight and maximum allowable package size for transportation. All packing cases and packing material shall become the property of the purchaser.

- B-15 The Bidder shall provide one copy of the instruction manual and routine maintenance manual in Gujarati with each item supplied or installed. These manuals should contain all the relevant details and drawings required for proper maintenance of the system supplied or installed.
- B-16 The Bidder shall not display the photograph of the work and shall not take advantage through publicity of the work without written permission of MGVCL.
- B-17 The inspection as mentioned in clause No. B-10 by MGVCL's representative shall not relieve the Bidder from full responsibility of completing the work confirming to the requirement of this contract.
- B-18 Conditional tenders shall not be accepted.

6.0 GUIDELINES & ELIGIBILITY CRITERIA FOR BIDDERS

1. Tender are invited for Supply, Installation of 7.5 kW grid connect Solar Photovoltaic Power Plant on ANKLAV S/Dn office building, during the year 2010-11. The indicative quantities to be supplied, installed and commissioned during the year 2010-11 are as mentioned below :

S.No.	Item	Indicative Quantity, Nos.
1	7.5 kW grid connect Solar PV Power Plant on ANKLAV S/Dn office building with 10 years CMC.	01

The quantity mentioned above is indicative only and it may vary depending on requirements of beneficiary, allocation of funds for the project etc. MGVCL, at its discretion, may increase/decrease the quantity.

2. Only those bidders of solar lighting systems, who manufacture solar PV modules and have adequate facilities for testing of solar PV system would be allowed to supply the systems under the scheme. The bidder should submit the list and pictures of the manufacturing and testing facilities and submit an undertaking that if the details provided by the bidders are in deviation with the provision of the scheme, it will call for disqualification. If considered necessary, a team of MGVCL officials may visit the facilities of the bidders for verification. Companies which are engaged only in assembly of solar lighting systems with above mentioned bought out items will not be eligible for supply of systems under this scheme.
3. It is mandatory for system manufacturers to have valid test report for of Modules and Type Test certificate of respective model of PCU with similar or larger capacity from Government approved laboratory. No order will be placed on bidders, who do not possess valid test reports. Copy of test reports should be submitted by the bidders.
4. The bidder should be profit making company and have supplied solar photovoltaic systems of the values Rs. 25 lacs to any State Nodal Agencies/ Government Departments during the past three financial years and supplies against such work order should have completed satisfactorily as certified by the concerned State Nodal Agencies.
5. The programme implementation guidelines of the MGVCL, as declared from time to time, for SPV programme shall be applicable and followed at all times.
6. The specification of grid connect SPV power plant, for which tenders are invited, is annexed.
7. Bidders should have well established network of service centers through out the state and should have adequately trained staff available at service stations for repair and maintenance of Solar PV Systems.
8. Bidder will ensure that necessary spares are always available with their service centers to provide necessary after sales service to the customers during the warranty period.
9. Fax Letter of Intent (LOI) shall be issued to the successful Bidder indicating the quantity allocated to them and the security deposit amount to be deposited by them with MGVCL. Shortlisted Bidders will be required to deposit the requisite security deposit within one week of issuance of Fax Letter of Intent, failing which the letter of intent will stand as cancelled. The order will be issued to the shortlisted Bidders only after receipt of requisite security deposit.

(Sign. & Seal of the Bidder)

