



नगालैण्ड विश्वविद्यालय
NAGALAND UNIVERSITY

(संसद द्वारा पारित अधिनियम 1989, क्रमांक 35 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)

(A Central University Established by the Act of Parliament No. 35 of 1989)

School of Agricultural Sciences & Rural Development

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Ref. No....SAMN/ADMN/PRJ/E-149/2016 - 918

Date...03.08.2017

NOTICE INVITING TENDER

Sealed rate quotation are invited from reputed manufacturers/authorized dealers/registered suppliers for supply of Instrument/Machinery for Seed Hub Project under the Department of Genetics & Plant Breeding, SASRD, Nagaland University, Medziphema. The lists of items with technical specifications are enclosed along with the terms and conditions.

The last date for submission of the tender is 30.08.2017 during office hours. Incomplete tender shall be summarily rejected. The University authority reserves the right to accept and reject any tender without assigned reasons whatsoever.

Sd/-

(T. LANUSOSANG)

Pro-Vice Chancellor

Copy forwarded to:

1. The Finance Officer, Nagaland University, Lumami, for information.
2. Dr. Pankaj Kumar Shah, Nodal Officer, Seed Hub Project, NU, SASRD, Medziphema.
3. System Administrator, Nagaland University, Lumami with a request to upload the above notice along technical specifications and terms and conditions in the NU Website immediately.
4. Notice Board.
5. Office copy.


(VEKHOI TETSEO)
Assistant Registrar



NAGALAND UNIVERSITY
(A Central University Established by an Act of Parliament 1989)
SCHOOL OF AGRICULTURAL SCIENCES & RURAL DEVELOPMENT
CAMPUS: MEDZIPHEMA - 797106 NAGALAND

Terms and conditions

1. The tender fee of Rs.500.00 (Rupees Five hundred) only in the form of Crossed Demand Draft in favour of the SASRD, Nagaland University, Medziphema (not refundable) has to be paid. The tenderer shall have to submit the fee along with their tender.
2. The tender submitted by the tenderer shall remain valid for a period of 90 (ninety) days. Tenders not conforming to this provision must be treated as non-responsive and rejected.
3. The rates should be quoted FOR destination (SASRD, NU Medziphema) only.
4. The equipments/materials shall have to be delivered at SASRD, Nagaland University, Medziphema strictly within 30 (thirty) days from the date of issue of the supply order.
5. There should not be any overwriting / Corrections if any should be made by crossing out, initialing with date and re-writing.
6. Tenderer shall quote rates for all the items individually.
7. Wherever applicable, DGS & D rates will be preferred.
8. Rates should be quoted clearly both in word and figures separately for each item, without which the quotations shall stand rejected.
9. The prices quoted shall be fixed and not subject to adjustment/variation during the performance of the contract.
10. The warranty of the items shall be as per the prevailing warranty policy/certificate of the manufacturer for the items and the warranty period shall not be less than twelve months from the date of commissioning of the items at site. The tenderer shall furnish the warranty for all the items at the time of delivery and commissioning. The purchaser shall reject the item not enclosed by the warranty certificate from the manufacturer. The warranty certificate should be duly signed and sealed.
11. The supplier shall provide free maintenance services during the period of warranty. Any repair and maintenance including provision of spare parts (covered of manufacturer's warranty certificate) during the warranty period shall be supplier's responsibility.

