

Maharshi Valmiki Sanskrit University

Invitation for Sealed Quotations for supply of off Grid 10KVA Solar System (with Installation)

To

All Interested Bidders/Firms
Only Reputed Branded Firms

Subject: Invitation for quotation for Supply of off Grid 10KVA Solar System (with Installation).

Dear Sir/Madam

You are invited to submit your most competitive sealed quotation for off Grid 10KVA Solar System (with Installation) with below terms and condition.

S.No	Brief description of the items	Required Quantity	Specifications	Rate for each item in Rs.
1.	off Grid 10KVA Solar System (with Installation)	01	See Below Table	

Specifications :-

3Phase MPPT SOLAR PCU 10KVA/120V (16 KW/45A)			
Sr.No.	Testing Parameters		Specification
A	BATTERY MODE		
A.1	No. Load Battery Current (NCL)		< 2.0A
A.2	O/P Voltage at No Load	N-R	230+/-3%
		N-Y	230+/-3%
		N-B	230+/-3%
A.3	O/P Voltage at full Load	N-R	230+/-3%
		N-Y	230+/-3%
		N-B	230+/-3%
A.4	Full Load O/P Current	N-R	23..2+/-0.5A
		N-Y	23..2+/-0.5A
		N-B	23..2+/-0.5A
A.5	Overload Retry		6Times
A.6	Overload Limit each Phase on Load	105%	~105 Sec.
		125%	~20 Sec.
		150%	~15 Sec.
		200%	~5 Sec.
A.7	Output Frequency (Inverter Mode)	N-R	50.0 +/-1 Hz
		N-Y	50.0 +/-1 Hz
		N-B	50.0 +/-1 Hz
A.8	Output Sine Wave (Inverter)	N-R	Sine wave
		N-Y	Sine wave

		N-B	Sine wave
B	MAINS MODE		
B.1	Sine Wave on Output side	N-R	Sine wave
		N-Y	Sine wave
		N-B	Sine wave
B.2	Mains Low Cut	N-R	180+/-5V
		N-Y	180+/-5V
		N-B	180+/-5V
B.3	Recovery	N-R	190+/-5V
		N-Y	190+/-5V
		N-B	190+/-5V
B.4	Mains High Cut	N-R	280+/-5V
		N-Y	280+/-5V
		N-B	280+/-5V
B.5	Recovery	N-R	270+/-5V
		N-Y	270+/-5V
		N-B	270+/-5V
C	Change Over Time		
C.1	Mains to Inverter		<60 msec.
C.2	Inverter to Mains		<10ms
C.3	Total no. of Battery		30 nos.
C.4	Normal Charging Current (Default)		10+/-2A
C.5	Boost Charging Voltage		14.2+/-0.2V/Batt.
C.6	Trickle Charging Voltage		13.7±0.2V/Batt.
C.7	Input/output Phase seq.		R,Y,B (Provided)
C.8	DC current isolation		By Inbuilt Transformer
D	Protections		
D.1	Short Circuit Protection (Battery Mode)		Provided
D.2	Short Circuit (a Mains Mode)		Mains MCB Trip
D.3	Short Circuit Reset		Through ON/OFF Switch & Mains
D.4	Short Circuit , Retry		NO Retry
D.5	Over Temperature Protection With Alarm		Should be OK (90 ± 5 °C)
D.6	Battery Low Buzzer		10.8V +/-0.2V Per Batt.
D.7	Battery Low Cut Condition		10.5V +/-0.2V Per Batt.
D.8	Battery Low Shut Down Reset		Through ON/OFF Switch & Mains & Solar
D.9	Battery Low, Retry		4 Times
D.10	Battery Reverse		DC MCB Trip
D.11	Over Load Protection with Alarm		Provided
D.12	Over Load Shut Down Reset		Through ON/OFF Switch & Mains
D.13	Mains MCB Trip Protection		Provided
D.14	PV Reverse Protection		Provided
E	Solar Charge Controller With Real Time Clock		
E.1	Solar Charge Controller		MPPT CHARGE CONTROLLER (16KW/45A)
E.2	Charge Controller Type		2 INPUT – DUAL CHANNEL INTERLEAVED MPPT

E.3	Max PV input Power	10032 Watt
E.4	Max Solar Input Voltage range (Vmpp)	250 V-350V
E.5	Max Solar DC Input Voltage (Voc)	800 V
E.6	Solar Battery Charging Current (settable)	40 Amps. (default) Settable from 5 to 50 Amps for Battery
Display		
1) Battery Voltage	8) Real Time Clock	
2) Output Voltage (R,Y,B Phase)	9) Power Saving From Solar In Kw/h	
3) Load % at Battery mode (R,Y,B Phase)	10) Multi Colour LCD	
4) Input Voltage (R,Y,B Phase)	11) All Protections Display	
5) Load % at mains mode (R,Y,B Phase)	12) Display Load Sharing from Solar	
6) Mains charging Current	13) Setting Parameter & Battery Equalizing Mode	
7) Solar charging Current		
Logic:	Smart Solar Selection Logic based on built in Real Time Clock.	
	Provision for Charging by Solar Power Only.	
	Provision for setting Critical Parameters of Solar.	
	Ability to provide rated output power directly from solar panels (if solar is available) in addition charges the battery.	
	Intelligently give the priority to solar power and take the balance from Mains.	

