

Paschim Gujarat Vij Company Ltd.

Amendment -2

EOI No:- PGVCL/DSM/EOI/Ag. Solarization /2018-19/01

Following amendment is issued in the Empanelment of Agencies for Design, Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for 7 years of Distributed Grid-connected Solar PV plants of Capacity 5 kW (AC) to 150 kW (AC) for providing of Solar PV System to Agricultural Consumers on various Agriculture Feeders within the jurisdiction of DGVCL, MGVCL, UGVCL and PGVCL.

The Amendments in Eoi as under.

Sr. No .	Eoi document part	Clause & Page No.	Particulars of EOI Clauses	Amendment (modified /added/replaced) clauses
1	PART-F	Cl No. 61.(B). (I) iii	Interested agency to have installed and commissioned at least 20 MW of PV systems with successful operation for more than 1 year.	“Interested agency to have installed and commissioned at least aggregate 5 MW of PV systems before the EOI submission date.
2	PART-F	Cl No. 61.(B). (I) iv	Average turnover of the interested agency during last 3 financial years to be Rs. 30 crore/ year .	Average turnover of the interested agency during last 3 financial years to be Rs. 7.5 crore/ year. Parent Company: Eligibility criteria of parent company of the bidder shall also be considered for bidder’s eligibility criteria if the parent company is holding minimum 26% share in the bidding company. Documentary evidence shall be submitted along with the bid.
3	PART-F	Cl No. 61.(B). (I) vii	The EOI applicant shall have to submit the agreement/ MOU with the Solar PV module manufacture in case the EOI applicant is not a SPV module manufacturer	Agreement/ MOU with the Solar PV module manufacture is not required to be submitted with EOI offer submission but, the empanelled agency shall have to submit the agreement/ MOU with the Solar PV module manufacture along with the DPR submission in case the agency is not a SPV module manufacturer.
4	PART-F	Cl No. 61.(B). (I) v	EOI applicant should have Certified copy of valid test certificate of Solar Photovoltaic Module confirming Technical requirements as per part-G, to be submitted in the technical offer.	The test certificate of SPV Module is not required to be submitted with EOI offer submission but, The empanelled agency shall have to submit the Certified copy of valid test certificate of Solar

				Photovoltaic Module confirming Technical requirements as per part-G , along with the DPR submission.
5	PART-F AND PART-G	New Cl No. Add as Cl.No. 15 (c)	Cl No. 15(c)	<p>Cl. 4.2 from Scope of Work and Technical Specifications part is deleted and add in Cl. No.15 (c as under:</p> <p>Generation Guarantee</p> <p>15.(c)-1 The Bidder shall provide a minimum generation guarantee corresponding to a capacity utilization factor (CUF) of 18.3% (the "Guaranteed CUF") with respect to the AC capacity of the PV system. 18.3% CUF will be evaluated on 90% of feeder availability irrespective of actual availability. If the feeder availability is less than 90%, the agency shall not be penalized due to non-availability of the feeder.</p> <p>15.(c)-2 This Guaranteed CUF shall be calculated on an annual-basis and shall be verified by the DisCom/ GUVNL at the end of each year during the 7 (seven) year guarantee period.</p> <p>15.(c)-3 1% Degradation in Guaranteed CUF every year- on -year bases for 7 year will be considered.</p> <p>15.(c)-4 In case of energy generation corresponding to the average of surrounding 10 such locations is less or less than the Guaranteed CUF, whichever is higher, the DisCom/ GUVNL shall recover an amount at the rate of Rs. 7.00 +Applicable GST per kWh from the Empanelled Agency for such shortfall at the end of the contract year to compensate the same to the Agriculture Consumer.</p>

