

ICAR-NATIONAL RESEARCH CENTRE ON POMEGRANATE,
NH-65, SOLAPUR-PUNE HIGHWAY, KEGAON, SOLAPUR-413255 (MS)

Tender No. ICAR-NRCP/Open Tender/32/Procurement of Equipment/17-18

Tender for Procurement of Microencapsulator

For and on behalf of the Secretary, ICAR, the Director, ICAR-NRCP, Solapur invites e-tenders for procurement of **Microencapsulator** through the website www.eprocure.gov.in under two bid systems from reputed firms.

Tender Enquire No.: ICAR-NRCP/Open Tender/32/Procurement of Equipment/17-18

Name of the Item : Procurement of Microencapsulator

Published dated :	08/12/2017	17.00 hrs
Bid Submission start date:	08/12/2017	17.00 hrs
Bid Submission end date:	08/01/2018	16.00 hrs
Technical Bid Opening date:	10/01/2018	11.00 hrs

Important Notes:

1. Tender Documents can be downloaded from ICAR-NRCP website nrcpomegranate.icar.gov.in or from Central Public Procurement Portal www.eprocure.gov.in. Bidders should enroll / register in the e-procurement module of Central Public Procurement Portal through the website: www.eprocure.gov.in. Bidders should also possess a valid DSC for online submission of bids.
2. Bids received on e-tendering portal only will be considered. Bids in any other form sent through sealed cover/email/post/fax etc. will be rejected.
3. ICAR-NRCP, Solapur reserves the right to accept / reject any /all tenders in part /full without assigning any reason thereof.
4. ICAR-NRCP will not be responsible for any delay in enrollment/registration as bidder or submitting/uploading the offer on e-tender portal. Hence, bidders are advised to register in e-tendering website www.eprocure.gov.in and enroll their Digital Signature Certificate and upload their quotation well in advance.
5. Any changes/corrigendum/ extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website for updates.

Asstt. Admn. Officer
FOR DIRECTOR



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(ISO 9001:2008 Certified Institute)



INSTRUCTIONS TO THE TENDERERS

The Tender shall be submitted in accordance with these instructions and any tender not confirming the instructions as under is liable to be rejected. These instructions shall form the part of the tender and contract.

1. For Online Bid Submission, as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal using valid Digital Signature Certificates. More information useful for submitting online bids on the CPP Portal may be obtained at www.eprocure.gov.in/eprocure/app.
2. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
3. The intending Tenderer, in case of Prime Equipment Manufacturers shall upload a self-declaration on their letter-head as PDF file in Cover-I of e-tender, along with the tender documents, confirming that they are regular in manufacturing, supplying, installing, testing & commissioning of the similar equipment/item.
4. The intending Tenderer, in case of Authorized Distributor/ Authorised Dealer shall possess valid authorized Distributorship /Dealership license from Original Equipment Manufacturers. The tenderer shall enclose the copy of the same as PDF file in Cover-I of the e-tender while submitting the tender.
5. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF formats. Bid documents may be scanned with 100 dpi with black and white option.
6. The Technical Bids will be opened on **10.01.2018 at 11:00 A.M.** The date & time for opening of Financial Bids will be notified on the portal. The bidders may regularly check the portal regarding the date of opening of financial bid.
7. The equipment shall be in compliance to the specifications mentioned in Annexure - I of the tender and shall be of the latest technology, best quality and high standards.
8. Any optional Accessories/Tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, be provided with their full technical details including their use and advantage in a separate sheet with the tender documents. Minimum one year warranty has to be provided for the equipment.

9. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any Tenderer stipulates any condition of his own, such conditional tender is liable to be rejected.
10. Director, ICAR-NRCP, reserves the right to reject any tender/bid wholly or partly without assigning any reason.
11. The Technical Committee constituted by the Director, ICAR-NRCP, Solapur shall have the right to verify the particulars furnished by the bidder independently.
12. All the tender documents & Price Bid to be uploaded as per this tender are to be digitally signed by the bidder.
13. **Earnest Money Deposit (EMD): An amount of Rs. 50000/- (Rs. Fifty thousand only)** in the form of Demand Draft drawn in favour of “ICAR Unit: NRC on Pomegranate” payable at Solapur This EMD should be submitted in sealed envelop super-scribed as “EMD for (Name of the Item) and NIT No. **ICAR-NRCP/Open Tender/25/Procurement of Equipment/17-18**”. Failure to deposit Earnest Money will lead to rejection of tender. In the event of the awardee bidder backing out, EMD of that bidder will be forfeited.

