

**GOVERNMENT OF MIZORAM
DIRECTORATE OF HORTICULTURE
MIZORAM: AIZAWL**

No. B. 13015/9/2022-DTE (HORT-MIDH)/12

Dated Aizawl, the 6th Dec., 2022

OPEN TENDER NOTICE

In pursuance to the Govt. approval vide No. B.13016/34/2014-HORT/pt V dt. 01.12.2022, Sealed Tender is hereby invited by Director of Horticulture, Government of Mizoram for Supply & Installation of **Collapsible Four Layer Geo Lined Tank** under MIDH, 2022-2023. Tender may be submitted on or before **13th January, 2023** upto **1:00 pm** and the same will be opened on the same day at 2:00 pm in the Committee Room, Directorate of Horticulture, Aizawl, Mizoram. The complete bid documents should be dropped in the Tender Box placed at PA Cell of the Director, Directorate of Horticulture, Aizawl.

Tender Forms with detail Tender Terms and Conditions, etc, bearing Department round seal can be obtained from **PMKSY Section, Directorate of Horticulture, Aizawl** during office hours on all working days. The same may be downloaded from the Department website- www.horticulture.mizoram.gov.in.

Sd/-C.H. LALMUANPUIA

Director of Horticulture

Mizoram: Aizawl

Memo No. B. 13015/9/2022-DTE (HORT-MIDH)/12 : Dated Aizawl, the 6th Dec., 2022
Copy to:-

- 1) P.S to the Hon'ble Chief Minister/ Minister, Horticulture Department for favour of kind information and necessary action.
- 2) P.S to the Secretary, Horticulture Department for favour of kind information and necessary action.
- 3) Director, Horticulture Department for information and necessary action as per notification of ICT No.B.12012/1/2012-ICT Dt. 18.10.2016.
- 4) Director, I&PR, Mizoram, Aizawl for information with a request to publish the Tender Notice in 3 (three) Local Daily Newspapers for 3 (three) consecutive days. 20 spare copies are hereby attached. He is requested to refer the bills to the Director of Horticulture, Govt. of Mizoram for payment after duly certified.
- 5) Website Manager, Directorate of Horticulture with a request to upload in the Department Website.
- 6) Notice Board at Directorate of Horticulture.
- 7) Guard File.

(C.H. LALMUANPUIA)

Director of Horticulture
Mizoram: Aizawl

**TERMS AND CONDITIONS FOR SUPPLY AND INSTALLATION OF
COLLAPSIBLE FOUR LAYER GEO LINED TANK UNDER MIDH, 2022-2023**

1. Envelope for Tender:-

1.1. Tender should be in Two Envelope Systems clearly mentioning Name of Items, Bidder's Name and Address on both envelopes. Envelopes must be marked as "Technical Bid" in First Envelope and "Financial Bid" in the Second Envelope as the case may be. Both envelopes should be put in one large sealed envelope and should be superscribed as below:

**"Open Tender for Supply and Installation of COLLAPSIBLE FOUR LAYER
GEO LINED TANK under MIDH for the year 2022-2023"**

1.2. The First Envelope should be Technical Bid containing -

- i) Tender Form I.
- ii) Earnest money deposit (See Point No. 5 of Terms and Conditions)
- iii) Attested Manufacturing License Certificate/Dealership certificate.
- iv) Company brochure.
- v) Attested copy of last GST payment by the tendering firm.

1.3. The Second Envelope should contain Financial Bid in Tender Form II.

1.4. First Envelope will be opened first and the Second Envelope will be opened only for those valid/accepted First Envelope on the same day.

2. The sealed quotation should be addressed to:

**Director of Horticulture
Mizoram : Aizawl**

3. Eligibility of bidder:-

Bidder should not be blacklisted by any Central/State Government Department/Agency regarding quality compromise or any other reason on closing date of tender. Only eligible bidders (having all required papers) should participate in the tender.

4. EMD:-

Earnest Money amounting to 2.5 % of the tendered amount for Supply and Installation of Collapsible Four Layer Geo Lined Tank must be submitted along with tender documents in the form of either Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks duly pledged in favor of Director of Horticulture, Government of Mizoram. The same will be released after finalization of the tender.