10. Bidders, to whom order is awarded for the year 2010-11, will be required to deposit security deposit of Rs.50,000/- or 10% of total order value awarded to them, whichever is more within seven days of approval of contract. The Security Deposit will be accepted in the form of Demand Draft issued by Nationalized Bank, ICICI Bank, IDBI Bank, UTI Bank, HDFC Bank in favour of Madhya Gujarat Vij Co.Ltd. Payable at Vadodara. The Security Deposit can also be submitted in the form of Bank Guarantee issued by Nationalized Bank, ICICI Bank, IDBI Bank, UTI Bank, HDFC Bank as per MGVCL's format with validity of 180 days. The Security Deposit submitted in the form of Demand Draft will be retained till completion of the work order. No interest will be paid on the Security Deposit. The Earnest Money Deposit of the successful bidders will be retained as security deposit and will form part of the total security deposit required to be deposited by the successful bidder.
11. In the event of awarding the order of additional quantity, the Bidder will be required to deposit additional Security Deposit on prorata basis within one week of the issuance of Fax LOI for the additional order quantity.
12. It is desirable to Install & Commission system on or **before 31st Aug 2010**. To ascertain the manufacturing capabilities of each Bidder, no. of systems that could be supplied, installed and commissioned by the Bidder in the state, every Bidder is required to submit with their Technical offer, information about manufacturing capacity of their factory and no. of systems that could be supplied in the State. In the event of failure to supply no. of systems as committed by the Bidder as per Annexure – A and as accepted by them while receiving the order, will lead to forfeiture of the Security Deposit up to 100% and will lead to disqualification of the Bidder for transacting business with MGVCL for at least two years or the time duration as may be decided by the Managing Director, MGVCL.
13. The Bidder shall arrange to provide to MGVCL, a SPV instruction manual. The Bidder shall also arrange to instruct MGVCL about routine maintenance procedure.
14. Serial Number (identification mark) must be permanently marked on all major components of the SPV systems. Metallic number plates with serial numbers duly riveted or fixed with strong adhesive for non-metallic body, as approved by MGVCL, shall be fixed on charge controller of each lot.
15. The Bidder will offer Solar PV Systems for inspection at their works by MGVCL or its authorized quality inspection agency. Inspection can also be offered at one place in Gujarat (main distributor's place), where equivalent inspection facilities are available.

MGVCL reserves the right to inspect any number of SPV systems, any number of times at the addresses of the beneficiaries given by the Bidder.
16. IDENTIFICATION OF SITE
In consultation with ACE (CC), a pre-feasibility may be made and report may be submitted along with the tender.
17. The payment terms shall be as follows:
 - a. 30 % of total order value shall be paid against supply of PV Panels and its erection on adjustable supports.
 - b. 60 % total order value shall be released to the Tenderer on completion of installation and commissioning of the system. On-site verification/ inspection shall be carried out by MGVCL

(Sign. & Seal of the Bidder)

and/or its authorized inspection agency/ies as per norms of MGVCL. Claim of 60% amount should be accompanied with following necessary documents in duplicate at MGVCL:

- a. Bills
 - b. Installation certificate **duly signed by ACE (CC), MGVCL** showing its installation & commissioning date.
 - c. 10% of the order value against submission of Performance Bank Guarantee (drawn on Nationalised Bank, ICICI Bank, IDBI Bank, UTI Bank and HDFC Bank as per the prescribed format of MGVCL) of equivalent amount, valid for a period of **ten years** from the date of Installation of the system.
 - d. Security Deposit shall be released with the last 10% payment of the order against submission of Performance Bank Guarantee equivalent to 10% of total work order value.
18. MGVCL, at its discretion, may award work to more than one Bidder and will decide the quantity to be allocated to them. Decision of MGVCL in this matter, will be binding to all the Bidders.
19. In case of any type of misappropriations, cheating or intention of cheating, frauds, irregularities, malpractice, etc. the Managing Director MGVCL reserves the right to cancel the order without giving reasons thereof and forfeit the security deposit.
20. Rates quoted by the Bidder will be inclusive of taxes, levies, duties, packing, forwarding, freight, insurance, loading unloading, supply, installation, commissioning, and any/ all charges for successful Supply & Installation of the system at any locations in the State of Gujarat and all expenses of marketing, commissions etc
21. The rates quoted by the Bidder will be inclusive of Service Tax, Work Contract Tax, VAT or any other taxes applicable for such work. Any escalation in such taxes/ levies during the tenure of the contract/order will not be paid by MGVCL and Bidders are advised to take in to consideration any such escalations in the prevailing taxes/levies/duties.
22. During site inspection by MGVCL staff/ authorized representative, if the systems are found uninstalled and false report of installation & commissioning is submitted to MGVCL for claiming payment, Director, MGVCL is empowered to forfeit Security Deposit up to 100%.
23. **Bidders are also required to quote rates inclusive of Comprehensive Maintenance Contract (CMC) for the period of ten years for the system.** The rates quoted should be inclusive of charges for providing routine maintenance services at the beneficiary's end and to ensure smooth and satisfactory performance of the system. Replacement of any components of the system if required during the CMC period is included in the scope of work of CMC. As per the **Annexure-V** format quarterly report should be prepared and submitted to MGVCL after providing necessary services.
24. **The NOC/ permission with local utility for connecting the SPV power plant in parallel to grid have to be obtained by the bidder.**
25. **Third Party Inspection shall be mandatory by the agency authorized by MGVCL**

