

***Procurement Notice***

**Supply, Installation, Testing & Commissioning of Mechanized Silage Making Unit**



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**অসমৰ সোৱাদ**





# West Assam Milk Producers' Co-operative Union Ltd.

## PURABI DAIRY

### REQUEST FOR QUOTATIONS Procurement of Goods under RFQ Procurement Notice

(Two-Envelope Single stage bidding process)

**Contract title: Supply, Installation, Testing & Commissioning of Mechanized Silage Making Unit.**

**RFQ No: WAMUL/NEDFL/Silage-Unit/24-25/01**

**Date: 16/12/2024**

North East Dairy and Foods Limited (NEDFL) a JV between Govt. of Assam and National Dairy Development Board has initiated a project to increase green fodder cultivation and improve feed availability during lean periods in Assam and in pursuance to the same a Silage Manufacturing Unit is proposed to be commissioned in Dima Hasao-District Assam, West Assam Milk Producers' Coop Union Ltd (WAMUL) a Milk Union established under the Assam Cooperative Societies Act, 1949 on behalf of NEDFL now intends to procure the following goods.

Sl No	Brief Description of Goods	Technical Specifications/ Scope of Work	BOQ	Quantity	Delivery Period	Place of Delivery
1	Mechanized Silage Making Unit (Chaffing, Baling and Wrapping) along with DG Set	Annexure - I	Annexure-II	1 Unit	Within 30 days from date of AOC	Within Dima Hasao District, Assam

Time line for submission of the bid documents

Sl. No	Item	Start date & Time
1	Bid Publishing Date	16-12-2024
2	Bid submission End Date	30-12-2024 14.00 hrs.
3	Bid opening date(Technical)	30-12-2024 14.30 hrs.

This Procurement notice is governed by

1<sup>st</sup> Cover:

1. Terms and conditions applicable for submission of quotations i.e. criteria and qualification etc.
2. Seal & Signed Bid Document – Technical Part
3. Technical Specification & Scope of Work

2<sup>nd</sup> Cover

1. BOQ (Annexure-II)

Website of publication: [www.purabi.coop/tenders.php](http://www.purabi.coop/tenders.php)

- Clarifications, Amendments & Corrigendum's: If the Purchaser receives any request for clarification of this RFQ Document, it will upload its response together with any amendment to this document, on the portal for information of all Bidders. Bidders should check on the portal i.e. [www.purabi.coop/tenders.php](http://www.purabi.coop/tenders.php) for any amendments to the terms and conditions
- Other details can be seen in the RFQ document. The Purchaser shall not be held liable for any delays due to failure beyond its control. A Bidder requiring any clarification of the RFQ Document may notify the Purchaser through electronic mail or may visit the office of the Purchaser at the address given below.

West Assam Milk Producers Cooperative Union Limited, WAMUL (Purabi Dairy)

Contact Person: Smt. Sandhya Kalita

Postal Address: WAMUL Juripar, Panjabari, Guwahati-37

Mob: 9707013600/8011704917

Email Address: [Sandhya@purabi.coop](mailto:Sandhya@purabi.coop) / [dhritiman@purabi.coop](mailto:dhritiman@purabi.coop)

Web: [www.purabi.coop](http://www.purabi.coop)



R.K. Jyoti Prasad Agarwala Road, Panjabari, Guwahati-781 037

E-mail : [info@purabi.coop](mailto:info@purabi.coop) • Website : [www.purabi.coop](http://www.purabi.coop) • GST No. 18AAAJW0070G1Z6



RFQ No:WAMUL/NEDFL/Silage-Unit/24-25/01

Dated: 16-12-2024

**1. Terms and Conditions:****1.1 Eligibility of the bidder for supply of Silage Making Unit.**

- a) The bidder should be a manufacturer/ supplier of any one of the following Machineries/Equipment's
  - i) Reaper with tractor for harvesting/Combine harvester or
  - ii) Heavy duty chaff cutter with motor or
  - iii) Silage baler with wrapper or
  - iv) Complete Silage Making Unit.
- b) The bidder should have completed at least six contracts in the following financial years i.e.2019-20 ,2020-21, 2021-22, 2022-23 and 2023-24 for supply of any one of the following Machineries/Equipment's
  - i) Reaper with tractor for harvesting/Combine harvester
  - ii) Heavy duty chaff cutter with motor or
  - iii) Silage baler with wrapper or
  - iv) Complete Silage Making Unit.
 (Relevant documents required: PO Copies/Work Completion Certificate or Equivalent)
- c) **Financial Turnover:**
  - i. The bidder's average annual Financial Turnover in the last three financial years ending 31<sup>st</sup> March i.e. (FY 2020-21, 2021-22, 2022-23 or 2023-24 (Years should be consecutive) shall not be less than **Rs. One Crore** (Audited balance sheet or Chartered Accountant certified copy having valid UDIN)
- d) The bidder should have a valid GST Registration (GST Certificate to be submitted)