5. If any bidders suppress any fact which could debar him from participation in the tender and the truth is revealed to the tendering authority subsequently, the bidder will be liable for legal prosecution as well as other stern action by the tendering authority within his / her jurisdiction, and the received tender will be rejected and deposited earnest money with the tender will be forfeited.

6. Technical Specification of Collapsible Four Layer Geo Lined Tank

Technical Specification of Collapsible Four Layer Geo Lined Tank			
Sl. No.	Description of Items		
1	Wire Mesh 3.1mm thickness Zinc Coating 100gsm drawn steel wire fabric 75x24 mm wire of weight not less than 3.30 Kg per sqm to steel		
2	Pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by engineer-in-charge) 0.50 mm (+0.05 %) total coated thickness with zinc coating 80- 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both sides of the sheet		
3	Monofilament Geotextile having Thickness ASTM D 5199/EN9863 2.1 mm Mass ASTM D 5261 300 GM/M2, Wide width tensile Elongation ASTM 4595/EN 10319 50/50%, Grab Tensile Strengths ASTM D4632/EN 13934 620 N, Trapezoidal Tear strength ASTM D4533/EN 90/3 300 N, Mullen Burst ASTM D3786 250 PSL, CBR Puncture Strength ASTM D6241/EN12236 1900N, Floor rate (5cm Head) ASTM 4491/EN11058 125L/S M2, UV Resistance ASTM G154@ 500 Hrs > =50%		
4	Laminated High Density Polyethylene Woven Fabric Geomembrane BIS Standard IS 15351:2015 (TYPE II) of 500 micron NSF/ANSI Standard 61 Certification, chlorination certificate from a government body or Shriram Institute for Industrial Research, breaking load on 20 x 10 cm strip, before UV exposure IS: 13162 (Part 5) 3500 N, strain at maximum load IS: 13162 (Part 5) 20 ± 5%, tear resistance Annex C of IS: 15351 120 N, puncture resistance Annex D of IS: 15351 400 N, seam strength before UV IS: 15060 24 N/ml, hydrostatic resistance Annex E of no leakage at 15 kg/cm2 traditional coated woven geomembrane		
5	Anti Algae Cover Woven Polypropylene Cover Quality 210 gr./m ² , Main body strength Warp 40 % Weft 40 %, Main body elongation Warp 17 % Weft 14 %, Size of gap 135 micron, Water permeability 10 ltr/m ² /sec		
6	Mild steel round bar /TMT Bar:- It is a highly machinable metal that can be formed into intricate shapes without adding proportional stress. Minimum Dia of not less than 16mm		
7	CPVC Gate Valve:- The Ball Valve is a sophisticated fitting that contains plastic components. This CPVC fixture features a pivoting ball that controls pressure and flow through the water pipes. Pressure Rating: - 150 W.O.G. at 73 °F, Maximum Service Temperature: - 140 °Smooth opening & Closing thanks to a lower torque, 100% pure virgin material CaCo3 free (Chalk) 100% Pressure testing before leaving the factory		
8	Tank nipple:- Tank Nipple fitting is a unique fitting that can be connected to a pipe directly without requiring the need for an additional fitting. This contraption can be screwed in directly to a tank facilitating seamless water-flow from the tank with minimum upkeep & maintenance		
9	Tank nipple:- Tank Nipple fitting is a unique fitting that can be connected to a pipe directly without requiring the need for an additional fitting. This contraption can be screwed in directly to a tank facilitating seamless water-flow from the tank with minimum upkeep & maintenance		
10	Nut bolt:- MS Hot Dipped Galvanized High tensile 8.8 Grade HDG Nut-Bolt with washer		
11	MS clamp:- The MS U Clamp, delivered by us, has accurate dimensions and a high tensile strength. Fine finish Resistance against abrasion Less maintenance Dimensional accuracy Durability Material: CRCA, Mild Steel Thickness: 22 & 23 Gauge Sizes: 30 mm To 65 mm.		
12	Repair kit:- We have repair kit form the best possible solution for on –site seaming, joining a repairing tank liner. Our liner is also the easiest material to repair(if any) with stock repair kit available. This is engineered to be stable from -20° C to 80° C. The durable, polymeric-faced, all-purpose tape utilizes a proprietary butyl adhesive backing		
13	Capacity	Diameter (Feet)	Height (Feet)
a	12800 Ltr.	12	4
b	15000 Ltr.	13	4
c	20000 Ltr	15	4

7. The firm must have valid GST ID No. Receipt of last payment of GST along with GST Registration/ ID No. must be enclosed.