7.0 TENDER EVALUATION CRITERIA

Offers of only those parties who are found qualifying based of following Tender Evaluation Criteria will be taken in to further consideration and prices of only those parties qualifying based of these criterion will be opened.

COMMERCIAL

- 1) Earnest Money Deposit and Tender Document Fee in the prescribed form should be submitted along with the tender.
- 2) The company should have a turnover of Rs. 50 lacs in past three years as per clause no. 4 of Chapter no.6.

TECHNICAL

- 1) Only those bidders of solar lighting systems, who manufacture solar PV modules and have adequate facilities for testing of solar PV system would be allowed to supply the systems under the scheme. The bidder should submit the list and pictures of the manufacturing and testing facilities and submit an undertaking that if the details provided by the bidders are in deviation with the provision of the scheme, it will call for disqualification. If considered necessary, a team of MGVCL official may visit the facilities of the bidders for verification. Companies which are engaged only in assembly of solar lighting systems with above mentioned bought out items will not be eligible for supply of systems under this scheme.
- 2) Test certificates submitted by the bidder should be in accordance with the clause no. 2,3,4,5 & 7 of Chapter No.6, pertaining to Guidelines and eligibility criteria for bidders of the tender.
- 3) Offers received from only those parties having adequate infrastructure to manufacture, Market and provide after sales services in the state will be taken in to consideration and offers received from others will be summarily rejected. Documentary evidences in support of the same should be enclosed with the offer. MGVCL may visit manufacturing facilities to ascertain the claims made by the Bidder.
- 4) Details of similar work done in last three years along with copies of the orders and certificates from the user agencies should be submitted along with the Technical Offer as per Annexure – I of the Offer Document.
- 5) The party should have sufficient technically qualified and well-experienced manpower for Manufacturing, Marketing, and Installation and after sales service of the systems. Brief bio-data of the key personnel is enclosed with the offers as per Annexure-II of the Document.

GENERAL

- 1) The party should have declared, if any relatives working with MGVCL in Annexure – III.
- 2) As an acceptance of terms and conditions, the document duly signed and sealed on every page should be submitted. Offers not satisfying any of the above mentioned criteria will be liable for rejection.

8.0 TECHNICAL SPECIFICATIONS

GRID CONNECT SOLAR POWER GENERATING SYSTEM

I DEFINITION

The Grid Connect Solar Power Generating System consists of mainly three components viz. the solar photovoltaic (SPV) array, module mounting structure and the power conditioning unit (PCU)/ inverter. The SPV array converts the solar energy into DC electrical energy. The module mounting structure holds the modules in required position and the DC electrical energy is converted to AC power by the PCU, which is connected to the power grid. The AC power output of the inverter is fed to the AC distribution board through metering panel and isolation panel. The 415 V AC output-3Ø of the system can be utilized or as an option it could be stepped up to the required voltage level and after synchronizing with the grid, can be exported to the grid.

II PV MODULE (S)

- (i) The PV module bidder should have IEC 61215-2nd Edition and IEC 61730-2 qualification certification for PV modules. Copy to be provided with tender.
- (ii) The PV module(s) shall contain crystalline silicon solar cells.
- (iii) The power output of the module (s) under STC should be a minimum of 7500 W. Modules of minimum 170 W output each or above output should be used. Photo / electrical conversion efficiency of SPV module shall be greater than 16%.
- (iv) All materials used shall have a proven history of reliable and stable operation in external applications. It shall perform satisfactorily in relative humidity up to 100% with temperatures between -10 Deg C and +85 Deg C and with stand gust up to 200km/h from back side of the panel. The terminal box on the module should have a provision for opening for replacing the cable, if required.
- (v) A strip containing the following details should be laminated inside the module so as to be clearly visible from the front side.
 - a. Name of the Supplier or distinctive Logo
 - b. Model or Type No.
 - c. Serial No.
 - d. Year of make.

