

**Office of Deputy Director of Horticulture, Mandi**  
**Department of Horticulture**  
**Himachal Pradesh, Mandi- 175001**

**No.: DDH (M)5-54/2020 (MIDH- Misc.)**

**Dated:09.03.2021**

Deputy Director of Horticulture Mandi, Himachal Pradesh on behalf of Government of Himachal Pradesh invites e-Tender in two envelop system (IS2E) for the under mentioned works from the prospective eligible and registered Manufacturer/ Fabricators for the Fabrication /establishment of Insect Proof Net House at Centreof Excellence, Sidhpur, Block Dharampur Tehsil Dharampur District Mandi, H.P under MIDH.

The detail of specifications for Insect Proof Net House structures to be constructed at Indo-Israel Centre of Excellence for Citrus and Pomegranate under the Indo-Israel Agricultural Project situated at Sidhpur, Block Dharampur Tehsil Dharampur District Mandi (H.P) is as given below:

<b>Brief Description of work</b>	<b>Delivery location</b>	<b>Bid document cost (Rs.)</b>	<b>Earnest Money Deposit (Rs.)</b>
Insect Proof Net House (15000 sqm.) of different sizes 42x30m = 4 no. 80x 31.25m = 2 no. 80x50 m = 1 no. 40x25 m = 1 no.	Centre of Excellence (Sidhpur)	9000/-	3,00,000/-

1. During the year 2021-22, the Department of Horticulture, Himachal Pradesh desires to construction / installation / fabrication of Insect Proof Net House structures in Indo-Israel Centre of Excellence for Citrus and Pomegranate under the Indo-Israel Agricultural Project situated at Sidhpur, Block Dharampur District Mandi (H.P). The concerned firms are required to carry out the work as per the recommended specification(s).
2. Date of online publication of tender: 9<sup>th</sup> March, 2021
3. Document Download start and end date: 9<sup>th</sup> March, 2021 6.00 PM to 30<sup>th</sup> March, 2021 up to 1.00 PM. The bid document can be downloaded from [www.hpagrisnet.gov.in/horticulture](http://www.hpagrisnet.gov.in/horticulture) or [hptenders.gov.in](http://hptenders.gov.in).
4. Bid submission start and end date: 19<sup>th</sup> March, 2021 to 30<sup>th</sup> March, 2021 till 1.00 PM. The bids can only be submitted online through [hptenders.gov.in](http://hptenders.gov.in).
5. Date and Time of Technical Bid opening: 30<sup>th</sup> March, 2021 at 2.00 PM at Directorate of Horticulture, Shimla-2.
6. Tender fee & EMD should be submitted on or before 30<sup>th</sup> March, 2021 till 1.00 PM
7. Date of site visit-15<sup>th</sup> -16<sup>th</sup> March, 2021

8. Date of Pre bid meeting- 18<sup>th</sup> March, 2021 at 11.00 AM in the office of Deputy Director of Horticulture, Mandi, H.P. Bidders interested in participating in the bid are advised to attend the same.
9. Date of Technical Bid opening will be 30<sup>th</sup> March, 2021 at 2.00 PM, evaluation of technical bid opening and financial bid opening will be done accordingly at Directorate of Horticulture Shimla -2 in the presence of committee.
10. Submission of Original Document: -The bidders are required to submit (a) original demand draft towards the cost of bid document i.e. Rs 9,000/- and (b) Original bid security/Earnest Money Deposit (EMD) i.e. Rs 3,00,000/- in shape of FDR/BG duly pledged in favor of The Dy. Director of Horticulture, Mandi, H.P. failing which the bids will be declared nonresponsive. If any bidder withdraws his bid / tender during the period of bid validity or makes any modification in the terms of conditions of the bid, his earnest money shall be forfeited.
11. Other details can be seen in the bid document. The officer inviting tender shall not be held liable for any delay due to system failure beyond his control. The employer shall not be liable for any information not received by the bidders. It is the bidder's responsibility to verify the website for latest information related to the tender.

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**Document for**

**Fabrication of Insect Proof Net House in Indo-Israel Centre of Excellence for Citrus and Pomegranate under the Indo-Israel Agricultural Project situated at Sidhpur, Block Dharampur District Mandi (H.P) under MIDH**

**Implementing Agency**



**DEPARTMENT OF HORTICULTURE  
HIMACHAL PRADESH**

# **Centre of Excellence for Citrus and Pomegranate (COE) under MIDH**

## **1. Introduction:**

Himachal Pradesh (HP), State Horticulture Mission is partnering with the INDO-ISRAEL Agricultural Project (IIAP) establishing a Centre of Excellence for Citrus & Pomegranate.

