Moonew Tareybhir SFURTI Enrich & Vermicompost Production Co-operative Society Ltd. Head Office: Below Govt. Primary School Moonew, PO & PS Sombaria, West Sikkim.

SIKKIM KISHAN SOCIETY, Head OfficeMoonew, PO & PS Sombaria, West Sikkim, 737121 Email: <a href="mailto:moonewsfurti@yahoo.com">moonewsfurti@yahoo.com</a>, Phone No. 9474524947, 9733657916

# TENDER NOTICE DATED. 05.11.2020

Tender Doc. No.: MTSE /SFURTI/2020/02

Supply of Machinery & Equipment for Establishment of Common Facilities Centre in Moonew Sealed tenders are invited from machinery manufacturers/ authorised dealers (having minimum five years' experience in Supply) for supply of machinery & equipment for Package I and Ilfor establishment of common facilities centre in Sandur in favour of M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121. Tender should be submitted in separate envelops for Technical Bid and Financial Bid along with earnest money of Rs. 50,000/- in the form DD in favour of M/s. Moonew Tareybhir S.E.Drawn at West Distt. Sombaria.

Quotation for Package III will be collected by **Sikkim Kishan Society**or by**Moonew Tareybhir S.E.** in sealed quotation from Local market.

Last date of the Tender Submission on **26.11.2020 up to 5.00 PM** and Tender will be opened on **27.11.2020** at 01.00 PM at H.O, **Sikkim Kishan Society,West** Distt. Moonew, PO Sombaria

Tender form can be obtained from Secretary, Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121. on any working day between 10.00 AM to 5.00 PM by payment of Rs. 500/-.The details of works and Terms and Conditions are available in the Tender FormSikkim Kishan Society., West Distt. Moonew, PO Sombaria737121. The Technical Bid and Financial Bid dully filled by the contractor withearnest money of Rs. 50,000/-,otherwise tender will not be accepted.

The Working Committee reserves the right to cancel any or all the Tenders without assigning any reason.

Date:

Place:

President

For "Sikkim Kishan Society"

Tender Doc. No.: MTSE/SFURTI/2020-21/02

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MOONEW TAREYBHIR VERMICOMPOST CLUSTER
SIKKIM KISHAN SOCIETYBElow Government Primary
School Moonew, PO. Sombaria, West Sikkim, 737121

#### **TENDER FORM**

(Supply of Machinery & Equipment for The Moonew Tareybhir SFURTI Enrich & Vermi Compost Producing Cooperative Society.)

Tender Form is issued to:-

Date of issue of tender form:-

Signature of issuing authority

#### **Terms and Conditions:**

- 1. The minimum turnover of the tenderer firm for the last year (2019-20) should be Rs. 10.00 lakhs.
- **2.** The tenderer firm should have minimum three-year experience in supply of said machinery and necessary evidence in the form of invoice/ Work Orders need to be furnished.
- **3.** The tender should be submitted in the prescribed tender form.
- 4. Tender form can be obtained from Secretary, M/S Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121 or from Foundation of MSME Cluster (FMC) website <a href="https://fmc.org.in/">https://fmc.org.in/</a> on any working day between <a href="https://fmc.org.in/">05.11 2020</a> to <a href="https://fmc.org.in/">26.11</a> 2020 from 10.00 AM to 5.00 PM by payment of Rs. 500/-.
- 5. Tender should be submitted in separate envelops for Technical Bid and Financial Bid along with earnest money of Rs. 50,000/- and can be deposited at the below mentioned address up to <u>5PM on 26.11.2020</u>. The Demand Draft of earnest money should be in the name of by ",M/S. Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121.

The tender will be submitted in sealed envelopes separately for technical bid and financial bid. On each envelop "Tender for CFC machineries at Moonew, Rumbuk GPU, West Distt, should be written on the top of envelop. Technical Bid and Financial Bid should also be clearly mentioned on envelop.

- **6.** The Technical Bid will be opened and considered first. The financial Bid of only eligible firms/agencies will be opened.
- **7.** Tenders received without earnest money will not be accepted.
- **8.** The tenderer firm should submit implementation plan of supplying & erection of machinery along with other details of the firm. Incomplete tender will not be accepted.

