

DIRECTORATE OF RESEARCH SERVICES
RAJMATA VIJAYRAJE SCINDIA KRISHI VISHWA VIDYALAYA
GWALIOR-474002, M.P.

IPRO/DRS/AERO/2024-25/579

Dated 12-06-24

e-TENDER NOTICE

Online tender(s) under two bid system (i) Technical bids (ii) Financial bids are invited by the Director research Services, RVSKVV, Gwalior from reputed Manufacturers/ Authorized Dealers/Distributors in the line for supply and installation of scientific equipment(s)/item(s)/structures for the item **Net house** in the project "Tissue culture-based potato seed production through aeroponics" as described below:

Sl. No.	Name of item	Divisions/Units/ Reg. Stations	Amount of EMD (Rs)	Tender purchase Fees (Rs)
1.	Net House	Biotechnology Centre, RVSKVV, Gwalior	0.50 Lakhs	5000/-

CRITICAL DATES

S. No.	Item	Date	Time
1.	Publishing Date	12 June 2024	16:00
2.	Document Purchase Start Date	12 June 2024	16:00
3.	Last date for submission of technical e-Bid	02 July 2024	17:00
4.	Opening of the Technical e Bid at Office of Directorate Research Services, RVSKVV, Gwalior	04 July 2024	15:00
5.	Evaluation of Technical e Bids at Office of Directorate, Research Services, RVSKVV, Gwalior	04 July 2024	15:00
6.	Opening of Financial/Price e Bid at Office of Directorate Research Services, RVSKVV, Gwalior	08 July 2024	15:00

Tender form can be downloaded from the website www.mptenders.gov.in and can also be seen on university website www.rvskvv.net . Tender documents with specifications can be purchased from this site by paying ₹ 5000/-.

Director Research Services
RVSKVV, Gwalior

**DIRECTORATE OF RESEARCH SERVICES
RAJMATA VIJAYRAJE SCINDIA KRISHI VISHWA VIDYALAYA
GWALIOR-474002, M.P.**

I PRO/DRS/2024-25/579

Dated 12-06-24

e-TENDER INVITING NOTICE

Online tender(s) under two bid system (i) Technical bids (ii) Financial bids are invited by the Director Research Services, RVSKVV, Gwalior from reputed Manufacturers/ Authorized Dealers/Distributors in the line for supply and installation of scientific equipment(s)/item(s)/structures for the item **Net house** in project “Tissue culture-based potato seed production through aeroponics” on or before **02-07-2024** up to 05:00 PM *via e tender*. **For the list of items, tender forms, terms & conditions and detailed information please visit RVSKVV website www.rvskvv.net and for purchase of tenders www.mptenders.gov.in from 12 June 2024.**

Any related corrigendum, if required, will be published on RVSKVV website (www.rvskvv.net) and www.mptenders.gov.in only.

NAME OF ITEM: Net House (*FIRST CALL*)

Date:

**Director Research Services
RVSKVV, Gwalior**

**DIRECTORATE OF RESEARCH SERVICES
RAJMATA VIJAYRAJE SCINDIA KRISHI VISHWA VIDYALAYA
GWALIOR, 474002, M.P.**

E-Tender Document

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DEPOSITING THE BIDS:

The bids will be submitted through on-line mode of www.mptenders.gov.in. Details are as follows:

On-line Submission:

(i) **Cover-I:** Will contain the Technical Bids with the following documents:

- Detailed technical write-up highlighting the model Name/Number features offered and / or technical literature/manuals.
- Certificate for acceptance of terms and conditions of tender enquiry on firms' letterhead.
- Original Equipment Manufacturer (OEM) certificate or authorized dealership/distributorship certificate as applicable.
- Manufacturing Registration No.
- Company Printed Price List (If available)
- Last 3 (three) years Income Tax Return.
- Audited Balance Sheet for Last 3 (Three) years.
- TIN number/PAN Number/Certificate/GST number
- Business Registration Certificate.
- Scanned Copy of EMD as shown against each item.
- Compliance Certificate. Certificate of clause-by-clause compliance of specifications as mentioned in tender.