**1.2. Earnest Money Deposit (EMD):** Rs.31,800/- in Favor of "West Assam Milk Producers Cooperative Union Ltd" in the form of Demand Draft Payable at Guwahati.

**1.3 Performance security:** The successful bidder shall furnish a performance security @ 10 % of the contract value in the form of Bank Guarantee or a Bank Draft from any Nationalized/Scheduled Bank in favour of "**North East Dairy and Foods Limited**" Payable at Guwahati" within 30 days of award of contract. The PBG will be valid till the contract completion period including warranty obligation periods if any. The Performance Security furnished by the successful bidder will be retained by the office up to the entire contract period and returned within 60 days of expiry of the contract. The PBG held by the office till it is returned to the successful bidder will not earn any interest.

Failure of the successful bidder to furnish Performance Security within the period stipulated shall constitute sufficient ground for annulment of award and the Office may make the award to the next lowest evaluated bidder.

**1.4. Validity of the Quotation:** Quotation must be valid for 120 days from the last date of submission of bids. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

**1.5. Delivery/ Completion Time:** Delivery of the materials is to be completed within 30 days after issuance of Purchase Order at Dima Hasao-Assam and date for Installation, Testing and Commissioning (Including training) will be intimated to the bidder after delivery.

**1.6. Price Bid**

- a) The Prices shall be quoted in Indian Rupees only
- b) Freight: To be arranged by the supplier.
- c) Packing, Forwarding, GST, Freight, Insurance and other incidental charges will be part of the evaluation.
- d) Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation
- e) The contract shall be for the full quantity as described above.

**1.7. Terms of Payment:** 80 % on safe delivery at our site & 20 % after successful assembly, testing, commissioning and training of the unit at our site.

**1.8. Warranty:** The warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered and commissioned to and accepted at the final destination indicated in the order, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin or as per the manufacturer's Warranty for the various components/equipment's to be supplied along with the unit.

**1.9. Liquidated Damages:** If the bidder fails to deliver any or all the goods or perform the services within the time period(s) specified in the purchase order/contract, the WAMUL shall, without prejudice to its other remedies under the purchase order/contract, deduct from the purchase order/contract price, as liquidated damages, a sum equivalent to the following clauses which is applicable as per Order.

a) 0.5% of the full contract value for each completed week of delay

**OR**

b) ~~0.5% of the value of delayed items/services only, for each completed week of delay.~~

The total amount so deducted shall not exceed 10% of the purchase order/contract value. Once the maximum is reached, the WAMUL may consider cancellation/termination of purchase order/contract, and forfeiture of performance/ deposit bond.

**1.10. Documents:** *The Quotation shall comprise two Parts, namely the Technical Part and the Financial Part. Both Parts shall be submitted simultaneously in separate envelopes.*

**i) The Technical Part of Quotation shall comprise the following**

- a) Letter of Quotation – Technical Part
- b) Description of the item and delivery schedule
- c) Technical specification
- d) Complete address and contact details of the Bidder having the following information:  
Name of Firm  
Address for communication  
Telephone No(s): Office  
Mobile No.  
Electronic Mail Identification (E-mail ID)

Bidder shall submit: Self attested copy of PAN, Self-attested copy of GST, Self-attested copy of Trade License, Bank Account details on letterhead of the firm and the RFQ document.