The tendered firm should submit tender for a complete Package. Say, if a firm wants to participate in equipments from Package I, preference will be given to those firms, who can supply all the mentioned items mentioned under package I.

- **9.** Technical Bid/ Financial Bid cannot be withdrawn after opening it. Earnest money can be forfeited in case of withdrawal of bid or not completing the work.
- **10.** If the items supplied are not found as per specifications or unsatisfactory or delivered after stipulated time, the payment of whole or equivalent amount can be withheld.
- 11. The party has to enter into an agreement with Implementing Agency(M/S. Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121.) on the Stamp Paper of Rs. 500/- on prescribed Performa.
- 12. Clause for forfeiture of EMD amount: At any point of time, the Secretary, M/M/S. Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew, PO & PS Sombaria, West Sikkim, 737121. finds that the performance of the Suppliers is not satisfactory; Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121, reserves the right to terminate the Supplier The loss/ damage suffered by the Sikkim Kishan Society.
- **13.** will be debited to the bidder assigned for the work from the EMD given.
- **14.** In case of any un-satisfaction work by the supplier. The working committee and spot inspection conducted by FMC official to take necessary step will be taken and, the Divisional Director will stop the payments to the contractor till further discussion taken.
- 15. In case any dispute arises between the Supplier and M/s Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew, PO & PS Sombaria, West Sikkim, 737121regarding payment of the bills to referred to Director SFURTI and DIRECTOR Legal to obtain opinion.
- **16.** Jurisdiction: Nahan HP Court shall have jurisdiction in the matter.
- 17. Payment Terms: Has per the agreement made by the Supplier and M/s Sikkim Kishan Society/M/s. Moonew Tareybhir S.E. Vermicompost Cluster, Upper Moonew five km. away from Sombaria to Soreng Road, PO & PS Sombaria, West Sikkim, 737121

#### **Declaration:-**

I do here by agree to abide by all the terms and conditions mentioned above.

(Signature of the authorized person/proprietor)

Name:

| Designation:  |  |  |
|---------------|--|--|
| Name of firm: |  |  |
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# **Technical Bid**

# **TENDER FORM**

(Supply of Machinery & Equipment for The Moonew Tareybhir SFURTI Enrich & Vermi Compost Producing Cooperative Society.)

|                 |                | Producing Cooperative Society. )                         |                             |
|-----------------|----------------|--|-----------------------------|
| Tender Form i   |                |  |                             |
| Date of issue   | of tender for  | ·m:  |                             |
|                 |                | Sign   | nature of issuing authority |
| Technical E     | Bid:-          |  |                             |
| Part – 1        | Descriptio     | on of Items  |                             |
| 1. Name         | of work : Su   | apply and erection (where applicable) of below mention   | ned items:                  |
|                 | Sr.No          | Name of the machinery                                    | 7                           |
|                 | 01             | Machinery required for CFC                               |                             |
| Part – 2        | Details of     | firm/agency  |                             |
| 1. Name of Fir  | rm/Agency:     |  |                             |
| 2. Registered   | Address of Fi  | irm/Agency:  |                             |
| 3. Name & Ph    | one No. of co  | o-coordinator/contact person:                            |                             |
| 4. Type of Fire | m/Agency : C   | OEM/ Registered Wholesaler/ Unregistered wholesale       | r/ Retailer                 |
| 5. Registration | n No. :        |  |                             |
| 6. Year of Con  | nmencement     | t of work of the Firm/Agency:                            |                             |
| 7. Turnover of  | f Firm/Agenc   | cy for the year 2019-20:                                 |                             |
| 8. Details of H | luman resour   | rces : (Man power with the firm/Agency)                  |                             |
| 9. PAN/Service  | e Tax No. of t | the Firm/Agency : (Please enclose photo copy)            |                             |
| 10. Descriptio  |                | of similar items done in the past by : Firm/Agency in pa | ast (Please enclosed copies |
| 11. Action pla  | n for present  | t activity   |                             |
|                 |                |  |                             |