12. Detailed specification with make, model, size, code no. catalogue, name of manufacturer should also be furnished. ISO certification must be furnished for the offered Make where applicable.
13. Attested copies of dealership certificate and company's printed price list must be enclosed with the quotations.
14. Up to date GST clearance certificate duly attested must be submitted with the tender.
15. Payment by A/c payee cheque on State Bank of India shall be made after receipt of the equipments in good condition (installation and Demonstration where necessary). The supplier will have to furnish a certificate of successful installation from the Head of the Department of Genetics & Plant Breeding, SASRD, NU, Medziphema before receiving the cheque.
16. Wherever the laws and regulations require deduction of taxes at the source of payment the purchaser shall effect such deduction from the payment due to the supplier, the remittance of amounts so deducted and issuance certificate for such deductions shall be made by the purchaser as per the laws and regulation in force.
17. Every page of the original tender is to be signed by the tenderer indicating their acceptance of terms and conditions.
18. The tender shall be duly super-scribed at the top of the cover "Tender for supply of Equipments for Seed Hub". The tender with all the specifications, certificates etc and terms and conditions must be addressed to The Dean, SASRD, Nagaland University, Medziphema-797106.
19. **The last date for accepting the tender is 30 August 2017.** The tenders received after the due date would not be entertained and no communication would be made thereof by the Nagaland University.
20. The purchaser reserves the right to accept or reject any tender and to cancel the process and reject all tenders at any time prior to award of contract, without thereby incurring any obligation to the affected tenderer or tenderers or any obligation to inform the affected tenderers of the grounds for the purchaser's action.
21. We look forward to receiving your tenders and thank you for your interest in this project.

Sd/-
(T. LANUSOSANG)
Pro-vice Chancellor

TECHNICAL SPECIFICATIONS FOR PULSES SEEDS PROCESSING PLANT CAPACITY ONE TON PER HOUR AND MINI DAL MILL ON TURN KEY BASIS

Under the project Seed Hub; seed processing plant cum seed store is proposed to be constructed at SASRD. For seed processing following equipments/machineries would be required. The technical specifications of required items are mentioned as under.

1. UNIVERSAL MOISTURE METER : - 1 No.

The moisture meter digital type is required to test the moisture content of pulses seeds at seed processing plants. The moisture meter should have the following technical specifications.

Digital Type Moisture Meter Specially designed for seeds:

- **Construction : Stainless Steel Body**
- **Test Cup Visible made of stainless steel round in shape.**
- **Seven fluorescent numeric display (FND) for digital display of Moisture reading.** The required sample cup and pressure for selected commodity is displayed for reference to the user to use the correct sample cup and correct pressure.
- **Five Push wheel Switches for selection of commodity, checking and setting Date/Time, setting Depositor name, and review of stored readings along with their Date, Time and other details.**
- **PT 100 Temperature Sensor made of Platinum metal.**
- **Bluetooth connectivity in MM complete with box & accessories tested & proven in the field for various crop seeds.**
- **Weight of Moisture Meter 18 Kg.**

2. FINE CLEANER CUM GRADER : 1 No.

Fine cleaner cum grader machine specially designed suitable for various Pulses crop seeds with compressed and laminated wooden sieve deck, **three screen Layers**, bouncing ball screen cleaning system & **screw auger for rejected seeds outlet**, two aspirations, having following Specifications. The specialty of this cleaner cum grader is **total travel length of available perforated screen is largest around 440 cm giving highest opportunity to all seeds to come into contact with screen apertures and thereby very high cleaning and grading efficiency.**

Input Capacity	: 01 Ton/hr Wheat Basis
Fan Motor	: 03 HP.
Sieve Boat Motor	: 01 HP.
Sieve Boat Construction	: Compressed seasoned laminated wooden sieve deck.
Travel Length of seeds on Screens	: Around 440 cm
Top Screen	: 80.0 cm x 51.5 cm (LxB) 1 No.
Middle Screen	: 60.0 cm x 51.5 cm (LxB) 3 No.

Bottom Screen	: 60.0 cm x 51.5 cm (LxB) 3 No.
Total Area of Screens	: 2.266 Sq. M.
Deck Oscillations	: 300 – 320 RPM
Perforated Screens	: CNC punching minimum thickness of screens 1 mm with wooden frame.
Frame MS channel for Structural Stability	: 15.50 cm x 5 .0 cm x 0.3 cm
Sieve Cleaning System	: By Bouncing rubber balls.
No. of Aspirations	: 02 Nos. pre & post aspirations
Feed Roller	: Steel roller dia. 80 mm for Uniform Seed Feeding on screens
Auger	: For impurities Outlet.
Bearings	: SKF/NTN
Motor Make	: Crompton/Siemen
Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of Pulses seeds.	
Supply	: 440V, 3 Phase AC.
(a) Air Trunk and Cyclone dust Collector	- 01 Set
(b) Additional Sieves	- 03 Set

