

LIMITED TENDER

Tender No:
SMR/CE3/VIZ/CP019/2020-21

Date
20.11.2020

Tender due date
10.12.2020 17:30 Hrs

Sub: Procurement of 20Kwp solar Inverter - Reg

The programme director, SAMEER- Centre for Electromagnetic Environmental effects(E3) invites limited tender for **"Procurement of 20Kwp solar Inverter"** as per the details & Technical specification given below for SAMEER Visakhapatnam.

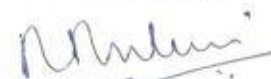
Sl. No	Item Description	Qty.	Unit Rate in INR	Total Amount in INR
01	20Kwp solar Inverter	01 No.		
	Technical specifications			
	Input Side			
	Maximum DC Voltage		1100Volts	
	Start voltage		250Volts	
	Nominal voltage		580V	
	MPPT voltage range		160-1000V	
	Number of MPP trackers		2 nos	
	Number of PV strings per MPP tracker		2 nos	
	Maximum input current per MPPT tracker		25A	
	Maximum short circuit current per MPPT tracker		32A	
	Output side			
	Rated AC output power		20000watts	
	Nominal AC voltage range		340-440V	
	AC grid frequency (Hz)		50Hz	
	Maximum output current		32 A	
	Adjustable power factor		0.8leading - 0.8 lagging	
	THDi		<3%	
	AC grid connection type		3W+N+PE	
	Efficiency			
	Maximum efficiency		98.7%	
	MPPT efficiency		99.9%	
	Device protection			
	DC reverse polarity protection		Required	
	DC switch		Required	
	AC/DC surge protection		Type-II	
	Insulation resistance monitoring		Required	
	AC short circuit protection		Required	
	Ground fault monitoring		Required	
	Grid monitoring		Required	
	Anti-islanding		Required	
	Residual current monitoring unit		Required	

General				
Operating temperature	-25degrees - + 60degrees			
Noise emission	<40dB			
Self-consumption	<1watt			
Topology	Transformer less			
Cooling	Natural Air cooling			
Degree of protection	IP65			
Relative humidity	0-100%			
Altitude	4000m			
DC connection	MC4 Connectors			
AC connection	cable gland			
Display	OLED			
Interfaces	RS485 & USB			
Warranty	7 Years			

Terms and conditions: -

- **Terms of payment: 100% against the supply of delivery and acceptance.**
- Price quoted should be on basis of Ex-factory delivery at SAMEER - CE3, Gambheeram, Anandapuram, Visakhapatnam – 531163.
- Delivery period should be within 2-4 weeks days from the date of work order.
- Demonstration on operation & maintenance should be done in presence of Electrical in charge of SAMEER along with requisite manuals.
- Quotation should be valid for at least 60 days as per tender document.
- Any taxes like GST, etc should be clearly mentioned, if admissible.
- Quotation should be sent in sealed envelope super scribbling the tender reference number and tender due date. YOUR OFFER WILL NOT BE CONSIDERED IF OUR TENDER REFERENCE No. & TENDER DUE DATE IS NOT MENTIONED ON COVER. Also, your offer will not be considered if compliance statement as per Annexure-1 is not filled or not submitted.
- Late Tenders will not be accepted under any circumstances.
- SAMEER will reserve the right to accept or reject any quotations
- For further clarification Please contact 0891-2867611/609
- Email: purchasevizag.sameer@nic.in
- Received Bids will be opened 10:30 Hrs. next working day after due date.

Yours faithfully



(R. Rukmani)
Head - Admin