12. Other details, (If any):

#### Miscellaneous:-

- 1. The minimum turnover of last year (2019-20) of the Bidder Firm/Agency should be Rs. 10.00 Lakhs. A demand draft of Rs. 50,000.00 (Rs.fifty thousand Only ) will be enclosed with the technical bid as earnest money. The draft will be in favor of ",M/S. Sikkim Kishan Society, PO & PS Sombaria, West Sikkim, 737121.
- 2. Balance Sheet prepared by charted Accounts for the last three years will invariably be enclosed along with technical bid.
- 3. Copies of Income Tax returns for the last three years will be enclosed with technical bid.
- 4. Copy of authorization from Original Manufacturer, in case the tender firm is not OEM and only authorized distributor
- 5. Copy of PAN/Service Tax Registration Certificate will be enclosed with technical bid.
- 6. The profile and following details of bidder firm/agency along with photograph, paper cutting, copy of work order will be submitted as under :-

| Year    | Details of items supplied | Duration | Name of party for whom items supplied |
|---------|---------------------------|----------|---------------------------------------|
| 2017-18 |                           |          |                                       |
| 2018-19 |                           |          |                                       |
| 2019-20 |                           |          |                                       |

|                                    |             | whom items supplied  |
|------------------------------------|-------------|--|
| 2017-18                            |             |  |
| 2018-19                            |             |  |
| 2019-20                            |             |  |
| 8. Detail of earnes                | t money     |  |
| 1. D.D. No. :                      |             |  |
| 2. Date :                          |             |  |
| 3. Amount:                         |             |  |
| 4. Name of the iss                 | uing bank : |  |
| Declaration:-                      |             |  |
| I hereby declare the terms and con | _           | in the technical bid is true and correct and I hereby accept all |
| Place :                            |             |  |
| riace.                             |             |  |
| Date :                             |             | Signature of the authorized person                               |
|                                    |             | Signature of the authorized person  Name:                        |
|                                    |             |  |
|                                    |             | Name:  |
|                                    |             | Name:<br>Designation:  |
|                                    |             | Name: Designation: Name of firm & address:                       |

# **Financial Bid**

## **TENDER FORM**

(Supply of Machinery & Equipment for The Moonew Tareybhir SFURTI Enrich & Vermi Compost Producing Cooperative Society.)

|                                | Signature of issuing authority |
|--------------------------------|--------------------------------|
| Date of issue of tender form : |                                |
| Tender Form issued to:         |                                |

# **Financial Bid:-**

<u>Description of work:</u> Supply below listed machinery including Erection Trial Run and Commissioning(inclusive of all type of taxes, transport, and insurance) \*

**Machinery required for CFC** 

# Package I:

| Sl. No. | Equipment                    | Quantity |
|---------|------------------------------|----------|
| 1.      | Bioreactor                   | 1        |
| 2.      | Distilled Water Unit         | 1        |
| 3.      | Automatic Kjeldahl apparatus | 1        |
| 4.      | Moisture balance             | 1        |
| 5.      | UV Spectrophotometer         | 1        |
| 6.      | Flame photometer             | 1        |
| 7.      | Autoclave                    | 1        |
| 8.      | pH and conductivity meter    | 1        |

# Package II:

| Sl. No. | Equipment                                     | Quantity |
|---------|---|----------|
| 1.      | BOD Incubator                                 | 1        |
| 2.      | Laminar Air flow                              | 1        |
| 3.      | Hot air Oven                                  | 1        |
| 4.      | Refrigerator                                  | 1        |
| 5.      | Weighing Machine (up to 500 kg) with Stamping | 2        |

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SIKKIM KISHAN SOCIETYBElow Government Primary
School Moonew, PO. Sombaria, West Sikkim, 737121

| 6. | Weighing balance (220 gm) | 1 |
|----|---------------------------|---|
| 7. | Packaging machine         | 1 |

Package III: NGO may purchase the items from these Package from Local Market. Minimum three sealed quotations may be collected from local market and opened in front of the committee. NGO may include minor specifications based on their need.