8. Experience:

The Tendering firm must have experience in supplying and installing of Collapsible Four Layer Geo Lined Tank in Hilly areas and should furnish Experience Certificate along with bid documents for proof.

9. Authentication:-

9.1 The Manufacturing company must have valid BIS Certificate for the tank liner, and self attested copy of the same should be submitted along with Tender documents.

9.2. NSF Certificate in respect to HDPE Woven Fabric Geomembrane should be submitted along with bid documents.

9.3. The Manufacturing company should be appreciated by Water Technology Centre under the Indian Agricultural Research Institute, or similar government body.

9.4. The Manufacturing company must have Chlorination Certificate from govt. body or Shriram Institute for Industrial Research in respect of HDPE woven Fabric Geomembrane should be submitted along with bid documents.

9.5. Manufacturing company must submit Brochure relating to the items required by the Department along with Tender documents.

9.6. Valid manufacture must have manufacturing license /MSME Udyam Certificate or valid Authorization/ Dealership certificate from manufacturing company (for Tenderer other than manufacturing firm/company) must be submitted along with Tender documents.

10. Rate:-

10.1. The tenderers should clearly quote their rates inclusive of all taxes F.O.R destination including installation. The tenderer should write the quoted rate of each item both in figure and in words. Overwriting in the rate quotation (if any) should be clearly initialled by the quotational(s).

10.2. Once the rate is approved, it shall be final and shall not be transferable to any person(s) or firm(s). The approved rate for every item is not negotiable even if there is change or increase in manufacturer's price during validity period of the approved rate.

11. Demo Sample Tank:-

The Manufacturing Company /Tendering Firm should install a demo sample of 12800 Ltr at Horticulture Centre, Thiak before the time of opening tender.

12. Tender / Contract amount: -

The fund earmarked for implementation of supply and installation of Collapsible Four Layer Geo Lined Tank water tank is Rs 71.10 lakh only.

This may vary depending on the availability of fund.

13. Disputes and Litigation:-

In case of any legal disputes, litigations arising out of this Tender, the matter shall be heard and settled in the court of law at Aizawl only.

14. Supplier's details:-

Successful Tenderer, before issue of supply order, must inform the Department of his /her details such as Bank Account Number, Name of Bank, Name of Bank Branch, Bank IFSC Code, Contact Number and any other information deemed necessary by the Department.

15. Performance Security:-

- 15.1. The successful Tenderers (irrespective of category), if awarded supply order should submit Performance Security amounting to 5% of the supply amount in the form of bankers' cheque payable at any Nationalized Bank duly pledged in favour of Director of Horticulture, Mizoram, Aizawl duly before starting of work/ supply.
- 15.2. The Performance Security shall be released after satisfactory completion of supply and installation of the materials.
- 15.3. The Performance Security will be liable to be forfeited if the recommended supplier withdraws after the completion of tender process/ is unable to work on the bid made by him in the tender process or any other conditions which deviate from the accepted Terms & Conditions.

16. Supplier and Supply Order:-

The successful Tenderer will be termed as 'Supplier' on issuance of Supply Order. Supply Order will be issued by the Director of Horticulture.

17. Completion period:-

Work should be completed within 90 days from the date of issue of Supply Order. Incompletion of work during the stipulated time shall be conveyed to the Director of Horticulture after which necessary action will be taken by the Director of Horticulture.

18. Extraneous terms and conditions:-

Bidder should accept all the terms & conditions of the tender unconditionally and if he or she impose any extraneous term condition or offer any conditional discount, tendering authority reserves the right to declare the bid informal.

19. Explanation / clarification of tender:-

If any bidder requires any explanation or clarification of any of the terms and conditions of the tender, it must be sought from the tendering authority before participation in the tender.

20. Warranty period:-

- 20.1 Warranty period of the product must be specified clearly by the manufacturing company/any other party authorized to do so.
- 20.2 In case of complaints regarding leakage within valid warranty period, the firm shall repair or replace without extra charge.

21. Local Representatives:-

In case the firm is from outside Aizawl, it must have reliable local agent(s) with office/store/godown at Aizawl detail particulars of whom including Name, Contact No. and email id, Nearest Police Station, Postal address must clearly be certified and the certificate must be enclosed in the tender document.

