



ICAR-Indian Institute of Seed Science

(Indian Council of Agricultural Research)
Kushmaur, Mau 275 103 (UP), INDIA

Phone : 0547-2530386, Fax : 0547-2530325, E-mail: admin.dsr@gmail.com



F.No.05-IISS/2016-17/S&P- 18

Dated: 20.01.2017

TENDER NOTICE

On behalf of President, ICAR, the Director, Indian Institute of Seed Science, Kushmaur, Mau (UP) invites e-Tender through Central Public Procurement Portal <http://eprocure.gov.in> for purchase of Equipment from manufactures firm and reputed dealers. This is an online tender, where only e-Tender will be accepted and no offline/hard copies will be accepted. The detailed specification, term & conditions and other information may be downloaded from IISS website www.seedres.in and Central Public Procurement Portal <http://eprocure.gov.in>.

A DD of Rs. 1000/- for each equipment as tender processing fee (non refundable) and EMD (for each items, as mention in tender document) should be paid by offline mode in shape of Demand Draft only which is payable to ICAR Unit DSR, Mau at Maunath Bhanjan. Two bid system will be followed for all items. Please quote the rate in Indian Rupees only.

CRITICAL DATE SHEET

Published Date	: 21.01.2107 (10.00 AM)
Bid Document download/Sate start Date	: 21.01.2017 (10.00 AM)
Clarification Start Date	: 21.01.2017 (10.00 AM)
Bid Submission End Date	: 13.02.2017 (11.00 AM)
Bid Opening Date	: 14.02.2017 (11.00 AM)

Tender Fee and EMD submitted to *Director, Indian Institute of Seed Science, Kushmaur, Mau 275103 (UP)* by offline on or before Bid Submission End Date and time positively by post, otherwise respective tender is not entertained.

(AJAY K. SONI)
Administrative Officer



ICAR-Indian Institute of Seed Science

(Indian Council of Agricultural Research)
Kushmaur, Mau 275 103 (UP), INDIA

Phone : 0547-2530386, Fax : 0547-2530325, E-mail: admin.dsr@gmail.com



F.No.05-IISS/2016-17/S&P-

Dated: 11.01.2017

SUB:-INVITATION OF TWO BIDS FOR TENDER FOR PROCUREMENT OF EQUIPMENTS – REG.

Dear Sirs,

On behalf of President, ICAR, the Director, Indian Institute of Seed Science, Kushmaur, Mau (UP) invites e-Tender through Central Public Procurement Portal <http://eprocure.gov.in> for purchase of Equipment from manufactures firm and reputed dealers. This is an online tender, where only e-Tender will be accepted and no offline/hard copies will be accepted.

- 1. Tender Processing Fee and Earnest Money (mentioned in Annexure-I) must be sent in the form of demand draft in favour of ICAR UNIT, DSR, Mau by offline in the name of *Director, Indian Institute of Seed Science, Kushmaur, Mau 275103 (UP)* on or before Bid Submission End Date and time positively by post, otherwise respective tender is not entertained.**
2. The tenders are liable to be ignored if complete information as required is not given therein or if the particular asked for in the schedules to the tenders is not fully filled in.
3. If the tenderer does not accept the offer, after issue of letter of award by Institute within 15 days, offer made shall be deemed to be withdrawn & earnest money forfeited.
- 4. FINANCIAL BID (Part B) shall consist of the Flat Discount Rate quoted by the bidder. Discount should not be linked with the quantum of the purchase order. All levies, taxes, packing, forwarding freight and insurance details, if any, should clearly be specified in the Financial Bid. No payment over and over the quoted details shall be made to the bidder.**
5. The tenderer should provide its full bank details (a/c holder name; a/c no.; name of the Bank & Branch; IFS Code, etc.) along with the Tender document for enabling the payments by e-mode.

