



BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

PO- Krishiviswavidyalaya, Mohanpur, Nadia, West Bengal, Pin- 741252

Open e-Tender (Two Bid System: Technical Bid & Financial Bid) for

“Establishment of Integrated Post-Harvest Handling and Processing Infrastructure” at Mondouri, BCKV

Ref. No.	: RKVY/ PHT/ 2026-ET-1	Date	: Within 21 days of publication
Indenter	: Prof S. Chakrabarty Das	Designation	: Professor and PI of the Project
Department	: AICRP on Floriculture (Dept of PHT)	Faculty	: Horticulture
Sl. No.	Name of the Item/ Equipment (Details Specification in Annexure I)	Qty.	
1.0 Post Harvest Handling unit (for handling fresh flowers)			
1.10	Supply, fabrication & installation of SS handling/grading tables (one receiving table, one grading table and one packing table), each 72” L x 36” W x 36” H.	3	
1.20	Hydration and pulsing plumbing system (SS) with inlet and out let systems	1+1	
1.30	Refrigeration Unit comprising 2 Nos 2 Ton Split AC (Voltas/Blue Star/Equivalent), suitable for 24ft x 14ft X 10 ft (H) pre-cooling room, including mounting, copper piping, insulation and electrical interconnection.	1 unit	
1.40	Walk-In-Cooler (8’ft L x 6’ft W x 8’ft H), For 500 flowers in racks, Temperature 4-12°C +75% RH	1	
1.50	Normal packaging and Vacuum Packaging with extra sealing machine points, worktop supports, cable management packaging items for demonstration of minimum ten packaging cycles (each with minimum 50 flowers)	1+1	
1.60	Crates+racks+trolley for demonstration of minimum ten cycles (each with minimum 50 flowers)	10 each, total 30	
1.70	Portable Spectrophotometer / Colour Measuring Meter (Textile + Flowers)	1	
1.80	Portable Headspace Gas Analyzer (O ₂ + CO ₂) for head space analysis of packed flowers	1	
2.0 Drying unit (for Flowers) with Lighting & Exhaust System			
2.10	Cabinet Dryer for Marigold and other flowers, Dimension of Tray : 16” x 32” x 1” size. No of treys : 24. Temperature 40-70 °C	1	
2.20	Moisture-control storage support with Dehumidifier for an area (6 ft BX6ft LX6 ft H) for storing dried flowers (maintaining RH at 20-30%)	1 unit	
3.0 Lutein extraction unit with Super Critical carbon di oxide			
3.20	Supply, fabrication & installation of a 10x2 liter capacity Supercritical Fluid Extraction Machinery. @400 Kg/cm ² , for Lutein Extraction from Marigold Pellets with Containers for storing pure lutein , carbon di oxide cylinders and all co solvents (ethanol, Isopropyl alcohol (IPA) etc) for running minimum 20 batches (each batch with 5+5 =10 kg batch)	1 unit	
3.30	Motorised Pellet Machine, Capacity: 60-90 Kg/hr, with 3HP motor yielding firm pellets with marigold dried florets (moisture 18-20%)	1	
General	Supply, Installation, Testing & Commissioning (SITC) basis, including all interconnecting cables between machine components. Minimum 12 months Warranty on supplied items & Service response within 72 hours	Included within 1.0, 2.0 and 3.0	
Total (Including GST)			

Special Conditions

- 1. Eligibility Criteria:** Bidders must have an average annual turnover of ₹100.00 lakh (Rs 1 Crore) and a minimum net worth of ₹50.00 lakh during the last three completed financial years (2022-23, 2023-24, 2024-25), duly certified by a practising Chartered Accountant with UDIN.
- 2. Earnest Money Deposit (EMD):** EMD of Rs. 2.6 lakhs have to be submitted in the form of Demand Draft/Bank Guarantee in favour of Bidhan Chandra Krishi Viswavidyalaya, in accordance with GoWB E-tender norms. MSME/NSIC registered bidders shall be exempted as per prevailing Government rules, subject to submission of valid documentary proof.
- 3. Technical & Statutory Documents:** Bidders shall upload:

- Relevant /Similar work experience : Minimum one work of Rs. 100 lakhs or two works of 65 lakhs in last 5 years. “Similar Work” shall mean supply, installation and commissioning of post-harvest infrastructure / food processing / extraction plant / high-pressure process equipment / cold storage systems with proper documentary evidence (Work Order and Completion Certificate or Ongoing work with ≥80% completion certified).
- OEM authorization (where applicable),
- Valid GST, PAN and Trade License (current),
- Audited balance sheets of the last three financial years.