GENERAL TERMS AND CONDITIONS:

1. *Only the manufactures and/or their authorized dealer/distributors/sole agents/ need to submit their tender.
2. No person or firm shall submit more than one Tender for the same item. No offer should have more than one model quoted; in case of more than one alternate offer only the first option will be considered.
3. It is mandatory to provide all the relevant information in **Annexure -I**.
4. Broad-based specifications of equipment/items/systems/works *etc.* are given in **Annexure- II** of purchased tender. The tenderer should also take note of the remarks, if any, given their in.
5. a. Last date for submission of e-Tender is 02.07.2024 up to 5:00 PM on www.mptenders.gov.in.
 - c. Belated tender due to postal or any other delay will be rejected.
 - e. If offers for more than one item are clubbed together, tender will be rejected.
 - f. The tender offers should have a validity of 180 days or more from the due date. The tenders will be valid for 6 months from the date of opening and may be **asked for extension by taking written concern of the firms if needed.**
 - g. Price bid will be opened online at www.mptenders.gov.in on 08-07-2024 from 3:00 P.M. to 5.00 PM. If date of opening of price bid will be changed due to any circumstances. That will be informed to bidders.**
 - h. R.V.S. Krishi Vishwa Vidyalaya (RVSKVV) reserves the right to extend the opening due date and or the date of opening the tenders.
 - i. All the leaflets in the offer should be marked with signature and seal of authorized person.
6. a. The rates quoted should in Indian Rupees (₹) for a **single complete unit** with F.O.R. delivery at RVSKV, Gwalior. The rates quoted should be inclusive of packing and forwarding charges/loading/unloading/handling charges/freight/full risk coverage/insurance, *etc.* In case of imported goods all the expenses towards custom duty, clearing charges and transportation with insurance will be borne by the firm/tenderer and they must quote the rates inclusive of all FOR, RVSKV, Gwalior in INR.
 - b. Excise duty/Sales Tax/GST/Custom duty (with and without concession certificate) and other levies, if any should be shown separately and the **total price** of each item should be worked out incorporating the all.

- c. Any other charges, such as technical service charges, cost of training, installation charges, TA/DA of tenderer's staff *etc.* if any, should be shown separately for each item and each sub-item and the total price of each item should be worked out incorporating the same in final quoted price.
7. All losses during transit will have to be made good by the tenderers at his cost within a period of 15 days.
8. The tenderers must provide guarantee/warranty on **manufacturers' letterhead** of satisfactory functioning of the equipment/system and free service including free replacement of parts for a period of at least **3 years** from the successful and satisfactory installation of the equipment/system. Original to be deposited by the successful bidder at the time of supply.
9. **Performance Guarantee:** The Successful bidder/supplier will be required to furnish a Performance Guarantee in the form of FDR from a public sector bank or a private sector bank authorized to conduct government business for a sum equal to **10%** of the Supply Order value within 30 days of signing of the Supply Order. Performance Bank Guarantee will be valid up to 3 years beyond the date of guarantee/warranty.
10. Offer must be accompanied by **Earnest Money** as stated against each item must be submitted **on-line**. Without the deposition of earnest money, the offers will be rejected.
11. The standard terms and conditions of payment is in full only after the installation is affected to the satisfaction of RVSKVV authorities in INR only.
12. Please quote maximum discounted price, as no further negotiations will be made.
13. Complimentary items/gifts offered will not be given any preference and will not be considered for calculating the cost of the item.
14. *The offers must mention make, model all the specifications of the item clearly. The company must enclose printed literature/catalogue/manufacturer's web-site showing detailed technical specifications required. A folder showing many instruments without detailed technical specification, or tailor-made literature mentioning "yes" or "as per your specifications" for the specifications asked for, will not be considered. Specifications given in the offer must match to the website and/or printed technical literature otherwise the offers shall be rejected.
15. Technical specifications of the equipment / items have been very clearly formulated by the users/experts of the field as per the requirement of the work to be conducted. It will be sole discretion of the bidder whether to quote or not for equipment with particular specifications.

16. *Firm must provide a compliance statement vis-à-vis specifications in a following “tabular form” clearly stating the compliance, supported by technical literature with clear reference. This statement must be signed, with the company seal, by the Tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the offer.

Name of Equipment:		
Technical Specification	Compliance (Y/N)	Deviation, If any

17. *Offer must be accompanied with a comprehensive list of users on manufacturers’ letterhead, wherever possible bidders may also provide certificates for satisfactory working of the equipment from users of universities and institutions of repute.

18. a. If so desired by RVSKVV, the bidders shall have to enter in to an agreement.

b. Any wrong information about item, any forged document and any deviation, variation of non-compliance of the terms and conditions by the tenderers shall be considered as a breach of contract and RVSKVV reserves the right to forfeit the amount of earnest money and/or security deposit in full and take action as per legal arrangement.

