

भा. कृ. अनु. प.- केन्द्रीय कपास प्रोघोगिकी अनुसंधान संस्थान **ICAR-CENTRAL INSTITUTE FOR RESEARCH ON COTTON TECHNOLOG** (भारतीय कृषि अनुसंधान परिषद) (INDIAN COUNCIL OF AGRICULTURAL RESEARCH) एडनवाला रोड, माटंगा, मुंबई- 400 019 Adenwala Road, Matunga, Mumbai - 400 019



Tel.: 24127273 Website https://circot.icar.gov.in e-mail: director.circot@icar.gov.in

Note: All the communications must be addressed to the Sr. Administrative Officer by designation, CENTRAL INSTITUTE FOR RESEARCH ON COTTON TECHNOLOGY, ADENWALA ROAD, MATUNGA, MUMBAI-400 019.*(The tender document is also being uploaded on the ICAR-CIRCOT Website: https://circot.icar.gov.in and the other prospective bidders can make use of the document down loaded from the website)

File No: 2-9(2)/ICAR-CIRCOT/Admn.II/Pilot Plant/TTD/2022-23/10 Date 18/4/2023

To,

As per list

Sub.: Notice inviting Tender for "Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with Other Equipment's/instrument" under DST (TDP) funded Project.

Sir,

Please send your lowest open tender as per terms and conditions mentioned below for supplying the following:

Sr. No.	Name of item	Qty.	Approx. Cost (Rs.) (In Lakhs)	Delivery Place
1.	Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with Other Equipment's/instrument" under DST (TDP) funded Project. (Specification see Annexure-I)	One set along with other items as per technical specification.	22.00	ICAR-Central Institute for Research on Cotton Technology (Indian Council of Agricultural Research) Adenwala Road, Matunga, Mumbai-400 019

Tender shall be submitted as per Two Bid System, i.e. Technical Bid & Financial Bid separately in two sealed envelopes with superscribed Technical Bid & Financial Bid respectively. These two envelopes shall be put in one bigger (outer) envelope and sealed. The Sealed outer envelope shall be suberscribed "Limited Tender for Pilot Plant for Extraction of Protein from Deoiled Cotton Cake" due date 03.05.2023 and may be send by registered post, speed post, courier or hand delivery so as to reach this Institute on or before 02.05.2023 at 3.00 PM. The Tender without above superscription on the cover will be not considered. The tender received after due date and time will not be accepted.

The purchase shall be governed by the following terms and conditions:

- 1. Rates of GST As applicable (Exemption Certificate provided by Institute if required), any other charges etc. if any may be shown separately in Annexure-III (format for quotation) failing which it will be assumed that the quoted rates is inclusive of all Taxes and any additional amount demanded on any account later on will not be entertained and on this account shall not be paid.
- 2. Rate must be quoted item wise (separately) and FOR destination at ICAR-CIROCT Matunga, Mumbai-400 19.. The item which is to be imported directly by the Institute and payment is to made in Foreign Currency, the rate should be quoted on both FOB and CIF basis.
- 3. The GST, if any stipulated by the supplier in their tender should be paid first by the supplier which should be claimed in their invoice along with receipt on account of payment of GST for reimbursement from the purchaser. The payment of demurrage charges if any for non-payment of GST etc. shall be the responsibility of supplier and not that of the purchaser.
- 4. Final Price should include all and no other charges will be entertained or paid.
- 5. TDS and statutory taxes will be deducted as applicable.

