



**NATIONAL INSTITUTE OF TECHNOLOGY
RAIPUR – 492 010, CHHATTISGARH**

Single Tender Enquiry

Department: Mechanical Engineering Department

Enquiry No: NITRR/S & P/Prop/ME/2024-25/26/1047

Date: 04/10/2024

To,

**M/s Ecosense Sustainable Solutions
Pvt. Ltd.,
F-34/8 Okhla Phase -2,
New Delhi- 110020**

Dear Sir,

We intend to purchase the commodities specified in this document and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

Please send your quotation to:

REGISTRAR
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
G. E. ROAD, RAIPUR – 492 010, CHHATTISGARH

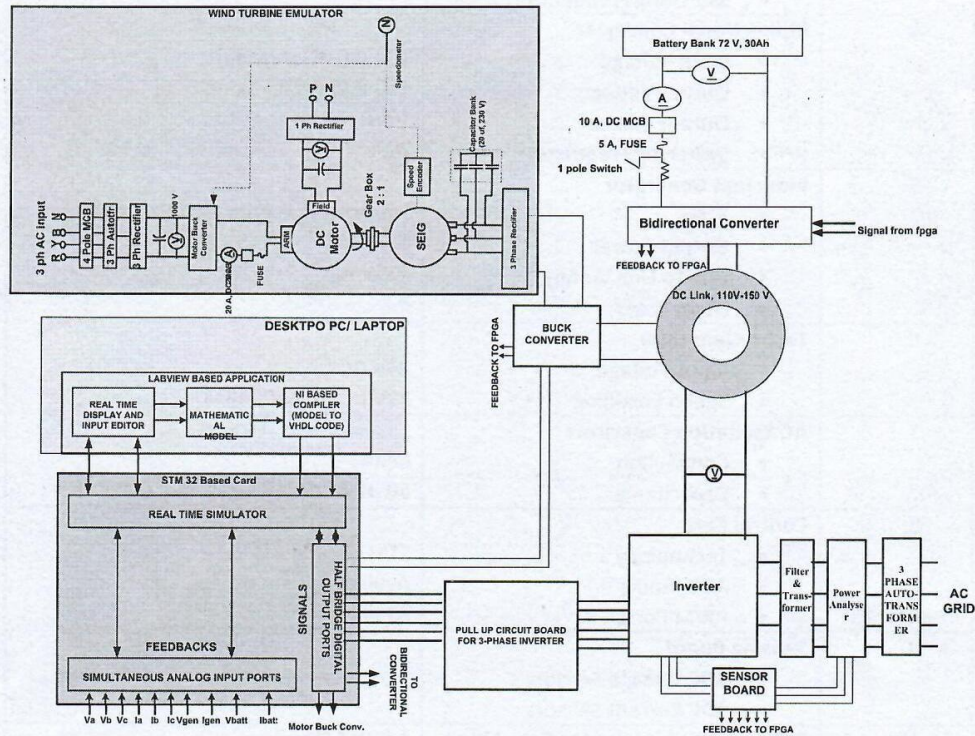
Yours sincerely,

**Sd/-
Registrar**

National Institute of Technology,
Raipur

Enclosed:

- (1) Name and specification of the Item.- Annexure 1
- (2) Special Terms & Condition (Optional) - Annexure 2
- (3) General terms and conditions - Annexure 3
- (4) Price Bid Format in INR – Annexure 4
- (5) Price Bid Format in of imported items in currency other than INR -Annexure 5

Annexure 1**Name & Specification of the Item: WIND TURBINE EMULATOR****Block Diagram****Detailed Specifications****1. Wind Emulator:**

S. No.	Component	Specification
1.	DC Motor <ul style="list-style-type: none"> Output Power Nominal Field Voltage Nominal Armature Speed at rated voltages 	3.5kW (5HP) 220V DC 220V DC 1500
2.	DC Drive <ul style="list-style-type: none"> Input voltage Input Current Output Voltage Output Current 	230 V 13 A 200 V 15 A 20 kHz