6. **There should be no legal suit/criminal case pending or contemplated against the Agency/ Supplier on grounds of moral turpitude or for violations of any of the laws in-force. Also, the firms should not have been Black Listed by any Govt. Department. The Tenderer must enclose this declaration at the time of submission of bid.**
7. **Any legal/ financial complication on account of infringement of any Patent/ Copyright/ Trademark, etc. or on account of any other factor, due to an act of commission or omission on the part of the Tenderer/ Firm shall be the sole responsibility of the Tenderer/ Firm and the Institute shall be indemnified from any such pecuniary loss. A certificate to this effect should be mandatory provided.**
8. The supply should be made within the time frame mentioned in the Supply order. In case of any extension, prior approval of the office shall have to be taken. In case, the supply is not completed within the time limit, the supply order may be cancelled and the bid security may be forfeited.
9. Payment shall be made only on actual delivery in good condition. No advance or part payment request shall be made/ considered under any circumstances. Institute is not responsible for payment of transit insurance charges.
10. **All bidders shall give an undertaking that they fully and unconditionally agree to abide by all the terms and conditions which, if needed, may be modified at the discretion of the Competent Authority, in supply order, for which confirmation from the supplier shall be taken. OR ELSE they should sign and seal on every page of the Tender Document, which would show their unconditional acceptance of all the terms and conditions of the Tender Document.**
11. **Liquidated Damage Clause:** The purchaser is reserve all right to accept or deny to extension of delivery period. If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and/or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services

for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services, after which the order will be treated, cancelled. The liquidated damage will also include damage due to delay in supply, installation and training. Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay. The purchaser's letter (to the supplier, with copies endorsed to other concerned) extending the delivery period will be subject to the above conditions.

12. Warranty Clause: Manufacturer's standard warranty clause is acceptable.

13. Dispute Resolution Mechanism: If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and Conciliation Act 1996. The venue of the arbitration shall be the place from where the contract is issued.

14. You are also required to fulfil the following conditions and furnish the details as indicated in subsequent paragraphs.

- a) At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods and services as specified in the List of Requirements, without any change in the unit price or other terms and conditions.
- b) Please furnish a certified copy of your latest ITCC (Income Tax Clearance Certificate) or relevant supporting documents.
- c) Please indicate if you are currently registered with any Govt. Organization and if registered, furnish all relevant details.
- d) Please state whether business dealings with your firm presently stand banned by any Government organization and, if so, furnish relevant details.
- e) A supplier shall not submit more than one quotation for the same set of goods. No pooling should be done in association with any other supplier.
- f) The supplier shall at all times identify the purchaser, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
- g) The quotation and all correspondence and documents relating to the quotation Exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.

- h) The contract shall be governed by the laws of India and interpreted in accordance with such laws.
- i) The quotation/offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offers.
- j) In case, the successful bidder shows inability at any stage, after the contract is finalised and awarded for whatsoever reason(s), to honour the contract, the EMD/Performance Security deposited would be forfeited.

15. The firm whom the tender will be awarded, will have to deposit the performance security equal to 5% of the total amount tentatively arrived till such time the period of contract expires. If the supply/services are not found to be satisfactory, the performance security is liable to be forfeited.

16. Terms of delivery (at site): FOR item no. 5 to 15 at Regional Station, ICAR-IISS, GKVK Campus, Bangalore and remaining items no. 1 to 4 and 16 to 20 at ICAR-IISS, Mau

17. Erection/installation and commissioning (if required, depending on the goods ordered): Completed within 07 (seven) days of delivery of the goods at site.

18. The Institute will not be held responsible for any sort of postal delay received after stipulated date & time as specified above shall be deemed as summarily rejected.

19. *The purchaser reserves the right to accept or reject any or all quotations at any time prior to or after supply order, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tenderer or tenders.*

The following documents are to be furnished for Pre qualification Criteria by the Tenderer along with Technical Bid as per tender document.