- 6. The firm submitting tender must have valid GST Registration No./PAN No. etc. and copy of the same to be enclosed with their tender (To be submitted in Technical Bid) failing which their bid shall be treated as non-responsive and rejected.
- 7. The vendor should clearly mark YES/NO on Technical Specifications offered as per ANNEXURE-II (Technical literature/brochures/manuals if applicable should be attached along with this format) relevant literature, brochure, actual pictures/photos of machines and cliental list with mobile nos. in support of their claim.
- 8. The vendor will have to submit TECHNICAL COMPLIANCE STATEMENT as per ANNEXURE-II, FINANCIAL BID as per ANNEXURE-III, and GST Certificate & No./PAN No. etc. as per ANNEXURE -IV failing which the BID shall be REJECTED. (ANNEXURE-II & ANNEXURE IV To be uploaded in Technical Bid and ANNEXURE III To be uploaded Financial Bid)
- 9. Only Technical bid will be opened first and after evaluation of Technical bids, only technically qualified bids as per evaluation/compliance/responsive statements and recommendations of the Technical Evalution committee will be taken in to consideration for opening their respective financial bids at a convenient date.
- 10. Tender should remain valid for 90 days and validity less than 90 days shall not be accepted and treated a non-responsive.
- 11. Liquidated Damages for delayed supplied @0.5% per week of the contract value will be charged. Maximum L.D shall not be more than 10% of C.V
- 12. EMD of Rs.66,000/- (Rupees Sixty Six Thousand Only) must be deposited with bid/quotation in form of Demand draft/Banker's cheque/Pay order issued from scheduled Bank and payable to "Director ICAR-CIRCOT, Mumbai "failing which their offer will not be considered. The EMD of the unsuccessful bidder shall be refunded without any interest after award of the contract. The EMD of the successfully bidder shall be refunded after receipt S.D as per Para No.15. If the successfully bidder fails to furnish the required S.D within the specified period the EMD will be forfeited.
- 13. The successful bidder will be required to submit Security Deposit (S.D. @ 3% to 5% (as per Govt. of India guideline) of quoted rate of the work order only in the form of Demand Draft/ Banker's cheque /Bank Guarantee (S.D) drawn in favour of "Director ICAR-CIRCOT, and payable at Mumbai within 15 days of the acceptance of the offer. The Security Money will be refunded without any interest after successful completion of contract period provided the Institute has no other claims outstanding against the party at that time. The Performance Guaranty should be valid for additional two months beyond contract Period.
- 14. The items being imported directly from the foreign Principal Manufacture to whom payment is to be made in Foreign Currency, the payment shall be made by establishing L/C or cash against documents or wire transfer after receipt and installation of equipment. In no case advance shall be paid. The payment to be made in Indian Rupees to Indian Manufacture/Dealer, the payment shall be released only after successful supply, Installation, commissioning and demonstration of the Equipment.
- 15. The Notice inviting tender "Pilot Plant for Extraction of Protein from Deoiled Cotton Cake" issued to the vendor's along with encloses, each page duly signed under the seal of company should be returned along with their tender.
- 16. The conditional tender shall not be accepted and the tender from the vendor/vendors who have been blacklisted will not be accepted.
- 17. Cuttings or over writing if any should be attested with signature and seal of the company.
- 18. The Director ICAR-CIRCOT reserves the right to reject or accept any or all tender without assigning any reason thereof.

(Sujatha-Koshy)

Sr. Administrative Officer

Encl: Annexure I, II, III, &IV Copy to: In-Charge AKMU for publishing on website.





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ANNEXURE- I

TECHNICAL SPECIFICATION

NAME OF ITEM: "Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with other Equipment's/instruments" under DST (TDP) funded project. (Complete in all respect including connecting pipes, pumps etc. as similar to Automatic, 1 plant) Qty. as mentioned in front of each items.