22. The Department reserves the right to accept/reject any tender/all tenders without assigning any reason thereof and is not bound to accept the lowest quoted rate (s).

23. Any tender not completing with the requirement/fulfill with the terms and condition may summarily be rejected or may be considered invalid.

Proforma for Submission of Quotation

To,

The Director,
Department of Horticulture
Mizoram, Aizawl.

Subj: Submission of quotation against Tender no.

Dated.....

Madam,

I/We have carefully examined and read the Notice inviting Tender Terms and Conditions and all other documents attached regarding Tender No.dated I/We hereby express my/ our interest in Quotation for Supply and installation of Four Layers strong Geo Lined Tank under according to the terms and conditions mentioned therein.

I/We enclose herewith Earnest Money Deposit of (Amount) in the form from (Name of Bank) in your favour.

I/We certify that I/We have carefully read each and every terms and condition and Technical Specifications given in this Tender Documents and understood the same, and I/We confirm our acceptance of the same.

I/We further certify that I have suppressed no fact in the Tender which could debar me to participate into the Tender. If it is revealed after opening of the tender that any fact is suppressed by me, tendering authority shall have the right to reject my Tender.

I/We hereby also declare that I am not blacklisted by any Department / Agency of Central or State regarding quality compromise or any other reason in connection with similar work and there is no ongoing litigation with any Department / Agency of Central / State Government as on closing date of tender. If subsequently it is revealed after opening of Tender, concerned agreement will be cancelled, deposited earnest / security money will be forfeited and other penalty to be decided by the Tender authority will be imposed.

Dated.....

Signature of Bidder.....

Place

Full Name of Bidder.....



Seal.....

TENDER FORM - I
"Technical Bid"
TENDER FORM FOR SUPPLY AND INSTALLATION OF COLLAPSIBLE FOUR
LAYER GEO LINED TANK UNDER MIDH, 2022-2023

1. Name of Tenderer :
2. Address of Tenderer :
3. Contact No. :
4. E-mail ID :
5. Earnest Money Deposit in the : Yes/ No
form of
6. Amount of Earnest Money : Rs.....
Deposit (as per T &C Para No. 4)
7. Detail Address of manufacturer : Yes/ No
8. Valid Manufacturing license (if Tenderer
is manufacturing firm/company) as per T &C Para-No. 9.6 (Enclosed) : Yes/ No
9. Valid Authorization / Dealership Certificate from
Manufacturing Company (for tenderer other than
manufacturing firm/company) as per T &C para-No. 9.6 (Enclosed) : Yes/ No
10. Experience Certificate as per T &C para No. 8 : Yes/ No
11. Valid BIS Certificate of product as per T &C para No. 9.1 : Yes/ No
12. NSF Certificate of HDPE WF Geomembrane as per T &C para No.9.2 : Yes/ No
13. Attested copy of last GST Payment Certificate as per T &C para No. 7 : Yes/ No
14. Certification of local agent at Aizawl (if any) as per T &C para No.22 : Yes/ No
15. Manufacturing Company brochure as per T &C para No. 9.5 (Enclosed) : Yes/ No
16. Demo Sample of Product as per Terms and conditions para no. 11 : Yes/ No
17. Rate quoting sheet in separate sealed envelope (Financial bid)
as per T &C para-No. 10.1(Enclosed) : Yes/ No
18. Warranty period quoted as per T &C para No. 21.1 (Enclosed) : Yes/ No
19. Chlorination Certificate of HDPE WF Geomembrane as per T &C para 9.4 : Yes/ No
20. IARI or other Government body Certificate as per T &C para 9.3 : Yes/ No

Dated _____

Signature _____

Date with Seal _____



TENDER FORM — II

“Financial Bid”

TENDER FORM FOR SUPPLY AND INSTALLATION OF COLLAPSIBLE FOUR LAYER GEO LINED TANK UNDER MIDH, 2022-2023

1. Name of Tenderer with contact No :
2. Name & Address of Firm :
3. Valid Dealership license No :- :
(Attested copy to enclosed in
Technical bid envelope)
4. Whether Earnest Money Deposit : Yes/ No
enclosed in Technical bid envelope
If yes, amount of Earnest : Rs.
Money Deposit
5. Rate Quotation:

Sl. No.	Items	Quoted rates (inclusive of all taxes) f.o.r. destination (Rs)		
		12800 Ltr. Capacity	15000 Ltr. Capacity	20000 Ltr. Capacity
1	Wire Mesh 3.1mm thickness Zinc Coating 100gsm drawn steel wire fabric 75x24 mm wire of weight not less than 3.30 Kg per sqm to steel			
2	Pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by engineer-in-charge) 0.50 mm (+0.05 %) total coated thickness with zinc coating 80- 120grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both sides of the sheet			
3	Monofilament Geotextile having Thickness ASTM D 5199/EN9863 2.1 mm Mass ASTM D 5261 300 GM/M2, Wide width tensile Elongation ASTM 4595/EN 10319 50/50%, Grab Tensile Strengths ASTM D4632/EN 13934 620 N, Trapezoidal Tear strength ASTM D4533/EN 90/3 300 N, Mullen Burst ASTM D3786 250 PSL, CBR Puncture Strength ASTM D6241/EN12236 1900N, Floor rate (5cm Head) ASTM 4491/EN11058 125L/S M2, UV Resistance ASTM G154@ 500 Hrs > =50%			
4	Laminated High Density Polyethylene Woven Fabric Geomembrane BIS Standard IS 15351:2015 (TYPE II) of 500 micron NSF/ANSI Standard 61 Certification, chlorination certificate from a government body or Shriram Institute for Industrial Research, breaking load on 20 x 10 cm strip, before UV exposure IS: 13162 (Part 5) 3500 N, strain at maximum load IS: 13162 (Part 5) 20 ± 5%, tear resistance Annex C of IS: 15351 120 N, puncture resistance Annex D of IS: 15351 400 N, seam strength before UV IS: 15060 24 N/ml, hydrostatic resistance Annex E of no leakage at 15 kg/cm2 traditional coated woven geomembrane.			

5	Anti Algae Cover Woven Polypropylene Cover Quality 210 gr./m ² , Main body strength Warp 40 % Weft 40 %, Main body elongation Warp 17 % Weft 14 %, Size of gap 135 micron, Water permeability 10 ltr/m ² /sec,			
6	Mild steel round bar /TMT Bar:- It is a highly machinable metal that can be formed into intricate shapes without adding proportional stress. Minimum Dia of not less than 16mm			
7	CPVC Gate Valve:- The Ball Valve is a sophisticated fitting that contains plastic components. This CPVC fixture features a pivoting ball that controls pressure and flow through the water pipes. Pressure Rating: - 150 W.O.G. at 73 °F, Maximum Service Temperature: - 140 °Smooth opening & Closing thanks to a lower torque, 100% pure virgin material CaCo ₃ free (Chalk) 100% Pressure testing before leaving the factory			
8	Tank nipple:- Tank Nipple fitting is a unique fitting that can be connected to a pipe directly without requiring the need for an additional fitting. This contraption can be screwed in directly to a tank facilitating seamless water-flow from the tank with minimum upkeep & maintenance.			
9	Cable tie:- A cable tie is a band or length of strap, manufactured from a class of polymeric materials known as polyamides Material=Nylon 66, Operating Temp=-40 to +85°C, Flammability=UL 94 V2UV Light/Ozone Resistance= Medium, Oils & Grease Resistance=Excellent, Solvents Resistance=Good			
10	Nut bolt:- MS Hot Dipped Galvanized High tensile 8.8 Grade HDG Nut-Bolt with washer			
11	MS clamp :- The MS U Clamp, delivered by us, has accurate dimensions and a high tensile strength. Fine finish Resistance against abrasion Less maintenance Dimensional accuracy Durability Material: CRCA, Mild Steel Thickness: 22 & 23 Gauge Sizes: 30 mm To 65 mm.			
12	Repair kit:- We have repair kit form the best possible solution for on –site seaming, joining a repairing tank liner. our liner is also the easiest material to repair(if any) with stock repair kit available. This is engineered to be stable from -20° C to 80° C. The durable, polymeric-faced, all-purpose tape utilizes a proprietary butyl adhesive backing			
13	Any other related parts / accessories			
TOTAL				

Dated _____

Signature _____

Date with Seal _____