4. **Service Support:** The bidder must ensure service response within 72 hours and provide details of service centre/workshop within West Bengal. The University reserves the right to physically verify such facilities.

Power Requirement & Load Declaration: The bidder shall submit a signed and stamped Electrical Load Summary Sheet indicating Connected load (kW), Running load (kW), Starting load (kW), Recommended cable size, Recommended breaker rating and Total Maximum Demand. Please go through **Annexure –I, Section – D (Page 9)**. Failure to submit load details may render the bid technically non-responsive.

5. **Safety Requirements**

- All motors must have overload protection.
- Proper earthing mandatory.
- Emergency stop switch required for: Pellet machine, Cabinet dryer, SFE unit
- Pressure & temperature interlocks mandatory in SFE system.
- Short-circuit and surge protection to be included.
- No exposed live wiring permitted.

6. **Installation, Testing & Commissioning (SITC):** The bidder shall

- Install and electrically integrate all supplied equipment
- Connect machine input to University supply point
- Conduct no-load and load trials
- Demonstrate safety & control systems
- Provide operator training. Installation shall be deemed complete only after successful trial run.

7. **Warranty & Service:** Minimum **12 months comprehensive warranty** from date of commissioning and Service response within **72 hours**. All electrical components supplied by vendor shall be covered under warranty.

8. **Rates & Validity:** Rates shall be quoted on unit basis inclusive of all taxes and duties, clearly specifying warranty terms. The bid shall **remain valid for 180 days** from the date of financial bid opening **and shall be subject to vetting by the competent authority**.

9. GST shall be applicable as per prevailing Government of India rates for each items and the University shall not bear any additional tax liability arising out of misclassification by the bidder.

10. **Award of Contract:** Issue of work order shall be subject to administrative approval, technical sanction and availability of funds from the competent authority. Contract shall be awarded to the lowest technically qualified and responsive bidder (L1) considering the BOQ as a whole, in accordance with WBFR provisions.

11. **Payment Terms: Phase wise Payment shall be made after successful supply, installation, commissioning, trial run and training of individual units (Unit 1.0, 2.0 and 3.0)**.

12. **Quality & Rejection Clause:** This tender does not constitute a financial commitment by the University. The University reserves the right to cancel, modify or defer the tender process at any stage without assigning reasons. Specifications shall not be compromised. Supply of inferior or non-conforming materials may lead to rejection, cancellation of work order and other actions as deemed fit. The University reserves the right to accept or reject any bid without assigning reasons, as per WBFR.

13. **Mandatory Declarations to be Submitted:** The bidder shall submit:

i. Technical & Statutory Documents (as mentioned in Point 3 including work experience)	ii. No Deviation Certificate
iii. Technical Compliance Certificate	iv. Non-Blacklisting Certificate
v. Undertaking for 180-day Price Validity	vi. Undertaking for 72-hour Service Support
vii. A consolidated Electrical Load Summary Sheet	viii. Details of service centre/workshop within WB