INDO-ISRAEL Centres of Excellence (CoE) in HP aims to be an advanced/intensive agriculture farm for knowledge transfer of Israeli Agro-Technology tailored to the local conditions. CoE aims to benefit farmers with a focus on selected key crops. The CoE will be established on two different sites, where site 1 will be dedicated to the nursery management & training facility, site 2 will be dedicated to the demonstration block.

The CoE will be comprised of Nursery management, Best practices Cultivation techniques, Irrigation & fertigation. Sustainability- IIAP aims to develop into a self-sufficient platform in the aspect of HR, accumulated knowledge & operating capabilities. The CoE acts as a meeting point for Academy, Government and farmers to cooperate towards fruitful achievements.

The **establishment of Centre of Excellence** for Citrus & Pomegranate will go a long way in improving the economy of the farmers. The proposed Centre of Excellence will be focused on producing high quality planting material, trainings, demonstration of Israeli Agro-technology including the introduction of new varieties.

It is necessary to have this Centre of Excellence for Citrus & Pomegranate to display and popularize advanced horticultural technology for further commercialization amongst the farmers of the State with the help of Israel's expertise to the relevant field.

## **2. Project Objectives:**

- I. Nursery management: Production of high quality and large quantity of planting material to benefit the farmers.
- II. Demonstration:
  - New varieties:  
New Indian varieties will be identified and demonstrated.

Israeli varieties that exist in India in another places, will be demonstrated, the new Israeli varieties will be discussed between all the stakeholders later on and finalized to import.

- Irrigation: will be demonstrated on the daily basis plant requirement. In addition, a small farm holder demonstration also will be implemented to benefit the small farmers.
- Fertigation: specialty fertilizers (water soluble) fertilizers will be demonstrated.
- Plant protection: demonstration of plant protection management (to identify the challenge & solution as well) will be implemented.
- Precision Agriculture: effective irrigation & other components based on the satellite imaging will be demonstrated.

- III. Developing protocols/guidelines& tailored to the local conditions in the CoE& farmer’s field as well
- IV. Generating knowledge for best agricultural practices.
- V. Knowledge transfer: Progressive farmers to identify the farmers that will adopt the technology& set example for rest.
- VI. Training: CoE to execute farmer’s training programs in large numbers based on the different aspects & areas of activities that will be demonstrated in the CoE.

### 3. Scope of work

The fabrication firms/ agencies/ service providers are required to do the work of Insect Proof Net House construction and fabrication as per the recommended specifications including micro irrigation systems i.e. drip and fogger assembly as per specifications mentioned. The Departmental officers of the respective areas will visit the proposed site before the construction and will recommend the design and orientation of the Insect Proof Net House.

Brief Description of work	Delivery location
Insect Proof Net House (15000 sqm.) of different sizes 42x30m = 4 no. (5040 sqm.) 80x 31.25m = 2 no. (5000 sqm.) 80x50 m = 1 no. (4000 sqm.) 40x25 m = 1 no. (1000 sqm.)	Centre of Excellence for Citrus and Pomegranate Sidhpur, Dev. Block Dharampur, District Mandi H.P.

The above dimensions are indicative and may vary as per actual field location.

### 4. Technical Specification of an Insect Proof Net House Structure

S.N.	Item	Specification
01	Structure	Dome shape Insect Net House-Tubular Structure