Sr. No.	Specification/Requirement	
1	Extraction tank (1 No):	
	Specification	
	Volume of extraction tank = 100 to 150 Liters	
	Height of tank = 600 mm to 800 mm .	
	Diameter = 750 mm to 850 mm .	
	Wall thickness of tank = 10 to 12 mm.	
	Pump for lifting the solution from extraction tank to decanter/ centrifuge = 0.5-1 Hp or appropriate	
	Blades = 3 Propeller type blades on shaft attached to tank having differential speed	
	(adjustable) between 0-200 rpm for dissolving the meal into liquid solution properly	
	Motor of appropriate power for moving the propeller blade.	
	Construction material of tank = SS 316.	
	Holding stand/ trolley for tank having height 300 to 800 mm from ground.	
	Purpose: To dissolved cottonseed meal into aqueous salt alkali solution or so.	
2	Filter Pressing Machine (1 No.):	
	Specification	
	Filter pressing machine like paneer pressing machine	
	Throughput capacity of pressing = $5 \text{ L/h to } 10 \text{ L/h}$	
	Automation Grade- Manual	
	Inner mesh size- 80 – 100 Mesh	
	Construction material of tank/ holding should be SS 316.	
	Purpose: Used for separation of aqueous extracted cottonseed protein from liquid and a solid	
	mixture such as suspension	
3	Isoelectric protein precipitation tank (1 No):	
	Specification	
	Volume of extraction $tank = 100 \text{ L}$ to 150 L.	
	Fleight of tank = 600 mm to 900 mm .	
	Diameter will be 700 mm to 850 mm.	
	Finite motor for rotating the three propeller type blade = 0.5 to 1 Hp	
	3 propeller type blade attached to shaft and tank for dissolved the liquid solution properly	
	Differential speed (adjustable) = 0.200 rpm	
	Extraction tank will consists of attached nH sensor and temperature sensor for monitoring	
	solution pH and temperature during precipitation	
	sources private compositione during proophation.	
	Construction material of tank should be SS 316.	
	Holding stand/ trolley for tank having height 300 to 800 mm from ground.	
	Purpose: For separation of protein from the liquid extract after decantation / centrifugation.	

Spray Dryer (1 No) : Specification

Spray Dryer should be operated using inbuilt Electrical Heating system

Feeding content in spray dryer is liquid (slurry type) with dissolved protein solids. Feed rate of aqueous extracted protein solution having TSS 20-30 % is 4-5 kg/hr.

End Product moisture content less than 5 %.

Direct co-current type dryer with indirect heating system or as appropriate.

Evaporation rate of water is 2-5 kg/hr at 110 -330 °C

End product will be a dried protein powder.

Dried product will be 0.5 -1 kg/hr (depends upon TDS).

- Inlet air temperature range: 110 -330 °C
- Outlet air temperature range: 60-110 °C
- Operating temperature range: 100 -150 °C
- Product inlet temperature range: 20- 40 °C
- Product outlet temperature range: 40- 60 °C Required voltage 415 V/ 4 wire/ 3 phase, 50 Hz or as appropriate. Compress air is 4-6 kg/cm² or so. Water in CIP 1-3 kg/cm².

Feed pump will be 0.5 HP or as appropriate.

Material of Construction

- For air contact part (Hot / cold): SS 304 or higher as appropriate
- Product contact parts: SS 316 (As per CGM guidelines).
- Non- contact parts / stiffeners/ supports : SS/Mild Steel or as appropriate For storing the feed material, feed balance tank having cylindrical shape with conical bottom of capacity of 4 – 10 L.

Feed line of appropriate material is required to transfer the feed to the system from feed pump. Peristaltic type positive displacement feed pump or as appropriate will be required of capacity 4-10 lit/hr.

Atomizer system will be as appropriate as per specifications.

Filter media for air will be as appropriate.

Hot air duct of appropriate material to transfer the hot air to system from appropriate air heating system along with air distributer system (swirl type or as appropriate) to distribute the air in proper orientation.

Cylindrical co –current type drying chamber for drying of solution with 50¹¹ to 80¹¹ bottom conical angle (or as appropriate).

View glass + light glass will be ϕ 3" to ϕ 5".

Appropriate Product outlet valve.

Insulation material will be of mineral glass wool or as appropriate.

Conveying duct line used for to convey the air with fines for further process.

Single cyclone separator used to collect the fine protein powder having tangential entry with bottom conical with appropriate valve for product collection.

Conveying duct line will be to convey air to atmosphere.

Belt driven centrifugal type Blower or as appropriate to be used to generate sufficient vacuum with supplying air.

Automated control system along with data acquisition system having latest version laptop of reputed company like Apple/HP/Lenovo etc.