**The Technical Part of Quotation shall not include any financial information related to the Quotation price. Where material financial information related to the Quotation price is contained in the Technical Part of Quotation, the Quotation shall be declared non-responsive**  
**ii. The Financial Part of Quotation shall comprise the following:**

- (a) Price Schedule as per specified format (BOQ) Annexure-II (Separate Sealed Envelope)

**1.11. Opening and Evaluation of Technical Parts of Quotations:**

The 'Technical Part' of the Quotations will be opened on the specified date and time. The Financial Part of the Quotations shall remain unopened until the subsequent technical opening.

a) The Purchaser shall examine the technical part of the quotation to determine whether the quotation has been properly signed meets the eligibility criteria conforms to all terms, conditions, Technical specifications, warranty/guarantee etc.; and the bidder has accepted the delivery schedule

b) Only Quotations that are both substantially responsive to the RFQ document, and meet all Qualification Criteria shall qualify for opening of the Financial Parts of their Quotations at the second Opening.

c) Purchaser shall notify to those Bidders who have failed to meet the Qualification Criteria or whose Quotations were considered non-responsive to the requirements in the RFQ document, advising them that their Technical Part of Quotation failed to meet the requirements of the RFQ document; and that their Financial Part of the Quotation shall not be opened.

Simultaneously Purchaser shall notify to those Bidders Whose Technical Parts of Quotations have been evaluated as substantially responsive and meeting the Qualification Criteria that their quotation has been evaluated as substantially responsive to the RFQ document and that their financial part of bid will be opened and date will be intimated.

**1.12. Opening and Evaluation of Financial Parts of Quotations:** The 'Financial Part' of the

*Handwritten signature*



The Purchaser shall examine and confirm that Letter of Quotation – Financial Part and Price Schedules/ BOQ are in accordance with the requirements specified in the RFQ document. If any of these documents or information is missing, the offer shall be rejected.

- (a) The Quotations would be evaluated for complete set of items under this RFQ.
- (b) The evaluation shall be based on the total price of Goods including GST and any other taxes, freight Transit insurance which will be payable on the finished goods at the time of invoicing as FOR delivery.

**1.13. Award of contract:**

(a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

(b) Price negotiation will be done with the lowest bidder L1 Bidder only.

(c) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

(d) The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall incorporate in the supply order.

**1.14. Cancellation of Contract:** WAMUL shall be free to cancel the order either in full or in part, in the case of non-delivery of material/ non completion of installation within the stipulated delivery period.

**1.15. Rejection:** WAMUL reserves the right to reject the goods either in part or full if at the time of delivery, it is noticed that the goods supplied do not conform to the specifications/description given in the purchase order.

**1.16.** For any dispute/legal issues, the jurisdiction is at Guwahati Only

**Sd/-**  
**Managing Director, WAMUL**



## Specifications of Silage Unit Machinery

### A. Heavy Duty Hybrid Chaff Cutter

#### Functional Requirements

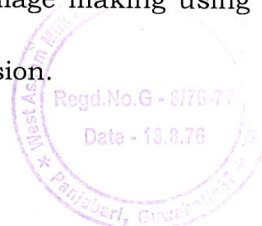
- For chopping and blowing of fodder of field crops like sorghum, Hybrid Napier, maize etc in semi dry & green stages.

#### Design Requirements

- Chopping & blowing green or semi dry fodder of crops like sorghum, hybrid Napier, maize, sunflower etc. into pieces of about half inch approximately.
- Capacity to exceed 3000 kg per hour on green fodder of sorghum & maize.
- Flywheel type cutting mechanism provided.
- Mobile, trailing version complete with cart, axle & tyres.
- Two pneumatic tyres, proper chassis & axle provided for quick transport.
- Chop size adjustable in the range 5 to 20 mm.
- Appropriate mouth piece casted or fabricated matching to out-put provided.
- Flywheel to be strong and sturdy in steel plate, dynamically balanced having proper chopping blades, plumber blocks, sealed bearings etc as per output needs.
- Inbuilt blowing arrangement for upward loading/blowing of fodder.
- Appropriate spring-loaded rollers provided to hold fodder crops.
- Long life blades provided.
- Sharpening arrangement provided for blades; in situ sharpening preferred.
- Excellent quality painting after thorough rust removal to be ensured.
- All safety covers, hoods, protections as per need included.
- PTO drive shaft for tractor drive 540 RPM included with safety pin/clutch.
- Two drive options provided - a. PTO driven mechanism for tractor & b. Motor.
- For motor drive V pulley & frame provided as per need of motor.
- All electrical items like motor, starter, cable, switch etc also included.
- Minimum 20 HP, 1440 RPM, TEFC Motor provided with rain cover in GI sheet.
- Motor to be Kirloskar, ABB, Crompton, Greaves, Siemens make.
- Motor to be continuous duty design, 440 V, 3 Phase, 50 Hz.
- Matching Starter with MCB, indicators, single phasing preventer included. All switch gears to be L&T, Siemens, ABB, CH, Schneider make.
- Matching Power Cable 15 m length, AL armoured (panel to motor) included.
- Cable to be armoured, Finolex, Polycab, Havels or CCI make.
- Heavy duty Reverse forward gear box with oil dipped steel gears provided. Electrical reversal switch also acceptable.
- Cracking of maize grain ensured for better digestion & better silage making using precise maize chopper cum grain cracker mechanism.
- Strong & sturdy design complete in all respects -ready to run version.
- Spares for one year of smooth operation included.
- Minimum one-year warranty included.

