

जनजातीय उप-योजना (टी.एस.पी)
Tribal Sub-Plan (TSP)
भा.कृ.अनु.प. – भारतीय कृषि अनुसंधान संस्थान
ICAR – INDIAN AGRICULTURAL RESEARCH INSTITUTE

मिसिल संख्या File No. TSP/2019-20/1

दिनांक Dated : 25/02/2020

निविदा-सूचना

निदेशक भा.कृ.अ.प.–भारतीय कृषि अनुसंधान संस्थान नई दिल्ली द्वारा निम्नलिखित वैज्ञानिक उपकरण/वस्तु की आपूर्ति एवं कार्य हेतु प्रतिष्ठित निर्माताओं/अधिकृत डीलरों/आपूर्तिकर्ताओं से दो बोली प्रणाली (तकनीकी एवं वित्त बोली) के अन्तर्गत सील बंद **ऑनलाईन क्यूटेशन** आमंत्रित की जाती है। क्यूटेशन/निविदा प्रस्तुत करने की अंतिम तिथि **16.03.2020** समय 13.00 बजे तक। क्यूटेशन/निविदा को दिनांक **17.03.2020** को समय 14.30 बजे निर्धारित समिति के समक्ष खोली जाएगी। **Online quotations** are invited from reputed Manufacture/Dealer /Supplier in two bid system (Technical bid & Financial bid) for purchase of following Scientific Equipment/Items on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid **16/03/2020** at 13.00 hrs. The bid will be opened on dated **17/03/2020** at 14.30 hrs. by the prescribed committee.

विस्तृत नियम व शर्तों को भा.कृ.अ.सं. की वेबसाइट www.iari.res.in पर देखें एवं ऑनलाईन के लिए www.eprocure.gov.in देखा जा सकता है। Please visit www.iari.res.in for Details Rules and Regulation and Log on www.eprocure.gov.in for online.

क्रम संख्या Sl. No.	उपकरण/वस्तु का नाम Name of Equipment/ Item	मात्रा Quantity	बयाना राशि EMD
1.	Recirculatory Dehumidified Air Dryer	02 Units (One Unit to be installed at the Division of Food Science & Postharvest Technology, ICAR-IARI, New Delhi and the other at ICAR-IARI Regional Station, Kalimpong, West Bengal)	37,500.00

बोली लगाने के निर्देश और नियम एवं निविदा की शर्तें Instructions to the bidder and terms & conditions of tender:

- आपके द्वारा दी गयी मूल्य दर क्यूटेशन प्राप्ति हेतु निर्धारित अन्तिम दिन से कम से कम 180 दिनों तक मान्य होगी। यदि आपूर्तिकर्ता द्वारा 180 दिनों की न्यूनतम अवधि की वैधता के संबंध में कोई अन्तर हो तो उसका विशेष रूप से उल्लेख होना चाहिए। The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.
- क्यूटेशन में दर्शायी गई दरों में सामान/सामग्री की निःशुल्क आपूर्ति अथवा स्थापन शामिल होगा। हालांकि विदेशी मुद्रा में दर्शाए गए उपकरण को एफ.ओ.बी./सी.आई.पी. आधार पर दर्शाया जाए। The rates quoted shall include delivery and installation at the respective sites. However, equipment quoted in foreign currency must be quoted on FOB/ CIP basis.
- यदि सामान विदेश-निर्मित है और दर विदेशी मुद्रा में दिया गया है तो ऐसी परिस्थिति में कस्टम ड्यूटी छूट प्रमाणपत्र (सी.डी.ई.सी.) जारी किया जाएगा जो कि केवल भा.कृ.अ.सं. के लिए ही मान्य होगा। Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI
- क्यूटेशन में संबंधित सामान का पूरा विवरण दिया जाएगा। Full specifications of the item/article quoted for shall be given in the quotation.
- उपरोक्त दिए गए दर में यदि किसी भी प्रकार का अतिरिक्त कर/टैक्स/ड्यूटी लगाया जाना है तो उसका संकेत स्पष्ट रूप से दिया जाना चाहिए। If taxes, duties or any other charges over and above the rates quoted leviable, actual percentage of such taxes/duties/other charges should be clearly indicated.
- बोली के साथ बतौर बयाना राशि का **डिमांड मॉग ड्राफ्ट/ भुगतान आदेश/मियादी जमा रसीद/ बैंक गारंटी को निदेशक, भा. कृ. अनु. संस्थान, नई दिल्ली- 110012** के नाम किसी भी राष्ट्रीयकृत बैंक में देय हो, अवश्य संलग्न होना चाहिए। जिसके बिना, क्यूटेशन पर बिचार नहीं किया जायेगा। बयाना राशि की मूल प्रति सीधे तौर पर संबंधित निविदा आमंत्रित अधिकारी को आखिरी तारीख तक या ऑफलाईन दर जमा करने से पहले पहुंच जानी चाहिए। **डिमांड मॉग ड्राफ्ट/ भुगतान आदेश/मियादी जमा रसीद/बैंक गारंटी** से संबंधित सभी जानकारी व्यक्तिगत रूप से भेजी जानी चाहिए, इस संबंध में प्राप्त स्कैन कॉपी/या जो डाटा आपूर्तिकर्ता द्वारा दर जमा करने के दौरान दिया गया है उससे मिलान किया जाएगा अन्यथा इस क्यूटेशन को रद्द माना जाएगा। EMD should be paid in the form of D.D./Pay Order/ Fixed Deposit

Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi. The original EMD should be submitted to the Tender Inviting Authority on or before the last date and time of offline bid submission. The details of D.D./Pay Order/Fixed Deposit Receipt/ Bank Guarantee physically sent, should tally with the details available in the scan copy and the data enter during the bid submission time otherwise the uploaded bid will be rejected.

7. इस संस्थान द्वारा निविदाकर्ता को किसी भी सुरक्षा जमा राशि और बयाना राशि पर ब्याज नहीं दिया जाएगा। No interest on security deposit and earnest money deposit shall be paid by the Institute to tenderer.
8. क्यूटेशन प्रक्रिया पूरी होने के पश्चात असफल बोलीदाताओं को उनकी जमा की गयी बयाने की राशि वापस कर दी, जायेगी जबकि सफलतम बोलीदाता के मामले में यह राशि नियम के अनुसार सुरक्षा जमा के रूप में समायोजित की जा सकती है, जो कि ऑर्डर के राशि की 10 प्रतिशत होगी और यह डिमांड मांग ड्राफ्ट/भुगतान आदेश/मियादी जमा रसीद/ बैंक गारंटी निदेशक, भा. कृ. अनु. संस्थान, नई दिल्ली- 110012 के नाम किसी भी राष्ट्रीयकृत बैंक में देय हो, जिसकी वैधता सभी कार्य को पूरा करने के 60 दिनों, साथ के साथ उपकरण/सामान की गारंटी भी शामिल होगी। The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 10% of the order value in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (Rs. One Lakh).
9. फर्म द्वारा दो वर्ष की वारंटी प्रदान की जाएगी। यदि सामान/उपकरण के विवरण में वारंटी की अवधि में किसी भी प्रकार परिवर्तन है, तो उस वारंटी को अंतिम माना जाएगा। Two years warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.
10. कार्य के पूरा होने के बाद फर्म/पूर्तिकता को तीन पूर्व रसीद बिल प्राप्त होने के बाद भुगतान e-payment के माध्यम से किया जाएगा। Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate.
11. निदेशक, भा. कृ. अनु. संस्थान, नई दिल्ली के पास बिना कारण बताये सभी क्यूटेशनओं को पूर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने के अधिकार प्राप्त हैं। The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
12. उपरोक्त शर्तों का पालन न करने वाली क्यूटेशनों को अस्वीकार करने के लिये उत्तरदायी होंगी। Quotations not complying with the above conditions are liable to be rejected.
13. TIN/VAT/PAN/C.S.T. Nos. के स्कैन कॉपी को क्यूटेशन के साथ में संलग्न किया जाए। Scanned copy of TIN/VAT/PAN/C.S.T. Nos may be attached with the bid.
14. किसी कारण अनुबंध में कोई विवाद उत्पन्न होने पर भारतीय कानून और न्यायालय, नई दिल्ली की अधिकारिता के अधीन होगा। सचिव, भारतीय कृषि अनुसंधान परिषद द्वारा एकमात्र मध्यस्थ नियुक्त किया गया है, जिसका निर्णय दोनों पार्टियों (Supplier और Purchaser) पर अंतिम माना जाएगा। In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)
15. सफल बोलीदाता को सौंपे गए कार्य को निर्धारित आपूर्ति आदेश के भीतर कार्य करना होगा जैसा आपूर्ति आदेश में दर्शाया गया होगा यदि ऐसा नहीं किया जाता तो कम से कम 2% तथा अधिकतम 10% की क्षति नष्ट कटौती के रूप में उनके बिल से काटी जाएगी। The successful bidder has to execute the indented Job/Work as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by this office failing which 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period.