				<p>15.(c)-5</p> <p>It is clarified that the penalty for loss in generation shall not be duplicated with the penalty for delay in rectification of fault beyond 48 hours of complaint.</p>
6	PART-F	CI No. 51	Add Paragraph	<p>In CI No 51</p> <p>Following paragraph is added</p> <p>DISCOM, in consultation with the Government department, will assist and facilitate the empanelled agency to form a group/society of consumers for energy accounting purpose. A common agreement shall be signed by all members of the group/society on a non-judicial stamp paper of Rs. 100/- . A common draft of agreement shall be provided by DISCOM.</p>
7	PART-F	CI No. 55 B	<p>Insurance for Seven Years</p> <p>The empanelled Agency has to take the insurance for the whole Solar PV systems with inverter supplied and installed by them as per the Solarization part well as the metering system supplied by third party for the risk covering, theft, damage, fire and damage or loss due to natural calamities for seven years from the date of commissioning of the last system of the project.</p> <p>The Empanelled Agency shall file insurance claim and shall be responsible to bring an insurance claim to a final settlement. And in such cases the Empanelled Agency has to restore the whole Solar PV system with inverter in working condition within 3 (Three) days without waiting for settlement of insurance claim. Insurance coverage for 5(five) years is compulsory.</p>	<p>The para is replaced as under</p> <p>The empanelled Agency has to take insurance for freight, transit, storage, accident theft, damage etc. up to commissioning of whole system. The insurance of the system after its commissioning shall be taken by GoG/DISCOMs. However, the empanelled agency shall be responsible for immediate replacement/rectification in case of theft, damage, fire and damage or loss due to natural calamities for seven years from the date of commissioning of the last system of the project within time frame to maintain the guaranteed generation. In such cases the payments towards replacement / rectification as covered above shall be paid to the Empanelled</p>

			The Empanelled Agency has to submit the Insurance Policy covering risks as mentioned above for the period of five years to PGVCL immediately after commissioning of the project, failing which, the payment towards installation and commissioning part and SD will not be released until production of the insurance.	Agency after receiving amount of claim from the Insurance Company.
8	PART-G	Technical specification	Inclusion of energy efficient pump sets with controller	Inclusion of energy efficient pump sets with controller Additional Technical specification of the Motor-pump set with controller is added and mentioned at last of this amendment.
9	PART-C	<u>Part-C-(3B)(6)</u>	Additional point: <u>PERFORMANCE GUARANTEE TOWARDS SUPPLY (SECURITY DEPOSIT):</u> The successful Agency will be required to pay an amount equivalent to 10% of the value of the order. Please refer clause no.: 48 of General and commercial terms and conditions of EOI Document.	Security The successful Agency will be required to pay an amount equivalent to 2% of the value of the order. Please refer clause no.: 48 of General and commercial terms and conditions of EOI Document.
10	PART-F	<u>Part-F</u>	Additional point: <u>GENERAL AND COMMERCIAL TERMS AND CONDITIONS</u> Security Deposit will be returned on successful completion of the installation and commissioning of all the ordered systems and only after the Performance Bank Guarantee 10 % of the order value is furnished.	Security Deposit will be returned on successful completion of the installation and commissioning of all the ordered systems and only after the Performance Bank Guarantee 2 % of the order value is furnished.
11	PART-F	Part F. Cl No 4. Paragraph :1	PRICE EVALUATION and Selection of agencies for Empanelment: All EOI offers will be evaluated on price <u>Rate(Rs.)per KWp</u> basis of supply, installation, testing and commissioning grid connected SPV System with all components, BOS, Insurance &CMC of 7 years with loading	Part F Cl No.4 Paragraph : 1 is replaced as under: All EOI offers will be evaluated on price <u>Rate(Rs.)per KWp</u> basis of supply, installation, testing and commissioning grid connected SPV System with all components, BOS, Insurance & CMC of 7 years with loading GST separately as per Part

			GST separately as per schedule 'B' i.e. price bid : the parties however will have to give the detailed break-up of the end cost as per price offer.	I of schedule 'B' considering weighted sum of all individual capacities of solar PV systems as mentioned in the on line price bid.
12	(EOI)		On line Price Bid	<u>Online price-bid is revised.</u> (The online Price Bid has been revised. Hence, all bidders who have already submitted Price bid for this EOI have to resubmit revised online Price Bid.)
13	PART-F	Cl No 6,I	In cl no 6,I last paragraph : Empanelled agency may be allotted up to 10 no of feeders or as may be decided by competent authority. Over all completion period shall not be more than 9 Months form the date of handing over the list of feeders.	In cl no 6, I last paragraph is replaced as under. Empanelled agency may be allotted at a time 5 Nos of Feeders which may be extended up to Maximum 10 no of feeders or as may be decided by competent authority.
14	PART-C	Part C CL No 12(b)	The letter for Award of Empanelment will be issued by PGVCL upon payment of the registration fee Rs. 5 (five) Lac (payment of balance of fee after converting EMD in to the registration fee with consent letter) and executing the agreement.	The letter for Award of Empanelment will be issued by PGVCL/concern DISCOM upon payment of the registration fee Rs. 5 (five) Lac (including applicable GST) (payment of balance of fee after converting EMD in to the registration fee with consent letter) and executing the agreement.
15	PART-B	PART B 1.	<u>PART-B- Important nstruction to Agency</u> <u>1. Earnest Money Deposit (EMD:</u> Paragraph no 3 The Micro and Small Scale Industrial (manufacturing) Units registered under Small Scale Industries of Gujarat State and holding subsequent registration with CSPO / NSIC / DGS&D, Registration Certificates for the item under EOI Document will be eligible for exemption from payment of EMD on submission of duly notarized	<u>PART-B- Important nstruction to Agency</u> 1. Earnest Money Deposit (EMD) Paragraph no 3. is replaced as under The Micro and Small Scale Industrial (manufacturing) Units registered under Small Scale Industries of Gujarat State and holding subsequent registration with CSPO / NSIC / DGS&D, Registration Certificates for solar modules or solar inverters will be eligible for exemption from payment of EMD on submission of duly