| Sl. No. | Equipment   | Quantity |
|---------|---|----------|
| 1.      | Hand Sprinkler 10lts                              | 200      |
| 2.      | Manual Tiller                                     | 200      |
| 3.      | Digging Spade                                     | 200      |
| 4.      | Hand Fork   | 220      |
| 5.      | Hand Rake   | 220      |
| 6.      | Hand Sickle                                       | 20       |
| 7.      | Large Spade                                       | 20       |
| 8.      | Large Fork  | 20       |
| 9.      | Vermicompost Sieve(local made)                    | 210      |
| 10.     | Shed for Vermicompost and raise bed for Vermiwash | 200      |
| 11.     | Bamboo basket (local made)                        | 400      |
| 12.     | Biomass Collection Bag Nylon                      | 500      |
| 13.     | Bag Closure Stitching Machine                     | 4        |
| 14.     | Water Tank 3000lts                                | 10       |
| 15.     | Water Pipe Rubber 20m                             | 10       |
| 16.     | Computer and internet                             | 1        |
| 17.     | Furniture (Table and chairs)                      |          |

# **Specifications for Package I and II:**

# Package I:

| Sl. No. | Equipment  | Specifications   |
|---------|------------|--|
| 1.      | Bioreactor | Total volumes of vessel: 50Lts; Operating temperature 10 °C to 150 °C, operating overpressure 2.5 barg (40 psig), Ports Detail:1 Exhaust, 1 Light glass, 1 Pressure gauge, 1 Spray ball, 1 no. 32mm media feed, 1 Top drive for agitator, 1 LED for ling glass, 2 Ph correction, 1 inoculum, 1 nutrient and 3 spare, 1 Sparger, 1 Overlay, 1 Temperature, 1 PH, 1 sampling and 1 Bottom valve, Fermenter Skid should made up of SS 304 Stainless steel frame, with support rack for the mounting of the filters, pumps and other Subsystems, <i>Agitation System</i> : Mechanic seal drive Top driven agitation, Motor driven coupling, matching with shaft coupling, Maximum speed output 100 to 600 rpm, 3 impellers, 6-blade, Rushton type or equivalent, aeration system is designed for up to 2.0 vvm, Sterile filter housing equipped with absolute filter 0,2 micron meter, Human machine interface should be touch screen panel enable to operate all process parameters as per set point control, Temperature Control Sterilizable Pt100 probe (dual RTD) with Output 4 to 20mA, Inbuilt Electrical heater in the jacket line enable to control both process and Sterilization temperature, pH Control Sterilizable pH-electrode (gel type) integrated in a SS housing with Measuring accuracy ±0.1PH, also provided with Oil free 1 HP Air compressor with 35 Lts Storage with require pressure regulating vale and pressure gauge AND 500 Lts Water storage tank (PP or SS) with circulating pump enable to control Process temperature and sterilization cycle, Tool kit, Spare for O ring and Septum should be available with the fermenter, Preference will be given for the manufacturer/ supplier who have supplied similar or higher configuration bioreactor system to at least 3 institute or organization and who may provide the purchase order of the same |

|    |                      | in their technical bid and company should have  |
|----|----------------------|---|
|    |                      | _ ,   |
|    |                      |   |
| 2. | Distilled Water Unit | Quality Certification ISO 9001.  Prefilter should be customized based on feed water quality. It should come with integrated booster pump and should produce water that qualifies feed water requirement of the main system to ensure minimum recurring cost down the line, the Complete Ultrapure Water Purification system must give ASTM Type 3 pure water and ASTM Type 1 Ultrapure water from a single system, the system should handle Conductivity < 1500 μS/cm, TOC < 2000 ppb, Free chlorine < 4 ppm, Fouling Index (SDI) <10, the unit should be ideal for a daily consumption of up to 10 liters of Ultrapure water with 8 l/hr. pure water productionrate, pretreatment Cartridge should be a combination of spherical, catalytic- effective, activated carbon, a catalyst and a downstream reverse osmosis membrane, the system should come with closed bag (Bagtank) system of 5 liter inbuilt to store consistently high quality pure water for prolonged period and prevent contamination by ambient air. Should have technology to avoid time consuming cleaning process as well as use ofchemical, final Filter should be 0.45 + 0.2 μm pleated double layered sterile grade PESU membrane and should be validated according to HIMA & ASTM F- 838-83guidelines, The system should have touch screen display with intuitive menu navigation facility for easyoperation, re-circulation feature in standby mode to maintain the purity of thewater, the system should have the volume-controlled dispensing function from 50 ml to 51 (in 50-ml-increments) to obtain accurateresults, system should be Designed, Developed and Produced under DIN/ISO 9001 certificate Quality Management system. Preference will be given for the manufacturer/ supplier who have supplied similar or higher system to at least 3 institute or organization and who may provide the purchase order of the same in their technical bid and company should have Quality |
|    |                      | Certification ISO 9001.   |
|    |                      |   |

