



केन्द्रीय तसर अनुसंधान एवं प्रशिक्षण संस्थान
Central Tasar Research & Training Institute
(केन्द्रीय रेशम बोर्ड, वस्त्र मंत्रालय, भारत सरकार)
(Central Silk Board, Ministry of Textiles, Govt. of India)
पिस्का-नगडी, राँची - 835 303 (झारखण्ड)
Piska-Nagri, Ranchi - 835303 (Jharkhand)

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No.CSB/CTR&TI/DBT-04008EF/SST/2021-22/Store/7575 Date:

4 MAR 2022

To

Sir,

Sub: Purchase of Scientific Equipment -Regarding.

This office is interested to purchase one Spray Dryer with required accessories, as per list, under Project Code BPC04008EF of this Institute is mentioned here below:

Sl No.	Name of Items & Specification	Quantity
1	Spray Dryer with required accessories as per enclosed sheet.	01 No

Interested parties / Forms / Agencies may be submit their competitive rate quotations/Tender is invited from the reputed firms capable for supply and installation of aforesaid equipment's as per our requirement and subject to the following terms & conditions:

- Rate quoted must be valid for 180 days from the date of submission of quotation.
- Earnest Money Deposit (EMD) @ 2% of the value (Refundable) in favour of the Director, CTR&TI, payable through NEFT/RTGS in Central Bank of India Account No.1917804302 with IFSC code CBIN0282343 at Ranchi should be submitted along with the quotation, except those who are register with central purchase organization (i.e. DGS&D), National Small Industries Corporation or the concerned Ministry / Department. To qualify the tender which will not carry any interest. This condition is applicable only if the quoted rate of the equipments is more than Rs. 1.00 lakh (One lakh).
- Quotations without EMD will be rejected summarily.
- EMD of the unsuccessful bidders will be returned in due course and EMD of successful bidder will be retained till completion/ execution of assigned work and it will be forfeited under following circumstances:
 - a. Non supply of equipment within the stipulated time .
 - b. Non- fulfillment of specification.
- Supply of sub-standard materials will be rejected.
- Detailed literature/brochure if any available should accompany the tender.
- GST and other charges if any should be shown separately.

- Special discount / rebate, if any admissible should also be indicated in the quotations.
- No Cash/advance payment will be made. Bill of cost will be settled in full after satisfactory installation of equipment.
- The Director, CTR &TI, Ranchi reserves the right to accept or reject any or all quotations, without assigning any reason, whatsoever and in case of any dispute, the decision of the Director, CTR&TI, Ranchi will be final and binding on them.
- The rate quotation should reach to this office on or before **25 /03/ 2022 up to 12.00 Noon.**, which will be opened at 2.00 p.m. on the same day in the presence of tenderer or their authorized representative, who choose to be present. The Financial Bid of successful technical bidders will be opened on **26.03.2022 at 11.00 am.** in presence of bidders or their representatives who choose to be present at Central Tasar Research & Training Institute, Central Silk Board, Ministry of Textiles, Nagri, Ranchi – 835303 (Jharkhand). In case of absence of bidders or their representatives, the Technical and Financial bid will be opened at scheduled time and date by the constituted committee.
- Quotations received after the due date/time will not be entertained.
- The above tender has also been uploaded in the website of www.ctrtiranchi.co.in

Yours faithfully

Sd/-
DIRECTOR

Copy to:

- ✓ 1. Member Secretary (Store Section), CSB, Bangalore with requested to uploading the same on the CSB, website.
2. Assistant Director(computer), CTR&TI, Ranchi for uploading the same immediately on the CTR&TI, Ranchi website and CPPP portal.
3. In charge, SRT Section for information.