19. Should there arise any dispute, the Hon'ble Vice Chancellor, RVSKVV, Gwalior shall be the sole Arbitrator whose decision in the matter shall be final and binding. Each and every judiciary transaction shall be subjected to Gwalior only.

20. *Tender will not be considered if the firm does not supply a copy of the TIN/ GST& PAN/ Registration of the firm allotted to it for relevant items. PAN of the owner or any other persons will not be accepted.

21. This tender is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw the tender, should it become necessary at any stage.

22. RVSKVV reserves the right to accept or reject any or all offers in full or in part without assigning any reason (s) thereof. It also reserves the right to place and order wholly or in part with one or more than one firm as it may be convenient to RVSKVV, Gwalior.

23. The tenderer shall have to give an undertaking that the terms and conditions as mentioned above of this tender are acceptable to the tenderers in form of downloaded Tender documents duly stamped and signed.
24. If firm wishes, they can send their representatives, duly authorized in writing, to attend the Technical Evaluation and clarification regarding bids which is scheduled at 3:00 PM on 4th July, 2024.
25. In case, if single manufacturer of the any item and having propriety rights. Items may be purchased with the permission of concerned higher authority.
Bidder should be submitted EMD (Provide EMD Details) in the form of DD/ MSME firms are exempted from EMD Submission.
26. The annual turnover of the agency should not be less than 1.0 crores during last Five financial years. For the annual turnover audited balance sheet along with annual report and IT return of the agency should be submitted as supporting documents.
27. Bidder should have ISO certificate ISO 9001:2008, ISO 45001:2018, ISO 14001:2015.
28. Firm should have 5 minimum years' experience of running minimum four similar project in any govt. dept./semi govt/ autonomous institution. (Attached documentary proof of work order and completion certificate)
29. Firms applying for the proposed work should have experience of establishing at least 5 similar natures of work of hi-Tech project of net house/ polyhouse
30. Bidder should have experience of establishing Net house unit Setup at least 1 work order value not less than 20 Lakh. Preference will be given to the proven technologies like CPRI aeroponics technology/ unit set up. (Attached documentary proof of work order), issued from Govt. or Non- Govt. Organization should be attached with tender documents in support of experience which clearly indicates firms name and work executed along with price list and payment proof.
31. The party/firm/company should be provided comprehensive work plan proposed with sealed Designs/Drawings using CAD (Computer aided Design)
32. Valid Authorization certificate from the manufacturer/ company/ distributor /dealer applicable in the current year/valid for published tender for items.
33. Joint Venture is not allowed for participate this tender.

34. Bidder must secure minimum 70 score in the score sheet provided in Annexure II to qualify in the technical bid.

35. The financial bids of only qualified firm in technical bid will be opened. The financial bid will be evaluated on the basis of total cost of the project quoted by the firm.

Dated:

**Director Research Services
RVSKVV, Gwalior**

Annexure-I

**DIRECTORATE OF RESEARCH SERVICES
RAJMATA VIJAYRAJE SCINDIA KRISHI VISHWA VIDYALAYA GWALIOR 474002,
M.P.**

SUPPLEMENT / CHECK-LIST TO BE PROVIDED WITH TECHNICAL BID

ITEM No. _____ NAME _____

S.No.	Information required	Proposed
1.	Make of main item	
2.	Model of main item	
3.	Name of manufacturer of Main Item	
4.	Country of origin of main item	
5.	Name, Make and model of sub item I (if any)	
6.	Name, Make and model of sub-item II (if any)	
7.	Name, Make and model of sub-item III (if any)	
8.	Delivery within (days)	
9.	Rate of Excise duty (%) with surcharge, if applicable (item-wise if different ED is applicable)	
10.	Rate of GST (%) livable. If no, state basis and terms of the exemption.	
11.	Is Service Tax extra? If yes, rate of Service Tax livable (%)	
12.	Any other Taxes / Duties / Octroi / Entry taxes <i>etc.</i> in %	
13.	Order to be placed on	
14.	Guarantee/Warrantee (3 years)	
15.	Validity (at least 180 days)	
16.	FOR: RVSKVV, Gwalior?	
17.	List of current users (Attach, if any)	
18.	Certification of satisfactory working of the equipment (Attach, if any)	
19.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
20.	Whether manufacturer / authorized distributor/sole agent?	

	(Attach original certificate)	
21.	Technical literature (Attach, if any)	
22.	Earnest money (EMD) deposited on line and proof has been enclosed	
23.	Situations of Authorized service centers/ service personals <i>etc.</i> (Provide complete address)	
24.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration <i>etc.</i> (enlist and attach)	
25.	TIN and PAN allotted (Attach a copy)	
26.	GST number	
27.	Any other relevant information	

DECLARATION

The terms and conditions as mentioned in the tender are acceptable to us.