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Annexure –I

Detailed specifications of the above mentioned items

1. Post Harvest Handling unit (for handling fresh flowers)

Sl. No.	Name of the Item/ Equipment	Details Specification
1.10	Supply, fabrication & installation of SS handling/grading tables (one receiving table, one grading table and one packing table), each 72” L x 36” W x 36” H.	<p>Material: Stainless Steel SS 304 Sheet thickness: Tabletop: 1.2 mm, Legs & frame: 1.5–2.0 mm Finish: Matt / brushed finish, corrosion-resistant Size : Table-1 (Receiving/Trimming): 6ftX3ft – 1 no with in built automatic flower cutting unit with motor capacity of 1 HP. All the blades should be SS316 with rotation controlling system(automatic/on-off/PID) , Table-2 (Grading/Bunching): 6ftX3ft – 1 no, Table-3 (Packing/Staging): 6ftX3ft – 1 no Construction: Welded tubular frame (SS square pipe $\geq 40 \times 40$ mm), Rounded edges for worker safety, Load capacity: ≥ 150 kg per table Accessories:, Under-shelf (SS 304) for crates, Adjustable SS levelling bolts Installation: Anchored to floor using SS fasteners, Includes alignment & final finishing Compliance: Suitable for fresh flower handling & contact use</p>
1.20	Hydration and pulsing system (SS) with inlet and out let systems	<p>Qty: 1 + 1 (two independent systems, each 50 L capacity) Capacity Basis: Hydration/pulsing of 500 spikes per batch (≈ 50 bunches) •Two-stage system preferred: Hydration tank: 50 L SS304, with circulation of water, with water line, automatic by solenoid valve, individual bucket facility for vertical holding of flowers Pulsing/conditioning tank: 50 L, SS304 with circulation of water: Minimum 1 trough (≈ 2.5 ftX 3 ft or equivalent rack holding 50 bunches simultaneously) with individual bucket facility for vertical holding Pump: corrosion-resistant centrifugal pump 0.5–1 HP, Plumbing: CPVC/UPVC with isolation valves, NRV, unions(if required)</p>
1.30	Refrigeration Unit comprising 2 Nos 2 Ton Split AC (Voltas/Blue Star/Equivalent), suitable for 24ft x 14ft X 10 ft (H) pre-cooling room, including mounting, copper piping, insulation and electrical interconnection.	<p>Type: Forced air cooling / ducted cooling Insulated ducting: PUF / XLPE insulated, Thickness ≥ 25 mm Air circulation: Uniform airflow distribution Cooling equipment: 2 Nos Split type AC of 2 Ton each of Voltas or Blue Star of Equivalent make Mounting: Control: Digital thermostat & RH control provision Includes: Installation, Testing & balancing</p>
1.40	Walk-In-Cooler (8’ft L x 6’ft W x 8’ft H), For 500 flowers in racks, Temperature 4-12°C +75% RH Storage duration: up to 72 hours	<p>Design Capacity: 500 flower spikes in vertical position Light Fitting Fluorescent. 60 mm thick Wall & Ceiling PUF panel. 60 mm thick Floor Panel and 25 mm thick RCC on top. Door: Insulated swing door with Magnetic gasket Flashing for wall/ceiling panels with fasteners suitable. Refrigeration System (Positive temp system). 60 mm thick 34” 78” door panel type PCGI/PCGI. Temperature range : 2°C to 14°C Includes: Installation & Trial run</p>
1.50	Normal packaging and Vacuum Packaging	<p>a) Normal Packaging SS packing table with food-grade surface (Table 3 already specified</p>

Sl. No.	Name of the Item/ Equipment	Details Specification
	with extra sealing machine points, worktop supports, cable management packaging items for demonstration of minimum ten packaging cycles (each with minimum 50 flowers)	under section A1) with Manual sealing machine (impulse sealer) Compatible with: Butter paper, Poly sleeves, Corrugated flower boxes b) Vacuum Packaging : Vacuum packing machine: Chamber type: Single Chamber having Sealing bar 500 mm, Stainless steel body Capacity: Suitable for flower bunches / loose flowers Vacuum pump: Oil-sealed rotary type, Sealing width: ≥ 8 mm Power: Single phase, 220-230 V Includes: Starter kit & Operator training
1.60	Crates+racks+trolley for demonstration of minimum ten cycles (each with minimum 50 flowers)	Included in each sections mentioned above. Unit: LS, Qty: 30 (10+10+10) Minimum Technical Specifications: Crates: Food-grade plastic, Stackable & washable Racks: MS powder-coated / SS Trolleys: Heavy-duty wheels, SS/MS frame Includes: Placement, Alignment, Load testing
1.70	Portable Spectrophotometer / Colour Measuring Meter (Textile + Flowers)	Micro processor Visible Spectrophotometer, 16 x 2 Alpha Numeric LCD Display. Photometric Range : % T: 0 to 100%, Abs : 0.097 – 2.000, Conce, 0-1000 Photometric accuracy: \pm % T Data Readout: Single Line LCD Display Key Board: 4 Keys, Soft touch membrane type Light Source: Tungsten Halogen Lamp Detector: Wide range Silicon Photodiode Sample Holder: 4 position adjustable sample holder Wavelength: 325 nm to 1000 nm Spectral Bandwidth & Accuracy: 5 nm, \pm 2.0 nm Power Supply: 220 V/ 50 Hz
1.80	Portable Headspace Gas Analyzer (O ₂ + CO ₂) for head space analysis of packed flowers	Industry : : Food and Pharmaceuticals Gas : Oxygen, Carbon Dioxide Application : Gas Flushing of Food, Headspace Analysis Oxygen range : Auto ranging from 0.001 to 100% Carbon dioxide range : Auto ranging from 0.1 to 100% Response time : <5 seconds (O ₂), <10 seconds (CO ₂) Weight : 4kg (9lbs) Dimensions : 305W x 254D x 152H mm (13.5W x 11.5D x 5.7H inches) Can piercing station : For analysis of rigid cans and jars as well as polypacks