4.3.22
DIRECTOR

MANDATORY INFORMATION TO BE PROVIDED AFTER FILING THE BLANKS
OPTIONS FOR PUBLISHING OF

1. Tender Type Limited (Auction, L.O.L., Limited, Open, Single)
2. Form of Contract Buy (Piece-work, Lump-Sum, Multi-stage, Supply, Fixed rate, Turn-Key, Buy, Works, Sale Item rate)
3. No. of cover(s) 01 (1,2,3,4,5)
4. Tender Category Goods (Goods, Services, Works)
5. Account Type Head Central Govt. (State Government funded, Central Government funded, others)
6. Offline Instruments RTGS (Direct Credit, Demand Draft, FRD, Banker Cheque, ACG-67 Receipts, As Tender Documents, Not Applicable, Personal Cheque RTGS/ECS/NEFT)
7. Document Description SPRAY DRYER
8. Work Item Title Spray Dryer
9. Give Location Detail (work/services/items) CTR&TL, Ranchi
11. Product category Agricultures (Agricultural or Forestry, Ceramics, Civil Works, Coal, Construction, Electrical works, Entertainment/Musical Instruments, Gypsum housekeeping/cleaning, Industrial/Medical GAS Information Technology, Machineries Marine Works, Metals, Mining, Miscellaneous, Nabard & Rural Road, Oil/Gas, Packing Pesticide, Plant Protection, Input, Publishing/Printing, Power, P. E. (Hydraulic, Solar etc) Repair Works, Shipping/transportation/Vehicle, Solid waste Management Stationery Stone Support/Maintenance service surgical and sutures UPS)
12. Product Subcategory Research instrument
13. Contract Type Tender (Tender, Empanelment, Rate Contract)
14. Tender Value (INR) 6.47 Lakhs
15. Bid Validity Days 180 (80,120,90,60 others)
16. Calendar Completion/Delivery period in Days 30 days
17. Pre Bid Meeting No. (Yes, No.)
If Answer is Yes than filling of sub details a & b are mandatory.
a) Pre Bid Meeting Place _____
b) Pre Bid Meeting Address _____
18. Bid Opening Place CTR&TL, Ranchi
19. Tender Class _____ (As per Tender Documents, Not Applicable)
20. Tender Inviting Officer Director
21. Inviting Officer Address CTR&TL, Ranchi, 835303
22. Tender Fee (INR) _____
23. Processing Fee (INR) _____
24. Surcharge (INR) _____
25. Any Other Tax/Charges (INR) _____
26. Tender Fee Payable to _____

27. EMD Exemption Allowed NO (Yes/No.)


28. EMD Fee payable to Director, CTR&TL, Ranchi

29. EMD Fee Payable At C.Bi A/c No. 1917804302 A/c code CB/No 282343

30. Bid submission closing date 25-3-2022 and time 12:00 Noon

31. Bid Opening date 26-03-2022 and Time 11:00 am

32. Document type _____ (Tender document BOQ, Additional document.)


Signature 4/3/22
Name
Designation

Spray dryer (Automatic, Complete equipped with 1 set)

SPECIFICATIONS	
Type	Table top
Evaporation capacity	500-1000ml/hr (Machine should function at minimum label <i>i.e.</i> 200ml/hr)
Temperature of drying air	Ambient to 250°C± 1°C
Temperature sensor	03 Nos., (inlet / outlet /safety sensors)
Power rating	3-5KW
Compressed air flow (with suitable Air dried oil free Compressor)	2-5 bar & above
Air for atomization or Gas	Air compressor, 100 % Oil free noise free silent with wheels for easy movement, non-lubricated 5 to 8 bar. Nitrogen or Carbon dioxide gas to be used for Atomization instead of Air as & when required.
Particle size should be uniform	0.1, 1, 10, 50 & 100µm (as per different nozzle size)
Process condition	Gentle/smooth
Yield (%)	Up to 90% and above
Atomization facility	Yes
Suitable for	Aqueous & slurry (Water or organic Based Solvent Feed Solution)
High performance cyclone	Twin (For better particle separation)
Main body	High grade steel SS316
Filter	Inlet HEPA filter (0.3mm) and outlet pre filter (0.5mm)
Air blower	Side Channel Blower. The blower should be located before the heater, so that it does not handle any powder laden air, unlike the case where the blower is located after the dryer & should be provided with a VFD for adjustment of the air flow rate.
Air pressure Regulator	0 to 10 kg/cm ² with 40 microns filter & Moisture drain valve.
MOC of Drying chamber & Cone	Borosilicate Glass Spark tested, Stress Relieved & Annealed. 9" Diameter two piece construction with SS Clamps for ease of assembly & Washing.
Spray system	SS 316L Co-current two fluid nozzle (0.01-0.1mm) with auto de-blocking system. Fixed Time (10 Secs)
Feed pump	Peristaltic pump with variable flow rate. Feed pump Calibration (in-built) & Setting in ml/min with reverse function. 1250 ml/hr or more
Blower type	0.5 Aspirator (flame proof)
Viscosity	Up to 300cSt
Hot plate cum stirrer	Inbuilt preferable
Atomization process	Highly essential
Safe handling of both water and organic samples	Highly essential
Drying Chamber, Cyclon, Scrubber, Collection Bottle & Collection Pot, O ring for glassware and feeding tube for peristaltic pump, Silicone tube & tool kit	1 Set
Control system	The system should be fully controlled (heater, hot plate magnetic stirrer, Mechanical stirrer, flow rate, aspirator rate, de-blocking stocks, etc.) through PID Controller / In-built controller / VFD. Mains supply to the system through ELCB / MCB
Installation Required	Complete installation is required
Warranty	3-5 years