(सहायक प्रशासनिक अधिकारी)
Asstt. Admn. Officer

Technical Specifications

Item No. 1 Recirculatory Dehumidified Air Dryer (2 Units required)

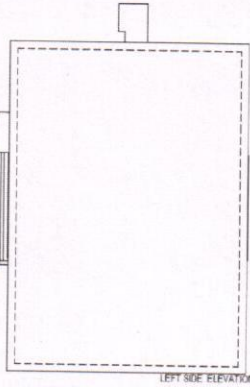
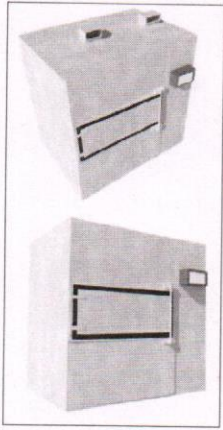
Specifications of UNIT 1 (To be supplied to IARI, Regional Station located at Kalimpong, West Bengal)

1. The tentative outline drawing of the dryer is provided in Figure 1.
2. Must have suitable measurement, control and display of temperature, relative humidity and air velocity at the inlet and exit of drying chamber.
3. The dryer must be provided with duct type air heaters of at least 8 kW made of SS 304 for heating of air which is to be used for drying.
4. Operating temperature range : Room temperature to 50°C.
5. Temperature measurement, control and display accuracy : $\pm 0.5^{\circ}\text{C}$.
6. The system must be provided with a suitable dehumidifying system which can reduce the relative humidity upto 10% from near saturation.
7. Operating relative humidity range : 10 to 95%
8. Relative humidity measurement, control and display accuracy : $\pm 1\%$.
9. The system must be provided with heat resistant axial flow air blower having an air blowig capacity of upto 10 m/s. at the bottom of the drying tray.
10. Operating air velocity range : 0.1 to 10 m/s at the bottom of drying tray.
11. Air velocity measurement, control and display accuracy : $\pm 0.1\text{m/s}$.
12. Temperature, relative humidity and air velocity must be controlled through microprocessor based PID controllers cum indicator, having membrane keypad with soft touch switches.
13. Proper water draining facility must be provided for removal of moisture collected by the dehumidifying system
14. The entire system must be suitably insulated with at least 50 mm puff insulation (density $\pm 50 \text{ kg/m}^3$) to prevent any heat loss during the drying process.
15. All inner surface of the drying system should be made of SS 304.
16. The outer chamber to be made of galvanized steel, duly epoxy coated to prevent any rusting.
17. The drying chamber must have provision to hold three trays for holding of drying materials. A total of six drying trays must be provided along with the system.
18. Each tray must be atleast 1.5 x 1.5 x 0.075 m and must be made up of perforated SS304.
19. The system should be supplied with suitable suction and exhaust dampers for intake and exhaust of air.
20. The drying along with all accessories must have 2 years comprehensive warranty.
21. It is mandatory for the bidders to quote for the cost of Comprehensive Annual Maintenance Contract (CAMC) for three years post warranty period failing which the bids shall automatically be treated as non-responsive.
22. The bidder must also quote for any required accessory, spares, etc. required for the standalone operation of the system. ICAR-IARI shall only responsible for proving suitable location and power requirement for operating the said system.
23. Each bidder must provide detailed printed catalogues/detailed design drawings highlighting each of the required specifications in the same along with their technical bids failing which they are liable to be technically rejected.