			<p>copies of their SSI (SSI/ MSME Part-II/Udyog Aadhaar Memorandum) & CSPO/ NSIC/DGS&D Registration Certificates in EMD Cover. This benefit of exemption will not be admissible if they take part in the EOI Document indirectly either through their dealers, agents, distributors or other inter mediators.</p> <p>Paragraph no 5</p> <p>The “SSI” (SSI/MSME Part-II/ UdyogAdhar Memorandum) & NSIC/CSPO/DGS&D certificate should indicate the manufacture of item/s offered under this EOI Document. In case of UdyogAadhaar Memorandum, it should indicate the manufacture of related group of item. Provisional Registration Certificates are NOT allowed.</p> <p>Paragraph no 7 add</p> <p>Micro, Small & Medium Enterprises unit of Gujarat or outside Gujarat of India should submit the Notarized copy of either certificate/acknowledgement of entrepreneur Memorandum of DIC /SSI Part-II/MSME Part-II/Udhyog Aadhar Memorandum/valid NSIC/CSPO/DGS&D certificate indicating MICRO AND SSI category of the firm/Udhyog Aadhar Memorandum, in physical form in “EMD Cover Documents” for the benefit of Payment of EMD at Lower value.</p> <p>Note: The offer will be rejected out rightly; if above mandatory documents are not submitted in physical form.</p>	<p>notarized copies of their SSI (SSI/ MSME Part-II/Udyog Aadhaar Memorandum) & CSPO/ NSIC/DGS&D Registration Certificates in EMD Cover. This benefit of exemption will not be admissible if they take part in the EOI Document indirectly either through their dealers, agents, distributors or other inter mediators. Such industries shall require to submit the document of the brand name, Technical specification and Its manufacturing capacity of the items registered (Solar modules/ Solar invertor) in above certificate for verification.</p> <p>Paragraph no 5</p> <p>The “SSI” (SSI/MSME Part-II/ UdyogAdhar Memorandum) & NSIC/CSPO/DGS&D certificate should indicate the manufacture of Solar modules or Solar inverters. In case of Udyog Aadhaar Memorandum, it should indicate the manufacture of related group of item. Provisional Registration Certificates are NOT allowed.</p> <p>Following paragraph-7 is added as under.</p> <p>Micro, Small & Medium Enterprises unit of Gujarat or outside Gujarat of India should submit the Notarized copy of either certificate/acknowledgement of entrepreneur Memorandum of DIC /SSI Part-II/MSME Part-II/Udhyog Aadhar Memorandum/valid NSIC/CSPO/DGS&D certificate indicating MICRO AND SSI category of the firm/Udhyog Aadhar Memorandum, in physical</p>
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				<p>form in “EMD Cover Documents” for the benefit of Payment of EMD at Lower value.</p> <p>Note: The offer will be rejected out rightly; if above mandatory documents are not submitted in physical form.</p>
16	PART-F	CI No.46 (d)	<p>The Empanelled Agency shall provide prompt service to the Agriculture Consumer in times of fault of breakdown of the PV system. Any complaint received from the Agriculture Consumer/ Cooperative Society/ DISCOM shall be rectified by the Empanelled Agency within 48 (forty eight) hours of such complaint. The Empanelled Agency shall be liable for loss of generation from the PV system arising from persisting fault beyond the 48-hour period and shall compensate the Agriculture Consumer at the rate of Rs. 7.00 per kWh of generation loss beyond the 48-hour period. The loss in generation shall be decided on an hourly-basis based on the average generation of surrounding 10 such generating solar plants or nearby weather station.</p>	<p>The Empanelled Agency shall provide prompt service to the Agriculture Consumer in times of fault of breakdown of the PV system. Any complaint received from the Agriculture Consumer/ Cooperative Society/ DISCOM shall be rectified by the Empanelled Agency within 48 (forty eight) hours of such complaint. The Empanelled Agency shall be liable for loss of generation from the PV system arising from persisting fault beyond the 48-hour period and shall compensate the Agriculture Consumer at the rate of Rs. 7.00 + Applicable GST per kWh of generation loss beyond the 48-hour period. The loss in generation shall be decided on an hourly-basis based on the average generation of surrounding 10 such generating solar plants or nearby weather station.</p>
17	PART-G	CI No. 2.2.6	<p>The Empanelled Agency shall provide prompt service to the Agriculture Consumer in times of fault of breakdown of the PV system. Any complaint received from the Agriculture Consumer/ Cooperative Society/ DisCom shall be rectified by the Empanelled Agency within 48 (forty eight) hours of such complaint. The Empanelled Agency shall be liable for loss of generation from the PV system arising from persisting fault beyond the 48-hour period and shall compensate the Agriculture Consumer at the rate of Rs. 7.00 per kWh of generation loss beyond the 48-hour period. The</p>	<p>The Empanelled Agency shall provide prompt service to the Agriculture Consumer in times of fault of breakdown of the PV system. Any complaint received from the Agriculture Consumer/ Cooperative Society/ DisCom shall be rectified by the Empanelled Agency within 48 (forty eight) hours of such complaint. The Empanelled Agency shall be liable for loss of generation from the PV system arising from persisting fault beyond the 48-hour period and shall compensate the Agriculture Consumer at the rate of Rs. 7.00+ Applicable GST per kWh of generation loss beyond the 48-hour period. The loss in</p>

