

Vellore Apicultural Technology Management Society (VATMA)

No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055

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TENDER DOCUMENT – HONEY PROCESSING PLANT

1 Introduction:

Sealed Tenders are invited by **Vellore Apicultural Technology Management Society (VATMA), No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055**, the Special Purpose Vehicle (SPV) of Honey Cluster, Vellore district from reputed Manufacturers, Distributors or authorized Dealers for the supply, installation, testing and commissioning of the following machinery & equipment for the Common Facility Centre to be set up at **No:38, Bajannai Koil Street, Pappanthoppu Village, Kattuputhur Post, Kanniyambadi Block, Vellore District - 632058**, with financial assistance under the **Micro Cluster Development Programme (MCDP) of Government of Tamil Nadu**.

Sl. No.	Particulars	Quantity	Period of completion
1	<p>Marthandam type (Apis Cerana Indica) - Bee Hives box with stand</p> <p>Box details: Locking model Mahogani wood with colour (outer) painted beehive box with brood chamber 6 teakwood frames full set Honey bees & Super chamber 5 empty teak wood frames.</p> <p>Bee Hives box Dimensions are</p> <ul style="list-style-type: none">Floor Board (Single Piece) - 285 x 225mm – Thickness 18 mmBrood frame - 240 x 153 x 30 mm – Thickness 8 mmBrood Chamber : Outside – 270 x 225 x 165 mm – Thickness 12 mmBrood Chamber : Inside – 243 x 200 x 165 mm – Thickness 12 mmSuper Frame : 240 x 115 x 30 mm – Thickness 8 mmSuper Chamber : Outside – 270 x 225 x 115 mm – Thickness 12 mmSuper Chamber : Inside – 243 x 200 x 115 mm – Thickness 12 mmRoof Top Outside - 270 x 225 x 40 mm – Thickness 12 mmBee Hives Stand – 4 Leg steel rod 8mm diameter and 610 mm height.Additional Super Frame: 240 x 115 x 30 mm – Thickness 8 mm – 3000 Nos.	1500 nos	2 Months
02	<p>Beekeeping safety equipment kit</p> <ul style="list-style-type: none">Bee Gloves pair (Rubber)Bee Gloves pair (Leather)Bee veilBee Protective suitBee BrushStainless Steel KnivesStainless Steel SmokerPollen TrapStainless Steel Hive ToolQueen Bee Marker PenQueen ExcluderBeekeeper Boots	25 Sets	2 Month

03	<p>Honey Processing Plant (50kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 50kg Capacity Double jacketed vessel for Pre heating raw honey. Consists of Electric Heating Coils (4000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make) Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make) Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE) For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor (Kirloskar/ABB/Crompton)</p> <p>c) INERMEDIATE TANK 50kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE) For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor</p> <p>e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>f) WATER COLLECTOR The extracted water will store in this mini chamber (25 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p>	1 no	2 Months
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<p>04</p>	<p>g) VACUUM PUMP Single stage Oil Type Vacuum Pump having max. suction capacity of 18 m3/hr max vacuum of 0.05mm of hg with 1HP Kirloskar/ABB/Crompton make Motor</p> <p>h) FRP COOLING TOWER FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.</p> <p>i) COOLING WATER PUMP 1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.</p> <p>j) HOT WATER GENERATOR SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>k) HOT WATER PUMP: 1HP SS304 Grade Self Priming Hot Water Pump.</p> <p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p>Special Note: -</p> <ul style="list-style-type: none"> All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. <p>Honey Processing Plant (300kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 300kg Capacity Double jacketed vessel for Pre heating raw honey. Consists of Electric Heating Coils (8000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make)</p>	<p>1 no</p>	<p>2 Months</p>
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Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make)
Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE)

For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor (Kirloskar/ABB/Crompton)

c) INTERMEDIATE TANK

300kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE)

For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor

e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY

Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

f) WATER COLLECTOR

The extracted water will store in this mini chamber (35 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

g) VACUUM PUMP

Single stage Oil Type Vacuum Pump having max. suction capacity of 45 m³/hr max vacuum of 0.05mm of hg with 2HP Kirloskar/ABB/Crompton make Motor

h) FRP COOLING TOWER

FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.

i) COOLING WATER PUMP

1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.

	<p>j) HOT WATER GENERATOR SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>k) HOT WATER PUMP 1HP SS304 Grade Self Priming Hot Water Pump.</p> <p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p>Special Note: -</p> <ul style="list-style-type: none"> ➤ All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. ➤ Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. 		
05	<p>Manual Honey Extractor - 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm • Inner Dia: 308mm • Inner Height: 380mm 	10 Nos	2 Months
06	<p>Motorized Honey Extractor – 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> ▪ Material of Construction: SS304 for contact parts. ▪ Sheet Thick: 1mm ▪ Inner Dia: 308mm ▪ Inner Height: 380mm 	1 No	2 Months
07	<p>Motorized Honey Extractor – 4 Frames Apis Mellifera</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm 	1 No	2 Months
08	<p>Air Tight Storage Tank - 1,000kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months
09	<p>Air Tight Storage Tank - 500kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months

10	Honey Transfer Pump with Trolley <ul style="list-style-type: none">Motor, Gearbox with Lobe Pump – Trolley model (Movable Type)	1 No	2 Months
11	Bee Wax Foundation Sheet Machine – Manual Operated for Apis Cerana Indica Specification : <ul style="list-style-type: none">Cell Size 4.3mm (Shell Wall 0.5mm)Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mmRoller Length: 253mm, Roller Dia: 65.5mmCapacity 100 Kg/hr	1 No	2 Months
12.	Bee Wax Foundation Sheet Machine - Manual operated for Apis Mellifera <ul style="list-style-type: none">Cell Size 4.3mm (Shell Wall 0.5mm)Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mmRoller Length: 253mm, Roller Dia: 65.5mmCapacity 100 Kg/hr	1 No	2 Months