# Autosequencing Microprocessor based PC Compatible Distillation System:

Should be provided with in-built software with 50 Predefinable User Storage Auto Sequence Programmes, Automatic sequencing with auto Intelligent run of programmable steps which include Automatic Dilution, Auto KMNO<sub>4</sub> addition, Automatic Alkali Addition, Automatic Steam injection, Process over indication with alarm with delay time features, Automatic Titration Connectivity feature for future upgradation with complete automatic safety features, Microbrilliant distillate control with adjustable sensor, Two line Alpha numeric Digital LCD Display, Auto sensing of "NO WATER" condition in condenser & steam generator with alarm & signal to alert user, Auto deactivation of operation after warning in case of user non availability, It should enables Automatic monitoring and measuring of high temperature in distillate with sensor for auto warning signal and safety alarm to alert user to control distillate temperature, auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator, Electrical Requirement - 220 - 230V/50Hz, The control panel unit should have inbuilt temperature controller, timer, mother board and SMPS should be isolated in separate compartment to protect electronics from wet chemistry & acid/ alkali process area for longevity and safety of all electronic components, Nitrogen ± 0.1% RSD, Nitrogen Reproducibility:

Recovery : > 99.5%

#### Titration System:

It should have motorised Touch screen microprocessor based titrator and Motor controlled piston movement which facilitates correct and comfortable titration, Capacity: 50ml, Redirects reagents with recirculation mode, easily dispenses with adjustable nozzle, Performs quick titration with TFT touch screen, Should have robust control panel, Adjustable telescopic inlet with calibration, three calibrated preset speeds including dropwise dispensing to achieve accurate end points, Volume of dispenser should be 0.010 ml to 90 ml with auto

**3.** Automatic Kjeldahl apparatus

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|    |                      | refilling, Noise free non corrosive stirrer, Accuracy:  |
|----|----------------------|---|
|    |                      | 0.2%, it should save atleast 20 results in memory, Optional USB port for PC compatibility and should have built in rechargeable battery, Company should provide ISO 8655 confirmation & GLP compliants. Preference will be given for the manufacturer/ supplier who have supplied similar system to at  |
|    |                      | least 3 institute or organization and who may provide the purchase order of the same in their technical bid.  |
| 4. | Moisture Analyzer    | Max. Capacity: 0.02-50g,Readability:0.001g (1mg), Moisture content Readability:0.001%, Moisture content Repeatability:0.05% (ca. 2 g sample) 0.01% (ca. 10g sample), Drying Heater: IR emitter heater, Power: 450 W, Drying Temperature range Max. 160 degree C, Display: LCD with backlight,Operational temperature:10- 40°Cand Atmospheric humidity range: 40-80%, Finish modes: manual, automatic, time-defined, user-defined, Drying profiles:standard, fast, step and mild, 6 types database can be stored in memory, 100 drying programs can be set and Built-in Interface should be USB-A, USB-B, RS232 type.  Preference will be given for the manufacturer/ supplier who have supplied similar system to at least 3 institute or organization and who may provide the purchase order of the same in their technical bid. |
| 5. | UV Spectrophotometer | Wavelength range: 190-1100nm, Spectral bandwidth: 1.0 nm, Optical system: Double Beam, grating: 1200 lines/mm, Hi, Med & low speed scanning system, should have Graphical LCD Display, Halogen & Deuterium lamps as Light Source, Sample compartment Should have 2 cell holder 10 mm path length, Photometric accuracy: ± 0.3 % T or ± 0.002 A/h @1A, Double Beam Optical system  Preference will be given for the manufacturer/ supplier who have supplied similar system to at least 3 institute or organization and who may provide the purchase order of the same in their technical bid.   |
| 6. | Flame photometer     | Should have microcontroller controlled automation for ease of operation, Determination of up to four elements with single aspiration  |