2.0 Drying unit (for Flowers) with Lighting & Exhaust System

Sl. No.	Name of the Item	Details Specification
2.10	Cabinet Dryer for Marigold and other flowers , Dimension of Tray : 16'' x 32'' x 1'' size. No of treys : 24. Temperature 40-70 °C with extra 24 sets of treyes with SS net	1) Design Basis (Performance Requirement) Feed (fresh flowers): 100 kg/batch Initial moisture: 70-80% (w.b.) Final moisture: below 25% (w.b.) Drying time: ≤ 50 h/batch Drying temperature (air set point): 45–50 °C (max)

Sl. No.	Name of the Item	Details Specification
		<p>Product temperature: not exceeding 50 °C Application: marigold / loose flower biomass (petals/whole heads), food/processing grade MOC : Inner Chamber with Aluminium sheet. Centre Chamber with G.I. Sheet. Outer cabinet with Mild steel sheet. Finish : Synthetic Grey enamel paints. Insulation : 75mm thick layer of glass wool. Heater: BDH Nichrome wire make. Temp. Control : Digital PID Controller with sensor. Air circulation and Exhaust : 2 nos 0.5 H.P. motorized blowers. Tray : Aluminium perforated sheet. Dimension of Tray : 16” x 32” x 1” size. No of Trays : 24. No of Trays : 24 (with perforated sheets) and extra 24 treys with SS net (2mm Mesh) and 20 alluminium solid treys (35 cmX25 x5 cm) for embedded drying of flowers Power : 440 volts. Three phase AC only.</p>
2.20	Moisture-control storage support with Dehumidifier for an area (6 ft BX6ft LX6 ft H) for storing dried flowers (maintaining RH at 20-30%)	<ul style="list-style-type: none"> • Type: Industrial refrigerant dehumidifier (preferred) or desiccant type • Moisture removal capacity: ≥20–30 L/day at 30°C, 80% RH • Air circulation: built-in fan with ≥250–400 m³/h airflow • Control: digital humidistat with setpoint control (30–40% RH)

3.0 Lutein extraction unit with Super Critical carbon di oxide

Sl. No.	Name of the Item/ Equipment	Details Specification
3.10	Supply, fabrication & installation of a 10x2 liter capacity Supercritical Fluid E xtraction Machinery. @400 Kg/cm ² , for Lutein Extraction from Marigold Pellets with Containers for storing pure lutein , carbon di oxide cylinders and all co solvents (Hexane) for running minimum 20 batches (each batch with 5+5 =10 kg batch)	<p>SOLID RAW MATERIAL: Batch wise operation for solid raw material for extraction with 10 litres liquid volume capacity two extractors (10 lts x 2).</p> <p>The package unit (Plant & Machinery) offered shall have all the equipment/components necessary for a complete, turkey unit (Plant, Machinery) including extractors, piping, needle valves, Co2 storage vessel, separators, pumps, heat exchangers, instrumentation & control, Chilling Unit. All items shall be packed onto a skid with all componen ts mounted, piped & wired as necessary.</p> <p>The material of construction (MOC) of the surface in contact with Co2 will be SS316, rest will be suitable carbon steel.</p> <p>In addition the system shall be factory tested at the operating conditio ns prior to dispatch to ensure proper operation of all the components and the system as a whole.</p> <ol style="list-style-type: none"> 1. <u>EXTRACTOR PRESSURE VESSELS:</u> <ol style="list-style-type: none"> A) No. in system : 2 B) Capacity: 10 litres (10 x2=20 LTR) C) Design pressure: 600 Kg/cm² D) Operating pressure: 400 Kg/cm² E) Material of construction: SS316 F) Ends: Quick opening lid with pressure interlock 2. <u>Co2 STORAGE VESSEL:</u>

