WEST BENGAL FOREST DEVELOPMENT CORPORATION LIMITED
Office of the Divisional Manager, Kolkata Forest Corporation Division
2nd floor, Aranya Bikash, KB-19, Sector-III, Kolkata – 700106
CIN: U02005WB1974SGC029535 GSTIN: 19AAACW3562A1ZK
E-MAIL- kfcd@wbfdc.com PHONE NO. 033-4064 4128/ 033-4001 0636

NOTICE INVITING QUOTATION No. 40/29-52/25-26

Memo No. 1120/29-52/25-26 **Date: 06/11/2026**

Sealed quotations are hereby invited for discovery of price for "Supply, Installation, Testing & Commissioning of Honey Filtration & Processing System with 1 year warranty and its 3 years comprehensive maintenance". Technical specifications of the Honey Filtration & Processing System is enclosed as Annexure-I. Bidders are requested to quote their rate in the format enclosed as Annexure-II.

(The rates discovered through this quotation will be used for preparation of Detailed Project Report / Preparation of Estimate / Preparing all kinds of supporting documents for obtaining Administrative Approval and Financial Sanction from Competent Authority. The original work will be executed by inviting e-tender, and the estimated amount put to tender will be the amount discovered through this price discovery mechanism if approved by the Competent Authority).

- Place of installation: Joinery and Carpentry Unit of Kolkata Forest Corporation Division, WBFDCL at GM-5, GM Block, Bidhan Nagar, Kolkata 700091.

- **Time for Completion**

The assignment "Supply, Installation, Testing & Commissioning of Honey Filtration & Processing System" shall be completed within 45 days from the date of issuance of the Work Order.

- **General Terms and Conditions**

I. The quotation must be submitted in a **sealed envelope**, duly superscribed with the N.I.Q. number and the name of the assignment.
II. Quotations received after the prescribed deadline shall not be considered.
III. Any quotation containing incomplete information, material deviation or non-compliance with the eligibility conditions may be liable for rejection.
IV. WBFDCL reserves the right to **cancel, modify or withdraw the N.I.Q. at any stage** without incurring any liability towards the bidders.
V. Documents to be submitted along with the quotation : (1) Trade License (2) Last Year ITR Acknowledgement Receipt (3) Last year Audited balance sheet and Profit & Loss Accounts (optional) (4) GST Registration Certificate (5) Experience of similar nature of work.
VI. Bidders shall clearly understand that no work order will be issued to any bidder against this NIQ.

- **Submission of Quotation**

The quotation shall be submitted in a sealed envelope addressed to: The Divisional Manager, Kolkata Forest Corporation Division, West Bengal Forest Development Corporation Limited, 2nd floor, "Aranya Bikash" , KB-19, Sector-III Kolkata – 700106.

- **Schedule of dates :**

Sl. No.	Particulars	Date	Time
1	Date of issue (Beginning date) /distribution of NIQ	13-11-2026	11:00 A.M.
2	Last date(Closing Date) of distribution of NIQ	25-11-2026	05:00 P.M.

3	Date of commencement of submission of quotation	13-11-2026 11:00 A.M.
4	Last date for submission of sealed quotation	25-11-2026 05:00 P.M.
5	Date of opening of quotation	26-11-2026 01:00 P.M.

- In case of any unscheduled holiday or on days of Bandh or natural calamity on the aforesaid dates, the next workingday will be treated as the scheduled/prescribed date for the same purpose.
- The Quotation Inviting Authority may change the venue of opening the Bids in case of exigent circumstances like breakdown of communications link or conditions of force majeure.
- The Quotation Inviting Authority reserves the right to defer the date of opening of bid if required.

S/d Satyajit Roy
Divisional Manager,
Kolkata Forest Corporation Division
West Bengal Forest Development Corporation Limited

Date: 06/11/2026

Memo No. 1120/29-52/25-26

Copy forwarded for information to:

1. The Managing Director, WBFDCL.
2. The General Manager (HQ), WBFDCL.
3. The General Manager (North), WBFDCL
4. Chief Executive Officer, Green Projects Wing, WBFDCL
5. The Financial Advisor & Chief Accounts Officer, WBFDCL
6. Notice Board
7. WBFDCL Website

Divisional Manager,
Kolkata Forest Corporation Division
West Bengal Forest Development Corporation Limited

Copy forwarded for information to and necessary action to:

1. The Attached Range Manager, Kolkata Forest Corporation Division, WBFDCL, is requested to distribute the NIQ to the bidders.