S. No.	Particulars	Yes/No
1.	Tender Fee	
2.	EMD enclosed or not	
3.	Signed and scanned copy of appropriate value of valid registration certificate	
4.	Pan No.	
5.	Tender Acceptance Letter	
6.	Signed and scanned copy of Income tax/VAT tax return/latest VAT clearance Certificate, TIN No. Certificate	
7.	Signed and scanned copy of completely filled Technical Verification data sheet must be submitted for each quoted configuration	
8.	Signed and scanned copy of make and model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.	
9.	In case of dealer/supplier authorization certificates from manufactures firm in the Name of Director, ICAR-IISS, Mau to submit the tender (Annexure-V)	
10.	A certificate should be enclosed that fulfil all the work/supply order of respective department/ICAR institutes within time limit with satisfactory (Annexure-IV)	

Certificate

I have read and understood the Terms & conditions contained in the Tender Document governing in www.seedres.in and <http://eprocure.gov.in> and I agree to abide by the same and against which this technical bid is submitted.

Signature of Tenderer

PRICE BID UNDERTAKING

From:

Full Name and address of the Bidder.....

.....
.....

To,

**The Director
ICAR-Indian Institute of Seed Science
Kushmaur, Mau – 275103 (UP)**

Dear Sir,

I submit the Price Bid for and related activities as envisaged in the Bid document.

I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.

I offer to work at the rates as indicated in the price bid inclusive of all applicable taxes except Service Tax.

Yours faithfully

Signature of authorised Representative

Annexure-1**LIST OF REQUIREMENTS**

S.No.	Name of items	Qty. needed	Bid Security (EMD) in Rs.
1.	Electro spinning unit	01	30,000
2.	Hot Air Oven	02	6,000
3.	Digital Moisture Meter	01	6,000
4.	Vacuum Seed Scounter	01	15,000
5.	Centrifuge	01	3,000
6.	Horizontal Electrophoresis System	01	6,000
7.	Power Pack	01	6,000
8.	Microwave oven	01	1,500
9.	Digital computer aided microscope camera	01	4,500
10.	Electronic balance	01	6,000
11.	pH meter	01	3,600
12.	Magnetic stirer	01	600
13.	Double Distillation Unit	01	2,250
14.	Purity work board	01	900
15.	BOD Incubator	01	9,000
16.	PCR Machine	01	11,400
17.	Seed Counting Machine	01	2,250
18.	Spectrophotometer	01	15,000
19.	Forklift Machine	01	36,000
20.	Automatic Seed Treatment, Weighing and Bagging System	01	45,000

A DD of Rs. 1000/- for each equipment as tender processing fee (non refundable) and EMD (for each items, as mention above) should be paid by offline mode in shape of Demand Draft only which is payable to ICAR Unit DSR, Mau at Maunath Bhanjan. Two bid system will be followed for all items. Please quote the rate in Indian Rupees only.

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SPECIFICATION

1. ELECTROSPINNING AND ELECTROSPRAYING

Voltage Control	ON-OFF toggle switch, potentiometer dial
Voltage Output	Voltage: 0 - 40 KV (suitable voltage for nanofibre production {60KV optional}) Current: 0.5 mA or suitable current for nanofibre production
Fluidic Control	Software controlled for syringe pump (Co axial syringe pump additional)
Safety Installations	Polycarbonate safety cover with grounding strips HV interlock actuator switch engaged by safety cover door
Emitters	Set suitable for production of nanofibres
Collector	Suitable for uniform seed coating along with standard collectors
Camera (optional)	1 to 2 MP, 1/3" CCD, monochrome camera 1296 px x 964 px at 15 to 20 frames per second USB 2.0 interface

- Installation and demonstration is mandatory.