	Size	As required ( 1000 sq.m =1no., 1250 sq.m =4 nos., 2500 sq.m =2 no. and 4000 sq. m =1 no. structure Total= 15000 sq. m)
	Shape	Dome Shape.
	Withstand to wind velocity	Structure should withstand wind velocity upto104 Km/hour, and 120 km/ hour in high wind velocity zone.
	Foundation	2mm thickness GI Pipes compatible with columns, length 1.2m
	Main Column	Size 76 OD, Thickness 2 mm,
	Purlins	Purlin GI pipes – size 48/43 OD/thickness 2 mm, length – 4 m .Purlin members – 33/32mm OD/2mm thickness,
	Corner/Hockey	Size 60 OD, Thickness 2 mm, Wt. per length 0.15 kg, length-0.15 m
	Four Way Pipe Couplers	Size 42 OD, Thickness 2 mm, Wt. per length 0.15 kg, length-0.15 m
	Five Way Pipe Couplers	Size 42 OD, Wt. per length 2.30 kg, Thickness 2 mm, length-0.15 m
	Nut Bolts	Size 3/8”
	Grid Size	4x4, 8x4, 4x6 (m) with 2 mtr hockey on 4 side
	Gable length	4.0 m
	Centre Height	Flat Structure – 4mHut/dome type structure – center height – 4.5 to 5m, side height – 3m with 48mm truss, 33mm truss member and 42mm purlin
2.	Aluminum Profile	C type GI profile to fix shade net to the structure by means of self-tapping screws. Weight of GI profileis 280-300 gm/meter. Self-Drilling Screw be fixed onprofile every 40 cm along the full length of the profile
3.	Spring Insert	A coated spring is preferable compared to cold galvanized spring as a coated spring transfer less heat to the plastic and thus enhances the life of the plastic If we are using GI spring it is better to use a two inch strip of new poly film to be placed over the main plastic in the profile and then lock it with GI profile. This will help in longer life of the plastic as the rusted spring will not directly come in contact with the main plastic. Wire material should be high carbon spring steel with spring action.
4	Covering material	50 mesh insect net

5	Door	Polycarbonate/polythene sheet door with 1 m widths and 2m height and another door of 1m x 2m Box section frame are embedded inside for the strength.
6	Entry- Room	Entry-room of size 4mx 3m attached to net house
7	Civil work/foundation	Cement concrete 1:2:4 block of size 40 cm x 40cm, 90 cm for embedding vertical poll/pipe of shade net, subject to revision as per requirement of site.
8	Overall slop	1 %
9	Apron	Use of apron upto 1 mtr height stitched with insect net / shade net
10	Drip irrigation and fogging System	Drip irrigation and fogging system as per area of the structure.
11	Trellising System	i) Base wire 8 mm or GI Pipe 60 mm OD, 2 mm thick ii) Trellising wire 3 mm steel or 2 mm gear wire iii) Supporting wire 4 mm steel or 3 mm gear wire
12	Others	Aluminum Screen Shade Net 35 to 65%, minimum 75 GSM to 90 GSM plastic as top is dome top.
13	Skirt Wall	9 inch brick wall up to 3 feet height and 1.5 feet under ground with 10cm pccc base duly plastered and painted.

## 5. General Conditions

- The Service Provider will start the construction work of Insect Proof net House and will supply the material as per the specifications laid down for that particular type of net house.
- The Service Provider will complete the construction work within the time period specified by the concerned Dy. Director of Horticulture/Subject Matter Specialist (Hort.) or as per bid document.
- The Service Provider will take a trial run of all the structure including micro irrigation systems and then only handover the structure to the Department/COE.
- The Service Provider must mandatorily handover an “operational manual of functioning of the Insect Proof Net House systems” to the Departmental officials and obtain a satisfactory certificate from the Department.
- Insect Proof Net house structural design should be sound enough to withstand wind speed of 130 km/hr.
- The Service provider should submit its structural design and the same should be got verified from the structural engineer or the technical committee as the proposed work is based on functional requirement and field experience.
- The firm should guarantee for free maintenance/damage to the structural material atleast

- for two years.
- The technical and financial bid should be submitted by the bidder in two separate sealed envelopes. The financial bid will be opened of the technically responsive bidders only. The bidder found technically non responsive will not be evaluated for financial bids.

## **6. Duration of the Contract**

The contractor should be able to complete the awarded works within a period of 60 days starting from the date of signing of the contract agreement. The duration of work may be extended under unavoidable circumstances as may be deemed appropriate by the Dy. Director of Horticulture, Mandi.

## **7. Final Decision Making Authority**

Dy. Director of Horticulture, Mandi Himachal Pradesh reserves the right to accept or reject any or all bids (Document for Technical Eligibility) application at any point of time without assigning any reason or incurring any liability to the application. In case of any dispute arising on various grounds, the decision of the Director of Horticulture, H.P. will be final and binding.

## **8. Technical Document (tender) fees**

A complete set of bid document can be downloadable from the website <http://www.hpagnisnet.gov.in/hpagnis/Horticulture/> and Rs. 9000/- non-refundable fees shall be paid in the form of Demand Draft in favour of Dy. Director of Horticulture, Mandi district Mandi H P, payable at Mandi on the submission of the Document.