			loss in generation shall be decided on an hourly-basis based on the performance of nearby generating solar plants or nearby weather station.	generation shall be decided on an hourly-basis based on the performance of nearby generating solar plants or nearby weather station.
18	PART-C	CI No. 47 (e) & Part C 13	CI No 47 (e) Part C <u>NOTE: IMPORTANT (13)</u>	Clarification : Registration fee Rs. 5,00,000/- (Rs. five lakh) is to be considered including Applicable GST
19	PART-G	CI No. 3.2. & (b) &(d)	ICE-61853, ICE-62759	ICE-61853, ICE-62759 not applicable
20	PART-G (Tech. Spec.)	CL No.3.11 .9 & 3.11.10 & 3.9.4	In technical specification for Earthing Addition	Addition are us under : All the earthing required as per technical specification should be maintenance free earthing instead of conventional coal-salt earthing.
21	PART-F	CI No 62.	The selected empanelled agency will be empanelled initially for one year. After completion of this period, the validity of rates may further be extended on the basis of performance of the agency and mutual consent between DISCOM and interested empanelled firms. However, in this case the empanelment may be issued subject to revision of rates at the sole discretion of the PGVCL/GUVNL, if required.	The selected empanelled agency will be empanelled initially for one year. After completion of this period, the validity of empanelment rates may further be extended on the basis of performance of the agency and mutual consent between DISCOM and interested empanelled firms.
22	PART-H	Annexure 3(A) & 3(B)	Annexure 3 (A) & 3 (B)	Annexure 3 (A) & 3 (B) is replaced by Annexure 3. The online Annexure-3A & 3B is replaced by Annexure-3. Hence, all bidders who have already submitted Annexure-3A & 3B have to resubmit revised Annexure-3 online as well as physical mode and it is compulsory for technical eligibility criteria evaluation.
23		For information	Bank detail BG	Name of Bank :- State Bank of India, Branch name & Code :- Gymkhana Brach – 60070 , near Shatri maidan, Rajkot. Bank Account No. 66007422551 IFSC Code :- SBIN0060070

ANNEXURE – 3 (in place of Annexure 3 A & 3B)

Format of the Details for the Technical Experience as per Eligibility Criteria

(To be submitted in Online and Physical mode)

INSTRUCTIONS:

- A. The EOI applicant shall indicate EPC experience of Grid-Connected Solar/Off Grid Photovoltaic projects herein.
- B. The EOI applicant shall duly attach the Letter of Award (LOA)/Work order and the Commissioning Certificate of each EPC Work from the Client/PSU/DISCOM/Nodal agency/any Gov department.
- C. Projects without sufficient documentary evidence for installed & commissioned the Quantity of SPV plant as mentioned in the Eligibility Criteria shall not be considered towards technical evaluation of the EOI applicant.
- D. The EOI applicant shall indicate the technical experience for the projects to meet eligibility condition.