III EARTHING AND SURGE PROTECTIONS

- (i) The array structure of the PV modules shall be grounded properly using adequate numbers of earthing pits. All metal casing/ shielding of the plant shall be thoroughly grounded to ensure safety of the power plant.
- (ii) The SPV power plant shall be provided with lightning & over voltage protection. The source of over voltage can be lightning, atmosphere disturbance etc.

IV MECHANICAL COMPONENTS

- (i) Metallic frame structure of galvanized steel with stands to be fixed on the roof of the building to hold the SPV module (s) one feet above roof level. The frame structure should have provision to adjust its angle of inclination to the horizontal between 0 and 45, so that it can be installed at the

specified tilt angle i.e. inclined at 25 degree to horizontal facing due south. All hardware, nuts, bolts should be cadmium passivated.

V OTHER FEATURES

- (i) The PV module (s) will be warranted for a minimum period of **ten (10)** years from the date of supply and the solar PV power plant will be warranted for a period of **ten (10)** years from the date of supply, commissioning & acceptance by MGVCL.
- (ii) An Operation, Instruction and Maintenance Manual in English and the local language should be provided with the system.
The following minimum details must be provided along with the drawings & circuit diagrams etc in the Manual
 - (a) About Photovoltaic
 - (b) About solar PV system – its components and expected performance.
 - (c) About PV module
 - (d) Clear instructions about mounting of PV module (s)
 - (e) About electronics
 - (f) DO's and DONT's
 - (g) Clear instructions on regular maintenance and trouble shooting of solar power plant.
 - (h) Name and address of the person or service center to be contacted in case of failure or complaint.

VI The details of the **Power Conditioning Unit** are as given below:

PCU rating (NOMINAL)	7.5 kVA / 7.5 KW, 415V VAC, grid interactive output
Purpose	The power conditioner unit shall convert DC produced by SPV array and adjust the voltage & frequency levels to suit the Grid.
Grid supervision	All three phases shall be supervised with respect to rise / fall in programmable threshold values of frequency & the power section of the plant. The plant shall get disconnected / connected from the grid in case of a grid fault / after normal grid conditions have resumed. The grid supervision must comply with VDEW or other relevant/equivalent regulations.
Type & technology	IGBT based. Utilize a circuit topology and components suitable for meeting the specifications.
Output voltage on AC side	415 +10%, - 15% V AC A dedicated isolation transformer housed in the PCU enclosure shall be supplied to match the PCU output voltage to the utility grid voltage.
Output voltage	415 V ,50 Hz AC
Output Frequency	50 + 1.5Hz, - 3.5 Hz
DC system voltage	The electrical safety of the array installation is of the utmost importance. Array electrical configuration shall be in such a way that, the MPPT shall operate with maximum efficiency, between the low and high temperature of the site.
Maximal Current ripple	5% PP

Power Factor	0.95 inductive to 0.95 capacitive
Ambient room temperature	5 to 55 deg C
Housing Cabinet	<p>a) PCU is housed in suitable switch cabinet, with min IP 21 degree of Ingress Protection.</p> <p>b) Weatherproof, rodents & insect proof</p> <p>c) Components and circuit boards mounted inside the enclosures clearly identified with appropriate permanent designations, which shall also serve to identify the items on the supplied drawings.</p> <p>d) All doors, covers, panels and cable exits shall be gasketed or otherwise designed to limit the entry of dust and moisture. All doors shall be equipped with locks. All openings shall be provided with grills or screens with openings no larger than 0.95 cm (about 3/8 inch).</p>