2. Hot Air Oven

1. Double walled for highly efficient heat retention
2. Capacity: internal 50-100 litres with minimum three shelves and three stainless steel adjustable trays
3. Heat circulation: natural convection or forced air type
4. Temperature control: digital PID microprocessor controller with LCD display
5. Temperature set range: 5°C above ambient to 300°C with resolution of 0.1°C
6. Enabled with digital countdown timer module and target time starts only after attainment of set temperature
7. Over temperature limiter enabled temperature controller
8. Enabled with diagnostic system for error detection with calibration set points.
9. Electrical source: 220-240 V, 50Hz.
10. Minimum one year warranty with full service support

3. Digital Moisture Meter

1. Principle: works on the principles of electrical conductivity
2. Quick, reliable and consistent for testing moisture of wide range of field & vegetable crops
3. Moisture test range: 5% to 30% or above
4. Test time: 10 seconds or less
5. Accuracy: 0.5% or less

6. Replication error: less than 0.2%
7. Power supply: both AC and DC
8. Type: Hand held weight not more than 800 to 900 grams
9. Multipoint calibration option with bright LCD display
10. Automatic compensation for temperature and weight along with volume-weight conversion display
11. Minimum one year warranty with full service support

4. Vacuum Seed Counter

1. Complete vacuum seed counting system.
2. The cabinet is of hard board veneer
3. Completely self- ventilated and insulated on casters.
4. Oil less vacuum pump inclusive of standard muffler, filter, gauge with relief valve and foot switch.
5. 5' hose with swivel connector
6. System to be supplied with 3 flat counting heads (1 set of 100, 50 & 25 holes per head suitable for paddy & wheat); 3 flat counting heads (1 set of 100, 50 & 25 holes per head suitable for green gram & lentils) and 3 round counting heads (1 set of 100, 50 & 25 holes per head suitable for small seeds like clover, mustard & pearl millet)
7. Minimum one year warranty with full service support

5. Centrifuge

- Rotors for 1.5/2.0 ml, 10/ 50 ml
- Digital display of time and rpm
- Built in power supply
- Rotor requirement:
 - a) Capacity 24 X 1.5/2ml max. 14000 rpm or more
 - b) Capacity 6 X 50 ml max. 14000 rpm

6. Horizontal Electrophoresis system

- Running Noise: up to 70 dB
- Horizontal gel system
- No. of samples: Minimum 192/run
- Gel casting tray size: 24 X 24 cm or more
- UV transparent gel tray
- Comb No.: 4 (52 tooth comb) and 4 (26 tooth comb) per unit
- Multichannel compatible
- Safety lid
- 3 years warranty

7. Power pack

- Power supply with digital display

- Output type: constant voltage, constant current, constant power with auto cross over
- Voltage: 5 to 500 V
- Current: 2000 mA or more
- Power: 300 W
- Terminals/sockets: 4 pairs
- Power leads: 8 pairs
- 3 years warranty

8. Microwave oven

- Capacity: 27 litres or more
- Power output: 800 watt or more
- Stainless steel interior
- Built in calibrated power settings
- Digital count down timer, accurate to 1 to 2 seconds.

9. Digital computer aided microscope/camera

- Zoom ratio: 8 :1 or more
- Total magnification in the range of 10X to 100X or more
- Should be with eye piece of 5X and 10X
- Zoom optics should be apo-chromatically corrected
- Light source both from top and bottom should be there
- Eye piece tube with inclination angle of 20⁰ or more
- Digital colour camera should be up to 5 MP or more resolutions with USB port for transfer of data from camera to computer and should capture images in the data format like JPEG, TIFF and BMP
- Suitable software for operating attached camera/microscope and processing captured images

10. Electronic Balance

- Weighing capacity: 200g to 300g
- Readability: 0.0001g
- Pan Size: 80mm x 80 mm (±10mm)
- With tare function
- Digital display for better viewing
- Dynamic Temperature compensation
- Doors or cabinet with facility to open doors on three sides
- Stabilization time 1.5 to 3 seconds
- Repeatability: 0.01 to 0.04mg with a test weight of 10g
- Overload protection

11. pH meter

- Warranty : 2 years or more
- pH range: 0.00 to 14.00 pH
- Accuracy: 0.01 to 0.025 pH
- Micro- processor based pH system with electrode and temperature Probe (Auto Temp. compensation)
- 3 points calibration.