Terms & Conditions :-

1. **Quotation Signing:-**

The quotation must be signed by authorized signatory of the bidding firm/company on each page, along with seal of the firm/company, as the case may be.

2. **Conditional Quotation:-**

Conditional Quotation are not acceptable. Hence the supplier is advised neither to alter the specification nor to mention anything on the quotation form, except cost, signature with seal, otherwise quotation will not be considered.

3. **Delivery Destination:**

The quotations should be quoted For MVSU, Kaithal. The transit insurance and freight charges etc, if any, needs to be mentioned separately of the basic/Ex- works price of the quoted item.

4. **Delivery Acceptance:**

The delivery of the material will be handed over the Purchase Branch. However, the goods will be deemed accepted subject to the approval by the inspection committee of MVSU, Kaithal in case of rejection of the consignment, the supplier should immediately remove the consignment from the university premises, failing which it will remain there at the risk and responsibility of the supplier and University will not be responsible for any kind of liability in this regard.

5. **Delivery Period:**

The supply is to be made within 7 days of the date of dispatch of the supply order.

6. **Delivery Period Extension:**

The supply order(s) shall be executed within the time specified in this regard. However, in case of force Major / reasons beyond control of the supplier, he may make a written request to the

Vice Chancellor for grant of extension for delivery period. The written request in this regard should clearly spell out such reason. The Vice Chancellor, if he is satisfied with such reasons and further that he requested extension will not be detrimental to the interests of the University, may grant extension for a reasonable period for delivery of the goods. The supplier would be required to indemnify the University against any loss on account of downfall of the price during the extended period.

7. Penalty for delayed supply:

In the event of the delayed supply, if accepted, the Registrar will be competent to impose penalty @ 1% per day of the purchase order, provided that the entire amount of penalty shall not exceed 10% of the total amount of purchase order. The supply will be deemed to be completed on the day when 100 % supply is handed over to the indenter (in case of supply in installments) and its installation is done. An appeal against these orders shall, however, lie to the Vice Chancellor whose decision shall be final.

8. Rejection of incomplete Quotations:

Incomplete quotations such as unsigned quotations, late submitted quotation, conditional quotation, quotation not confirming to the eligibility criteria and Technical specification or with any vague term such as 'Extra as applicable', will be considered as rejected.

9. Quantity Variation:-

The quantity shall be subject to increase or decrease as the case may be.

10. Taxation:

The bidder/firm have to mention percentage of GST clearly in its quotation.

11. Right to Bid rejection:

The University reserves the right to reject any or all offers at any stage without assigning any reason.

12. Packaging of Consignment:

The material should be packed in a strong case so as to avoid any damage, theft or pilferage in the transit, in which case the responsibility shall be that of the supplier.

13. Warranty:

The onsite warranty should not be less than Panel-25Years, Inverter-2Years & Battery-5Years from the date of successful delivery of items.

14. Payment:

The payment will be made within 30 working days of the successful delivery and its inspection as well as installation, if required.

15. Schedule:

The quotation floating date is 05/03/2023. The sealed quotation should reach in the office of Registrar, Maharishi Valmiki Sanskrit University (Address-Dr. B.R Ambedkar Govt. College, Jagdishpura, Kaithal) or sent on University e-mail registrar@mvsu.ac.in on or before 20/03/2023 up to 05:00 P.M. The quotation will be opened on 21/03/2023 at 12:00 Noon in the presence of the Purchase Committee. Interested bidder/firms and his/her authorized representative's may remain present during opening of quotations. Quotation received after last date shall not be considered.

16. Specification :

In case off any clarification regarding specifications interested firms/bidders may contact to Registrar, MVSU, Kaithal. Before closing date during working hours (09:00 AM to 05:00 PM).

17. Arbitration:

In case of any dispute both the parties will be bounded by the decision of the Vice Chancellor, MVSU, Kaithal.

18. Jurisdiction:

All disputes shall be subject to Kaithal Jurisdiction.



Deputy Registrar

The terms and conditions of Quotation have been read and I/We certify that I/We clearly understand the same and undertake for its compliance.

Place: _____

Dated: _____

Signature of Authorized representative
of the bidding firm/company with seal.
(Affix Rubber Stamp of the firm)