Other important features

<p>Electrical safety Protections</p> <p>a) General</p>	<p>The PCU shall include appropriate self protective and self diagnostic feature to protect itself and the PV array from damage in the event of PCU component failure or from parameters beyond the PCU's safe operating range due to internal or external causes. The self-protective features shall not allow signals from the PCU front panel to cause the PCU to be operated in a manner which may be unsafe or damaging. Faults due to malfunctioning within the PCU, including commutation failure, shall be cleared by the PCU protective devices and not by the existing site utility grid service circuit breaker.</p>
<p>b) Over/under voltage</p>	<p>a) Mains (Grid) over-under voltage and frequency protection.</p> <p>b) Over voltage protection against atmospheric lightning</p> <p>c) Protection against voltage fluctuations in the grid itself and internal faults in the power conditioner, operational errors and switching transients.</p>
<p>c) Fool Proof Protection</p>	<p>Against ISLANDING. Note : MOV type surge arrestors on AC and DC terminals for over voltage protection from lightning-induced surges</p>
<p>d) Accidental open circuit</p>	<p>Full protection against accidental open circuit and reverse polarity at the input.</p>
<p>e) Internal Faults</p>	<p>Inbuilt protection for internal faults including excess temperature, commutation failure, overload and cooling fan failure is obligatory</p>
<p>f) Galvanic Isolation</p>	<p>Galvanic isolation is provided to avoid any DC component being</p>

	<p>injected into the grid and the potential for AC components appearing at the array.</p>
<p>g) Earth Fault Supervision</p>	<p>An integrated earth fault detection device is provided to detect eventual earth fault on DC side and shall send message to the supervisory system</p>
<p>h) Disconnection & Islanding</p>	<p>Disconnection of the PV generator in the event of loss of the main grid supply is achieved by in built protection within the power conditioner. This may be achieved through rate of change of current, phase angle, unbalanced voltages, or reactive load variants.</p> <p>Operation outside the limits of power quality as described in technical data sheet shall cause the power conditioner to disconnect the grid. Additional parameters requiring automatic disconnection are:</p> <ul style="list-style-type: none"> • Neutral voltage displacement • Over current • Earth fault & • Reverse power <p>In each of the above cases, tripping time shall be less than 0.5 seconds. Response time in case of grid failure due to switch off or failure based shutdown should be well within 60 seconds.</p>
<p>i) Automatic reconnection after the Grid failure is resorted.</p>	<p>PCU has facility to reconnect the Inverter automatically to the grid following restoration of grid, subsequent to grid failure condition.</p>
<p>Array Tracking</p>	<p>Included authentic tracking of the solar array's maximum power operation voltage (MPPT)</p>
<p>Array Ground fault</p>	<p>Provided</p>
<p>Operator interface</p>	<p>LCD and keypad operator interface, Menu driven.</p>
<p>Fault conditions</p>	<p>Automatic fault conditions reset for all parameters like vdtage, frequency and /or black out.</p>
<p>Control Logic Failure detection</p>	<p>Via watch dog timers.</p>
<p>Parameter access</p>	<p>All parameters accessible through an industry standard communication link.</p>
<p>DC-AC conversion efficiency</p>	<p>93% for output ranging from 20% to full load Idling current at no load shall not exceed 2% of the full load current.</p>
<p>DC isolation</p>	<p>Provided at the output by means of a suitable isolating transformer</p>
<p>Parallel operation with Grid</p>	<p>Provided & capable of interrupting line-to-line fault currents and line to ground fault currents.</p>

