



Agricultural Development Trust's
Centre of Excellence for Hydroponics at KVK, Baramati
At/Po- Malegaon Khurd, Tal-Baramati,
Dist.-Pune 413115 Maharashtra State,
Phone: (02112) 255527, 255327 Fax-255227



Website: <http://www.kvkbaramati.com>

E-mail: kvkbmt@yahoo.com

Centre of Excellence for Hydroponics, Baramati

Installation, commissioning with hand holding & technical support for Fan & Pad Type Polyhouse (PART-I Tender) & Installation of Hydroponics systems, Vertical Farming, Aeroponics, DWC, Grow Tower (Vertistack) & Grow light System with, Irrigation, automation system for Vegetables Production (PART-II Tender) at CoE for Veg., under the Hydroponics Project. Baramati, Dist. Pune (Innovative Project Under Protected Cultivation)

Tender ID: ADT's/CoEH/ 327/2023

NOTICE INVITING TENDER



Address: Project Incharge

Centre of Excellence for Vegetables & Hydroponics,
Krishi Vigyan Kendra, Baramati &
Agricultural Development Trust
A/p- Malegaon Khurd, Tal - Baramati,
Dist- Pune – 413115, Maharashtra, India



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NOTICE INVITING TENDER

Tenders are invited by the Project In charge, ADTs CoE, for Vegetables & Hydroponics, Krishi Vigyan Kendra, Baramati Dist-Pune (M.S.) from reputed firms/ Companies for installation, commissioning, hand holding and technical support for Erection of Fan & Pad Type Polyhouse (**PART-I Tender**) & Installation of Different types of Hydroponics Systems. Vertical Farming, Aeroponics, DWC, Grow Tower (Vertistack) & Grow light System with Irrigation, automation system (**PART-II Tender**) for Vegetables Production at CoE for Hydroponics., KVK, Baramati, Dist. Pune under Centre for Excellence for Vegetables at ADTs, CoE for Vegetables, Krishi Vigyan Kendra and Baramati Dist-Pune (M.S.) India.

The Center for Excellence for Vegetables is an expression and part of an Indo - Dutch Governmental Action Plan to apply Dutch technology in upgrading Indian performances in horticulture practices. The Center of Excellence on Hydroponics under this Centre is as "showcase" going hand in hand with education and training of staff, growers & Development of PoPs of Vegetables Production.

This is an important lead for qualification of candidate companies or consortia. Further, the Project In charge, ADTs, CoE for Vegetables, Krishi Vigyan Kendra Baramati Dist.-Pune (M.S.) prefers companies or consortia of companies, who are able and willing to bear responsibility for the **Center of Excellence on hydroponics** as a whole including the establishment of structures, training of professionals for successful operations and transfer of the expertise and technology. **The tenderer should separately submit the Technical and financial bids of the both Part- I & Part- II Tender.**

Tenders should be submitted in two bid system (Technical- envelope- I & Financial bid-envelope-II) and shall be accompanied by a bid **security worth 1%** of the project cost separately for Part-I & Part- II Tender. If One Tenderer wish to fill up of the both the tenders at that time, please submit both the tenders separately in two bid systems. **Bid Security worth of 1 %** as demand draft only. Cost of tender fees / form is **Rs.15,000/-** (Nonrefundable) separately for PART- I & PART- II Tenders in the form of Cheque in the name of Project In charge, CoE, KVK, Baramati.

Last date for submission of the tenders is **8.9.2023** at 16.00 Hrs IST. The Technical & Financial bids shall be opened on **11.9.2023** at 11.00 Hrs IST in the presence of desirous tenderer(s). Technical and Financial bid should be submitted strictly as per instructions to tenderers. The financial bid of the technically qualified tenderers will be opened at same day. The sealed bid should be submitted by post or by hand and details can be downloaded from website <http://www.kvkbaramati.com> by the due date and time from 21.8.23, as specified in the 'Critical Dates' view of the 'Work Item details' of the tender. The Date & Time as appearing on the website <http://www.kvkbaramati.com> shall only be considered for the critical date and time of tenders.

Project In charge
CoE, Krishi Vigyan Kendra and
ADT, Baramati Dist-Pune (M.S.)



