



National Center for Biological Sciences

Tata Institute of Fundamental Research

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Ref:NCB/CM18-1159/181713

December 26, 2018

ENQUIRY

Dear Sirs

Please let us have your Quotation for the following:

S.No.	Item Description	Qty	UOM
1	Supply, installation and commissioning of 30KW ONGRID solar inverter including DCDB, ACDB and other necessary accessories as per specification with existing 30kw capacity solar panel, against buyback offer of DB make 30KW(Model Bhaskar PCU 030) Off-grid inverter(Approx 6years old). Prefered make: Powerone and Delta	1.00	NO

1. The quotation shall be submitted in a sealed envelope duly superscribed with the enquiry number, and the due date for Ref No: 181713. The bids should be addressed and to be mailed/couriered (sent by post/courier) to 'THE HEAD-PURCHASE'.

The bids are liable to be rejected if the sealed envelope is not addressed to "THE HEAD-PURCHASE" with Tender Ref No. and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail, it should reach by submission date and time and NCBS will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 17/01/2019 BY 5.30PM.

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The validity of your quotation should be for 60 days from the due date.

5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.

6. Your quotation should indicate delivery period & warranty period.

7. Delivery to be made to our stores. Please indicate charges, if any extra. Transit Insurance should be done upto NCBS Stores.

8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, please state so and then offer alternative to quality/specifications.

9. Payment: within one month after delivery & acceptance/satisfactory installation.

10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.

11. Since we are a public funded research institution, we are exempted from paying Customs duty (Except ad valorem duty of 5% + 2% Cess and 1% Cus Sec & High Edu. CESS vide Notification No.51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices

12. If the item is covered under DGS&D rate contract, please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.

13. Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore. The provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time shall apply. The courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

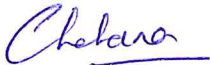
14. TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 47/2017 and 45/2017 dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification.

15. Liquidity Damages: If the equipment/ items as per specifications in our P.O. is not supplied (shipped) within the specified delivery schedule, then liquidated damages (not in terms of penalty) will be imposed automatically and shall be deducted from the bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.

16. Income Tax at the applicable rates as per the Indian Income Tax Act 1961 will be deducted at source for the services availed / ordered. In case of service provider, the rate of tax deduction shall be at 2% as per Section 194C, and in case of fee for professional / technical services under section 194J, the tax reduction shall be at the rate of 10%. In case service provider does not provide PAN number, the deduction shall be at 20% under section 206 AA.

-Tax Deduction Certificates will be provided on request for non PAN holders & Foreign Vendors and PAN holders could avail them through NSDL site dealing with 26AS.

Yours faithfully
For and on behalf of
National Centre for Biological Sciences



Head Purchase

Specification of 30KW ONGRID solar inverter

Sl no:	Input	Requirements	Remarks
1	Minimum dc input power	≥33500W	
2	Maximum dc input voltage	≥950V DC	
3	Nominal DC voltage	≥580V DC	
4	Minimum/ starting DC voltage	250V /270V Dc	
5	MPPT volatage range	260V to ≥950V DC	
6	Min no of MPPT	≥2	
7	Min input current per MPPT	≥32	
8	strings per MPPT tracker	≥1	
	Output		
9	Maximum output power	≥32KW	
10	No of phases/connections	3P+N+PE	
11	Rated output voltage	400V AC	
12	output voltage range	325V-480V	
13	Grid frequency range	50Hz +/- 5Hz	
14	Max output current	≥48	
15	output powerfactor	0.8 leading to 0.8 lagging	
16	Total harmonics current Distortion(THDi)	<3%	
17	Self consumption (night time)	<3W	
18	Standby consumption	<20W	
19	Max Efficiency	≥98%	
20	Dc Breaker	inbuilt	
21	Communication	Rs 486	
22	operating temprature	-20Deg C to +60deg C	
23	Noise level	<67dBA	
	Protecton and Accessories		
24	protection rating	IP66	
25	protections	AC/DC over voltage, short circuit, over load,reverse power, reve se polarity and ground fault, etc...	
26	DCDB box with enclosure	govt approved, Suitable rated DC fuses, DC breakers, Dc surge protecting Device and connectors, etc...	
27	ACDB box With Enclosure	govt approved, Suitable rated AC fuses, AC breakers, AC surge protecting Device, Relay/Contactors, and connectors, etc...	
28	Certificate, MNRE & IEC compliance	Complies with all the National & International standards for EMC and safety and efficiency and reliability, such as IEC – 61683, IEC – 60068, IEC – 61000, IEC – 61727, IEC – 62116,IEC – 62109	
29	Warranty	Min 5Years	

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