Unbalanced output load	PCU is able to withstand an unbalanced output load to the extent of 30%.
Shut down / Standby mode	<p>Shut down / standby mode with its contact open under the following conditions before attempting an automatic restart after an appropriate time delay; in sufficient solar power output.</p> <p>a) Insufficient solar power input : When the power available from the PV array is insufficient to supply the losses of the PCU, the PCU shall go to a standby/shutdown mode. The PCU control shall prevent excessive cycling during rightly shut down or extended periods of insufficient solar radiation.</p> <p>b) Utility -Grid over or under voltage : The PCU shall restart after an over or under voltage shutdown when the utility grid voltage has returned to within limits for a minimum of two minutes.</p> <p>c) Utility-Grid over or under frequency_ : The PCU shall restart after an over or under frequency shutdown when the utility grid voltage has returned to the within limits for minimum of two minutes.</p>
PCU generated harmonics	Shall not exceed a total harmonic current distortion of 5%, a single frequency current distortion of 3%, and single frequency current distortion of 1%, when the first through the fiftieth integer harmonics of 50Hz are considered.
Circuit separation	High voltage & power circuits separated from low voltage & control circuits.
Internal wiring	Standard Cu wiring, with flame resistant insulation .
Cabling practice	<p>a) Cables :PVC Cu cables as per relevant international Standards)</p> <p>b) Cable connections : suitable terminations</p> <p>c) PVC channel with covers to house the cables.</p>
High voltage test	PCU with stand high voltage test of 2000 Vrms between either the input or the output terminals and the cabinet (chassis).
EMI (Electromagnetic interface)	PCU shall not produce EMI which cause malfunctioning of electronic & electrical instruments including communication equipments which are located within the facility in which the PCU is housed.
Display on front panel & indicators	<p>a) instantaneous PCU ac power output and the DC voltage current and power input</p> <p>b) Accuracy of display : 3% of full scale factor or better</p> <p>c) Display visible from outside the PCU enclosure.</p> <p>d) Operational status of the PCU, alarms, trouble indicators and AC and DC disconnect switch positions shall also be communicated by appropriate messages or indicator lights on the front cover of the PCU enclosure.</p>
Emergency OFF	Emergency OFF button is located at an appropriate position on the unit

Grounding	PCU includes ground lugs for equipment and PV array groundings. The DC circuit ground is a solid single point ground connection.
Exposed surfaces	Exposed surfaces of ferrous parts are thoroughly cleaned, primed, and painted and suitably protected to survive a nominal 30 years design life of the unit.
Factory Testing	<p>a) Tested to demonstrate operation of its control system and the ability to be automatically synchronized and connected in parallel with a utility service, prior to its shipment.</p> <p>b) Operation of all controls, protective and instrumentation circuits demonstrated by direct test if feasible or by simulation operation conditions for all parameters that can not be directly tested.</p> <p>c) Demonstration of utility service interface protection circuits and functions, including calibration and functional trip tests of faults and isolation protection equipment.</p> <p>d) Operation of start up , disconnect and shutdown controls also to be tested and demonstrated, stable operation of the PCU and response to control signals shall also be tested and demonstrated.</p> <p>e) Factory testing include measurement of phase Currents, efficiencies, harmonic content and power factor. All tests shall be performed 25, 50, 75 and 100% of the rated nominal power.</p> <p>f) Factory test report (FTR) : Should be supplied with the unit after all tests. The FTR shall include detailed description of all parameters tested qualified and warranted.</p>
Operating Modes	<p>a) Night or sleep mode : where the Inverter is almost completely turned off, with just the timer and control system still in operation, losses < 2 W per 5 kW</p> <p>b) Standby mode: where the control system continuously monitors the output of the solar generator until pre-set value is exceeded (typically 10 W).</p> <p>Operational of MPP tracking mode: the control system continuously adjust the voltage of the generator to optimize the power available. The power conditioner shall automatically re-enter standby mode input power reduces below the standby mode threshold. Front panel display providing the status of the PCU, including AC power output & DC current voltage and power input, and unit fault indication.</p>
Codes & Standards	<p>The quality of equipment supplied shall be controlled to meet the guidelines for engineering design included in the standards and codes listed in the relevant ISI and other standards, such as :</p> <p>a) IEEE 928: Recommended Criteria for terrestrial PV power systems.</p> <p>b) IEEE 929 Recommended practice for utility interface of</p>