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Tender No: ADT's/CoEH/327 /2023

Tender Notice

Tender document for Installation, commissioning, hand holding and technical for Fan & Pad Type Polyhouse, Different Hydroponics Systems, Vertical Farming, Aeroponics, DWC, Grow Tower (Vertistack system) & Grow light System with Irrigation, automation system for Vegetables Production at CoE for Hydroponics., Baramati, Dist. Pune

1	Publishing Date	21stAugust 2023 (Monday)
2	Document DownloadStart Date	22ndAugust 2023 (Tuesday)
3	Bid Submission Start Date	23rdAugust 2023 10.00 hrs. (Wednesday)
4	Bid Submission End Date	8th Sept.2023 upto 16.00hrs. (Friday)
5	Date and Timefor opening of Tender.	11th Sept. 2023 at 11.00 hrs. (Monday)
6	Place of Tender opening	In the Office of: Project In charge ADTs-Centre of Excellence for Hydroponics, Krishi Vigyan Kendra, Baramati & Agricultural Development Trust A/p- Malegaon Khurd, Tal - Baramati, Dist- Pune – 413115, Maharashtra, India



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Centre of Excellence for Hydroponics, Baramati

*Installation, Commissioning with hand holding & technical support
for Installation of Hydroponics System (Part- I Tender) &
Hydroponics Systems, Vertical Farming, Aeroponics, DWC, Grow
Tower (Vertistack) & Grow light System with, Irrigation, automation
system (Part- II Tender) for Vegetables Production at CoE for Veg.,
Baramati, Dist. Pune
(Innovative Project Under Protected Cultivation)*

Tender No: ADT's/KVK/CoEH/327/2023

TENDER NOTICE WITH TERMS & CONDITIONS



Address: Project In charge

Centre of Excellence for Vegetables & Hydroponics,
Krishi Vigyan Kendra, Baramati &
Agricultural Development Trust
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Dist.- Pune – 413115, Maharashtra, India



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Instruction to tenderers (based on Indian law and rules)

1.1. General instructions

- 1.1.1. The tenderers are advised in their own interest, to carefully read the instructions and understand their purport and unless the tender specifically states to the contrary in respect of any particular clause, it shall be presumed that all tender conditions have been accepted as laid down in this document.
- 1.1.2. Erasure or alteration in the bid conditions should be avoided. Modification, erasure, or alteration, if any, should bear the signatures of the person signing the bid.
- 1.1.3. In case the specifications of any offered items / machineries/ software/ any other related items deviates from the specifications laid down in the tender form, the tenderers should describe as to in what respect and to what extent the equipment offered by them deviates from the specifications, even though the deviations may be minor. It should be explained how these would be useful for our purpose.
- 1.1.4. The tenderers should enclose with their offers descriptive catalogues, leaflets and engineering drawings supplementing the description and point out any special features/advantages of their equipment quoted and users list of the equipments /machineries supplied by them. All the literature, leaflets, engineering drawings etc. should be in English or accompanied by English translation in case the language is other than English. This should be adhered to strictly to enable objective evaluation of offers.
- 1.1.5. The tenderer must have established similar structures and should take necessary steps to arrange field visit to organization where it had erected similar structure to get firsthand information on functioning of the units erected.**
- 1.1.6. The tenderer shall deposit EMD (bid security) worth 1% of the project cost in the form of demand draft in favor of **Project InchargeCoE for Vegetables, ADTs, KVK, Baramati** or as bank guarantee. The copy of the bank guarantee should be attached with the technical bid and should be submitted to Project In charge, CoE



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forVegetables, Krishi Vigyan Kendra and ADT, Baramati, A/p- Malegaon Khurd, Tal - Baramati, Dist- Pune – 413115 (M.S.) India at the time of submitting the tender.

- 1.1.7. The validity of the bank guarantees should not be less than 365 days for bid security.
- 1.1.8. The bid shall be rejected if not accompanied by bid security.
- 1.1.9 Tenderers shall deposit a tender fee worth Rs. 15,000/- in the form of demand draft or Cheque in favour of Project In charge, CoE for Vegetables, ADT, KVK, Baramati and it's a non-refundable(For Part- I & Part- II Tender fees is separate).
- 1.1.10. All the documents and communications in connection with the bidding shall be made in English.
- 1.1.11. This tender is not transferable.
- 1.1.12. Apart from the erecting and commissioning of the unit as per the specifications laid down the tenderer shall provide handholding support and maintenance of the unit for one year from the date of commencement of production and ensure production of good quality vegetables produce during that period. Shut down and /or preventive maintenance or damage of any material / Instruments / Machineris during that period shall be the responsibility of the tenderer(for Part- I & PART- II Tender).

