**LIMITED TENDER ENQUIRY**

**BIT/PUR/LTE/MECH/21-22//IC000760/2021 DATE:06/01/2022**

To,

**M/s. ..............................................**

Dear Sir,

Subject : Request for Quotation for Procurement SINGLE SINGLE CYLINDER, 1.75-2.00 HP VERTICAL AIR STIRLING ENGINE

You are requested to submit most competitive rates(s) for the following item(s) as per details given below (Sealed Quotations may be sent by hand or by post):

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| Last date and time for submissions of complete Quotations by ( Password protected)  Email to dr.[purchase@bitmesra.ac.in](mailto:purchase@bitmesra.ac.in), [purchase2@bitmesra.ac.in](mailto:purchase2@bitmesra.ac.in) sealed quotations can be submitted to the under mentioned address. | **18.01.2022 15:00 Hrs.**  ( If all LTE Vendors submit the quotation prior to the submission date, the quotations will be opened prior to last date of submission.) |

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| Sr.No. | Item Description | **Quantity** |
| 1 | SINGLE SINGLE CYLINDER, 1.75-2.00 HP VERTICAL AIR STIRLING ENGINE  Stirling engine component and assembly development  SINGLE CYLINDER 1.75-2.00 HP VERTICAL CYLINDER ENGINE: 1 Nos  Engine Type: Agricultural Genset to be modified as per our indigenous design parameters. Removal of Head and complete redesign of valve timing mechanism as per our specifications, and redesigning and manufacturing of 100% Teflon leak proof piston cups and piston assembly as per our requirement.  HEATER COMPONENT: 1 Nos  Operating temperature of 400 - 800 ?C, Material - seamless stainless-steel tubes with thickness not more than 3mm. Volume approximately 250 - 300 cc of air, operational and structural stability at pressure ranging from 10 - 300 PSI. To be manufactured as per our indigenous design parameters keeping in view the requirement of 100 % leak proof operation.  COOLER COMPONENT: 1 Nos.  Operating temperature of 20 - 100 ?C, Material - Copper tubes with thickness not more than 2 mm, with operational stability up-to 300 PSI, to be manufactured as per our indigenous design and 100% leak proof requirement.  COMPRESSOR: 1 Nos.  Manufacturing and modification of 0.5 - 1 hp air compressor with pressurized air tank to be used in assembly with other components as per our design, Operating at pressures up-to 500 PSI.  Assembly of all the components together as a single unit to be provided as per our design, with each component connection and joints to be manufactured as per out metal to metal contact design with BSP threads for 100 % leakproof operation. Special attention has to be provided to ensure zero leakage from any component or assembly and iterative manufacturing as per our design has to be provided to achieve this condition. Manufacturing process and assistance needs to be provided as and when required till the final engine development in co-ordination with the design team. | **01 Nos.** |

Sealed Quotation may be submitted superscribed with reference number as appended hereunder:-

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| Quotation for Supply of ----  Ref.No. -------- **BIT/PUR/LTE/MECH/21-22//IC000760/2021**  To,  Dy. Registrar (Purchase)  Birla Institute of Technology From : M/s----------------------------------------  Mesra , Ranchi , Jharkhand Address : ----------------------------------------  835215 Contact No. -------------------------------------  Email ID--------------------------------------- |

GST Exemption: The Institute is partially exempted from the payment  
of GST vide GOI Notification No.45/2017-Central Tax (Rate), dated  
14.11.2017 and 47/2017-Integrated Tax (Rate), dated: 14.11.2017 the applicable IGST will be at the rate of 5%. Necessary documents (DSIR) and related certification will be provided.

1. HSN code of the material should be mentioned in quotation.
2. All entries in the quotation should be typed or computer printed without any ambiguity and should be free from correction etc. Hand written offers will be rejected.
3. Late and delayed tenders will not be considered. In case any unscheduled holiday occurs on prescribed closing date the next working day shall be the prescribed date of closing.
4. The quotation should be submitted with descriptive literature & drawing. The make of the items offered should be clearly specified.
5. Material should be confirming to our specification. The deviations if any should be clearly indicated in the quotations.
6. Successful bidder has to furnish the OEM test certificates along with the materials (if applicable).
7. Rate /Price: The offered price shall be on **FOR BIT Mesra on Door Delivery basis**.
8. No Advance payment will be considered at any circumstances.
9. If offered Price Term is other than the FOR-Destination term, approximate Freight & forwarding charges along with the applicable Insurance charges may be mentioned.
10. Details of GST registration, PAN No. should be furnished along with quotations.
11. Road Permit: The supplier shall arrange Road Permit on his own for transportation material to BIT Mesra and any additional tax liability on this account shall be borne and paid by the supplier.
12. Purchaser will not pay separately for transit insurance/taxes (if any) and the supplier will be responsible until the stores arrive in good condition at the destination.
13. Warranty: Period of warranty should be clearly mentioned and also the parts covered under it. Warranty will be applicable from the date of successful installation.
14. Service Facility: Supplier must mention about the service set up in India & confirm effective after sales service.
15. BIT Mesra is not bound to accept the lowest or any quotation for whatsoever reason and reserve its right to accept or reject in whole or in part any or all the quotations received without assigning any reason.
16. Applicable taxes shall be quoted separately for all items and levies payable by the supplier under the contract shall be included in the unit price.
17. Each bidder shall submit only one quotation and sealed quotation to be submitted / delivered at the address. (Alternatively it can be email ( Password protected ) at [purchase2@bitmesra.ac.in](mailto:purchase2@bitmesra.ac.in) or dr.purchase@bitmesra.ac.in) or deliver by hand.
18. Training clause ( if any )to be mentioned.
19. Delivery period should be mentioned clearly in the quotation. If a firm accepts an order and fails to execute the order in full as perthe terms and conditions stipulated therein, it will be open to this Institute to recover liquidated damages from the firm at the rate of 0.5% to 1% per week of the order value subject to a maximum of 10% of the order value.
20. Conditional tenders will not be considered.
21. Authorized dealership certificate should be submitted in case principal manufacturing company is not quoting directly.
22. Copy of Purchase Orders for similar equipment supplied to any other organization desired.
23. Annual turnover of company for last 3 year / CA Certificate to be provided.
24. Declaration required by the vendor that the price quoted are lowest that I have supplied to any other organization.
25. Customs Duty: The Institute is exempted from payment of Customs Duty Vide GOI Notification No. 51/96 Customs, dated 23.07.1996 & No.24/2007-Customs dated 01.03.2007 with registration no 11/161/90-TU-V dated 24.07.2019. Sd/-

Dy. Registrar Purchase

BIT Mesra Ranchi-835215