Sr.	Name of Client	Name of Contact person with Phone No	SPV Project Capacity (in MW)	Date of Commissioning (DD/MM/YY)	Page No of Commissioning certificate attached
1.					
2.					
3.					
4.					
5.					
6.					
7.					
	Total				

Note: EOI applicant can add supplementary rows in the table.

Sign & Round Seal of the EOI applicant	Date and place	(Page
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Additional Technical Specification for Motor-Pump set with controller:

Technical Specification for Supply, Installation, Testing, Commissioning and Comprehensive Maintenance for 7 years, freight, duties and insurance up to commissioning of Energy Efficient Pump Set with Controller.

Motor Pump Set (submersible) :

The “Motor Pump Set” should have a various capacities in the following range

Sr.	Capacity of Energy Efficient Pump Set with Controller
1	3 hp
2	Above 3 hp and up to 7.5 hp
3	Above 7.5 hp and up to 17.5 hp
4	Above 17.5 hp and up to 40 hp
5	Above 40 hp and up to 80 hp
6	Above 80 hp and up to 125 hp

- a) The outer body/parts of motor which are in direct contact of water and the pump should also be of stainless steel.
- b) Pumps of those OEMs, who have Solar Pump sets qualified earlier under the MNRE subsidized off-grid solar water pumping system scheme for 3 HP to 10 HP irrespective of any head shall be qualified to quote for this bid up to 100 HP pump-sets.
- c) The DISCOM or it's any authorized third party will inspect and asses the manufacturing capacity as well as manufacturing facilities of original manufacturers of the quoted item like Solar PV module, Solar Pump & Solar Pump controller before the pre-dispatch inspection.
- d) Minimum efficiency of pump-set at duty point shall not be less than 70% irrespective of the rating. The efficiency shall be measured at the manufacturers' work of pump sets or at any third party laboratory. Bidder shall have to submit test report of pump set manufacturer for efficiency measurement along with the bid.
- e) The pumps used for solar application should have a 7 years warranty, so it is essential that the construction of the pump be made using parts which have a much higher durability and do not need replacement or corrode for at least 7 years.
- f) The following details should be marked indelibly on the motor pump set
 - i. Name of the Manufacturer or Distinctive Logo.
 - ii. Model Number.
 - iii. Serial Number.

Controller :-

- a) The controller shall have following components for off-grid operation
- Maximum Power Point Tracker (MPPT)
 - Controls / Protections.
 - Inverter with VFD
 - Interconnect Cables of suitable size,
 - “On-Off” switch and
 - LCD Display showing following parameters:
 - 1) Frequency
 - 2) Voltage,
 - 3) current,
 - 4) Output Watt and
 - 5) Cumulative KWH
- b) The solar pump controller must have following IEC certification.
- IEC 61683 – Efficiency Test at 25%, 50%, 75% & 100% Submersible Pump Load.
 - IEC 60068-2-1 :: Cold Test
 - IEC 60068-2-2 :: Dry Heat Test
 - IEC 60068-2-14 :: Change of Temperature Test
 - IEC 60068-2-30 :: Damp Head Test
 - IEC 60529 :: For IP 54 Protection
- c) The solar pump controller should have energy recording facility with communication as per MNRE’s technical specification of solar water pumping system through RS485.
- d) ELECTRONICS AND PROTECTIONS

Maximum Power Point Tracker (**MPPT**) should be included to optimally use the Solar panel and maximize the water discharge. Inverter could be used, if required, to operate an A.C. Pump. The inverter must have IP 54 protection or must be housed in a cabinet having at least **IP54** protection.

Adequate protections should be incorporated against dry operation of motor pump set, lightning, hails and storms.

Full protection against open circuit, accidental short circuit and reverse polarity should be provided.

ON/OFF SWITCH:- A good reliable switch suitable for DC use is to be provided. Sufficient length of cable should be provided for inter-connection of the PV array, Controller / Inverter and the motor pump set.