- Processor: Intel 11th Generation corei7
- Ram: 8 GB and above
- Screen Size: 14 inches and above
- Ilard Disk Size: 1 TB
- Hard Disk Type: SSD
- Operating System: Windows 11 Home / MAC OS

	Graphic Card Description: Integrated		
	• CPU Speed: 4.5 GHz and above		
	Power Backup: 8 hours and above		
	 In-built web camera (720p HD camera) 		
	Purpose: Convert aqueous extracted protein solution into fine dried powder of protein.		
	No. Above C. No. 1 to 4, should be secondate in all moment including compositing piper		
	Note: Above S. No 1 to 4, should be complete in an respect including connecting pipes,		
i I	pumps etc. as similar to Automatic or turnkey project, 1 plant and fit in 1 room of /m x 3m size (Indicative Plant layout is given as below).		
)	Intrared Dryer (1 No):		
	Dimension of infrared driver will be 750 mm \times 650 mm \times 350 mm or as appropriate according		
	to dryer.		
	Number of infrared lamps will be 3-6 or as appropriate.		
	Automatic distance sensor.		
	Type of lamp will be LED or as appropriate.		
	Range of temperature will be 40 to 100 °Cor as appropriate.		
	lechnology used in infrared dryer will be short wave or as appropriate.		
	Wavelength of radiation will be 2.5 μ m to 3 μ m or as appropriate.		
<i>y</i>	Device input for informed besting will be 1 to 6 KW or as appropriate.		
	Power input for infrared feating will be 1 to $\delta \mathbf{K} \mathbf{w}$ or as appropriate.		
	Automated control system along with data acquisition system		
	Material of construction will be SS 304 or as appropriate along with appropriate size		
	appropriate no of travs		
	Purpose: Used for pre-treatment on Cottonseed meal and dry the food products		
1 1			
6	Other Accessory/ Additional Items		
	1) Hand held Refractometer (range 0– 32 °Brix, 28- 62 °Brix and 45- 82 °Brix)-3 Nos.		
	2) Hand operated sealing machine -1 No		
	3) Pedal operated sealing machine -1 No		
	4) Stainless Steel rolling Cutter (pizza cutter) -2 Nos		

(Sujatha Koshy) Sr. Administrative Officer

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ANNEXURE-II

Technical Specification compliance statement form

NAME OF ITEM: "Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with other Equipment's/instruments" under DST (TDP) funded project. (Complete in all respect including connecting pipes, pumps etc. as similar to Automatic, 1 plant) Qty. as mentioned in front of each items.

Sr. No.	Specification/Requirement	Specifications Offered by Bidder (Yes/No)
1	Extraction tank (1 No):	
	Specification	
	Volume of extraction tank = 100 to 150 Liters	
	Height of $tank = 600 \text{ mm}$ to 800 mm.	
	Diameter = 750 mm to 850 mm .	
	Wall thickness of tank = 10 to 12 mm.	
	Pump for lifting the solution from extraction tank to decanter/ centrifuge = 0.5 - I Hp or appropriate.	
	Blades = 3 Propeller type blades on shaft attached to tank having differential	
	speed (adjustable) between 0-200 rpm for dissolving the meal into liquid	
	solution properly.	
ĺ	Motor of appropriate power for moving the propeller blade.	
	Construction material of tank = $SS 316$.	
	Holding stand/ trolley for tank having height 300 to 800 mm from ground.	
	Purpose: To dissolved cottonseed meal into aqueous salt alkali solution or so.	
2	Filter Pressing Machine (1 No.):	
	Specification	
	Filter pressing machine like paneer pressing machine	
	Throughput capacity of pressing = 5 L/h to 10 L/h	
	Automation Grade- Manual	
	Inner mesh size- 80 – 100 Mesh	
	Construction material of tank/ holding should be SS 316.	7
	Purpose: Used for separation of aqueous extracted cottonseed protein from	
	liquid and a solid mixture such as suspension	
3	Isoelectric protein precipitation tank (1 No):	
	Specification	
	Volume of extraction tank = 100 L to 150 L .	:>
	Height of tank = 600 mm to 900 mm .	
	Diameter will be 700 mm to 850 mm.	
	Thickness of Tank Wall = 10 to 12 mm.	
	Electric motor for rotating the three propeller type blade = 0.5 to 1 Hp	
	3 propener type blade attached to shart and tank for dissolved the liquid	2
	Solution property. Differential encode (adjustable) = 0.200 rpm	
	principinal speed (adjustable) – 0-200 rpm.	