## **9. Contract Terms and Conditions:**

- I. The L1 Bidder has to submit signed copy of contract terms and conditions on Rupees 100/- Non Judicial Paper/ Stamp Paper duly attested within 21 days of award of contract. service provider will furnish a warranty on the material/ components/equipment's of Insect Proof Net House constructed for a period of five years from the date of completion of the project.
- II. The bidder will provide the on-site post installation repair and maintenance services for a period of at least two years.
- III. The service provider will replace any component damaged during the warranty period due to any manufacturing defects.
- IV. If any instrument or component gets broken or damaged during the fabrication of the insect net house, same will be replaced by the service provider before handing over the structure to the CoE.
- V. The rate quoted should be inclusive of all taxes like GST or any other charges as may be applicable.
- VI. Technical Bids shall be opened/evaluated by the Technical Committee constituted by the head of the department.
- VII. Financial Bid of the technically responsive bidders only shall be opened for further



evaluation.

- VIII. The bids received after the due date and time specified for their receipt shall not be considered and will be rejected summarily.
- IX. The technical committee as notified by the Director of Horticulture, H.P. will physically inspect the material before the release of payment.
- X. The bid document will form the part of contract agreement.
- XI. Release of Payment- The payment will be released to the firm after verification by the committee as under:
- 10% advance payment upon receipt of signed contract agreement and performance security within 15 days.
  - 80% payment will be released within 15 days of completion of the awarded works.
  - 10 % payment will be released within one month of handing over the operationalized Insect Proof Net Houses.
- XII. Performance security: The EMD of the non L1 bidders will be returned immediately after declaration of L1 and EMD of the L1 bidder will be returned within 1 week of signing of contract agreement and submission of performance security of amount equal to 10% of the contract amount in form of FDR or BG duly pledged in favour of Dy. Director of Horticulture, Mandi H.P.
- XIII. Validity of Bids: The bid will be valid for a period of 365 days.

#### **10. Qualifying Criteria for Technical bids:-**

- I. The Bidder will have to qualify technically based on the eligibility criteria. The documents to be submitted showing fulfillment of eligibility criteria are given in Annexure-1 & Annexure-2.
- II. The manufacturer should be a Public sector undertaking/ Public/ Private Entrepreneurs/ Agencies/ MSME (proof to be enclosed as per Annexure-3).
- III. The bidder should have its own manufacturing / fabricating/ assembling facilities in the state of Himachal Pradesh.
- IV. The bidders should be in the business of Insect Proof Net house/poly house manufacturing / fabrication / supply, installation and maintenance for a minimum of two years period.
- V. The bidders should have minimum fabrication experience of 10,000 sqm Insect Proof Net House / Poly House in Himachal Pradesh or 1.00 Crore average annual turnover for the last 2 years. The fabricator should have the technical background. and will give a presentation for about 5-10 min regarding his technical expertise and proper maintenance of Insect Proof Net houses before committee. The bidder should also provide the list of Insect Proof Net houses established in the farmer's field/any department (10,000sqm) (As proof)
- VI. The bidder has to be profitable and should not have incurred losses in the last 2 consecutive financial years (2018-19 & 2019-20) Certified copies of Trading Account, P&L or Balance Sheet by CA may be attached.
- VII. The firm should not be blacklisted by any Central Govt./ State Govt./ PSU/ Govt. Bodies (Certificate signed by the Authorized signatory).
- VIII. The bidders should have supplied to Government sector/Public Sector Undertaking/Semi-Government Organization/ private sector and meeting major specifications parameters and functioning satisfactory in India for the last 2 years (Attach proof).

- IX. The firm should be prompt in offering After Sales Service, resolving complaints and replacement, if required. (under taking in this regard to be enclosed).
- X. Copy of the PAN No./GST No./ Service tax registration must be submitted/
- XI. The bidder has to submit ITRs for three preceding years.

### **10. Financial Bid: -**

- I. The contract shall for the full quantity as described.
- II. All duties, taxes and other levies payable shall be included in the total price.
- III. GST in connection with the sale shall be shown separately.
- IV. The prices quoted should be in Indian Rupees.
- V. Prices must be offered on the prescribed enclosed Performa/Format.
- VI. The manufacturer should quote model-wise rates.

### **11. Evaluation of bids:-**

The committee constituted will evaluate and compare the bids determined to be substantially responsive as per the criteria laid down in the bid document.