#### Scope of work:

- The scope of work includes supply, installation, testing and commissioning of the set at our farm complete in all respects including training to our operators. If required demo of the machines is to be arranged by the suppliers to the satisfaction of purchaser at some mutually agreed farm without any extra charges.



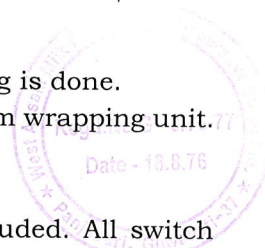
## B. Silage Baler cum wrapper

### Functional Requirements

- Fully Automatic Corn Silage Baler and Wrapper Machine should be used to press the chaffed green corn pieces in a Round Shape Silage Bale. The compression will reduce air content in it. After compression, the bale will be wrapped with the thin polypropylene film, so as to protect the compressed material from being in contact with air. The compressed material will be anaerobically decomposed to form corn silage.
- **Bale Size:** 50 kg to 80 kg
- **Capacity:** Min 25 to 30 Bales/hour
- **Compression chamber:** The machine should be suitable to hydraulically press the chaffed green corn pieces and form round shape bale of 50 kg to 80 kg weight. This should be a complete machine equipped with sensor and alarm system. The machine should be strong and durable, less vibration, low labour cost, high efficiency best silage baler machine.
- **Wrapper Machine:** Automatic wrapping should be done. It should automatically pack a plastic bar as a spherical ball, stretched film high speed round shape packing.
- **Conveyor:** The machine should be equipped with suitable high-speed conveyor to transport fodder pieces in to compression chamber.
- **Alarm System:** Suitable alarm system to indicate - when the baling hopper is filled with corn, it should alarm and buzzer system for auto count of wrapping layers.
- **Operation:** The complete machine will be run by a DG set of 25 kVA and electric power (5 hp).
- **Frame:** The machine should be mounted on a sturdy/heavy M.S. frame and fitted with suitable tyre for easy movement of the machine.
- Auto calculation of bale density
- Auto weighing of each bale
- Hydraulic lever operated

### Design requirements:

- Capacity of feeding hopper to be 500-1000 kg.
- The machine to be equipped with hydraulic & mechanical operational system.
- Chassis having adjustment to fix external wrapper and hydraulic & electric motor.
- The machine should ensure proper compression to achieve desired quality of silage. Minimum compaction density should be 600 kg/m<sup>3</sup>.
- The bale production capacity of machine to be minimum 25-30 nos. in 50 to 80 kg bale weight.
- Two stage wrapping internal & external provided for more compaction.
- The first stage of wrapping happens inside the internal compression chamber.
- External wrapping arrangement should be strong & sturdy.
- External wrapper consists of two rollers & film holders.
- The bale rotates with the rollers simultaneously while external wrapping is done.
- Hydraulic lever to be provided for auto dispatching the wrapped bale from wrapping unit.
- Tyres to be provided for transportation of machine.
- The machine should work on DG set (25 kVA) and electric power.
- Matching Starter with MCB, indicators, single phasing preventer included. All switch gears to be L&T, Siemens, ABB, CH, Schneider make. (Main power supply switch & cable is not in the scope of supplier but details to be provided to the buyer).
- To operate silage baler with tractor PTO shaft, suitable AC alternator/other arrangements of approved makes matching to the requirements of baler to be provided with baler machine, complete in all respects.