	Extraction tank will consists of attached pH sensor and temperature sensor for monitoring solution pH and temperature during precipitation.	
1	Construction material of tank should be SS 316. Holding stand/ trolley for tank having height 300 to 800 mm from ground.	
	Purpose: For separation of protein from the liquid extract after decantation / centrifugation.	
4	Spray Dryer (1 No) : Specification	
	Spray Dryer should be operated using inbuilt Electrical Heating system Feeding content in spray dryer is liquid (slurry type) with dissolved protein solids	
	Feed rate of aqueous extracted protein solution having TSS 20-30 % is 4-5 kg/hr.	
1	End Product moisture content less than 5 %. Direct co-current type dryer with indirect heating system or as appropriate.	
	Evaporation rate of water is 2-5 kg/hr at 110 -330 °C End product will be a dried protein powder.	
	Dried product will be $0.5 - 1$ kg/hr (depends upon 105).	
	 Outlet air temperature range: 60-110 °C 	
1	• Operating temperature range: 100 -150 °C	
1	 Product inlet temperature range: 20- 40 °C 	
	• Product outlet temperature range: 40- 60 °C	
1	Required voltage 415 V/ 4 wire/ 3 phase, 50 Hz or as appropriate.	
1	Compress air is $4-6 \text{ kg/cm}^2$ or so.	
-	Water in CIP 1-3 kg/cm ² .	
	Feed pump will be 0.5 HP or as appropriate.	
	Material of Construction	
1	• For air contact part (Hot / cold): SS 304 or higher as appropriate	
-	• Product contact parts: SS 316 (As per CGM guidelines).	
	 Non- contact parts / stiffeners/ supports : SS/Mild Steel or as 	
	appropriate	
	For storing the feed material, feed balance tank having cylindrical shape with conical bottom of conceptuate $f_{A} = 10$ J	
	Freed line of appropriate material is required to transfer the feed to the system	
	from feed pump. Peristaltic type positive displacement feed pump or as	
	appropriate will be required of capacity 4- 10 lit/hr.	
1	Atomizer system will be as appropriate as per specifications.	
	Filter media for air will be as appropriate.	
1	Hot air duct of appropriate material to transfer the hot air to system from	
	appropriate air heating system along with air distributer system (swirl type or	
	as appropriate) to distribute the air in proper orientation.	
	Cylindrical co-current type drying chamber for drying of solution with 50% to	
	Now class \pm light class will be $\pm 3^{\circ}$ to $\pm 5^{\circ}$.	
	Appropriate Product outlet valve	
	Insulation material will be of mineral glass wool or as appropriate.	:,
	Conveying duct line used for to convey the air with fines for further process.	
	Single cyclone separator used to collect the fine protein powder having	
1.	tangential entry with bottom conical with appropriate valve for product	
	collection.	
	Conveying duct line will be to convey air to atmosphere.	
1	Ben driven centrifugal type Blower or as appropriate to be used to generate	