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| General Range of Na: 0-100 ppm, K: 0-10: 0-100, Li: 0-100, resolution: 0.1 ppm meq., calibration: with up to 25 Standa user choice with curve fitting software each Element). Multiple Calibration Curv be stored in the memory, should be su with Compressor Unit.  Preference will be given for the manufacture supplier who have supplied similar system least 3 institute or organization and who provide the purchase order of the same in   | rds of (5 for es can pplied cturer/ n to at o may                                  |
|---|--|
| technical bid.  Double walled with 40-60 litres capacity  |  |
| Inner and Outer bodies should have made Stainless Steel, should be fitted with pringauge, steam release cock and safety with should have provided with a radial Automatic low water level cut off device digital controller and timer, it should automatic pressure control switch, Pressure 20psi with automatic pressure control of Temperature: Ambient to 121 °C.  Preference will be given for the manufact supplier who have supplied similar system least 3 institute or organization and who provide the purchase order of the same in technical bid. | up of essure valves, lock, e, and have re: 15-levice, cturer/n to at o may n their |
| pH meter: Single-channel, Ready-to-m kit, LE410 Sensor pH measuring range: 2-16, pH resolution pH accuracy: (±)0.01, mV measuring range mV resolution: 1, mV accuracy: Temperature range: -5 °C-105 Temperature Resolution: 0.1 Temperatureaccuracy: (±)0.3 °C, auto  | c 0.01,<br>lige: 0,<br>(±)1,<br>°C,<br>°C,   |

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recognition, fluid resistant housing & rotational electrode stand along with accessories, Data storage facility up to 1000 samples, complete with pH electrode, temperature probe, rotational electrode stands and dust cover. Conductivity meter: Graphical LCD Display having automatic calibration, automatic range selection, automatic temperature compensation, selectable reference temperature, fluid resistant housing & rotational electrode stand along with accessories, Data storage facility up to 1000 samples, complete with cell temperature probe, rotational electrode stand, dust cover, LE703 type Sensor, Conductivity measuring range: 0.01 μS/cm-200 mS/cm, Conductivity resolution: 0.01-2, Conductivity accuracy:  $(\pm)0.5$  %, Temperature Range: 0 °C-100 °C, Temperature Resolution: 0.1 °C, Temperature accuracy: (±)0.5 °C Preference will be given for the manufacturer/ supplier who have supplied similar system to at least 3 institute or organization and who may provide the purchase order of the same in their technical bid.

# Package II:

| Sl. No. | Equipment     | Quantity  |
|---------|---------------|---|
| 1.      | BOD Incubator | It is required to grow and maintain cultures. It should provide optimal temperature, humidity and other such as the CO <sub>2</sub> and oxygen content of theatmosphere inside. Type of Incubator: BOD Incubator, Capacity: 201-300 liters, Material of Inner Chambers: SS 304, Material of Outer Chamber: CRCA (powder coated point) Steel, Ambient Temperature: 5°C to 60 °C, Temperature Accuracy: ±0.5°C, Insulation: Glass wool, Controller: Microprocessor based PID control, LED Digital display showing temperature in °C, Power supply 220 V, Insulated door fitted with heavy hinges and should have double glass window, Removable type of Shelves.  Preference will be given for the manufacturer/ supplier who have supplied similar system to |