**Technical Bid:-** Technical bid will be opened in respect of those bidders who have uploaded the bids as per the eligibility as mentioned. Tenders shall be scrutinized and evaluated by the technical committee of experts with reference to parameters and specifications prescribed in the Tender Document. During the bid opening, the tender opening committee will check the salient technical features of the tenderers like detailed description of the material offered by the tenderers, specifications as mentioned and other documents as specified. The technical committee can ask for any clarification/ document/ demonstration during the technical evaluation.

**Financial bid/Price tender/BOQ:-** It shall contain financial bid/BOQ uploaded in.xls or.xlsx format which will be available for bidders on website <https://hptenders.gov.in>. The financial bid/BOQ will not be accepted in physical form. At the time opening of tenders, financial Bid/BOQ will be opened only of those bidders who qualifies Technical bids.

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**Annexure-1**

**Company Profile**

<b>Sr. No.</b>	<b>Particular</b>	<b>Detail</b>
1	Name of Organization	
2	Nature of the Organization	
a.	In case of Public/Pvt. Ltd.(Certified copy of Certificate of incorporation for companies & Memorandum and Articles of Associations)	
b.	In case of Proprietorship (Registration certificate, Factory registration, DIC industrial registration)	
c.	In case of society (Certified copy of registration deed with objects of constitution of society)	
d.	In case of Corporation (Authenticated copy of the parent statute)	
3	Head Office Address - with Phone/Fax No., email IDs	
4	Address of regional/zonal offices in H.P.	
5	Name and contact detail of the Authorized Person	
6	Any other details in support of your office	
7	PAN/TIN/CST-GST (attached attested copy)	
8	List of authorized persons of the company and their qualifications	
9	Year of establishment of the company	
10	Any other, relevant information	

## **Annexure- 2**

### **Checklist for fulfillment of eligibility criteria**

Sr. No.	Criteria	Documents/Detail required	Documentary proof attached(Y/N)
1.	Minimum 02 (two) years of experience in the field of Insect Proof Net House/Green House in supply, installation and maintenance.	Certificate of incorporation, Business commencement certificate, works to be demonstrated by Contract/Agreement/ work Order from clients showing clearly 2 years of experience	
2.	The bidders should have minimum fabrication experience of 10,000 sqm Insect proof net houses in Himachal Pradesh or 1.00 Crore annual turnover for the last 2 years.	The bidder should also provide the list of Insect Proof Net House established in farmers' field. (As proof)	
3.	Minimum Annual Turnover for each year in the last two financial years	i) Chartered Accountant certificate showing Minimum Annual Turnover of the agency in last 2 years clearly indicating the Turnover from construction activity of Greenhouse/net house/poly house.	
4.	The service provider should have its own manufacturing/ fabrication/ assembling facility within the State of Himachal Pradesh OR the service provider should give an undertaking that they will establish such facility in the State within one month after being empaneled.	Factory registration, DIC registration, list of machines and equipment available with company. OR UNDERTAKING	

### **Annexure-3**

1. All MSEs notified as per GFR 2017 Clause no.1.10.4 and as notified below shall be exempted from payment of Tender Document Fee and Bid Security / Earnest Money Deposit. For claiming this exemption, MSE must, along with their offer, provide proof their being registered as MSE (indicating the terminal validity date of their registration) for the item tendered, with any agency mentioned in the notification of Ministry of MSME, indicated below: -
  - (a) District Industries Centres;
  - (b) Khadi& Village Industries Commission;
  - (c) Khadi& Village Industries Board;
  - (d) Coir Board;
  - (e) National Small Industries Corporation;
  - (f) Directorate of Handicraft & Handloom;
  - (g) Udyog Aadhar Memorandum issued by Ministry of MSE; or
  - (h) Any other body specified by the Ministry of MSME.
2. For planning the above exemption for start-ups, a valid certificate of start-up recognized by 'Department of Industrial Policy and Promotion (DIPP)' along with Business Eligibility Certificate or any other Document issued by Govt./ recognized institute is required in support of product/ service item being tendered.

## Bill of Quantities (BOQ)

Sr. No.	Item	Unit	Quantity	Basic rate (Rs.)	GST (Rs.)	Total rate (Rs.)
<b>1.</b>	<b>Insect proof Net House</b>					
i	42x30 m (4 no.)	Sqm.	5040			
ii	80x 31.25 m (2 no.)	Sqm.	5000			
iii	80x50 m (1 no.)	Sqm.	4000			
iv	40x25 m (1 no.)	Sqm.	1000			