Authorized Signatory

(Seal of the Firm)

Annexure II

SCORE SHEET FOR TECHNICAL EVALUATION OF BIDDER

Important Note: Proof is to be uploaded to qualify for the marks

S. N.	Criteria	Max. Marks	Marks Obtained	Remarks
1	Firm should have minimum 5 years' experience of running minimum two similar project in any govt. dept./semi govt/ autonomous institution. (Attached documentary proof of work order and completion certificate) (Attached documentary proof of work order and completion certificate) (5 X 3 marks).	15		
2	Firms applying for the proposed work should have experience of establishing at least 5 similar natures of work of hi-Tech project of horticulture like net house/polyhouse (5 X 3, marks for Each).	15		
3	The annual turnover of the agency should not be less than 1.0 Cr for Net house. For the annual turnover audited balance sheet along with annual report and IT return of the agency should be submitted as supporting documents. Profit and loss account and balance Sheet certified by the Chartered Accountant indicating the Turnover per annum for the said period should be enclosed. Only that balance sheet and profit and loss account statement that are used for filing IT returns should be Uploaded (5X2 marks/year).	10		
4	ISO Certificates (6 Marks) – ISO 9001:2008, ISO 45001:2018, ISO 14001:2015. (2 marks per certificate)	6		
5	(a)Work Order of 4 Nos of Net house setup at least 1 work order value not less than 20 Lakh. (To be appended with purchase order) (4 X 4 marks).	16		
6	Having own fabrication facility (Proof, contact details of office, factory address to be given). Certificate under shops and establishment Act/ certificate of incorporation of the firm as limited company need to be uploaded (5 marks).	5		
7	Detailed technical CAD drawings of the Project & PERT for proposed project.	5		
8	Human Resource: Full time employed technical manpower (Proof of employment (appointment letter, & proof of qualification	8		

	(degree certificate) to be given for each position) (8 marks).			
9.	PPT presentation regarding net house Facility	8		
10	Site Visit	12		
	Total Marks	100		

*** Bidder must secure minimum 70 marks to qualify in the technical bid Evaluation**

***Financial score (Sf)**

Financial bids will have a 30% weightage factor in the final evaluation of the total bid score. The points will be allotted on the basis of the following:

$Sf = 100 \times (Fm/F)$, in which SF is the financial score, Fm is the lowest price and F is the price of respective bidder.

Total Score (St)

The weightage given to the Technical and Financial proposals are:

Technical = 0.70 and Financial = 0.30

The bids shall be evaluated on the basis of Total score obtained by the company by adding the weighted technical score and financial score.

Combined total score (S) = $(St \times 0.7) + (Sf \times 0.3)$

The tender shall be awarded to the bidder with highest score.

(Director Research Services)

Net House (First Call)

TECHNICAL SPECIFICATION

Unit Area: 4000 sqm insect proof net house with Brick Wall, + Vermi compost + Drip irrigation System.

Size : 92 Mtr x44 Mtr with 2Mtr Balcony on four side.

Centre Height : 5.0M

Side Height : 3.0M

Shape : Arc

Structure: It should be strong enough to withstand the wind load of 150Km/Hrs

Complete structure made of hot dip galvanized steel tubular pipes, thickness 2mm, poles 76mm & 60mm OD, 48mm OD, 33mm OD, Cross bracing 42mm OD at all corners.

Foundation Pipe Telescopic method CC foundation will be provided. The principal pillars are connected to the foundation pipes of Dia. **60 mm x 1.2 Mtr Long x 3mm thick Galvanization** 300 Gr/ sqmtr. The foundation hole is of Dia. 300 mm and depth of 750 mm. The distance between foundations 4 mtr on the length side and 8 mtr on the gable front.

ISI marked GI pipe, 2mm thick for structures with min. 350GSM Galvanization.

GI pipe with IS 3601/1239/4923 standard only

Columns: All the columns in the structure on the outer are made of GI Pipe of Dia 76 mm x 2mm thickness of pipe. & inner side GI Pipe Of Dia 60 mm x 2mm thickness of pipe. The Distance between the two columns on the gutter front is 4 mtr. The distance between columns on the gable front will be 8 Mtr.

The columns are connected to the foundation by telescopic method and fastened by bolt, nut and washers.