- The tenders should be quoted separately for each item of the equipment's notified in the tender notice.
- All tenders must be submitted in the format prescribed for the purpose available in the **Annexure – I** and all tenders must be submitted in the format prescribed for the purpose available in the **Annexure – V**.
- Tenders can be obtained in person on or **before 30/06/2024 at 03.00 PM**. Such tenders shall be dropped in the Tender Box kept at **No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055**, on or **before 01/07/2024 at 03.00 PM** Alternatively, the Tenderer who prefers to submit the tender through post/ courier, can dispatch the same through Registered Post or Courier with acknowledgement so as to reach the above address on **before 01/07/2024 at 03.00 PM**
- The tender document should be signed by the tenderer at all pages with office seal.
- All tenders must be accompanied by Earnest Money Deposit (EMD) as specified in the document and must be furnished with the technical bid.

Note:

- EMD exempted for the Micro and Small Enterprises (MSE) registered under NSIC/ Udyog Aadhar Memorandum / UDYAM registration certificate obtained from MSME.
- The tenders received **after 01/07/2024 at 03.00 PM** will be summarily rejected
- If holiday comes on the day of opening of tender, the next working day will be the last day for acceptance of the technical bid.

Date of issue of Tender	10/06/2024 at 10.00 AM.
Date of Pre-Bid Meeting	20/06/2024 at 10.00 AM.
Last date for receipt of Tender	01/07/2024 at 10.00 AM.
Date of Opening of Technical Tenders	03/07/2024 at 10.00 AM.

2 Eligibility Criteria:

- a. In case the bidder is an Original Equipment manufacturer, they shall have to furnish the following:
 - i. The Tenderer should be a registered legal entity.
 - ii. The Tenderer should have minimum 5 years of experience in manufacturing of item mentioned above. A duly attested photocopy of Manufacturing License for the products approved by the Licensing authority of the country of origin for each and every product quoted. The license must have been renewed up to date and the item quoted shall be clearly highlighted in the license.
 - iii. The tenderer should have supplied to 10 units in India.
 - iv. The bidder should impart necessary training to operate the equipment. Certificate / Declaration to be attached.
 - v. The average annual turnover of the tenderers in the previous 3 financial/ accounting years shall be not less than 5 times the value of the equipment proposed to be supplied.
 - vi. The documents in proof of the above should be attached with the "Technical Bid" envelope.
- b. In case the bidder is the Authorized Dealer/ Agent/ Recognized Industrial Distributor quoting on behalf of their Principal, they shall have to furnish the following:
 - i. The Tenderer should be a registered legal entity.
 - ii. The Tenderer should have minimum 5 years of experience in trading/ selling & distributing of item mentioned above. Valid Authorization/ Dealership Certificate from their principal. Documents to indicate the precise relationship between their principal will be given preference.
 - iii. The Tenderer should quote with tender, specific authorization from their principal.
 - iv. The Tenderer should furnish performance statement/ declaration giving list of major supplies effected to firms in South India/ India with supporting documents during the past 3 years giving the details of purchaser's name and address, quantity supplied & whether the supply was made within the delivery schedule.
 - v. The Tenderer should submit Manufacturer's Test Certificate & Guarantee / Warranty Certificate with each lot of supply. (Note: Enclose certificate of origin of machinery.)
 - vi. The average annual turnover of the tenderer in the previous 3 financial/ accounting years shall be not less than 5 times the value of the equipment proposed to be supplied. (Note: While calculating the turnover, clubbing of turnover of parental or sister concerns are not allowed.)
 - vii. The documents in proof of the above should be attached with the "Technical Bid" envelope.

3 Pre-Bid Meeting

There will be a Pre-Bid Meeting on **20/06/2024 at 10.00 AM** in the **Vellore Apicultural Technology Management Society (VATMA), No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055**, during which the prospective tenderers can get clarifications about the tender. The tenderers shall send their queries in writing (if any) so as to reach the SPV at least two days prior to the pre-bid meeting date.

Note: Non attending of pre-bid meeting is not a disqualification.

4 Submission of Tender:

The bidder should submit one tender for item I with two separate sealed envelopes A & B for each item as explained below. Both the envelopes shall be put in a single sealed envelope and superscribed as "Bid submitted for supply of

Sl. No.	Particulars	Quantity	Period of completion
1	<p>Marthandam type (Apis Cerana Indica) - Bee Hives box with stand</p> <p>Box details: Locking model Mahogany wood with colour (outer) painted beehive box with brood chamber 6 teakwood frames full set Honey bees & Super chamber 5 empty teak wood frames.</p> <p>Bee Hives box Dimensions are</p> <ul style="list-style-type: none"> • Floor Board (Single Piece) - 285 x 225mm – Thickness 18 mm • Brood frame - 240 x 153 x 30 mm – Thickness 8 mm • Brood Chamber : Outside – 270 x 225 x 165 mm – Thickness 12 mm • Brood Chamber : Inside – 243 x 200 x 165 mm – Thickness 12 mm • Super Frame : 240 x 115 x 30 mm – Thickness 8 mm • Super Chamber : Outside – 270 x 225 x 115 mm – Thickness 12 mm • Super Chamber : Inside – 243 x 200 x 115 mm – Thickness 12 mm • Roof Top Outside - 270 x 225 x 40 mm – Thickness 12 mm • Bee Hives Stand – 4 Leg steel rod 8mm diameter and 610 mm height. • Additional Super Frame: 240 x 115 x 30 mm – Thickness 8 mm – 3000 Nos. 	1500 Nos	2 Months
02	<p>Beekeeping safety equipment kit</p> <ul style="list-style-type: none"> • Bee Gloves pair (Rubber) • Bee Gloves pair (Leather) • Bee veil • Bee Protective suit • Bee Brush • Stainless Steel Knives • Stainless Steel Smoker • Pollen Trap • Stainless Steel Hive Tool • Queen Bee Marker Pen • Queen Excluder • Beekeeper Boots 	25 sets	2 Months
03	<p>Honey Processing Plant (50kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 50kg Capacity Double jacketed vessel for Pre heating raw honey. Consists of Electric Heating Coils (4000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP</p>	1 No	2 Months

Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make) Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make) Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE)

For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor (Kirloskar/ABB/Crompton)

c) INTERMEDIATE TANK

50kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE)

For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor

e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY

Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

f) WATER COLLECTOR

The extracted water will store in this mini chamber (25 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

g) VACUUM PUMP

Single stage Oil Type Vacuum Pump having max. suction capacity of 18 m³/hr max vacuum of 0.05mm of hg with 1HP Kirloskar/ABB/Crompton make Motor

h) FRP COOLING TOWER

FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.

04	<p>i) COOLING WATER PUMP 1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.</p> <p>j) HOT WATER GENERATOR SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>k) HOT WATER PUMP: 1HP SS304 Grade Self Priming Hot Water Pump.</p> <p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p><u>Special Note: -</u></p> <ul style="list-style-type: none"> • All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. • Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. <p>Honey Processing Plant (300kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 300kg Capacity Double jacketed vessel for Pre heating raw honey. Consists of Electric Heating Coils (8000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make) Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make) Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE) For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor</p>	1 No	2 Months
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(Kirloskar/ABB/Crompton)

c) INTERMEDIATE TANK

300kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE)

For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor

e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY

Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

f) WATER COLLECTOR

The extracted water will store in this mini chamber (35 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

g) VACUUM PUMP

Single stage Oil Type Vacuum Pump having max. suction capacity of 45 m³/hr max vacuum of 0.05mm of hg with 2HP Kirloskar/ABB/Crompton make Motor

h) FRP COOLING TOWER

FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.

i) COOLING WATER PUMP

1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.

j) HOT WATER GENERATOR

SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

k) HOT WATER PUMP

1HP SS304 Grade Self Priming Hot Water Pump.

	<p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p>Special Note: -</p> <ul style="list-style-type: none"> ➤ All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. ➤ Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. 		
05	<p>Manual Honey Extractor - 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm • Inner Dia: 308mm • Inner Height: 380mm 	10 Nos	2 Months
06	<p>Motorized Honey Extractor – 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> ▪ Material of Construction: SS304 for contact parts. ▪ Sheet Thick: 1mm ▪ Inner Dia: 308mm ▪ Inner Height: 380mm 	1 No	2 Months
07	<p>Motorized Honey Extractor – 4 Frames Apis Mellifera</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm 	1 No	2 Months
08	<p>Air Tight Storage Tank - 1,000kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months
09	<p>Air Tight Storage Tank - 500kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months
10	<p>Honey Transfer Pump with Trolley</p> <ul style="list-style-type: none"> • Motor, Gearbox with Lobe Pump – Trolley model (Movable Type) 	1 No	2 Months

11	<p>Bee Wax Foundation Sheet Machine – Manual Operated for Apis Cerana Indica</p> <p>Specification :</p> <ul style="list-style-type: none"> • Cell Size 4.3mm (Shell Wall 0.5mm) • Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mm • Roller Length: 253mm, Roller Dia: 65.5mm • Capacity 100 Kg/hr 	1 No	2 Months
12.	<p>Bee Wax Foundation Sheet Machine - Manual operated for Apis Mellifera</p> <ul style="list-style-type: none"> • Cell Size 4.3mm (Shell Wall 0.5mm) • Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mm • Roller Length: 253mm, Roller Dia: 65.5mm • Capacity 100 Kg/hr 	1 No	2 Months

5 Technical Bid – Envelope “A”

The tenderer should furnish, along with the tender, the following item in a separate envelope hereafter called “**Envelope A**”.

- a. Earnest Money Deposit in the form of Demand Draft favouring the **Vellore Apicultural Technology Management Society (VATMA)**, payable at **Vellore** as the EMD.
- b. List of major supplies effected to firms in India during the past 5 years with supporting documents.
- c. Audited balance sheet, profit and loss statement duly certified by Chartered Accountant indicating the annual turnover for the previous 3 financial/ accounting years.
- d. Documentary evidence for the constitution of the firm such as Memorandum of Association (MoA) and Articles of Association (AoA), Partnership deed etc. with details of the Name, Address, Telephone Number, e-mail address of the firm and of the Managing Director/ Partners / Proprietor.
- e. Authorisation like Power of Attorney, resolution of Board, for the Signatory of the firm who has signed the tender documents and also authorisation for participation in the Tender proceedings.
- f. Declaration form in **Annexure-IV** for acceptance of all tender conditions and to the effect that the tenderer has not been blacklisted by any State Government/ Central Government and/or any State/ Central Public Sector undertakings/ Financial Institutions, etc., as per **Annexure-V**.
- g. Technical Specifications for the above machinery/equipment/ items are available in the **Annexure – III**.
- h. All technical details about the items quoted including technical specifications, specifications of the material used, dimensions, machine drawings, foundation drawings, software etc. as applicable.

- i. Photocopies of valid respective GST, SGST or IGST and Excise registration certificates and attested copy of the Company PAN Card.
- j. In case of tenderer being manufacturer:
 - i. Proof of manufacturing of respective item for a minimum of 5 years.
 - ii. A duly attested photocopy of Manufacturing License for the products approved by the Licensing authority of the country of Origin for each and every product quoted. The license must have been renewed up to date and the item quoted shall be clearly highlighted in the license.
- k. In case of tenderer being a Non manufacturer
 - i. Valid Authorization/ Dealership Certificate from their Principal
 - ii. Documents to indicate the precise relationship between their principal will be given preference.