12. Magnetic stirrer

- Easy-to-Read Custom LCD Display
- Stability Indicator, Self-diagnostic.
- Hot plate with magnetic stirrer
- Heating plate temperature: ambient to 250°C Stirring speed 1600 rpm or more
- Stirring capacity 250 ml or more
- Heating power variable control with LED indicator
- Magnetic stirrer variable control with LED indicator

13. Double distillation unit

- Capacity: 2 litres/hour
- Comprising borosilicate condenser and boiler system covered with cabinet.
- With Gate valve which conserves cooling water wastage during power failure
- Flow control safety which enables to use under low pressure sources.
- A level sensor should be there for safety of boiler in the event of no water in the boiler.
- pH of water: 6.0 to 7.0
- EC (approx.): less than 1.0 $\mu\text{S}/\text{cm}$
- Safety device to protect still in the event of coolant or feed water failure.

14 . Purity work board

- Purity Work board should be with Diaphanoscope and should provide a convenient work area on a smooth opal glass surface for seed and grain analysis
- Light should be there below the opal glass
- Convenient drawer should be there in the front for larger seed lots.
- Should be fitted with a magnifying glass covering the entire surface of opal glass.

15.BOD Incubator

- Size: 50 -80 x 25-40 x 10 -15cms
- Temperature range 5°C to 60°C (with accuracy $\pm 0.5^\circ\text{C}$)
- Microprocessor based temperature control with efficient sensor system
- Intelligent controller system for maintenance of temperature in case of sensor failure
- Auto tuning of controller and self-diagnosis of errors
- Illumination system – fluorescent tube
- Stainless steel body (Internal)
- Powerful fan motor system for maintaining uniform conditions inside chamber
- Hermetically sealed compressor with CFC free refrigerant
- High grade high pressure foamed insulation between outer and inner chamber for minimal thermal loss
- Facilities for adjustment of shelves without difficulty.

- High temperature safety cut off system
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Efficient voltage stabilizer compatible with the cooling incubator
- Capacity of inner chambers: 50 litres or more.
- Warranty for at least 2 years

16. PCR SPECIFICATION

Power requirement/Power consumption	100-240V, 50/60Hz of AC/ 490 W
Heating cooling system	Peltierelement
Ramp rate of Heating	3.0°C/sec.
Ramp rate of Cooling	2.0°C/ sec.
Block temperature control range	4-99.9°C
Block temperature accuracy	±0.5°C
Block temperature uniformity	±0.5°C
Exaggerated shot	Less than 0.5°C
Heated lid	110°C
Temperature extension	Maximum of ±9.9°C
Time extension	Maximum of ±9.59 minutes
Sample capacity	96 × 0.2 mL Tube or 96 well PCR Plate
Display	Blue / white dot matrix LCD (240 × 60 dots)
PCR reaction volume setting	5 micro liter to 150 micro liter
Safety devices	Power switch with 10A over-current breaker Lid Heater temperature fuse Thermal guard for reaction block heater plate
Number of maximum Program stored	Not less than 100 programs
Number of the maximum user name registration	Not less than 20 users
GRADIENT function	Range which can be set up: 40-75°C (temperature variance : 6-20°C) 12 well Gradient Gradient is set with the first and 12 th rows (right end and left end rows) of a heat block (96 wells).

CE Certificate should be attached

It should be minimum eight types of preset protocols (PCR programs). Adjustable Ramp Rate

Should be attached certificate of analysis (calibration sheet)

Application	It should do Annealing / extension temperature in 3- step as well as in 2- step Gradient PCR also. Touch down PCR
Compatible UPS and stabilizer:	Must be supplied with PCR
Standard Warranty	Should be 1 Year

17. Seed Counting Machine

- Built-in feeder bowl capacity – 180-250 cc.
- Machine weight – not more than 25kgs.
- Adjustable sensor sensitivity depending on the size of the seed.
- Power: 220 W / 50 Hz
- Display: LCD
- Provision to connect with PC to generate seed count data in Excel.
- No. of seeds count: 1-9999 or more.
- Precise speed control mechanism with min. of two control options.
- Provision to attach an automatic rotating table and external feed hopper.
- Accessories:
 1. External / detachable feed hopper with adjustable flow rate in addition to in-built feeder bowl.
 2. Automatic rotating table for counting the seeds in batches.
 3. Stainless steel cups

18. UV-VIS Spectrophotometer

Microprocessor based UV-VIS Spectrophotometer with in-built high resolution LCD display and dedicated soft keypad, for operation on 220V / 50Hz should have the following basic features.