Arches: The arches of the structure are made of the GI Pipe of Dia. 48mm x 2mm thick. The distance between the arches is 4 mtr. The shape of the arches allows better extension of the covering and prevents the accumulation of the rain water on the top.

Arch Complex each Gable has an arch and horizontal beam of 8 mtr which connects the end of the arch with the end of the pillar.

The horizontal beam is made of Dia. 60 mm Pipe and it connects to the arch by means of diagonal reinforcement.

The arches, horizontal beam and the reinforcements create the rigid, highly resistant complex. All the connections of the complex are done means of clamps, bolts, washers without need of welding.

Fasteners: All nuts and bolts must be of high tensile strength, anti-corrosiveness and galvanized.

Cladding material: UV stabilized 40 x 40 mesh insect net (BIS standard material) for top and all sides with

3-year warranty for U.V. degradation.

Fixing of Cladding material: Aluminium Profile with PVC coated zigzag high carbon steel spring 2.3mm thickness, Fixing of Nylon mesh will be on each arch of the structure, Sticking of Nylon Mesh with thread should not be allowed,

Brick Wall 22cm brick wall (1.25 ft above the ground Level and 2ft below the ground level on all the four sides). The wall will be plastered with 1:6 Ratio. painted with weather proof Acrylic paint 2ft below the Ground level x 2 ft. Brick wall of 1.25ft. Height.

Entrance The entrance is made of an entry room with two single sliding doors to be opened alternatively. The doors are made of GI pipe & Aluminium fixing material with lower & upper part will be covered with Polycarbonate sheet of 6 mm twin wall thickness.

The size of Door frame is 1.2 mtr wide x 2 mtr high.

The size of entry room is Size 2.5 x 2m (L x W) Long which will be covered with Polyfilm.

One hinge door with proper door fitting will be provided at the entrance of the Pre-Entry and One sliding door will be provided at the other side of the pre-entry area made of 6mm thick polycarbonate sheet with aluminium section.

Tractor Entry: One Separate Entry for small tractor 3mtr x 2mtr (H x W)

Drip Irrigation

1. Net work pipes:

Main PVC pipes : 75 mm 6 kg.

S/M : PVC Pipes : 63 mm 6 kg used as lateral for drip irrigation.

Drain PVC Pipes : 50 mm 6 kg.

2. Fitting & Accessories: Heavy duty – including the PVC, elbow, Tee bend solvent cement, filter flanged, GI wires etc.

3. LLDPE Lateral pipe: Lateral line with 16mm the quality of tube (Netafim Make)

4. Head Connector & gasket rubber grommet connect the PVC sub main pipe line.

5. Barbed connector: Barbed connector 16 mm to connect the inline hydrogal lateral.

6. Filtration System: Disc filters 10kg/m³ of matching capacity

7. In Line Drip Line : 2 liter/hours, (Netafim Make) with dripper to dripper distance 20cm self flushing, non drain, low profile, top outlet, micro tubes & pegs.

8. Air Release Valve: Long lasting and safe operation of the system.

9. Control Valve: Appropriate required the timely opening and closing system must be operation

External Protection of 40x 40 mesh against high wind condition with 3mm PVC wire UV resistant at every 1 mtr distance on every Arch of the Net House at every 1 Mtr Distance with proper tighten arrangement with turn buckle set. Length wise arrangement should be provided.

Micro fogging system with Cyclic timer provision.

Specification: Through Micro Humidification system to create the 80% - 90% $\pm 5\%$ humidity, Installation with leakage Prevention device (LPD) fogger does not drip during the function.

Working pressure - 2.5 bar at this pressure,

The average droplet size: 50 to 100 μm .

Density: One fogger to 0.3 m – 0.4 m²

Type of Fogger: Cross way nozzle, hanging type. fogger discharge range:28.0 LPH

Pipe: 16 mm LLDPE (10 kg/cm²) color BLACK

Motor: 5 HP centrifugal pump (ISI Make): 1 no.

Filter (Screen) 10kg pressure: 1Nos.

Return gutter, control valve assembly & PVC /GI FITTINGS

Water Tank: 2000 lts (ISI Make) make.

Plitz / Cyclic Timer for Humidity specific for fogging, misting system, controlled by timer to reduce water logging condition in the Net House.

Specification: 0-999 Min/sec On, 0-999 Min/sec OFF, automatic cycling. Accuracy quartz, Power output can be directly drive misting unit load upto 4.4 KVA, Input 200 V to 240 V.A.C, Phase-Single, 50 Hz, Ambient 4°C to 50°C, RH upto 90%