

**Office of the Executive Engineer
(Procurement Officer-2)
State Project Monitoring Unit
National Hydrology Project, Roorkee- 247667**

QUOTATIONS No. 2/EE/PO-2SPMU/2022-23, dated 28.05.2022

1. Quotations are invited for supply and installation of solar power system equipment & It's accessories in SWIC Building, Roorkee under National Hydrology Project (NHP) for the following goods:-

Brief Description of the Goods	Specifications*	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
20 KW String Inverter	Attached in Annexure-1	1 Pcs	30 days	SWIC, Roorkee	Yes
Solar Panel 335watt		1 Pcs			
Array Junction Box		1 Pcs			
AC distribution Box		1 Pcs			
DC Wiring		1 Set			
M.S Rigid and Flexible Conduit		1 Set			
MC4 Connector		1 Set			

* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 175 Million towards the cost of the National Hydrology Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. Bid Price

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- c) Sales tax in connection with the sale shall be shown separately.
- d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- e) The Prices shall be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Validity of Quotation

Quotation shall remain valid for a period not less than 30 days after the deadline date specified for submission.

6. Evaluation of Quotations

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) are properly signed ; and
- (b) conform to the terms and conditions, and specifications.

The Quotations would be evaluated for the all items together.

Sales tax in connection with sale of goods shall not be taken into account in evaluation.

7. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
8. Payment shall be made immediately after delivery and installation of the goods.
9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
10. Interested bidders are requested to provide their offer latest by 15.00 hours on 13.06.2022.

(Purchaser)

Executive Engineer,
(Procurement Officer-2)
State Project Monitoring Unit,
National Hydrology Project,
Roorkee- 247667
Email: uttarkhandwrd@gmail.com

FORMAT OF QUOTATION *

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1.	20 KW String Inverter		1	Pcs			
2.	Solar Panel 335watt		1	Pcs			
3.	Array Junction Box		1	Pcs			
4.	AC distribution Box		1	Pcs			
5.	DC wiring		1	Pcs			
6.	M.S Rigid and Flexible Conduit		1	Set			
7.	MC4 Connector		1	Set			
	TOTAL						
	Sales Tax						

Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Technical Specification

20 KW STRING INVERTER	
Input (DC)	
Max. DC Power	22.5 KW
Max. DC Voltage	1000 Vdc
MPPT Voltage range	250 V – 950 V
Full load Voltage range	480 V-800 V
Normal DC Voltage	620 Vdc
Min./start DC Voltage	200 V – 250 V
Number of MPP trackers	2
Strings per MPP tracker	2
Max. input current per MPP tracker	21 A
Output (AC)	
Normal AC output power	20 KW
Max.AC output Power	22 KW
Normal AC Voltage	400 V
AC Voltage range	400 Vac \pm 20%
Normal AC grid frequency	50/60 Hz
AC grid frequency range	\pm 5 Hz
Max. output current	32 A
Phase Shift(cos ϕ)	0.8leading-0.8laging
THDI	<3%
AC connection	3W+N+PE/3W+P E
Topology	Transformerless
Efficiency	
Max. efficiency	98.0%
Euro-eta	97.5%
Protection devices	
All-pole fault current monitoring unit	Yes
Ground fault monitoring	Yes
Environment Data	
Operating temperature range	-25°C To +60°C
Noise emission (typical)	\leq 40 dB
Cooling concept	Convection
Protection rating Features	IP65 or better
LCD display	Yes
Interfaces	RS485/Wi-Fi