6 Commercial Bid – Envelope “B”

- a. The tenderer shall indicate the rate offered by them by filling up the **Annexure - I** and submit the same in a separate sealed cover superscribed as “**Envelope B**”

7 Opening of Tender:

- a. The tenders shall be opened by the Purchase Committee constituted by the **Vellore Apicultural Technology Management Society (VATMA), No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055** at the time, date and venue as given in the “Tender Notice”.
- b. Tenders will be opened in the presence of tenderers / representatives who choose to attend on the specified date and time.
- c. The Envelope A superscribed as “Technical Bid” will be opened first. The Envelope “B” superscribed as “Commercial Bid” will be opened only if the documents required in the “Technical Bid” are found in order as per tender conditions.
- d. **Vellore Apicultural Technology Management Society (VATMA)** reserves the right to visit the manufacturer’s / distributor’s premises to verify the authenticity and capability of the Tenderer.
- e. If “Technical Bid” is not submitted along with the required particulars, then the “Commercial Bid” envelope will not be opened and the tender will be rejected.
- f. The Technical Bid in Envelope A will be opened on **03/07/2024 at 10.00 AM.**(i.e.) The tender opening day at the Office of the **Vellore Apicultural Technology Management Society (VATMA), No:19, B B Builders camps, Tulips Hermitage, Pennathur Road, Ariyur, Vellore – 632 055**, by the SPV in the presence of such of those tenderers or their representatives. The tenderers or their representatives who choose to be present at the time of opening of the Tenders should bring a letter of authority from the Tenderers, whom they represent to identify their Bonafide.
- g. Only after evaluation of the technical bids are completed the Commercial Bid will be opened. The date of opening of the commercial bid may be the same day as the technical bid opening or any other date as decided by the SPV whatever the decision regarding the commercial bid opening, it will be communicated to the bidders who are qualified for the technical bid.
- h. Purchase Committee will not be responsible for any typographical errors/ ambiguity/ additions/ omissions committed by the bidder while filling up of the tender.

8 Technical Bid Details:

- a. Compliance to technical specifications of the machinery/equipment/items for which bids are submitted as given in **Annexure III**. Compliance should be in same sequence as of specifications mentioned in documents. The range specified in the technical specifications should have min. or max. as the case may be.
- b. Proof that the bidder is (i) either manufacturer or (ii) an authorized distributor/authorized dealer or (iii) reputed supplier for the machinery/equipment/ items for which the bid is submitted. Power of attorney/authority letter authorizing the person who has filed the tender, if applicable.
- c. List of customers/ organizations in India, along with Contact Person, address, Tel. No./Mobile No., Fax No., email id, etc., to which similar machinery/ equipment/ items were supplied & successfully commissioned.
- d. The probable life expectancy of the machines as specified in the tender under normal conditions of operation should be minimum 15 years.
- e. All the details of pre-installation requirements including space, power supply, environmental conditions, special structures, standard operating practices / operating manuals, preventive & regular maintenance schedule recommendation charts, if any.
- f. Tenders are not transferable.
- g. Unclear tenders will not be accepted.
- h. The Tenders should be accompanied by all the particulars requested in the schedule including process flow chart / technical specifications, specifications of the material used, dimensions, drawings, foundation drawings etc. of the respective item quoted if necessary.

9 Commercial Bid Details:

- a. The rates should be quoted in Indian Rupees (INR), both in figures and words. The rates quoted shall be inclusive of Cost, Packaging, Freight, Insurance, erection & commissioning, testing, training to technical staff to operate the machinery/ equipment etc. up to our site **No:38, Bajannai Koil Street, Pappanthoppu Village, Kattuputhur Post, Kanniyambadi Block, Vellore District - 632058**, Basic price of supply to be mentioned with GST/ Customs duty, freight and forwarding charges, handling charges and any other tax/ charge as applicable to be mentioned separately.
- b. The rates shall be written both in figures and words legibly. The rates shall be written both in words and in figures. The bidder shall also show the amount of each item, the total of each section and the grand total of the whole tender as specified. Corrections (if any) shall be made out by crossing out, initialing, with date and rewriting and overwriting if any, shall also be initialed. If the bidder does not accept the correction of the errors, his/her/its tender documents will be rejected.
- c. The Custom duty/ GST if any, included in the tender should be mentioned separately so that the amount may be deducted, if consignment is cleared without payment of duty. The rate of customs duty and the notification No. etc. shall be furnished, if applicable.

10 Earnest Money Deposit (EMD)

- a. The Tender must be accompanied by a deposit value equivalent to 1% of the cost of the machineries proposed by the tenderer. This EMD can be in the form of Demand Draft OR Bank Guarantee in the favour of **Vellore Apicultural Technology Management Society (VATMA)**, payable at any Nationalized Bank in Vellore.

- b. The EMD should be submitted along with the Technical Bid (i.e., Envelope Marked "A"). Any Tender submitted without EMD in the Technical Bid envelope, will be summarily rejected.
- c. Micro and Small (Manufacturing) Enterprises that have received the Acknowledgment for Entrepreneur Memorandum, Udyog Aadhar Memorandum, and UDYAM obtained from the Industries Commissionerate & Directorate of Industries & Commerce from MSME will be exempt from payment of EMD, irrespective of the items manufactured by them.
- d. Micro and Small (Manufacturing) Enterprises registered with National Small Industries Corporation" will be granted exemption" from payment of EMD irrespective of items manufactured by them.
- e. The EMD submitted by way of Cash, Cheque, and Postal Orders will not be accepted.
- f. The EMD of the unsuccessful bidder will be returned within 60 days from the date of opening of the financial bids, consistent with the rules and regulations.
- g. The EMD amount held by the SPV, till it is returned to the unsuccessful tenderers will not earn any interest thereof.
- h. In case the tender is withdrawn by the successful bidder after it is opened, the EMD will be forfeited.
- i. The EMD amount of successful bidder will be adjusted against the Performance Security Deposit to be furnished by the successful bidder.