3. VERTICAL BUCKET ELEVATOR: 2 no.

The V.B. Elevators are required to carry seeds from feeding hopper at floor level to machinery hopper at elevated point. This machine is made of M.S. Sheets body, rubber belt moving on pulleys and buckets for carrying seeds. The boot section of elevator should be self cleaning type and openable shutter on one side of boot section and with wire mesh cover on input hopper.

The supply, installation commissioning of V.B. Elevator for Seed Cleaner cum Grader suitable specifically for Pulses seeds should have following technical specification:

Capacity	: 02 Ton/hr Wheat Basis
Type	: Centrifugal Discharge
Bucket Material	: Nylon Size 10 cm * 10 cm
Belt	: Rubberized wooven 5 Ply
Speed Reduction	: By Gear Box of Suitable Gear ratio
Elevator Motor	: 1 HP Crompton/Siemens
Gear Box	: Suitable gear reduction ratio make Radicon/ Elecon/Power Build
Construction	: Standard MS Sheet boot section min. 2.50 mm, Middle section Min.1.60 mm, Top Section Min.2.0 mm
Accessories	: Service Platform, Ladder Starter etc

4. GRAVITY SEPARATOR 01 No.

The machine is specifically designed for pulses seeds to handle seeds smoothly to seeds meant for removing impurities and achieving very high grading quality in any free flowing pulses seed & all type of seeds etc. It removes the impurities, light shrivelled seeds, broken and damaged seeds and upgrades the seeds on the principal of specific weight.

Salient features:

- Rectangular type wooden and steel deck for greater capacity and accuracy, durability and quickly & easily interchangeable type.
- Fans are dynamically balanced with individually adjustable air control for each fan for precise control of air flow.
- Variable oscillation speed of deck in wide range with the help of VFD.
- Variable inclination of deck side wise and length wise.
- Seed collecting spouts are rubber/soft coating fitted with bag holding clamps.
- Feeding Hopper with rubber/soft coating for uniform feeding on deck.
- Air filter windows with fine wire mesh.
- Overall Machine size : L – 2.05 M W – 1.36 M H – 1.30 M
- Deck size of machine : L – 1.58 M W – 0.90 M

Specification:

Capacity : 01 Ton/hr Wheat Basis
No. of fans : 03
Type of deck : Rectangular type,
Electric Motor : 5 HP (Blower) and 1.5 HP (DECK OSCILLATION) 3Ph
50 cycle AC supply make Crompton/Siemens,
CRCA sheet for body with min thickness 4 mm for less sound and structural stability.

5. Mini Dal Mill Machine : 1 No.

The commercially tested Dal Mill preferable approved design by Central Institute of Post Harvest Engineering and Technology (CIPHET), Ludhiana, and ICAR.

The Dal Mill should have following technical specifications.

- Capacity : 120 to 210 kg/hr (Pigeon Pea)
- Electrical Power : 3.0 HP AC motor with starter
- Type of drive : V belt Pulley through shaft
- With hopper for feeding the grain and with horizontal cone type abrasive roller for dehulling of grain with provision of inlet and outlet controls.
- Main Parts of Dal Mil: Main De husking Chamber, Emery Roller Cylinder, Hopper, Splitter, Grader Sieve, Pre treatment Oil Tank, Screw Conveyor, Suction blower, Cyclone etc.
- With three different outlets for separation of Dal, Gota, and broken.

6. Control Panel : A central electric control panel equipped with main on and off switch, volt meter, change over switch, ammeter, phase indicator, emergency switch, contactors with protective relays and fuses make L & T, Crompton, Siemens, Anchor, ABB . All cables make Polycab and wires Anchor etc.