- Standalone operation as well as complete control through PC with software.
- True double beam optics with concave blazed holographic grating in Czerny – Turnermounting.
- Wide wavelength range of 190 – 1100 nm or higher
- High resolution 1 nm spectral bandwidth over entire wavelength range
- Wavelength setting and display in steps of 0.1nm
- Wavelength accuracy of ± 0.1 nm for D₂ spectral line
- Wavelength reproducibility of ± 0.1 nm
- Wide Photometric range of -4 to +4 Abs and 0 to 400 %T

- High Photometric Accuracy of ± 0.002 Abs at 0.5 Abs
- Very low baseline drift of 0.0003 Abs/hour
- High baseline flatness of ± 0.0006 Abs over entire wavelength
- Ultra low Photometric noise of <0.00010 Abs
- Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover
- High sensitivity matched pair Silicon Photodiode detector
- 4 or more USB ports for high speed PC and printer connectivity, data storage and transfer through USB pen drive.
- Powerful Windows based Spectroscopy Software to be supplied as standard.
- All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in stand-alone and PC mode. Additionally Multi-Component measurement should be available in stand-alone mode.
- Large sample compartment compatible with wide range of accessories.
- Following nine hardware validation parameters are to be built-in:
 - Wavelength Accuracy; Wavelength Repeatability; Spectral Bandwidth; Baseline Flatness; Baseline Stability; Noise Level; Photometric Accuracy; Photometric repeatability and Stray Light.
- Data should be readable with commercial spreadsheet software.
- Essential Accessory:
 1. Computer installed with all necessary softwares to operate the spectrophotometer.
 2. 1 KVA Sinewave UPS with Battery (min. back up of 2 hours or more).
 3. Three pairs of quartz cuvette (3 ml)

19.Forklift Machine

Particulars	Specifications
Load Capacity	1 tonne / 1000 kgs.
Overall Width of machine	1000-1200 mm
Turning Radius (outside)	Less than 1500 mm
Overhead Guard Height	Less than 2 metre
Fork Height	Up to 3 metres
Power	Battery Operated
Operator Position	Rider Seated
Free Lift	More than 100 mm
Fork Thickness	25-30 mm
Fork Width	100-150 mm
Fork Length	750-1000 mm
Fork Spread	200-800 mm
Tilt Range	5 degree in both FW/BW
Length to Fork Space	Less than 200 cm
Mast Lowered Height	Less than 200 cm

Mast Extended Height	More than 350 cm
Travel Speed (max) with Full Load	More than 10 km/hour
Lifting Speed (max) with Full Load	More than 400 mm/sec.
Lowering Speed (max) with Full Load	More than 500 mm/sec.
Total Weight of machine	Not more than 2500 kgs.
Brake Type	Dry Disc
Battery	48V / 280 Ah
Electric Motor	4.5 – 5.0 kW
Tyre Type	Pneumatic
Load Control Type	Transistor Inverter
Drive Control Type	Transistor Inverter