	<ul style="list-style-type: none"> Switching Frequency 	
3.	Buck Converter after generator <ul style="list-style-type: none"> Input voltage Output Voltage Output Current Switching Frequency 	450 V 150 V 10 A 20 kHz
4.	Bidirectional Converter <ul style="list-style-type: none"> Input voltage Output Voltage Output Current Switching Frequency 	105 V (Battery Side) 150 V (Inverter Side) 10 A 20 kHz
5.	Induction Generator <ul style="list-style-type: none"> Type Output Power Line to Line Voltage No of Poles 	Squirrel Cage Type (Self Excited) 1.5 kW 415V AC 8
6.	Tacho-Generator <ul style="list-style-type: none"> Input Voltage Speed Encoding 	24V DC 10V DC for 1500RPM
7.	AC Excitation Capacitors <ul style="list-style-type: none"> Connection Capacitance 	delta 50 μ F AC
8.	Control Card <ul style="list-style-type: none"> Technology ADC Inputs PWM Ports 	STM32 Available Available
9.	Sensing Board <ul style="list-style-type: none"> 4DC Voltage Sensors 3DC Current Sensors 	
10.	Pull-Up Card for Inverter Gate Firing	8 PWM Signals
11.	Bridge Rectifier <ul style="list-style-type: none"> Rating Capacitor 	10A, 400V 3300 μ F, 450V
12.	Three Phase Inverter <ul style="list-style-type: none"> 3 Leg inverter Maximum DC Input Voltage Output Voltage Output Current Switching Frequency 	150V DC 112 V AC 25 A 10kHz
13.	Step UP Power Transformer <ul style="list-style-type: none"> Connection Rating 	Delta to Star 1000VA
14.	Measurement <ul style="list-style-type: none"> DC Link Voltage Voltmeter Armature Voltage Voltmeter Field Voltage Voltmeter Battery Voltage Voltmeter Rectified Voltage Voltmeter 	0-1000 V 0-1000 V 0-1000 V 0-200 V 0-1000 V

	<ul style="list-style-type: none"> Battery Current Ammeter Tachometer 	0-10 A 0-2000 RPM
15.	Three Phase LC Filter <ul style="list-style-type: none"> Inductor Capacitor 	3mH, 10A 10 μ F, 400V
16.	Protection <ul style="list-style-type: none"> AC and DC MCBs 	
17.	Battery Bank <ul style="list-style-type: none"> Voltage Capacity Total No. Of Batteries 	72 V (Lithium-ion battery) 30 Ah 1
18.	Autotransformer Single Phase <ul style="list-style-type: none"> Voltage Range Max. Current 	0-250 V 5 A
19.	Autotransformer Three Phase (For Motor) <ul style="list-style-type: none"> Voltage Range Max. Current 	0-450 V 15 Amp.
20.	Autotransformer Three Phase (For Grid) <ul style="list-style-type: none"> Voltage Range Max. Current 	0-450 V 8 Amp.

(Annexure – 2)

Special Terms & conditions (Optional)

1. The supplier must have experience in supplying similar items in different CFTIs (Centrally Funded Technical Institutes) of India.
2. Demo and installation is required.