|    |                  | at least 3 institute or organization and who   |
|----|------------------|--|
|    |                  | may provide the purchase order of the same in  |
|    |                  | their technical bid.   |
|    |                  |  |
| 2. | Laminar Air flow | Laminar air flow for maintaining aseptic conditions. Biological Safety, Class IIcabinets Configuration: Freestanding, benchtop, Horizontal type of air flow direction, Type of air cleanliness: Class 100, Material used for the work bench: Stainless steel 304 grade, Manual sliding type of Sash (front door), Material used for the front door: Acrylic transparent, Material used for the Side panels: Acrylic, Thickness of the door orside panels: 2 millimeters, Door and Framesshould be hermetically sealed, Laminar air flow Velocity should be 0.26 to 0.38 m/s, Pre-Filter(washable) for air filtration with 10 microns, 0.3 microns of Hepa filters should be available, UV Germicidal lamp should be provided, Size of the working area(W×D×H) (feets): 3×2×2, Power supply: 100-240 VAC, 50-60 Hz.  Preference will be given for the manufacturer/ supplier who have supplied similar system to at least 3 institute or organization and who may provide the purchase order of the same in |
| 3. | Hot air Oven     | their technical bid.  Triple Walled, Inner chamber should made up of Stainless Steel AISI-304 Grade, Outside made of Mild Steel with powder coated paint, the Central wall should be made up of Mild Steel, the space between the outer and central wall is press-filled with glass wool insulation to prevent heat loss during operation, double walled single door with hinges and handle, fitted with microprocessor Based Digital Temperature Indicator cum controller with PT-100 sensor range 5 °C, above ambient to 200°C, one circulating fan fitted at the side/back for uniform temperature of the inner chamber, should have removable stainless steel perforated shelves, cord, plug etc. and inner chamber size – 20" x 20" x 24"  Preference will be given for the manufacturer/ supplier who have supplied similar system to at least 3 institute or organization and who may provide the purchase order of the same in   |

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|    |                             | their technical bid.  |
|----|-----------------------------|---|
| 4. |                             | Required for the storage of the cultures,   |
|    |                             | Volume: 300 Litres, Type of Door: Double,   |
|    | Refrigerator                | Puff Insulation, Built in Voltage Stabilizer,   |
|    |                             | Frost Free Defrosting, Compressor: Power  |
|    |                             | saver Compressor, Coil Material: Copper (Cu),   |
|    |                             | Metallic Finish.  |
|    |                             | With electronic weighing scale platform, Rated Load/ Capacity: 500 kg, Resolution: 100 g, |
|    |                             | Class- III type, led Display, Speed of  |
|    |                             | measurement: 5 second, No Internal  |
|    | Weighing Machine (up to 500 | calibration, Number of scale division: 3000,  |
| 5. |                             | Manual tare provision, Power Requirement:   |
|    | kg) with Stamping           | mains operated battery operated, Power  |
|    |                             | Supply: Single Phase, DC Operating voltage: 6   |
|    |                             | Volt, Battery Backup: Yes, Backup time: 15  |
|    |                             | hrs., Battery type: rechargeable, Alarmfor  |
|    |                             | overload & Malfunctioning.  |
|    |                             | Electronic Precision Pan Balance, Rated   |
|    | Weighing balance (220 gm)   | Load/Capacity: 220 gm, Resolution: 0.1 mg,  |
|    |                             | Class type: Class-I, LCD display, Speed of  |
|    |                             | measurement: 2 second, Internal calibration:  |
| 6. |                             | Yes, Number of scale division: 100000, Tare   |
|    |                             | provision: Manual, Power Requirement: mains   |
|    |                             | operated, Power Supply: Single Phase, DC  |
|    |                             | Operating voltage: 12 Volt, Material of   |
| 7. | Packaging machine           | platform: Stainless steel.  Capacity (pouch per hour): 100-200, Pouch                     |
|    |                             | Capacity: 50-1000 grams, Automation   |
|    |                             | Grade, Filling Type: Servo Drives/ Clutch   |
|    |                             | Brake Drives, fin Sealing Type, Packaging   |
|    |                             | Type: laminate/Any Heat Sealable Packing  |
|    |                             | Materials.  |

## Note: \*

- I. The amount should be quoted item wise as per above specifications
- II. The amount quoted for above listed Supply Erection Trial Run and commissioning should be inclusive of all type of taxes, Freight, and insurance.

<u>Delivery at Moonew PO Sombaria, &West Distt. Sikkim. (FOR) including loading and delivery charge</u>

<u>Warranty of the machineries and service without cost</u> <u>Total amount in words:-</u>

| Diana : | Cianatius at the authorizad access  |
|---------|-------------------------------------|
| Place : | Signature of the authorized person  |
| riace.  | Signature of the dutilonized person |

Date : Name: Designation:

Name of firm & address:

Tender Doc. No.: MTSE/SFURTI/2020-21/02 MOONEW TAREYBHIR VERMICOMPOST CLUSTER

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SIKKIM KISHAN SOCIETYBelow Government Primary
School Moonew, PO. Sombaria, West Sikkim, 737121

Phone / Mobile No. : Seal of the firm: