

TENDER DOCUMENT FOR SUPPLY AND INSTALLATION OF SUBSURFACE DRIP FERTIGATION SYSTEM IN MULBERRY GARDENS



Central Sericultural Research & Training Institute

Central Silk Board – Ministry of Textiles – Govt. of India
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To

Speed Post

TENDER NOTICE

Sub: Supply and Installation of Subsurface Drip Fertigation System at CSR&TI, Berhampore, West Bengal - Reg.

The Institute invites bids in two-bid-system from the Reputed/ Registered/ Manufacturers/ Authorized Firms/ Agencies/ Dealers for tender of **Quotation for Supply and Installation of 2 nos. Subsurface Drip Fertigation System** separately of the Specifications given at **page -2 & 3**. You are requested to submit your lowest rate for supply and installation of the same as per specifications. This bid document is also available at the website of this Institute www.csrtiber.res.in and that of Central Silk Board www.csb.gov.in and Central Public Procurement Portal www.eprocure.gov.in.

- Bid is to be submitted in **Two-Bid pattern in 2 separate covers**. The first cover will contain the relevant technical specifications as required in terms of the tender enquiry documents and to be marked as **“Technical Bid”** and the second one will contain the price quotation and to be marked as **“Financial Bid”**. The two separate sealed covers are to be put inside another sealed envelope superscribed **“Quotation for Supply and Installation of 2 nos. Subsurface Drip Fertigation System”** with **Tender Reference No., Due date and Time of opening**. The Purchase Committee of this Institute will open the sealed envelope containing **“Technical Bid”** first and scrutinize the same with reference to the specifications mentioned in the Tender document. The Technical Bids which fulfill all the specifications mentioned in the Tender documents will be considered for opening of **“Financial Bids”**.

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Eligibility of the Bidders

- Sealed Quotation should be addressed to the Director, Central Sericultural Research & Training Institute, Berhampore-742101, Murshidabad, (West Bengal) and reach this Institute through Registered/Speed post/Courier Services/ Dropping in Tender Box at this Institute by not later than **14.00 hrs. (2.00 PM)** on **24.08.2020**. The Technical Bid will be opened on **24.08.2020** at **15.00 hrs. (3.00 PM)** by the committee members in presence of bidders/ authorized representatives, if any. Financial bids of technically qualified bids will be opened at **15.00 hrs. (3.00 PM)** on **27.08.2020**.

- The Bidder should be proven/reputed manufacturers or authorized dealers/distributors of ISI marked drip/micro-irrigation system of a reputed manufacturer(s). The Bidder shall be empanelled with State Government/Central Government under drip/micro irrigation category and to submit along with the offer, the dealership/distributorship/empanelled certificate with the date of appointment and validity signed by the authorized signatory.

- The bidder should have enough experience in design, supply and installation, testing and commissioning of drip/micro irrigation systems. Proof of the experience shall be submitted along with the technical bid.

FINANCIAL BID

NOTE: To be filled and submitted as Financial Bid in a sealed cover superscribed as "Financial Bid for Supply and Installation of Subsurface Drip Fertigation System at CSR&TI, Berhampore, West Bengal"

The Rate/Unit (*) should inclusive of all taxes, levies, transportation charges, etc.

Annexure –I & Annexure –II

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Annexure-I

**SPECIFICATION OF DRIP IRRIGATION FOR
AICEM-IV EXPERIMENTAL PLOT (about 0.5 ACRE)**

| # | Name of the Items | Quantity | Unit/Rate(*) | Amount |
|---|----------------------------------|----------|--------------|--------|
| 1 | HEAD CONTROL UNIT | | | |
| | Disc Filter 2" | 1 Pes | | |
| | Fertigation Vetur 3/4 | 1 Pes | | |
| | Passure Gage 6kg | 2 Pes | | |
| | AV-10 | 1 Pes | | |
| | Manifold 2" | 1 Pes | | |
| | S Sattel 63/20 | 2 Pes | | |
| | S Sattel 63/32 | 1 Pes | | |
| 2 | WATER CARRIER SYSTEM | | | |
| | PVC Pipe 63mm (6kg) | 36 Mtr | | |
| | PVC Pipe 50mm (6kg) | 70 Mtr | | |
| | Control Valve 63mm | 2 Pes | | |
| | Control Valve 50mm | 3 Pes | | |
| | Flush Valve 50mm | 4 Pes | | |
| 3 | WATER DISTRIBUTION SYSTEM | | | |
| | Plan Lateral 16mm | 60 Mtr | | |
| | Inline Drip Lateral 16mm | 2214 Mtr | | |
| | Take Off 16mm | 100 Pes | | |
| | Joiner 16mm | 100 Pes | | |
| | Rubber Goment 16mm | 100 Pes | | |
| 4 | PVC FITTING ACCESSORIES | | | |
| | PVC Elbow 63mm | 13 Pes | | |
| | PVC Elbow 50mm | 12 Pes | | |
| | PVC Tee 63mm | 4 Pes | | |
| | PVC Tee 50mm | 4 Pes | | |
| | PVC F.T.A. | 2 Pes | | |
| | Reducer 63/50 | 5 Pes | | |
| | Solven Cement | 1.5 Ltr | | |
| | Teflon Tape | 6 Pes | | |
| | PVC Drill Machine 16mm | 1 Pes | | |
| | PVC Cap 50mm | 4 Pes | | |
| | M-Seel | 200 gm | | |

Name and Signature of the Authorized person from the Firm/supplier

Seal of the Firm/Supplier
Date:

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SPECIFICATION OF COMPONENTS FOR DRIP FERTIGATION SYSTEM
(about 0.75 ACRES)

| # | Name of the Items | Quantity | Rate/Unit(*) | Amount |
|-------------|----------------------------------------------------------------|----------|--------------|--------|
| I. | Head control unit | | | |
| 1 | Hydro Cyclone Filter (20 m ³) | 1 no | | |
| 2 | Disc Filter (2") | 1 no | | |
| 3 | Fertigation Venturi (1") | 1 no | | |
| 4 | Glycerine pressure gauge with fittings (6 kg/cm ²) | 2 nos | | |
| 5 | AV -10 | 1 no | | |
| 6 | Manifold (2") | 1 no | | |
| 7 | GI Nipple (3") | 3 nos | | |
| 8 | GI Tee (3") | 1 no | | |
| 9 | GI Nipple 2" | 4 nos | | |
| 10 | Flanch (2") | 2 nos | | |
| 11 | GI Reducer (3"/2") | 2 nos | | |
| 12 | Union (3") | 1 no | | |
| II. | Water carrier system | | | |
| 1 | PVC Pipe 75 mm (6 kg/cm ²) | 102 m | | |
| 2 | PVC Pipe 63 mm (6 kg/cm ²) | 60 m | | |
| 3 | PVC Pipe 50 mm (6 kg/cm ²) | 114 m | | |
| 4 | PP Ball Valve (75 mm) IND | 4 nos | | |
| 5 | PP Ball Valve (63 mm) IND | 6 nos | | |
| 6 | Flush Valve (50 mm) | 4 nos | | |
| III. | Water distribution system | | | |
| 1 | Plain Lateral (16 mm) | 100 m | | |
| 2 | Inline Drip Lateral (16 mm, 30 cm & 2.8-4 lph) | 2400 m | | |
| 3 | Take off (16 mm) | 100 nos | | |
| 4 | Rubber Gromate (16 mm) | 100 nos | | |
| 5 | Joiner (16 mm) | 100 nos | | |

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| # | Name of the Items | Quantity | Rate / Unit | Amount |
|------------|---------------------------------|----------|-------------|--------|
| IV. | PVC fittings accessories | | | |
| 1 | PVC Elbow (75 mm) | 12 nos | | |
| 2 | PVC Elbow (63 mm) | 20 nos | | |
| 3 | PVC Elbow (50 mm) | 14 nos | | |
| 4 | PVC Tee (75 mm) | 6 nos | | |
| 5 | PVC Tee (63 mm) | 6 nos | | |
| 6 | PVC Tee (50 mm) | 5 nos | | |
| 7 | PVC FTA (75mm) | 2 nos | | |
| 8 | PVC FTA (63/50 mm) | 3 nos | | |
| 9 | PVC Reducer (75/63 mm) | 3 no | | |
| 10 | PVC Reducer (63/50 mm) | 5 nos | | |
| 11 | Bush PVC (63mm) | 2 nos | | |
| 12 | PVC socket (75 mm) | 1 no | | |
| 13 | PVC Cap (63mm) | 4 nos | | |
| 14 | PVC Saddle (63/32 mm) | 1 no | | |
| 15 | PVC Saddle (63/20 mm) | 2 nos | | |
| 16 | PVC Coupler (75 mm) | 6 nos | | |
| 17 | PVC Coupler (63 mm) | 10 nos | | |
| 18 | M-Seal | 200 gm | | |
| 19 | Axe Blade with Frame | 1 no | | |
| 20 | PVC Solvent Cement | 2 lits | | |
| 21 | Teflon Tape | 6 nos | | |
| 22 | PVC Drill Machine (16 mm) | 1 nos | | |

Name and Signature of the Authorized person from the Firm/supplier

Seal of the Firm/Supplier
Date:

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Terms & Conditions:

1. The Bidder should be proven/reputed manufacturers or authorized dealers/distributors of ISI marked drip/micro-irrigation system of a reputed manufacturer(s) **(the copy of Registration/Dealership/PAN/CST, IT Clearance Certificate have to mandatorily be enclosed as proof)** are eligible to submit the tenders, failing which the quotation will be rejected.
2. The Bidder shall be empanelled with State Government/Central Government under drip/micro irrigation category and to submit along with the offer, the dealership/distributorship/empanelled certificate with the date of appointment and validity signed by the authorized signatory.
3. Tenderers should furnish complete details of the latest technology available with full documentation & descriptive literature/broacher and point out any special features of their system. Please note that changing of model/make after opening of tender will be liable to rejection of the offer.
4. The tenderers shall be responsible for supply, installation and testing of subsurface drip fertigation systems at destination (CSR&TI, Berhampore, West Bengal) site.
5. Quantity of materials supplied and installed should be of **BIS standard**.
6. Drip/Micro irrigation supplier should ensure timely supply of spare parts and rectifications of defects as when required.
7. It will be the responsibility of the Drip/Micro Irrigation supplier for bringing all the irrigation components viz., safety and control valves, pipes and its fittings, drippers and laterals or emitting pipe etc and all other accessories which are required to erect subsurface drip irrigation systems conforming to **BIS standard**
8. It is the responsibility of the Drip/Micro Irrigation suppliers for complete installation of drip components as per the design provided by CSR&TI Berhampore. The installation of subsurface drip fertigation system should have to be completed within **10 days** from the date of intimation by CSR&TI, Berhampore.
9. The bidder should have enough experience in supply and installation of drip/micro irrigation systems. Proof of the experience shall be submitted along with the technical bid.
10. The tenderers shall fully responsible for the manufacturer's warranty and also to issue a performance warranty for a period of three years, from the date of commissioning of the subsurface drip irrigation system, where-under the micro irrigation supplier should undertake repairs or replacements of any portion or the entire system if they are found to be defective in material or workmanship. The repairs or the replacement shall be carried out by the Micro irrigation supplier at the cost of Micro irrigation supplier within 7 working days of intimation from CSR&TI .Berhampore
11. The tenderers must provide sufficiently well in advance the complete details regarding space/ all infrastructures/ civil structure/ electrical fittings needed for installation of the equipment, in order to facilitate this Institute to arrange before its arrival.

12. Tenderers shall make provision(s) for imparting training to our officials / maintenance engineers/ functionaries on operation and use of equipment, its accessories and software for the intended applications and troubleshooting repair and maintenance.
13. **Delivery:** Delivery should be made at Central Sericultural Research & Training Institute, Berhampore, Dist. Murshidabad, West Bengal, PIN -742101.
14. The prices quoted in respect of imported ones must be clear and on Ex-Works FOB/CIF Berhampore. In case of CIF different components like insurance, freight, installation, packing/forwarding and commissioning at destination site should be shown separately. **Discount offered**, if any, should be indicated prominently. The price once quoted shall not be altered /amend later on at any stage.
15. In case of liquidated damages, Director, CSR&TI, Berhampore may claim the liquidated damages due to failure of accepting the order or delivery of material after their tender is accepted, subject to maximum of **5%** of approved value.
16. The parties are to submit latest Price Catalogue with Bid.
17. The offer should be valid for a minimum period of **180 days** from the specified date of opening of the tender, during which period the tenderers agrees not to vary or alter or revoke his tender either in whole or part.
18. Delivery schedule may be indicated clearly in the tender.
19. **Bid Security (Earnest Money Deposit)** amount of **Rs.6,000.00 (Rupees six thousand)** will be submitted along with the Technical Bid in the form of Demand Draft drawn in favour of " Director, CSR&TI " payable on any Nationalized Bank at Berhampore, West Bengal. The Bid security should be refunded to the successful bidder on receipt of performance security. EMD will not bear any interest. In order to claim exemption from EMD, valid certificate issued by NSIC/SSI, if any, must be furnished with the technical bid.
20. The successful bidder will deposit **Performance Security @ 10%** of the quoted value and remain with this Institute till completion of **Warranty period + 2 months**.
21. The following documents are to be furnished by the agency/ contractor along with Technical Bid:

Technical bid:

- A demand draft towards EMD.
- Copies of certificate for establishing eligibility / qualification criteria.
- Experience documents/certificates of proof in doing such works.
- A copy of the acknowledgement of Income Tax Returns for the year 2017-18 & 2018-19 & 2019 -20.
- A copy of the registration certificate of Service Tax /GST/ PAN.
- A self attested certificate declaring that the firm is not a defaulter in any of the previous transaction with the Board /other Government Departments, not black listed / debarred by any Government Department.
- All documents should be signed by the Agency/ contractor with seal.

The Technical bid not in compliance with the above will be liable for rejection.

22. Purchase made for scientific purpose are exempted from custom/excise duty as per rules in vogue. Certificate to that effect will be furnished by this Institute on demand.
23. In case of proprietary item, a valid certificate of proprietary manufacturing item be enclosed with the tender.
24. **JURISDICTION-** Disputes, if any, are subject to Indian Arbitrator Act.
25. Late/ Delayed Tenders are not to be accepted.
26. On confirmation of Purchase order, delivery/supply has to be made at the risk of supplier. Damage/loss, if any, in transit shall be borne by the Supplier only.
27. Interested /willing firms may represent themselves at the time of opening, as scheduled. If the office remains closed on the date of opening of tender on any reason, tenders will be opened on the next working day.
28. The Director, CSR&TI, Berhampore reserves the right to accept or cancel any tender / all tenders without assigning any reason thereof.
29. However, as per rule 173(iv) of the GFR, the interested bidder can make question for the bidding conditions, bidding process and or rejection of its bid to the undersigned.
30. Payment will be made only after satisfactory execution of the work order of supply and installation of Subsurface Drip Fertigation System at CSR&TI, Berhampore, West Bengal.

Sd/-
Director

- Copy to :**
1. The DD(Comp), CSR&TI, Berhampore to post this NIT on this Institute's website, e-procurement portal and also make arrangement to post the same on Board's website.
 2. The In-charge, Agronomy Section, CSR&TI, Berhampore for his information.
 3. The AD (O.L.), CSR&TI, Berhampore for Hindi Version.
 4. Institute Notice Board.

VMY
22/07'20.
Director