Annexure 3**General Terms & conditions****Instructions to the bidder**

1. The bid should remain valid for a period of 60 days. In case your offer has a different validity period that should be clearly mentioned in the quotation.
Validity period may also be extended without change in bid prices, if required on mutually agreed basis only.
2. **Excise Duty:** The Institute have the Excise Duty exemption certificate.
3. **Custom Duty:** Institute have the custom duty exemption certificate.
4. **Entry Tax:** The State of Chhattisgarh charges entry tax on all goods entering the State. Please include it in your quotation as a separate item. Entry Tax will be reimbursed on production of proof of payment.
5. Please address your quotation with all the required documents to “Registrar, NIT RAIPUR (C.G) 492010” and super scribe the envelope “**Quotation for the Department of Mechanical Engineering**” Bid may also be sent to through e-mail on or before **29/10/2024**.
6. The bidders should quote their offer/rates in clear terms without ambiguity in attached **Annexure 4 or 5 only**.
7. Technical brochure/catalogue should also be enclosed to support the specification of the items issued by OEM.
8. **Warranty Period:** The warranty period should be minimum 1 year (with spares) until and unless specified differently from the date of installation. For standard items which carry warranty of more than one year, standard warranty shall be applicable.
9. The successful bidder has to furnish “Performance Security of 03% of the ordered value”, in the form of Account Payee Demand Draft, / Fixed deposit and/or unconditional Bank guarantee en-cashable on demand from the Director, NIT, Raipur, from a nationalized Bank with validity period of sixty days beyond the date of completion of all contractual obligations of supplier including guarantee/ warranty obligations. The Performance Security is to be furnished in favour of the Director, National Institute of Technology, Raipur. Payment will be processed only after receipt of the Performance Security.

10. Terms of Payment: The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

Payment for Goods and Services offered from India/abroad in INR: Payment shall normally be made in Indian Rupees, as follows: 100% payment will be made in account payee cheque or Draft / online Transfer using RTGS to the Supplier within ten (10) days after the successful installation and commissioning of equipments subject to submission of performance security.

Payment for Goods and services offered from abroad in foreign currency:

Payment of foreign currency portion shall normally be made in the currency of contract in the following manner:

On Shipment: Ninety (90) percent of the Contract Price of the Goods shipped shall be paid through irrevocable letter of credit opened in favour of the Supplier in a bank in its country, upon submission of following documents specified as below. Within 24 hours of dispatch, the supplier shall notify the purchaser the complete details of dispatch and also supply following documents by Registered Post/ courier and copies thereof by FAX.

- a) Two copies of supplier's Invoice giving full details of the goods including quantity, value, etc.;
- b) Packing list;
- c) Certificate of country of origin;
- d) Manufacturer's guarantee and Inspection certificate/test report;
- e) Inspection certificate issued by the Purchaser's Inspector, if any.
- f) Insurance Certificate, if required under the contract;
- g) Name of the Vessel/Carrier;
- h) Bill of Lading/Airway Bill;
- i) Port of Loading;
- j) Date of Shipment;
- k) Port of Discharge & expected date of arrival of goods.
- l) H S code of classification of goods.
- m) Any other document(s) as and when required in terms of the contract.

Note:

1. The nomenclature used for the item description in the invoices(s), packing list(s) and the delivery note(s) etc. should be identical to that used in the contract. The dispatch particulars including the name of the transporter should also be mentioned in the Invoice(s)
2. The above documents should be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

On Acceptance: Ten (10) percent of the Contract Price of Goods received shall be paid normally within thirty (30) days of receipt of the Goods and successful

installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser along with the Performance security.

The L/C will be confirmed at the suppliers cost, if requested specifically by the supplier. If L/C is requested to be extended/ reinstated for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account. All bank charges in India to the account of the opener and all bank charges outside India to the account of the beneficiary. Payment of local currency portion shall be made in Indian Rupees normally within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. The LC for 100% value of the contract shall be established after deducting the agency commission payable, if any to the Indian agent from the CIF value.