	<p>residential and intermediate PV systems.</p> <p>c) IEEE 519 Guide for harmonic control and reactive compensation of Static Power Controllers.</p> <p>d) National Electrical NFPA 70-1990 (USA) or equipment national standard.</p> <p>e) National Electrical Safety Code ANSI C2 (USA) or equipment national standard.</p>
Inverter / Array Size ratio	<p>The ratio of the Inverter continuous power rating and the array peak power rating shall be between 80 to 90% or any other value found suitable. This is because better overall annual yield can be obtained by allowing the Inverter to operate for longer periods closer to optimal efficiency. Inverter efficiency should exceed 90% except when operating at less than 10% of maximum output.</p>
MPPT	<p>Maximum power point tracker is integrated in the power conditioner unit to maximize energy drawn from the array. The MPPT shall be micro processor based to minimize power losses. The MPPT shall have provision (manual setting) for constant voltage operation.</p>
Metering	<p>a) PV array energy production: Meter to log the actual amount of AC energy generated / consumed by the PV system shall have to be provided.</p> <p>b) Solar irradiance : An integrating pyranometer (Class II or better) to be provided, with the sensor mounted in the plane of the array. Readout shall be integrated with data logging,</p>
Data Logging System	<p>a) All major parameters available on the digital bus and logging facility for energy auditing through the internal microprocessor and can be read on the digital front panel at any time the current values, previous values for up to a month and the average values. The following parameters shall be accessible via the operating interface display :</p> <ul style="list-style-type: none"> AC voltage AC output current Output power DC input voltage DC input current Time active Time disabled Time Idle temperatures (C) Converter status <p>Protective function limits (VZ-AC over voltage, AC under voltage, Over frequency, under frequency, ground fault, PV starting voltage, PV stopping voltage, over voltage delay, under voltage delay over frequency, ground fault delay, PV starting delay, PV stopping delay.</p>

CABLES & ACCESSORIES

All the cables which shall be supplied shall be conforming to IS 1554 / 694 Part 1 of 1988 & shall be of 650 V/ 1.1 kV grade as per requirement. Only PVC copper cables shall be used. The size of the cables between array interconnections, array to junction boxes, junction boxes to PCU etc shall be so selected to keep the voltage drop and losses to the minimum.

CONTROL ROOM

The required control room shall be constructed at additional cost if required.

SPARE PARTS

Essential spares for the system shall be provided free of cost by the supplier and replaced if required during the CMC period. Spares support shall be made available for at least 10 years.

DOCUMENTATION

Two sets of installation manual / user manual shall be supplied along with the each power plant. The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc. Step by step maintenance and trouble shooting procedures shall be given in the manuals.

BILL OF MATERIAL

The bidder should provide the bill of material for 7.5 kW grid connect SPV power plant mentioning the quantity of each of the item consisting in the system, along with the offer.

Appendix I

FORMAT FOR WARRANTY CARD TO BE SUPPLIED WITH EACH SOLAR PV SYSTEM

1. Name & Address of
The Bidder/Bidder of the System
2. Name & Address of Purchasing Agency
3. Date of supply of the system
4. Details of PV Module (s) supplied in the
System Make (Name of the Bidder)
Model
Serial No(s)
Wattage of the PV Module (s) under STC
Warranty valid up to
5. Details of Battery: Not Applicable
System Make (Name of the Bidder)
Model
Batch/Serial No(s)
Rated V & AH capacity at C/20 or C/10 rate at 20 C
Warranty valid up to
6. Details of Electronics & other BOS items.
System Make (Name of the Bidder)
Model
Serial No(s)
Warranty valid up to
7. Designation & Address of the person to be
Contacted for claiming Warranty obligations.

(Signature)
Name & Designation
Name & Address of the Bidder/bidder
(SEAL)

Place & Date:

(During the warranty period State Agencies/users reserves the right to cross check the performance of the systems with the minimum performance levels specified in the specifications).

(Sign. & Seal of the Bidder)

Annexure - A

9.0 MANUFACTURING CAPACITY
(To be completely filled by the tenderer)

Name of the Bidder	
Address of the Manufacturing Facility	

Sr. No.	Item	Manufacturing capacity of SPV modules per month	No. of systems committed to be supplied, installed and commissioned in the State before June 30, 2010
1	7.5 kW grid connect Solar PV power plants with 10 years CMC.		

**Signature of the Authorised Signatory and
Seal of the company:**

(Sign. & Seal of the Bidder)

Annexure – I

10.0 Details of similar work experience in last three years

(To be completely filled by the tenderer)

Sr. No.	Name of the Company with full address, phone, fax and name of contact person	Work Description	Ref. & date of the order	Work Order Value	Details of order & its configuration

- Copies of MAJOR Work orders along with Work completion certificates should be attached with this information.
 - If necessary, separate sheet may be used to submit the information.

(Sign. & Seal of the Bidder)

Annexure - II

11.0 Details of Technical staff available with the company for execution of work

(To be completely filled by the tenderer)

Sr. No.	Name	Qualification	Additional Certification, if any	Total Experience, no. of years	Remarks

- Copies of Resumes and appropriate certifications should be attached with this information.
- If necessary, separate sheet may be used to submit the information.

(Sign. & Seal of the Bidder)

ANNEXURE – III

DECLARATION

(Strike off whichever is not applicable)

This is to declare that Mr/Ms. _____, employee of MGVCL at
_____ (place), is related to our _____
_____ (designation & name).

OR

This is to declare that none of the Proprietors/ Partners/ Directors are having any relatives employed or working with Madhya Gujarat Vij Co.Ltd. at any of its offices or its parent Department i.e. Energy & Petrochemicals Dept., Govt. of Gujarat.

Date :

Sign. & Stamp of the Tenderer

(Sign. & Seal of the Bidder)

Annexure - IV

DEVIATION SHEET

Any deviations offered from the terms and conditions of the Offer should be clearly specified below in this sheet. If there are no deviations offered, it should be clearly mentioned on this page.

Deviation offered to Chapter No, Clause No. of the tender document	Deviation offered

(Sign. & Seal of the Bidder)

Annexure - V

QUARTERLY MAINTENANCE & SERVICING REPORT

1. DETAILS OF SOLAR PHOTOVOLTAIC SYSTEM INSTALLED

1. Supplied by :
2. Date of installation :
3. Servicing period: From to

2. USER PROFILE

1. Name and address of User:

3. TECHNICAL DETAILS

1. Module Capacity, make and serial number :
2. Battery Capacity, make and serial number : N/A
3. DC fan make and serial number : N/A

4. CHECK OF THE PRODUCT

1. Correct inclination and orientation of SPV panel :
2. Cleaning of dust from SPV panel :
3. Interconnection of modules, charge controller, battery etc.:
4. Fuse of charge controller, PCU:
5. PCU Reading of power generation:

5. DIFFICULTIES IN OPERATION/ PROBLEM FACED BY USER:

6. DIAGNOSIS DETAILS/ REPAIR ACTION:

7. DATE ON WHICH SYSTEM WAS LAST ATTENDED:

8. REMARKS:

User Name & Signature
Date:

Technician's Name & Signature
(with rubber stamp)

Annexure – VI

List of Plant and Machinery
(To be completely filled by the tenderer)

For manufacturing of Solar PV panels

S. No.	Name of equipment	Date of purchase	Date of calibration	Utility

(Sign. & Seal of the Bidder)

PART - II

FINANCIAL BID

- Rates quoted by tenderer will be FOR destination prices inclusive of taxes, levies, duties, packing, forwarding, freight, insurance, loading unloading, supply, installation, commissioning, and any/ all charges for successful Supply & Installation of the systems at any locations in the State of Gujarat
- The rates quoted by the tenderer will be inclusive of Service Tax, Work Contract Tax, VAT or any other taxes applicable to such work. Any escalation in such taxes/ levies during the tenure of the contract/ order will not be paid by MGVCL and tenderers are advised to take in to consideration any such escalations in the prevailing taxes/levies/duties.
- In no circumstances, escalation in the prices will be entertained.
- Your rates are submitted as per the enclosed proforma of schedule of rates.

SCHEDULE OF RATES

Name and address of Bidder	
-----------------------------------	--

S.No.	Item	End cost of system without CMC	End cost of system with 10 years of CMC
		(in Rs)	(in Rs)
1	7.5 kW grids connect Solar PV power plant on ANKLAV S/Dn office building with 10 years CMC.		

Unit rates for spare parts

S. No.	Part	Unit	Rate
1	Solar PV Module – 170 Wp or as applicable	No	
2	Solar PCU capacity 7.5 Kva	No	
3	Cost of all mechanical components, cables & accessories	Set	
4	Cost of spares	LS	
5	Annual charges towards C M C	Per Year	

**Signature of the Authorized Signatory
and Seal of the company:**

(Sign. & Seal of the Bidder)