S/d Satyajit Roy
Divisional Manager,
Kolkata Forest Corporation Division
West Bengal Forest Development Corporation Limited

Annexure-I

Detailed Technical Specification – Honey Filtration & Processing System

1. Automatic Honey Processing Plant – Basic Capacity

- **Plant capacity:** 300 kg/batch (±5%)
- **Material used for product-contact equipment:** SS304 Food Grade
- The processing line includes heating, cooling, moisture reduction, deaeration, fine filtration, storage and honey transfer arrangements.

2. Double Jacket Homogenization Tank – 300 kg

Technical specifications:

- Capacity: **300 kg/batch (±5%)**
- Material: **SS304 Food Grade**
- Inner shell thickness: **2.5 mm**
- Outer jacket thickness: **2.0 mm**
- Heating: **SS immersion heaters**
- Temperature range: **30°C–65°C**
- Agitator: **Heavy-duty anchor agitator with scraper blades**
- Gearbox: **40:40:71**
- Motor: **1 HP, IE3, IP55**
- Temperature control: **Digital PID temperature controller**
- Temperature sensor: **PT100**
- Outlet: **Bottom outlet for complete drainage**
- Gaskets: **Food-grade silicone**
- Application mentioned: **Suitable for melting crystallized honey**.

Purpose of the parts:

- **Double jacket:** Provides the space for heating the honey.
- **Immersion heater:** Heats the honey.
- **Anchor agitator:** Keeps the honey moving during processing.
- **Scraper blades:** Assist agitation along the vessel surface.
- **PID controller + PT100:** Controls and monitors the processing temperature.
- **Bottom outlet:** Allows complete draining of processed honey.

3. SS Inline Filter – 80 Mesh

This is the **coarse/preliminary filtration stage**.

Technical specifications:

- Material: **SS304 Food Grade**
- Type: **Inline Basket/Strainer Filter**
- Filtration: **80 Mesh**, approximately **180 microns**
- Filter element: **Removable SS304 mesh element**
- Connection: **2" TC/Union/Flanged, as per piping**
- Design pressure: **10 Bar**
- Maximum operating temperature: **90°C**

- Body: **Heavy-duty fabricated body**
- Cover: **Quick-opening cover**
- Gasket: **Food-grade silicone**
- Includes:
  - Inlet connection
  - Outlet connection
  - Drain plug
  - Mounting supports
- Application: **Removal of wax particles and coarse impurities before the processing line.**
- Quantity: **1 No.**

Purpose of the parts:

- **80-mesh SS304 element:** Removes relatively coarse particles from honey.
- **Quick-opening cover:** Allows the filter element to be accessed for cleaning.
- **Drain plug:** Provides a means for draining the filter.
- **Inlet/outlet connections:** Allow the filter to be installed within the honey pipeline.
- **Food-grade gasket:** Provides sealing at the filter connection.

4. Shell & Tube Heat Exchanger

Technical specifications:

- Product-contact parts: **SS304**
- Shell: **SS304**
- Design: **Multi-pass counter-flow**
- Capacity: **500–1000 LPH**
- Design pressure: **10 Bar**
- Cooling medium: **Water**
- Temperature reduction: **65°C to near ambient**
- Tube bundle: **Removable for easy maintenance**
- Quantity: **2 Nos.**

Purpose:
The heat exchanger is used for **cooling the honey from approximately 65°C to near ambient temperature**. The removable tube bundle facilitates maintenance.

5. Falling Film Evaporator with Moisture Reduction System

Technical specifications:

- Material: **SS304 Food Grade**
- Capacity: **300 kg/batch**
- Technology: **Falling Film Vacuum Technology**
- Controls: **Digital temperature and vacuum control**
- Moisture reduction: **20% to 18%**, depending upon inlet moisture
- Product temperature: **Below 60°C during operation**
- Includes:
  - Condenser
  - Vacuum piping
  - Instruments
- Quantity: **1 No.**

Purpose:
This unit is used for **reducing moisture content in honey under vacuum conditions**

6. Calandria Separator

Technical specifications:

- Material: **SS304 Food Grade**
- Design: **Vertical cylindrical**
- Function: **High-efficiency vapour-liquid separation**
- Suitable for: **Continuous operation with falling film evaporator**
- Includes:
  - Sight glass
  - Sanitary fittings
  - Drain valve
- Quantity: **1 No.**

Purpose of the parts:

- **Calandria separator:** Separates vapour and liquid during the moisture-reduction process.
- **Sight glass:** Allows visual observation.
- **Drain valve:** Allows drainage of the vessel.