11. **Delivery period:** Delivery should be made within 150 days from the date of order of placement of goods offered from India or opening of the LC in case of goods offered from abroad. However early delivery shall be appreciated.
12. Any disputes arising out of this enquiry shall be dealt in the Raipur jurisdiction.
13. Bidder need to submit the following certificates along with the quotation :
 - Proof of establishment of Firms/shop/business/ manufacturing unit etc. and Dealership certificate from the principals etc.
 - Proof of **GST** registration as per applicability.
 - Photocopies of the latest purchase orders received from IITs/NITs/any central govt. organization/State Govt. Organization/reputed private sector organization for the offered item.
 - Authorization certificate from Principal
 - Propriety Certificate stating that they are the only source of supply/ Manufacturer.
 - Proof of PAN
 - User list IITs/NITs/Central govt. organization/ State Govt /reputed private sector Organization for the offered item.
 - Any other relevant document, if any

14. Clearance & delivery

On arrival of shipment/consignment, the supplier is required to arrange custom clearance and transportation of the consignment up to NIT RAIPUR premises. The expenses incurred will be reimbursed on actual basis not exceeding the quoted amount. The custom duty, demurrage (in case of delay in release of custom duty to the custom department by NIT Raipur) and government taxes/levies (if any) will be paid extra by the buyer after as per term of payment. Please note that the State of Chhattisgarh may charge entry tax on all goods entering the State. This may be included in your quotation as a separate item. Entry Tax will be reimbursed on production of proof of payment. Principals will themselves have to procure any requisite permission from the Govt. of country of origin of equipment.

15. Agency Commission/other charges

Agency commission or other charges, if any should be clearly mentioned by the Bidder and will be paid in Indian Currency. Please note that actual reimbursement will not exceed the quoted amount in any circumstances.

Sd/-
Registrar
NIT-Raipur

Annexure-4

Price Schedule form: Price Schedule for Goods Being Offered from India/Abroad in INR
(Separate form to be used for each item offered)

Name of the Bidder:

Name & Model No. of offered item:

Tender Enquiry No.:

Sr. No.	Details	Price per Unit in INR
1.	Ex-works, Ex-warehouse, Ex-show room off the shelf price	
2.	Custom Duty** payable if any	
3.	Excise duty** payable, if	
4.	GST taxes mentioned as under:	
	TAXES	GST Percentage
	CGST	
	SGST	
	IGST	
5.	Any other tax & duty if any	
6.	Packing & forwarding up to station of dispatch, if any	
7.	Charges for inland transportation, insurance to ultimate destination i.e. NIT, Raipur, if any	
8.	Installation, Commissioning and training Charges, If any	
9.	Any other charges (Please specify)	
Total Price (Sum of Sr. No. 1 to 9) FOR NIT RAIPUR		

** NIT Raipur have custom Duty/excises Duty exemption certificate.

Total Bid price in Indian currency: -----

Bid Price In words:

Note: The cost of optional items may be indicated separately.

Seal & Signature of Bidder

Annexure-5

Price Schedule Form: Price schedule for goods being offered from abroad in currency other than INR

(Separate form to be used for each item offered)

Name of the Bidder:

Name & Model No of offered item:

Tender Enquiry No.:

Sr. No	Details	Price per unit in ()
1.	Country of origin	
2.	FOB (named port of shipment) Or FCA (named place of delivery)	
3.	Freight and Insurance up to Indian Airport/port	
4.	Total Price at Indian Airport /port (2+3)	
5.	**Custom charges /Duty (please mentioned %)	
6.	GST taxes mentioned as under:	
	TAXES	GST Percentage
	CGST	
	SGST	
	IGST	
7.	Custom clearance and other charges if any (with breakup)	
8.	Inland Charges for Insurance & transportation to NIT Raipur	
9.	Installation, commissioning and training Charges, if any	
10.	If any other charges (Please Specify)	
11.	Total Price (FOR NIT Raipur) (a) in foreign currency: (b) In INR (Sum of Sr. No. 1 to 10)	
Total Charges in INR		

**** NIT Raipur have custom Duty /excises Duty exemption certificate.**

Total Bid price in foreign currency: -----

Total Bid Price in Foreign currency words: _____

(a) Indian agents name & address _____

(b) The cost of optional items shall be indicated separately-----

(c) Cost/Charges in INR wherever applicable should be mentioned separately

Seal & Signature of Bidder