11 Performance Security Deposit:

- a. The successful tenderers will be required to furnish security deposit equivalent to 5% of the value of the item quoted, within 15 days of execution of agreement in the form of either Demand Draft or unconditional irrevocable Bank Guarantee valid for 12 months from the date of agreement, renewable if the completion of the project is extended beyond the agreement period.
- b. Bank Guarantee/ Security Deposit will be refunded after the supplies are completed in full and received in good condition without loss or damage and installed commissioned satisfactory working of machinery/ equipment as certified by the technical experts and on the expiry of guarantee/ warrantee period.
- c. The Security Deposit held by the SPV, till it is released to the successful tenderer will not earn any interest thereof.
- d. If the tenderer fails to act as per tender document or backs out after his tender accepted, his security deposit will be forfeited.

12 Authority of Signing:

- a. If the tender is submitted by an individual, it shall be signed by him. If the tender is submitted by a proprietary firm, it shall be signed by the proprietor. If the tender is submitted by a partnership firm, it shall be signed by all the partners of the firm or by a partner holding the power of attorney for the firm for signing the tender, in which case, a certified copy of power of attorney shall accompany the technical bid. If the tender is submitted by a limited company or a corporation, it shall be signed by a duly authorized person or the person holding the power of attorney for signing the tender, in which case a certified copy of the power of attorney shall accompany the technical bid.

- b. The Tenderer must sign and affix their seal in every page of the tender document and the complete signed original tender documents must be submitted in the respective envelopes.

13 Validity of the Tender:

- a. The Tender will be valid for acceptance for a period of 90 days from the date of opening of tenders. The bidder shall not withdraw or revise or alter any conditions, rate(s) quoted within this stated period.
- b. The rate quoted by the tenderer for the materials is final and no enhancement will be allowed at any circumstances. The enhancement of rate will cause the cancellation of the supply order and forfeiture of security deposit.

14 Award of contract and Agreement

- a. The successful bidder will be issued the Letter of Acceptance.
- b. The successful bidder shall enter into an agreement in the prescribed format in a non-judicial stamp paper having value of not less than Rs.20.00 (Rupees twenty only) purchased in their favour at their cost, within 15 days of conveying the acceptance of their tender. If the successful bidder fails to execute an agreement within the stipulated time, the Letter of Acceptance will be cancelled and EMD will be forfeited.
- c. The SPV reserves all rights to reject any tenderer without assigning any reasons thereof and the same shall not be questioned on any ground, the SPV reserves the right to cancel any or all tenders without showing any specific reason.

15 Delivery Terms:

- a. The respective item should be installed and commissioned within 60 days from the date of receipt of the order. If the above item is not installed and commissioned within the period specified, the security deposit amount will be forfeited and the tender will be cancelled and loss if any for inviting fresh tenders will be made good from the defaulter.
- b. Normally no extension of time will be granted, unless there are valid reasons acceptable by the competent authority.

16 Training of Technical personnel

- a. The suppliers of the machinery/equipment should provide adequate training free of cost for at least 2 technical personnel of the CFC per equipment including trouble shooting etc., and making them confident of operating the equipment independently.
- b. Training shall be provided at the Factory site of the SPV **No:38, Bajannai Koil Street, Pappanthoppu Village, Kattuputhur Post, Kanniyambadi Block, Vellore District - 632058.**

17 Guarantee/ Warranty period:

- a. The bidder shall give warranty for at least three years in respect of items quoted.
- b. During the warranty period, regular servicing/maintenance should be undertaken free of charge, including replacement of defective parts/travel cost, etc. Subsequently, servicing/maintenance should be undertaken every 3 months by the authorized agency of the manufacturer / supplier.

- c. Delivery of the full replacement or repaired parts should be effected free of cost at the factory site without loss of time so that the down time is minimized.

18 Inspection:

- a. Before delivery of the item, pre- delivery inspection by Experts / Agencies concerned, nominated by the of **Vellore Apicultural Technology Management Society (VATMA)** shall be allowed to inspect the works and to verify the suitability according to the specifications if required.

19 Force Majeure

- a. Failure or delay in the part of tenderer for supply due to force majeure causes enumerated here under shall be considered, provided the supplier produces documentary evidence.
 - i. Any cause which is beyond the reasonable control of the tenderer.
 - ii. Natural phenomena, such as floods, drought, earthquakes and epidemics.
 - iii. Act of any Govt. Authority, domestic or foreign, such as wars declared or undeclared quarantines, embargoes licensing control on production or distribution restrictions.
 - iv. Accident and disruptions such as fire, explosion, increase in power cut with respect to date of tender opening etc.,
 - v. Strikes, slow down and lockouts.
- b. The cause of force majeure condition will be taken into consideration only if the supplier notifies within 30 days from the occurrence of such eventualities. The purchaser shall verify the facts and grant such extension as the facts justify. For extension due to force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the purchaser shall be binding on the time. However, the price quoted by the bidder and accepted by the Purchaser shall remain firm during such extended period. For the matter of clarity, Force Majeure shall not have any bearing on the price.