7. Elevator Pit Cover: Pit cover made of MS sheet 2 mm thickness and MS angle 35 mm * 35 mm * 3 mm size for frame to be grouted into concrete floor with handle and small stair in pit.

8. Hand Operated Stitching Machine Suitable for stitching on all types of paper, cotton, jute and poly bags. 01 No.

SPECIFICATIONS:

Type of stitch : Single thread chain stitch

Sewing Speed : Maximum 1600-1800 stitches per minute

Stitch length : 3.5 stitch per inch (fixed)

Cutter Type: Mechanical

Dimensions: 30 cm W x 33 cm D x 30 cm H

Weight : 6 Kg

Power Requirement: 0.1 HP, 8000 rpm 220V, 1.3 amps

9. Platform Type Weighting Scale 01 No.

Standard Features

- ✓ Rugged and robust construction.
- ✓ Bright LCD easily readable display.
- ✓ Microprocessor-controlled.
- ✓ Precision load cell.
- ✓ High resolution.
- ✓ Built in Tare facility.
- ✓ Kg, lb & oz units.
- ✓ Matt finish Stainless Steel Platform.
- ✓ Parts counting and percentage Function.
- ✓ Calibration Facility.
- ✓ Membrane Keyboard.
- ✓ Data output RS232.
- ✓ Overload protection.
- ✓ Provided with A.C. Adaptor.

10. Spiral Grader Medium sized with following Features: 01 No.

- ✓ Capacity 200 kg per hour for pulses seeds
 - ✓ Cleaning height 2.20 meters
 - ✓ Diameter of spirals 0.60 m
 - ✓ Thickness of GI sheet 14 gauge
 - ✓ Total weight should not be more than 40 kg.
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Other terms and Conditions:

1. All these above 10 numbers of machines in one set have to be installed in the processing hall with especially compact design & space oriented installation drawings with specialty technical services to save Pulses Seeds from mechanical damages & saving in human power during seed processing operations should be the specialty of complete seed processing plant for Pulses seeds.
2. Annual Turn-over of tender participants: The annual turn-over of the company should not be less than Rs. 7.50 crores (Rs. Seven crores fifty lakhs) for the last three consecutive years.
3. **PRICES: Prices are FOR Destination Basis including Packing, Forwarding, Freight and Insurance. All the quoted prices must be including GST, Sales Tax Octroi & Entry Tax.**
4. Govt. orders: The tenderer should have supplied at least five numbers of seeds/grain processing plants in Govt/public Dept. during last three years. The performance reports of these five seeds/grain processing plants should also be attached. Else tender technical bids will be rejected.
5. Commercial test report of Dal Mill from ICAR, GOI testing Institute has been enclosed along with technical bid by the tenderer else offer will be considered as ineligible technically.
6. Technical Specifications: The technical specifications as mentioned in the tender will be strictly adhered to else any deviation from tender technical specifications will make the tenderer liable for rejection. If any tenderer is write tech specs as per tender then inspection of such machines will be carried out at factory and if there are any deviation from tech specs mentioned in the tender, all such machines will be rejected and tenderer will be black listed.
7. Turn Key Project: It is necessary to supply all the machines as per tender else tender will be rejected.
8. **PAYMENT:** 100 percent after delivery and successful installation of all equipments/machineries. The firm has to submit a certificate from the Head of the Department of GPB, SASRD, NU mentioning fulfillment of desired specifications and successful installation/test report of all equipments/machines at the specified location/processing plant.
9. **WARRANTY:** 12 months from the date of dispatch against any manufacturing defect and/or bad workmanship.
10. **AFTER SALES SERVICE:** The tenderer should also quote rates for spare parts ready to meet the customers Requirement. The tenderer should have wide net work of dealers, service engineers and technicians to render prompt after sales service.
11. **INSTALLATION and Commissioning :**
The tenderer should include Installation and commissioning charges complete processing plant rate in the price bid.

Sd/-
(T. LANUSOSANG)
Pro-vice Chancellor