Note: The envelope containing EMD should be placed in another sealed envelope and address to: “The Director, ICAR-National Research Centre on Pomegranate, NH-65, Solapur Pune Highway, Kegaon, Solapur 413 255” This envelop having EMD should reach on or before last date & time of submission of bid.
14. **Validity:** The bid should be valid for acceptance up to a period of 180 Days. The Bidders should be ready to extend the validity, if required without any additional financial implications.
15. **Delivery:** For Indian manufacturer -Within 45 days from the Date of issue of award letter or as specified in the supply order. However, the Competent Authority will have the discretionary power to take appropriate decision.
For Foreign firms – 90 days from the date of opening of letter of credit (LC)/Foreign Demand Draft or as per the directives of the Competent Authority.
16. **Prices:** The Prices quoted should be inclusive of all taxes or duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (ICAR-NRCP, Solapur). ICAR-NRCP is registered with DSIR, Govt. of India and is exempted from Custom /Excise Duty. Exemption Certificate to this effect will be issued by ICAR-NRCP. Hence, Customs/Excise Duty exempted price should be quoted. Nothing extra shall be paid on any account.
In case of imports/foreign supplier, the price should be quoted on ex-work price/FOB basis only. ICAR-NRCP will make necessary arrangements for the clearance of imported goods at the Airport/Seaport.
17. The rates quoted should cover a warranty period of at least 24 months against any manufacturing spares or operational object and should invisibly include calibration at requisite intervals.
18. The suppliers also quote for the Comprehensive Annual Maintenance Contract for three succeeding years after expiry of warranty.
19. The supplier should also provide the copy of purchase order of similar equipment supplied and serviced, during last three years.

20. **Mode of Payment:** For Indigenous Supplies: Payment on bill basis after supply, satisfactory installation, commissioning and performance of the equipment at Solapur and after certification by our Scientists concerned.
For Imports: -The payment shall be made through irrevocable L.C. LC will be opened on 90% value of the equipment/item on FOB value and shall be released on presentation of complete and clear shipping documents. Rest 10% will be released only after satisfactory installation and commissioning of the equipment. This will not include commission to the Indian Agent. Payment of Commission to the Indian agent will strictly be made in Indian Rupees after satisfactorily commissioning of equipments. **All bank charges outside India will be borne by the supplier.**
21. **Installation, Training & Demonstration:** Bidders need to provide adequate training to the nominated persons of ICAR-NRCP at their cost. ICAR-NRCP will not bear any training expenditure. The supplier is required to done the installation and demonstration of the equipment within fifteen days of arrival of materials at the NRCP, Solapur site of installation, otherwise the penalty clause will be the same as per the supply of material.
22. **Liquidated damages Security:** In case the firm does not complete the supply within the laid down agreed delivery period as per contract, liquidated damages will be charged @ 0.5% of the contract value per week subject to maximum of 10% of the value of the order can be imposed. However, the Institute reserves the right to either further extend or cancel the contract after expiry of delivery date and recover the liquidated damages from the dues of the firm or by legal means.
23. **Insurance:** As applicable in the case of imported goods. For indigenous item, it will be responsibility of the supplier to supply the material in good condition on FOR basis without involving the risk of the purchaser.
24. **Dispute settlement:** The dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & court at Solapur. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding to both parties.
25. **Guarantee/Warranty:** Minimum 24 months comprehensive on-site warranty required. Warranty Terms period will start from the date of installation of items. In case at installation stores/part of stores are found defective/damaged during or after delivery to consignee, the suppliers will replace or repair the store under warranty at consignee's location in India free of cost or if in any case it is required to send back to the foreign manufacturer, Bank Guarantee equivalent to the cost of equipment is required to be submitted before lifting the store. All expenses in this regard will be borne by the supplier.
26. **Performance Security:** The successful bidder will have to submit a Performance security of equivalent to **5%** of the Contract/Order value, having validity till expiry of the Warranty/Guarantee period in form of **DD in favour of "ICAR Unit: NRC on Pomegranate payable at Solapur,** Fixed Deposit Receipt from a Commercial Bank, Bank Guarantee from a Commercial bank in a acceptable form/prescribed proforma.
27. **Packing and Marking:** The packing and preservation of the supplied goods shall be airworthy/seaworthy/roadworthy (as the case may be) so that it may provide their safety during transit period. Each packing case shall have labels as follows:
Consignee: ICAR-NRC on Pomegranate, NH-65, Solapur-Pune Highway, Kegaon, Solapur 413255 (MS) Ph. No. 0217-2350074/2354330. Fax No. 0217-2353533.
(All damages which may occur as a result of defective packing shall be borne by the seller).