20. Automatic Seed Treatment, Weighing and Bagging System for 2 TPH Capacity Seed Processing Plant

S. No.	Items	Quantity
1.	Vertical Bucket elevator of 3 TPH capacity on wheat basis (one each for seed treatment and weighing & bagging system) (All sheet metal component; components- spouting, discharge valve, boot plate, service platform, take-up unit, feed control gate etc); HDPE self-cleaning type bucket mounted on rubberised belt with speed of 1m/sec. powered by 1 HP motor	02
2.	Continuous type seed treater of capacity 2-3 TPH on wheat basis Powered by suitable motor drive for mixing, spinning and volume wheel mechanism. Premix Tank of 150-200 litre capacity and Powder Feeder/ hopper system enabled for seed treatment (Suitable for seed treatment of various field crops; mechanism for treatment in liquid, mist and powder forms; fully automatic dosage system enabled with dosage calibration and feed control sensors; sensor monitored seed and formulation flow mechanism; automatic shutdown of treater if seed flow is interrupted and vice versa.	01
3.	Bagging bin of 3 TPH capacity (GI sheet make with hoppers bottom, supporting pipes of suitable capacity and manually operated spouts with see through window)	01
4.	Automatic weighing and bagging system with weighing and packing range of 5-50 kgs (mechanism- automatic/ manual; suitable for field crops; automated weighing mechanism with accuracy of ± 1 to 5 gms; digital display panel for easy monitoring; supplied with all accessories like weigher hopper with pneumatic discharge, feed gate with coarse and fine adjustment, bag holding clamps, air compressor for opening of feed/ release gates powered by motor of minimum 3-4 HP etc. necessary for accurate operation of machine. Heavy duty bagging system with minimum 500 bags per hour capacity; suitable for jute, paper, cloth and poly bags; foot switch operated conveyor belt)	01

Annexure-III

Name of the Firm :

Registered/Postal Address :
.....
.....

1.	Phone number/Mobile number	
2.	E-mail Address	
3.	PAN No.	
4.	VAT/TIN no., if applicable	
5.	Bank Details : Bank Name Branch Address Account no. Type of account (Current/Savings)	

DECLARATION BY THE TENDERER

1. I have read and understood the tender terms and conditions relevant to Tender Document
2. I have submitted the Technical Bid in accordance with the Terms and Conditions of the above Tender Document.
3. The information furnished in the Technical Bid are true and factual and I clearly understand that our tenders are liable for rejection, if any information furnished is found to be not true and not factual at any point of time.
4. I would abide by the terms and conditions governing this tender. In case if I fail to supply as per requirement, I would be fully responsible for all the consequences that may arise and IISS can exercise appropriate action like black listing in addition to forfeiting of EMD. I shall pay the difference of higher cost involved and other related expenses paid if any for supply of the product.
5. The Commercial Bid is separately submitted against this tender.

**SEAL & SIGNATURE OF THE
TENDERER**

CERTIFICATE

This is to certify that our firm..... is dealing with various organization of Central/State Govt./ICAR institutes form..... years. We have fulfil all the work/supply order of respective department/ICAR institutes within time limit with satisfactory.

(Name and address of the tendering firm)
Seal & Sign of the tendering firm

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MANUFACTURER'S AUTHORISATION FORM

To
The Director,
ICAR- Indian Institute of Seed Science
Kushmaur, Mau (U.P.) 275103

Ref: your Bidding Documents No.....dated.....

Dear Sir,

We....., who are established and reputable manufacturers of
..... (Name and description of the goods offered in the bid) having factories at
..... hereby authorize Messrs.....
(name and address of the agent) to submit a bid, negotiate (as and if necessary) and conclude the contract with you against your above mentioned Bidding Documents for the above goods manufactured by us.

No company or firm or individual other than Messrs
(name and address of the above agent) is authorized to bid, negotiate and conclude the contract against this specific Bidding Documents for the above mentioned goods manufactured by us.

We hereby extend our full guarantee and warranty as per clause xii of the General Conditions of Contract, read with modification, if any in the Special Conditions of contract for the goods and services offered for supply against this Bidding Document by the above firm.

Yours faithfully,

(Signature name and designation)
for and behalf of Messrs.....
[name & address of the manufacturers]

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. The authorization Certificate should be from the "Manufacturer" only and certificate from any other firm/person including OEM arrangements would not be accepted.