20 Payment Terms:

- a. 50% of cost of machinery /equipment shall be paid as advance to the supplier while confirming the purchase order, subject to release of funds from GoTN.
- b. 30% cost of machinery / equipment shall be paid on receipt of machinery at the Common Facility Centre site location of the SPV, **No:38, Bajannai Koil Street, Pappanthoppu Village, Kattuputhur Post, Kanniyanbadi Block, Vellore District - 632058.**subject to release of funds from GoTN.
- c. Balance 20% of the cost shall be paid after satisfactory installation, commissioning and performance of the machinery/ equipment at the Common Facility Centre location of the SPV and after certification by our technical expert.

21 Saving Clause:

- a. No suit, prosecution or any legal proceedings shall lie against SPV for anything that is done in good faith or intended to be done in pursuance of tender. In the event of any dispute arising out of the tender such dispute would be subject to the jurisdiction of the Civil Court **Vellore District**.
- b. The Tenderer should not have been blacklisted by any State Government/ Central Government and/or any State/ Central Public Sector undertakings/ Financial Institutions, etc., declaration to this effect shall be furnished in the Technical Bid as per **Annexure IV**.

- c. If any dispute arises in the contract, the same will have to be finalized in the court of **Vellore District**. jurisdiction.

22 Penalty clause:

- a. If the bidder fails to install and commission the respective item within the stipulated time or perform the services within the time period specified in the contract, the penalty at 1 % per week or part thereof will be imposed subject to a maximum of 5% of the total cost of work order unless the delay is due to recognised force majeure conditions.

DIRECTOR

Vellore Apicultural Technology Management Society (VATMA)

CHECK LIST

S.No.	Description	Conditions/Compliance
1	Tender Document (cash or DD in favour of SPV)	Rs. 200 (including 18% GST)
2	Signature in all pages with office seal	Must
3	Memorandum of Understanding / Articles of Association / Partnership Deed	Yes
4	EMD (DD / Bankers Cheque) Exemption for NSIC (applicable to all MSE units) and UDYAM Registration /UAM	1% of the cost of the machineries proposed by the tenderer
5	Authorisation letter for participating at the time of opening the bids	Must
6	Annexure IV (Not blacklisted)	Must
7	Technical Specifications for the machinery tendered and service offered as per Annexure – III Detailed speciation, catalogue, brochure, drawing, etc. (No deviation accepted)	Must
8	GST Registration Certificate, PAN Card	Must
9	Authorisation letter for participation	Must
10	Certificate of Authorized Distributorship/ Dealership/ Retailer ship from the Bidder/ Manufacturer	Must
11	Eligibility – Manufacturer	Must
A	Experience	5 Years
B	Performance statement showing major supplies effected during the past 3years	Yes
C	Turnover with audited Balance Sheet (last 3 years)	Rs. 3 crore
D	Manufacturer's License (Duly attested)	
12	Eligibility – Non-Manufacturer	
A	Experience	2 years
B	Authorization/ Distribution rights from manufacturer	Must
C	Performance statement showing major supplies effected during the past 2 years	Must
D	Turnover with audited Balance Sheet (last 2 years)	Rs. 2 crore
E	In case of dealers/ distributors turnover over and experience	Must
F	Principal's invoice along with their quotation & also current and valid Authorization/ Dealership Certificate of the Foreign Manufacturer/ Principal	Must
G	Submission of certificate of registration of firm authorization letter from the manufacturer/ bidder to quite the submit letter	Must
13	Photocopy of Warrantee Agreement between the Bidder and the Service Provider, if applicable.	Must
14	Technical details of the goods and services offered	Must
15	Machine must be handed over in good working condition	Must

16	Validity period of Quotation	Must
	i. Delivery Period	
	ii. Payment Terms	
	iii. Warranty	
	iv. Discount	
	v. Terms of Delivery	
	vi. Post Warranty AMC	
	vii. Performance Bank Guarantee	
	viii. Liquidated Damages	
ix. Training to the technical Staff /Workers		
17	Prices to be quoted in Indian rupees	Must
18	GST, freight and forwarding charges, handling charges, loading/unloading charges, and any other tax/charge as applicable to be mentioned separately	To be quoted in the Commercial Bid alone
19	Price quoted to be valid for	90 days
20	Bidders not submitted their bids as per the above formats	Liable to be rejected
21	No interest to be paid on the Performance Bank Guarantee.	Must
22	Declaration – Not blacklisted by the state government / central government only or any stated / central public sector undertakings / financial institutions etc.	Must

PRESCRIBED FORMAT FOR SUBMITTING TENDERS

I/We hereby quote and undertake to supply the goods as specified in the underwritten schedule in the manner in which and within the time specified as set forth in the schedule below. The quotation furnished in the schedule below is subject to the conditions set forth in the Tender notice and terms and conditions received by me/us.

I/We hereby forward a Demand Draft for Rs. [Rupees in number]/- ([Rupees in words]) towards Earnest Money Deposit drawn in favour of M/s. [Name of the SPV], and agree to have it forfeited in case of I/ We fail to supply the equipment / materials ordered by M/s. [Name of the SPV], [Address] as per the terms and conditions of Purchase Order.

Schedule of Rates

Item No.	Full description specified in the schedule	No. in each	*Rate of full set of machinery as per annexure III (CIF Value) (in rupees)	Excise duty / GST / VAT / Cess tax / Transport / Insurance as applicable*	*Total value (in rupees)	Delivery period	Name & address of the manufacturer

**The rates should be quoted in Indian Rupee only.*

COMMON ENVELOPE

CONTENTS: ENVELOPE – A & ENVELOPE – B

Bid submitted for Supply, Installation, testing and commissioning of the following machinery/ equipment.