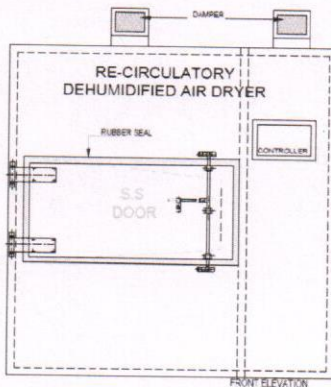
Specifications of UNIT 2 (To be supplied to IARI, New Delhi)

1. The tentative outline drawing of the dryer is provided in Figure 1.
2. Must have suitable measurement, control and display of temperature, relative humidity and air velocity at the inlet and exit of drying chamber.
3. The dryer must be provided with duct type air heaters of at least 8 kW made of SS 304 for heating of air which is to be used for drying.
4. Operating temperature range : Room temperature to 50⁰C.
5. Temperature measurement, control and display accuracy : $\pm 0.5^{\circ}\text{C}$.
6. The system must be provided with a suitable dehumidifying system which can reduce the relative humidity upto 10% from near saturation.
7. Operating relative humidity range : 10 to 95%
8. Relative humidity measurement, control and display accuracy : $\pm 1\%$.
9. The system must be provided with heat resistant axial flow air blower having an air blowig capacity of upto 10 m/s. at the bottom of the drying tray.
10. Operating air velocity range : 0.1 to 10 m/s at the bottom of drying tray.
11. Air velocity measurement, control and display accuracy : $\pm 0.1\text{m/s}$.
12. Temperature, relative humidity and air velocity must be controlled through microprocessor based PID controllers cum indicator, having membrane keypad with soft touch switches.
13. Proper water draining facility must be provided for removal of moisture collected by the dehumidifying system
14. The entire system must be suitably insulated with at least 50 mm puff insulation (density $\pm 50 \text{ kg/m}^3$) to prevent any heat loss during the drying process.
15. All inner surface of the drying system should be made of SS 304.
16. The outer chamber to be made of galvanized steel, duly epoxy coated to prevent any rusting.
17. The drying chamber must have provision to hold three trays for holding of drying materials. A total of six drying trays must be provided along with the system.
18. Each tray must be atleast 0.5 x 0.5 x 0.075 m and must be made up of perforated SS304.
19. Each of the drying tray must be mounted on suitable load cells for continuous measurement and recording of weight.
20. Weight measurement and display range of upto 15 kg. with least count of $\pm 0.1\text{g}$ must be provided.
21. Suitable data logger for recording of weight of all three trays; inlet and exit temperatures; inlet and exit relative humidities; and inlet air velocity at 1 min. intervals for at least 20 hours must be provided.
22. The system must have suitable provision for downloading of recorded data using a USB drive.
23. The system should be supplied with suitable suction and exhaust dampers for intake and exhaust of air.
24. The drying along with all accessories must have 2 years comprehensive warranty.
25. It is mandatory for the bidders to quote for the cost of Comprehensive Annual Maintenance Contract (CAMC) for three years post warranty period failing which the bids shall automatically be treated as non-responsive.
26. The bidder must also quote for any required accessory, spares, etc. required for the standalone operation of the system. ICAR-IARI shall only responsible for proving suitable location and power requirement for operating the said system.
27. Each bidder must provide detailed printed catalogues/detailed design drawings highlighting each of the required specifications in the same along with their technical bids failing which they are liable to be technically rejected.

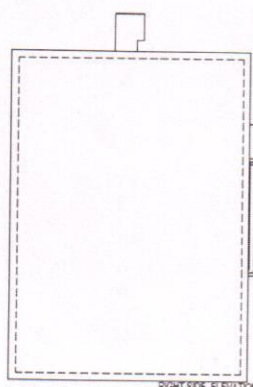
FIGURE 1 : Representative figure for Recirculatory Dehumidified Air Dryer for Large Cardamom



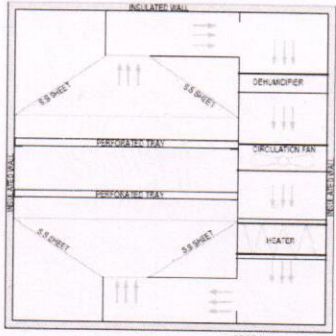
LEFT SIDE ELEVATION



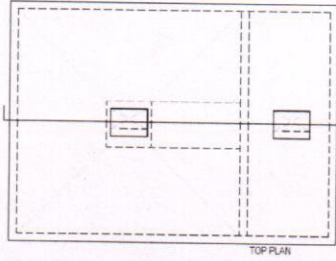
FRONT ELEVATION



RIGHT SIDE ELEVATION



SECTION



TOP PLAN



PERFORATED TRAY