DETAILS OF ITEMS AND THEIR TECHNICAL SPECIFICATIONS

1) Microencapsulator

The instrument should be capable of encapsulating pomegranate seed oil. It should be capable of providing vibrational frequency in capsule/bead formation. The instrument should form capsules of shell and core type with use of concentric nozzles, beads type with single nozzle types. Parts in touch with medium should be autoclavable.

The instrument should have following features/units

- **Capability**
The instrument should be capable of encapsulating pomegranate seed oil having approximate viscosity of 160 centipoise.
The instrument should form capsules of shell and core type with the use of concentric nozzles, beads type with single nozzle types.
- **Control unit**
Capable of regulation of vibration frequency, electrostatic dispersion, heating, air pressure, liquid flow rate etc.
- **Vibration Frequency**
It should be capable of providing vibrational frequency in capsule/bead formation.
Vibration frequency upto 5000Hz shall be provided.
- **Set of single nozzles for bead formation**
Stainless steel nozzles with diameter ranging from 0.1 to 1.0 mm (approx. 8-10 nos.) shall be provided.
- **Set of concentric nozzles for capsule formation**
Stainless steel nozzles with diameter ranging from 0.1 to 1.0 mm (approx. 5-7 nos.) shall be provided
- **Nozzle heating**
Integrated heating of the bead production unit up to 70 °C shall be possible
- **Pressure bottle**
500 ml glass volume bottles with maximum working pressure up to 1.5 bar. The flow rate from 100 ml/h to about 2000 ml/h shall be maintained.
- **Reproducibility in bead formation**
In the range of 0.15 mm to 2.0 mm the bead size uniformity (approximately 5 % relative standard deviation of bead size using pure alginate)
- **Process control**
Visual monitoring in the light of a stroboscope lamp shall be possible to control operational parameters.

- **Cell viability**
Bead formation should be at low shear for high cell survival.
- **Batch size**
The batch size of 5 ml to 1000 ml shall be provided.
- **Droplet size**
Should be capable to form size from 0.15 to 2.0 mm
To maintain the above mentioned droplet size, electro static dispersion/other effective alternative technique should be used.
- **Electrode Tension**
The variable electrode tension upto 2000 V shall be available.
- **High bead production**
The instrument should be capable of formation of minimum 5000 beads per second depending on encapsulation conditions and polymer mixture.
- **Parts in contact with medium**
Shall be of stainless steel, glass, silicone, PTFE, FEP etc.
Parts in touch medium should be autoclavable.
The parts should be safe for production pharmaceutical and nutraceutical products.
- **Compact in Design**
The instrument should be sleek in design with low weight.
- **Working Conditions**
Should capable to operate from 5 to 40 °C
- **Essential Accessories**
All essential accessories required to fulfill above specification shall specifically mentioned and cost of them shall be included.

Online Bid Submission Details

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in Two Covers as explained below:-

COVER - I (Following documents to be provided as PDF file)			
Sl. No.	Documents	Content	File types
1.	Technical Bid	Technical Compliance Sheet with Technical supporting documents as per specifications mentioned in Annexure – I	.PDF
2.		Scan copy of GST Registration, Income Tax PAN	.PDF
3.		Scan copy of Earnest Money Deposit by way of Demand Draft	.PDF
4.		Scan copy of certificate for EMD exemption, if claiming.	.PDF
5.		Self-declaration in letter head that the bidder is the Original Equipment Manufacturer, Authorized Dealership license issued from the Original Equipment Manufacturer	.PDF
6.		Scan copy of purchase order of similar equipment supplied and serviced, during last three years	.PDF
COVER - II			
1.	Financial Bid	Price bid (BOQ) to be filled in Excel format	.XLS

All the documents and BOQ has to be digitally signed by the bidder.

Asstt. Admn. Officer
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