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	sufficient vacuum with supplying air.	
	 Automated control system along with data acquisition system having latest version laptop of reputed company like Apple/HP/Lenovo etc. Processor: Intel 11th Generation corei7 Ram: 8 GB and above Screen Size: 14 inches and above Hard Disk Size: 1 TB Hard Disk Type: SSD Operating System: Windows 11 Home / MAC OS Graphic Card Description: Integrated CPU Speed: 4.5 GHz and above In-built web camera (720p HD camera) Purpose: Convert aqueous extracted protein solution into fine dried powder of protein. 	
	Note: Above S. No 1 to 4, should be complete in all respect including connecting pipes, pumps etc. as similar to Automatic or turnkey project, 1 plant and fit in 1 room of 7m x 3m size (Indicative Plant layout given as below).	
5	Infrared Dryer (1 No) : Specification Dimension of infrared dryer will be 750 mm × 650 mm × 350 mm or as appropriate according to dryer. Number of infrared lamps will be 3-6 or as appropriate. Automatic distance sensor. Type of lamp will be LED or as appropriate. Range of temperature will be 40 to 100 °Cor as appropriate. Technology used in infrared dryer will be short wave or as appropriate. Wavelength of radiation will be 2.5 μ m to 3 μ m or as appropriate. Infrared heat source will be quartz infrared or as appropriate. Power input for infrared heating will be 1 to 6 KW or as appropriate. Blower will be required (range 1 to 3 m/s velocity). Automated control system along with data acquisition system. Material of construction will be SS 304 or as appropriate along with appropriate size appropriate no of trays. Purpose: Used for pre-treatment on Cottonseed meal and dry the food products.	
6	 Other Accessory/ Additional Items 1) Hand held Refractometer (range 0- 32 °Brix, 28- 62 °Brix and 45- 82 °Brix) Nos. 2) Hand operated sealing machine -1 No 3) Pedal operated sealing machine -1 No 	ч
	4) Stainless Steel rolling Cutter (pizza cutter) -2 Nos	

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Mark (YES) if specification offered is as per tender or better. If not, specify the specification offered. An item-by-item commentary on the purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provision of the Technical Specifications.

(Technical literature/broachers/manuals/ Actual photos of machines should be attached along with this format)

Please Note:-

1. Compliance/Deviation statement comparing the specification of the quoted model to the required specifications. This statement should also give the last page of the technical literature where the relevant specification is mentioned.

2. Bids must have supporting documents (technical) literature of copies of relevant pages from the service manual or factory test (data) for the points noted above, failure regarding which may result in rejection of bid.

SIGNATURE WITH STAMP OF 'THE BIDDERS

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Tel.: 24127273 Website https://circot.icar.gov.in e-mail: director.circot@icar.gov.in

ANNEXURE-III

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FORMAT FOR FINANCIAL BID

(To be uploaded in Financial Bid by Bidders along with the open tender duly completed signed)

NAME OF ITEM: : : "Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with other Equipment's/instruments" under DST (TDP) funded project. (Complete in all respect including connecting pipes, pumps etc. as similar to Automatic, 1 plant) Qty. as mentioned in front of each items.

Sr.	Specification	Unit Rate	Rs.
No.		(Rs.)	
1.	Basic Price		
2.	Excise duty		
3.	Freight Charges		
4.	Taxes if any (@, %)		
5.	GST As per applicable		
6.	Packing and forwarding charges		
7.	Delivery charges		
8.	Installation and Comissioning charges, if any		
9.	Any other charges (clearly state the same)		
	Gross Total		

Gross total cost Rs. (in figures)

We also confirm that the normal commercial warranty/guarantee ofmonth shall apply to the offered goods.

We have read, understood and accepted all the terms and conditions mentioned in the letter inviving quotation.

(Bidder)

Name:	E-mail:
Signature:	Phone No.:
Date:	Cell No.



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ANNEXURE-IV

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FORMAT FOR EMD / NSIC Certificate & GST No. /PAN No. etc

(To be uploaded in Technical bid by Bidders along with the open tender duly completed signed)

NAME OF ITEM: "Complete Pilot Plant for Extraction of Protein from Deoiled Cotton Cake along with other Equipment's/instruments" under DST (TDP) funded project. (Complete in all respect including connecting pipes, pumps etc. as similar to Automatic, 1 plant) Qty. as mentioned in front of each items.

Sr. No.	Particulars	Yes or No
01.	EMD Enclosed (if yes give details as follows)	
	a) D.D.No.	
	b) Date :	
	c) Bank Name:	
	d) Brach	
	OR	
	MSME /NSIC Certificate	
2.	Copy of PAN No. Enclosed	
3.	Copy of GST Certificate Enclosed	

Please Note:

Yes or No may be mentioned as per the document enclosed. The firm submitting limited tender must have valid GST/PAN No. etc., and copy of the same may be enclosed with their limited tender (To be submitted in Technical Bid) failing which their bid will be treated as non-responsive and rejected.

SIGNATURE WITH STAMP OF THE BIDDERS