- Conveyor to be chain/belt type to transfer chaffed material from hopper to bale chamber.
- All required accessories should be provided with machine.
- Gears and shafts/other drives of the equipment should be smooth in functioning and provisioned for lubrication.
- Baler to be made of high strength steel material, suitably corrosion protected with higher standards of workman ship.
- The equipment and functioning/operation should be safe for the operator with minimal wastage of feed stuffs.
- PTO shafts with yoke and safety shields; shear bolt for over load protections to be provided.
- A hood that encloses the hydraulic and electric systems to be provided.
- Note – All the accessories required for the successful installation and commissioning of the equipment should be made part of standard equipment.
- Top quality finish with corrosion resistant painting.
- Minimum one-year warranty included.
- Wrapping film (UV protected) quantity required for wrapping of 5000 bales, should be provided with machine.

#### **Scope of work:**

The scope of work includes supply, installation, testing and commissioning of the set at site complete in all respects including training to the operators. If required demo of the machines is to be arranged by the suppliers to the satisfaction of purchaser at some mutually agreed farm without any extra charges.

#### **C. Diesel Generator Set:**

A 25-kVA diesel generator set (DG set) capable of reliably powering a heavy-duty chaff cutter and silage baler in absence of electricity power supply.

#### **Functional Requirements:**

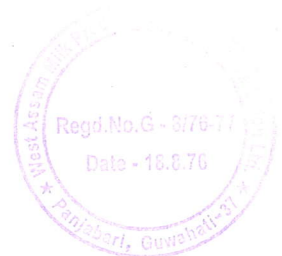
- The diesel generator must have a rated power output of 25 kVA at a power factor of 0.8 (approximately 20 kW). This power capacity is intended to meet the electrical demands of the chaff cutter and silage baler, both of which are to have motor-driven mechanisms requiring high start-up and continuous power.
- The generator must provide a stable 400V 3-phase AC output to match the typical electrical requirements of heavy-duty agricultural machinery.
- Frequency: 50 Hz (+/- 1 Hz) to ensure compatibility with the equipment.
- Diesel fuel is to be used for operation. The DG set should be designed to run efficiently on commonly available diesel fuel in rural or remote areas.
- The fuel tank should be large enough to provide a minimum of 8-10 hours of continuous operation at full load without refuelling.
- The generator should be powered by a reliable diesel engine capable of handling the mechanical loads with minimal vibration and noise. Electric start with a 12V battery. Provision for manual starting in case of battery failure.
- Liquid-cooled engine to ensure stable operation even under high ambient temperatures.
- The DG set must be equipped with a user-friendly control panel that includes:
  - Start/Stop controls
  - Fuel level indicator
  - Engine temperature gauge
  - Oil pressure gauge
  - Battery charge status
  - Overload, overvoltage, and low oil pressure alarms
  - Hour meter for tracking runtime



- Option for automatic start and stop based on load requirements or remote sensing capabilities if required.
- The DG set must comply with local noise regulations for outdoor use, typically with a maximum noise level of 75-80 dB(A) at 1 meter.
- The generator must be capable of running continuously for extended periods, typically 8-10 hours per day, for multiple days if necessary, with appropriate cooling and lubrication intervals.
- The generator must handle a constant load with minor fluctuations while ensuring smooth operation of the connected machinery.
- A clear maintenance schedule with recommended intervals for oil changes, air filter replacement, and general system checks.
- Availability of spare parts, such as filters, belts, and fuses, should be guaranteed for at least 5 years.

### **Scope of Work**

The scope includes the supply, installation, commissioning, testing, and maintenance of a 25-kVA diesel generator set. The supplier will provide the complete 25 kVA diesel generator set, including engine, alternator, fuel tank, control panel, and all necessary components for installation and operation, complete user manuals, technical documentation, and maintenance guides, initial set of spare parts including filters, fuses, and maintenance tools.



Annexure-II							
Format of Quotation							
Sl.No.	Description of Machinery	Qty/Works	Unit Rate (Rs.)	GST%	GST Rate (Rs.)	Freight,P&F,Transit Insurance and other Incidental Charges (Rs.)	Total Amount (Incl.all) (Rs.)
							Amount in words (Rs.)
1	Heavy duty conveyor fed chaff cutter with motor	1 Nos.					
2	Silage baler with wrapper	1 Nos.					
3	25KVA DG Set	1 Nos.					
4	Supply Installation Testing & Commissioning Charges	1 Job					
Total Amount (Sl.No. 1+2+3+4)							

Seal & Signature of Bidder