Item	Particulars	Quantity

Along with Standard Equipment and Accessories”

Ref: Tender Notice dated: _____

NAME OF THE TENDERER: _____

To
[Name of the SPV]
[Address]

SIGNATURE & SEAL OF THE TENDERER

Envelop - A –AnnexureII, III,IV,V,VI
Envelop - B – Annexure I

**ENVELOPE – A
TECHNICAL BID**

Tender Notice dated _____

NAME OF THE TENDERER: _____

NAME OF THE ITEM (S): _____

SIGNATURE & SEAL OF THE TENDERER

Encl. Annexure Tender Schedule, Annexure II, III, IV, V, VI

**ENVELOPE - B
PRICE BID**

Tender Notice dated: _____

NAME OF THE TENDERER: _____

NAME OF THE ITEM (S) _____

SIGNATURE & SEAL OF THE TENDERER

Encl. Envelope B – Annexure I

TECHNICAL SPECIFICATIONS SHEET

Micro Cluster Development Programme facility under Micro Cluster Development Programme– Government of Tamil Nadu for M/s. [Name of the SPV], [Address].

ITEM 1: Supply, Installation, testing and commissioning of the following facilities.

Sl. No.	Particulars	Quantity	Period of completion
1	<p>Marthandam type (Apis Cerana Indica) - Bee Hives box with stand</p> <p>Box details: Locking model Mahogany wood with colour (outer) painted beehive box with brood chamber 6 teakwood frames full set Honey bees & Super chamber 5 empty teak wood frames.</p> <p>Bee Hives box Dimensions are</p> <ul style="list-style-type: none"> • Floor Board (Single Piece) - 285 x 225mm – Thickness 18 mm • Brood frame - 240 x 153 x 30 mm – Thickness 8 mm • Brood Chamber : Outside – 270 x 225 x 165 mm – Thickness 12 mm • Brood Chamber : Inside – 243 x 200 x 165 mm – Thickness 12 mm • Super Frame : 240 x 115 x 30 mm – Thickness 8 mm • Super Chamber : Outside – 270 x 225 x 115 mm – Thickness 12 mm • Super Chamber : Inside – 243 x 200 x 115 mm – Thickness 12 mm • Roof Top Outside - 270 x 225 x 40 mm – Thickness 12 mm • Bee Hives Stand – 4 Leg steel rod 8mm diameter and 610 mm height. • Additional Super Frame: 240 x 115 x 30 mm – Thickness 8 mm – 3000 Nos. 	1500 Nos	2 Months
02	<p>Beekeeping safety equipment kit – 25 sets</p> <ul style="list-style-type: none"> • Bee Gloves pair (Rubber) • Bee Gloves pair (Leather) • Bee veil • Bee Protective suit • Bee Brush • Stainless Steel Knives • Stainless Steel Smoker • Pollen Trap • Stainless Steel Hive Tool • Queen Bee Marker Pen • Queen Excluder • Beekeeper Boots 	25 Sets	2 Months
03	<p>Honey Processing Plant (50kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 50kg Capacity Double jacketed vessel for Pre heating raw honey.</p>	1 No	2 Months

Consists of Electric Heating Coils (4000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make) Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make) Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE)

For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor (Kirloskar/ABB/Crompton)

c) INTERMEDIATE TANK

50kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE)

For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor

e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY

Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

f) WATER COLLECTOR

The extracted water will store in this mini chamber (25 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

g) VACUUM PUMP

Single stage Oil Type Vacuum Pump having max. suction capacity of 18 m³/hr max vacuum of 0.05mm of hg with 1HP Kirloskar/ABB/Crompton make Motor

04	<p>h) FRP COOLING TOWER FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.</p> <p>i) COOLING WATER PUMP 1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.</p> <p>j) HOT WATER GENERATOR SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>k) HOT WATER PUMP: 1HP SS304 Grade Self Priming Hot Water Pump.</p> <p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p><u>Special Note: -</u></p> <ul style="list-style-type: none"> • All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. • Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. <p>Honey Processing Plant (300kg per batch)</p> <p>Specifications: Each drop of Honey is precisely processed in this unit. The Unit Consist of:</p> <p>a) DOUBLE JACKETED PRE-HEATING TANK (SS304 GRADE) 300kg Capacity Double jacketed vessel for Pre heating raw honey. Consists of Electric Heating Coils (8000W). Thermal insulation (Mineral wool). RTD Sensor connected with Temp controller. Slow speed agitator with Bonfiglioli make gearbox and 0.5HP Kirloskar/ABB/Crompton make Motor. Main Shell sheet thick: 3mm (SS304 Grade sheet JINDAL Make) Water jacket sheet thick: 2mm (SS304 Grade sheet JINDAL Make) Thermal Insulation covering sheet thick 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p>	1 No	2 Months
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b) SPARKLER TYPE PRE-FILTERING UNIT (SS304 GRADE)

For removing foreign particles in raw honey before entering the main processing chamber. Sparkler type 8" filter press with Six plates & suitable filters for Honey. with SS304 Grade Gear Pump with Motor (Kirloskar/ABB/Crompton)

c) INTERMEDIATE TANK

300kg Capacity SS304 Grade tank to hold the pre-heated honey before entering to the processing chamber. Sheet thick: 1.5mm (SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

d) POSITIVE DISPLACEMENT PLUNGER TYPE HONEY METERING PUMP (SS304 GRADE)

For allotting the required honey to the processing chamber Pump with SS304 contact parts. Discharge pressure: 3 KG/CM² Inlet/Outlet size: 1inch With PTFE Packing. with 0.5HP Kirloskar/ABB/Crompton make Motor

e) INTEGRATED PROCESSING CHAMBER WITH VACUUM FACILITY

Integrated Vacuum unit with suitable capacity for Separating the moisture content from honey, Evacuating the separated moisture content using a Fully air-tight & Precise vacuum pressure line and cooling the processed Honey after moisture evacuation. All the process (Separation-Evacuation-Cooling) Process are done in this integrated processing chamber. Sampling point is available for taking the sample for testing. Site glass is provided for visual inspection. Chamber Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

f) WATER COLLECTOR

The extracted water will store in this mini chamber (35 Liters). Sheet thick: 3mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.