Sl. No.	Name of the Item/ Equipment	Details Specification
		<p>A) No. in system : 1 B) Design pressure:150 Kg/cm² C) Material of construction: SS316 3. <u>Co2 & OIL SEPARATOR (High pressure)</u> A) No. in system : 1 B) Design pressure:300 Kg/cm² C) Material of construction: SS316 D) Pressure Control: through needle valve/BPRV 4. <u>Co2 & OIL SEPARATOR (Low Pressure)</u> A) No. in system : 1 B) Design pressure:150 Kg/cm² C) Material of construction: SS316 D) Pressure Control: through needle valve/BPRV 5. <u>Co2 CONDENSING HEAT EXCHANGERS:</u> A) No. in system : 2 B) Design pressure: 120 Kg/cm² C) Material of construction: SS316 D) Cooling Media: Cold water generated from Chilling Plant 6. <u>SUPER HEATER HEAT EXCHANGER:</u> A) No. in system : 1 B) Design pressure: 600 Kg/cm² C) Operating pressure: 400 Kg/cm² D) Material of construction: SS316 E) Heating Media: Electric heating element and water 7. <u>PRE SEPARATOR HEAT EXCHANGER:</u> A) No. in system : 1 B) Design pressure: 300 Kg/cm² C) Operating pressure: 200 Kg/cm² D) Material of construction: SS316 E) Heating Media: Electric heating element and water. 8. <u>SUPER CHILLER HEAT EXCHANGER:</u> A) No. in system : 2 B) Design pressure: 120 Kg/cm² C) Material of construction: SS316 D) Cooling Media: Cold water generated from Chilling Plant 9. <u>OIL TRAP VESSEL:</u> A) No. in system : 1 B) Design pressure:200 Kg/cm² C) Material of construction: SS316 D) Design Temperature : -5° to 80° C 10. <u>HIGH PRESSURE PUMP (for Co2)</u> A) No. in system : 1 B) Maximum operating pressure : 400 Kg/cm² C) Design Temperature : -5° to 80° C D) Drive: 3 Ph motor with planetary gearbox E) Liquid end : Stainless steel SS316 F) The pump is provided with pressure switch, pressure relief valve 11. <u>HIGH PRESSURE PUMP (for Co-Solvent like Methanol, Ethanol)</u> A) No. in system : 1 B) Maximum operating pressure : 400 Kg/cm² C) Design Temperature : -5° to 80° C D) Drive: 3 Ph motor with planetary gearbox E) Liquid end : Stainless steel SS316</p>