7. Vacuum Deaerator Unit

Technical specifications:

- Material: **SS304 Food Grade**
- Type: **Vacuum-operated vertical vessel**
- Function: **Removal of entrapped air and foam**
- Includes:
  - Vacuum gauge
  - Sight glass
  - Level arrangement
  - Sanitary connections
- Quantity: **1 No.**

Purpose of the parts:

- **Vacuum vessel:** Provides the vacuum environment for removing entrapped air/foam.
- **Vacuum gauge:** Indicates vacuum condition.
- **Sight glass:** Provides visual observation.
- **Level arrangement:** Provides level monitoring.
- **Sanitary connections:** Provide hygienic connections with the processing line.

8. Bag Housing Filter – 100-120 Micron

This is the **fine filtration unit**.

Technical Specification

Parameter	Specification

Material	SS304 Food Grade
Filtration rating	**100-120 Micron**
Housing type	**Horizontal Housing**
Design pressure	**10 Bar**
Flow capacity	**500–3000 LPH**
Lid	Quick-opening lid
Gaskets	Food-grade gaskets
Application	Fine filtration of honey
Quantity	**1 No.**

This filter is intended for **fine filtration of honey**.

Purpose of the major parts

1. SS304 Food Grade Housing
The housing contains the filtration arrangement and is specified to be made of SS304 food-grade material.

2. 100-120 Micron Filter
This provides the specified **100-120-micron filtration rating** for filtration of honey while retaining essential pollens.

3. Horizontal Housing
The filter is arranged in a horizontal housing configuration.

4. Quick-Opening Lid
The lid allows access to the filter housing for handling/maintenance.

5. Food-Grade Gaskets
The gaskets provide sealing within the filter housing and are specified as food-grade.

6. Inlet/Outlet arrangement
This identifies the unit as a filter housing for honey flow, with a specified flow capacity of **500–3000 LPH**.

9. SS Screw Pump with Gearbox

Technical specifications:

- Wetted parts: **SS304 Food Grade**
- Type: **Positive Displacement Screw Pump**
- Gear ratio: **50/7.5/80**
- Flow rate: **500–3000 LPH**
- Pressure: **Up to 10 Bar**
- Seal: **Mechanical seal**
- Application: **Suitable for high-viscosity honey transfer**
- Quantity: **2 Nos.**

Purpose:
The screw pump transfers **high-viscosity honey** through the processing line.

- **Screw pump:** Moves the viscous honey.
- **Gearbox:** Provides the specified gear arrangement for pump operation.
- **Mechanical seal:** Provides sealing around the rotating arrangement.

10. Flange-Mounted Motor

Technical specifications:

- Type: **Flange-mounted induction motor**
- Speed: **2800 RPM**
- Winding: **Copper winding**
- Efficiency: **IE3**
- Protection: **IP55**
- Insulation: **Class F**
- Duty: **Continuous Duty (S1)**
- Quantity: **2 Nos.**

Purpose:
The motors provide the mechanical drive required for the associated equipment.

11. Liquid Ring Vacuum Pump with Moisture Condensation System

Technical specifications:

- Type: **Single-stage liquid ring vacuum pump**
- Capacity: **250–350 m^3/hr**
- Ultimate vacuum: **Up to 730 mmHg**
- Motor: **2.0 HP, IE3, IP55**
- Includes:
  - Moisture separator
  - Condensate collection tank
  - Vacuum gauge
  - Vacuum transmitter
  - Seal water system
  - Non-return valve
  - Anti-vibration mounts
- Application: **Suitable for continuous operation with falling film evaporator**
- Quantity: **1 No.**

Purpose of the parts:

- **Vacuum pump:** Creates the vacuum required by the falling-film evaporation system.
- **Moisture separator:** Separates moisture from the vacuum system.
- **Condensate collection tank:** Collects condensate.
- **Vacuum gauge:** Indicates vacuum level.
- **Vacuum transmitter:** Provides vacuum measurement/transmission.
- **Seal water system:** Supports operation of the liquid-ring vacuum pump.
- **Non-return valve:** Prevents reverse flow.
- **Anti-vibration mounts:** Support the equipment and reduce vibration.