g) VACUUM PUMP

Single stage Oil Type Vacuum Pump having max. suction capacity of 45 m³/hr max vacuum of 0.05mm of hg with 2HP Kirloskar/ABB/Crompton make Motor

h) FRP COOLING TOWER

FRP Cooling Tower (0.5HP, 15TR rating) with SS304 Grade Pipe Lines & fittings for cooling the circulated water.

i) COOLING WATER PUMP

1HP SS304 Grade Self Priming Cooling Water Pump for cooling water circulation.

	<p>j) HOT WATER GENERATOR SS304 Grade Hot water Generator (4000W Electric Type) with SS304 Grade Pipe lines & Fittings. Sheet thick: 2mm(SS304 Grade sheet JINDAL Make) Valves: SS304 Grade ball valves on all required points.</p> <p>k) HOT WATER PUMP 1HP SS304 Grade Self Priming Hot Water Pump.</p> <p>l) SS304 GRADE PIPE LINE WORKS SS304 Grade Pipeline with all required fittings for all Honey Line.</p> <p>m) CONTROL PANEL SS control panel for controlling all the items with all safety features.</p> <p>n) SS BASE FRAME & STRUCTURE All the items in the honey processing unit are perfectly fitted as a single unit with an aesthetic look on a Stainless-steel Base frame with vertical structures. 100x50x1.5mm SS Rectangle pipe for base. 40x40x1.5mm SS Square Pipe for Vertical supports.</p> <p>Special Note: -</p> <ul style="list-style-type: none"> ➤ All the pipe lines in the systems and Pumps including cooling water supply are made by SS304 Grade Pipelines & Fittings. ➤ Power Supply & Water supply: We have provided 3Ph-415V-50Hz-AC Power Supply and required water supply up to Equipment Position. 		
05	<p>Manual Honey Extractor - 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm • Inner Dia: 308mm • Inner Height: 380mm 	10 Nos	2 Months
06	<p>Motorized Honey Extractor – 4 Frames Apis Cerana Indica</p> <ul style="list-style-type: none"> ▪ Material of Construction: SS304 for contact parts. ▪ Sheet Thick: 1mm ▪ Inner Dia: 308mm ▪ Inner Height: 380mm 	1 No	2 Months
07	<p>Motorized Honey Extractor – 4 Frames Apis Mellifera</p> <ul style="list-style-type: none"> • Material of Construction: SS304 for contact parts. • Sheet Thick: 1mm 	1 No	2 Months
08	<p>Air Tight Storage Tank - 1,000kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months
09	<p>Air Tight Storage Tank - 500kg</p> <ul style="list-style-type: none"> • SS304 Sheet Thickness 3.0 mm , 3 Nos of Exit ball Value S.S 304 (Honey Inlet & Out Let and Air Vent) 	1 No	2 Months

10	<p>Honey Transfer Pump with Trolley</p> <ul style="list-style-type: none"> • Motor, Gearbox with Lobe Pump – Trolley model (Movable Type) 	1 No	2 Months
11	<p>Bee Wax Foundation Sheet Machine – Manual Operated for Apis Cerana Indica</p> <p>Specification :</p> <ul style="list-style-type: none"> • Cell Size 4.3mm (Shell Wall 0.5mm) • Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mm • Roller Length: 253mm, Roller Dia: 65.5mm • Capacity 100 Kg/hr 	1 No	2 Months
12.	<p>Bee Wax Foundation Sheet Machine - Manual operated for Apis Mellifera</p> <ul style="list-style-type: none"> • Cell Size 4.3mm (Shell Wall 0.5mm) • Dimensions: Length 560 + 102mm, Width : 254mm , Height : 280mm • Roller Length: 253mm, Roller Dia: 65.5mm • Capacity 100 Kg/hr 	1 No	2 Months

ANNEXURE - IV

DECLARATION

I / We _____ having our office at declare that I / We have never been blacklisted by any State Government / Central Government / or any State / Central PSU. Further certify that I/We give our acceptance for all tender conditions.

Signature:

Name:

Designation:

Address of the Tenderer:

Seal of Tenderer:

Date:

Place:

CERTIFICATE BY IMPORTER

It is certified that the information furnished by me as detailed below are true in the best of my knowledge and belief.

Time required for effecting the shipment	:	
Post of shipment	:	
Country of origin	:	
Port of discharge	:	

Signature:

Name:

Designation:

Address of the tenderer

Seal of tenderer

Date:

Place:

Note:

Supplier as an importer should indicate the minimum time required for effecting the shipment after the release of formal purchase order to him. The supplier should indicate the number of days required for effecting the shipment.

Additional documents are to be submitted by the Successful Bidders only.

Bid Security & Delivery Terms

Sl. No.		
a	Bid Security Required	Required
b	Delivery / commissioning of the Machinery	60 days from the date of receipt of supply order.
c	Commissioning completion period	Within 30 days from the date of arrival of the equipment at the Factory site.
d	Destination	[Address]
e	Drawings for Installation Required	Required
f	Testing & Installation Required	Required
g	Agreement on Stamp Paper Required	Required
h	Performance Security Required	Required
i	Samples to be submitted along with Quotation	Not Required
j	Printed Users' Manual/Installation Guide	Required
k	Training to faculty and operator	Required
l	Warranty / Guarantee	Minimum 3 year
m	Supply of items to be conformity with therequired specification & conditions	Must

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