Sl. No.	Name of the Item/ Equipment	Details Specification
		<p>F) The pump is provided with pressure switch, pressure relief valve</p> <p>12. <u>Co- Solvent Reservoir</u> :</p> <p>A) No. in system : 1</p> <p>B) Connected to Co-solvent Suction line</p> <p>13. <u>Electric and Electronic Wiring</u> :</p> <p>A) All required types of wiring and cabling according to character and load.</p> <p>14. <u>Co2 Cylinder heating Pad</u> :</p> <p>A) No. in system: 1</p> <p>15. <u>Hot Water Reservoir</u> :</p> <p>A) No. in system : 1</p> <p>16. <u>CONTROL PANEL</u>:</p> <p>A) Type : Manual Control</p> <p>B) Temperature indicators, control</p> <p>C) Pressure Indicators</p> <p>D) The panel has the necessary safety interlock switches and spare connections.</p> <p>17. <u>ALL PIPING</u></p> <p>A) Design pressure: 600 Kg/cm²</p> <p>B) Operating pressure: 400 Kg/cm²</p> <p>C) Material of construction:SS316 and welded joints and Quick opening connectors</p> <p>D) Design Temperature : -5° to 80° C</p> <p>18. <u>Open/ Close/ Isolation Needle valves</u> :</p> <p>A) Needle valves: at suitable positions: 30 no.</p> <p>B) Design pressure: 600 Kg/cm²</p> <p>C) Operating pressure: 400 Kg/cm²</p> <p>19. <u>Open/ Close/ Isolation Ball valves</u> :</p> <p>A) Ball valves: at suitable positions: 5 no.</p> <p>B) Design pressure: 200 Kg/cm²</p> <p>C) Operating pressure: 80 Kg/cm²</p> <p>20. <u>Pressure Control Valve</u>:</p> <p>A) Control valve at suitable positions: 2 no.</p> <p>B) Design pressure: 600 Kg/cm²</p> <p>C) Operating pressure: 80 to 400 Kg/cm</p> <p>21. <u>Pressure Relief Valve</u>:</p> <p>A) Safety valve at suitable positions: 4 no.</p> <p>B) Design pressure: 600 Kg/cm²</p> <p>C) Operating pressure: 80 to 400 Kg/cm</p> <p>22. <u>Pressure Gauges</u>.</p> <p>A) No in system : 6</p>
3.20	<p>Motorised Pellet Machine, Capacity: 60-90 Kg/hr, with 3HP motor yielding firm pellets with marigold dried florets (moisture 18-20%)</p>	<ul style="list-style-type: none"> • Pellet mill type: Flat-die / ring-die pellet machine suitable for Suitable for marigold semi wet florets / mash; Hopper: SS hopper preferred • Output capacity: 60–90 kg/hr minimum on marigold dust / chopped marigold florets (capacity to be declared against raw material). • Pellet diameter: 8 mm die (die holes 8 mm) with provision to change dies to 6 mm. Two sets of dies (8 mm and 6 mm) to be installed in the machine as per requirement. • Motor power: 3 HP (copper winding preferred). • Supply: 230 V, single phase, 50 Hz (preferred) <i>or</i> 415 V, 3-phase (acceptable if offered). • Safety: MCB/overload protection, emergency stop, proper earthing.

The successful bidder shall provide complete electrical integration of all supplied equipment on **Supply, Installation, Testing & Commissioning (SITC) basis**, . Minimum **12 months Warranty** on supplied items & Service response within **72 hours** ,including but not limited to:

A. Machine-Related Electrical Components

- All internal wiring of machines
- Control panels (PLC/manual panels as applicable)
- MCC panels / starter panels
- Contactors, relays, MCB/MCCB, overload protection
- VFD (where required)
- Temperature/pressure controllers
- Digital PID controllers (for dryer / SFE)
- Emergency stop switches
- Interlocking systems (mandatory for SFE)

B. Power & Interconnection

- All interconnecting cables between machine components
- Motor wiring (pellet machine, dryer blowers, pumps, compressors)
- Electrical interconnection of:
 - Walk-in-cooler refrigeration unit
 - Split AC units
 - SFE high-pressure pumps
 - Chilling unit
 - Control panel & instrumentation
- Cable glands, lugs, ferruling, labeling
- Proper earthing of equipment frame
- Internal cable trays / conduits

C. Compliance

- Industrial grade copper FRLS cables
- Proper crimping & terminal blocks
- Panel dust-proof and moisture-resistant
- Compliance with relevant IS electrical standards
- Flameproof/explosion-safe electrical fittings in solvent handling area (SFE section)

No extra payment shall be claimed for internal electrical accessories required for safe and complete operation of supplied equipment.

D. Only the following basic amenities will be provided:

- One Workshed of 30ftX40 ft dimension with main electrical supply point (DB) inside the workshed to establish 3 phase lines of required load (nearly 50 kVA).
- Basic power cable from nearest panel to VTPN DB to designated machine connection point for 415 V, 3-Phase, 50 Hz supply (where required)
- 220 V, Single Phase, internal wiring only for operating AC, ceiling fans/industrial fans (Maximum 5) and lights
- Main earthing pit connection

E. The University shall NOT be responsible for:

- Internal machine wiring
- Panel fabrication
- Motor control wiring
- Additional load distribution inside equipment
- Electrical accessories required for machine functionality

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