12. Hot Water Circulation Pump

Technical specifications:

- Type: **Horizontal centrifugal pump**
- Quantity: **2 Nos.**
- Capacity: **8–12 m³/hr each**
- Head: **20–30 metres**
- Wetted parts: **SS304**
- Seal: **Mechanical seal**
- Motor: **1 HP, IE3, IP55**
- Includes:
  - Isolation valves
  - NRV
  - Pressure gauges
- Application: **Circulation of hot water through jacketed vessels and heat exchanger.**

13. Electric Hot Water Boiler

Technical specifications:

- Construction: **Mild Steel (MS)**
- Finish: **Heat-resistant silver paint**
- Capacity: **300 litres**
- Heating capacity: **18–24 kW**
- Heating elements: **SS316 immersion heaters**
- Operating temperature: **Ambient to 90°C**
- Working pressure: **Up to 4 Bar**
- Includes:
  - Pressure relief valve
  - Pressure gauge
  - Water level indicator
  - Low water cut-off
  - High-temperature cut-out
  - Drain valve
  - Automatic water make-up arrangement
  - IP55 electrical control panel
- Power supply: **415 V, 3 Phase, 50 Hz**
- Quantity: **1 No.**

14. Airtight Storage Tank with Level Indicator

Technical specifications:

- Material: **SS304 Food Grade**
- Capacity: **300 kg**
- Design: **Cylindrical tank**
- Bottom: **Conical bottom**
- Construction: **Airtight**
- Level measurement: **Mechanical level indicator**
- Gasket: **Food-grade gasket**
- Outlet: **Bottom drain valve**

- Quantity: **1 No.**

Purpose:
Used for **airtight storage of processed honey**, with level indication and bottom drainage.

15. Cooling Tower

Technical specifications:

- Type: **Induced Draft FRP Cooling Tower**
- Capacity: **30 TR**
- Fill media: **PVC honeycomb fill media**
- Fan: **Axial flow fan**
- Water flow rate: **250–450 GPM**
- Includes:
  - Basin
  - Drift eliminators
  - Make-up water arrangement
- Quantity: **1 No.**

Simplified Filtration Flow

Based **only on the equipment sequence**, the filtration-related process can be understood as:

Honey → 80 Mesh SS Inline Filter → Processing/Heating → Moisture Reduction → Cooling → 100-120 Micron Bag Housing Filter → Airtight Storage

The **80-mesh filter** is specifically intended for **wax particles and coarse impurities**, while the **100-120-micron bag housing filter** is specified for **fine filtration of honey**.

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(Satyajit Roy, WBFS)
Divisional Manager
Kolkata Forest Corporation Division

Annexure-II

Sl. No.	Item of Work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	Supply, Installation, Testing, Commissioning (SITC) of Honey Filtration and Processing System with 1year warranty. Detailed Technical Proposal may be seen in Annexure-I. The said processing unit to be installed at Joinery and Carpentry Unit of Kolkata Forest Corporation Division, WBFDCL at GM-5, GM Block, Bidhan Nagar, Kolkata 700091 (Rates should be including all taxes. Rate should be including all tansportation cost, handling cost, loading-undloading etc. complete. WBFDCL will not pay any extra amount in this regard.)	Each		1	-
2	Comprehensive Maintenance of Honey Filtration and Processing System in Y-2 (after 1 year warranty of Honey Filtration and Processing System) (Rates should be including all taxes. Rates should be including all spare parts, service charge etc. complete. WBFDCL will not pay any extra amount in this regard.)	Year		1	-
3	Comprehensive Maintenance of Honey Filtration and Processing System in Y-3. (Rates should be including all taxes. Rates should be including all spare parts, service charge etc. complete. WBFDCL will not pay any extra amount in this regard.)	Year		1	-
4	Comprehensive Maintenance of Honey Filtration and Processing System in Y-3. (Rates should be including all taxes. Rates should be including all spare parts, service charge etc. complete. WBFDCL will not pay any extra amount in this regard.)	Year		1	
				Total	-

Note:

(1) Detailed technical specification of Honey Filtration and Processing System may be seen in the Annexure-I

Divisional Manager
Kolkata Forest Corporation Division