Also depute one separate technical Person or Agronomist for Technical guidance on line / Offline and for the development of package of practices of all types of Exotic vegetables suitable for all types of hydroponics systems included in this Project. One visit per month for the technical guidance for one year. This condition is specially for PART- II Hydroponics Systems Tender.

- 1.2. Site visit and verification of information. The tenderers are encouraged to submit their respective bids after visiting the projects sites and asserting themselves the site condition, traffic, location surroundings, climate, availability of power and water, and other utilities for the construction, storages etc., (for Part- I & PART- II Tender).



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1.3. Cost of bidding

The tenderer shall be responsible for all the costs associated with the preparation of their bids and their participation in the bidding process.

1.4. Quotation of Prices

1.4.1. Tenderer shall give a final and net price free from all escalations. Request for change in price will under no circumstances be considered after opening of the tender. (For Part- I & PART- II Tender).

1.4.2. The validity of rates quoted will be up to the completion of project. (For Part- I & PART- II Tender).

1.5. All direct and indirect taxes arising in connection with the execution of work shall exclusively be borne by the successful tenderer (for Part- I & PART- II Tender).

1.6. Qualifying Criteria for acceptance of bid

1.6.1. The company should have a turnover of Rs. 2-2.5 crores (Any one year) in the preceding 3 years. Company has to submit turn over documents for last 3 years.

1.6.2. The Company should give assurance about component wise Guaranty and Warranty of all types of material to be supplied under this tender (For Part- I & PART- II Tender- Undertaking should be given by company on company letterhead).

1.6.3. 3-4 years of experience in the production & installation of similar projects (Part- I & part- II Tender).

1.6.4. Preference will be given to company with ISO/ISI certification for green house and accessories and food grade certificate for all the material installation under this all types of hydroponics System (For Part- II Tender).

1.6.5. Preference will be given to company having successfully completed same project or related project for any Agril. OR Govt. Department which is having costing not less than Rs.50.00 lakh during last three financial years (For Part- I Tender).



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- 1.6.6. Tenderer should be empaneled/ Registered Polyhouse / Shade net house erectors under MSHMPB, Pune for Errection of Structure, Installation of different Units & systems included in this Project (Part-I tender).
- 1.6.7. This is the Innovative project and considering the different types of Hydroponics structures. Some of the components in this project there is no guidelines available in MIDH Guidelines and the companies related to establishment of Hydroponics Systems is not empaneled under MSHMPB, Pune. Those Companies or components will be established or purchased (selection of Tenderer) after approval of technical committee formed by MSHMPB, Pune (Part- II Tender).
- 1.6.8. The company, or leading company in case a consortium of companies is responsible for the coordination of all deliveries, the construction and training of staff of Center of Excellence for vegetables & Hydroponics.

1.7. Printed Terms & Conditions of Tendering Contractor.

- 1.7.1. Printed terms & conditions of the bids shall not be considered and the same shall not be binding or become part of the contract unless any of such terms is specifically laid down by the tenderer and accepted by the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati Dist-Pune (M.S.) in writing. Except to the extent stated above, it will be deemed that the printed terms & conditions of the tendering contractors have been rejected by Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati Dist-Pune (M.S.)

1.8. Transfer and subletting

The tenderer shall not sublet, transfer, assign or otherwise part with the contract to any person, contractor or Company directly or indirectly, in full or any part thereof without the previous written permission of the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati Dist-Pune (M.S.)

- 1.9. Appointing a committee for evaluation, monitoring and certification of the constructionwork: MSHMPB, Punehasappointed a committee for the evaluation,



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monitoring and certification of the construction done by the selected contractor through the committee formed by MSHMPB, Pune. The details will be given to the selected contractor in due course.

1.10. Submission of tender

Tendering will be done in two bid system. The tenderers should follow the procedures and formalities while submitting the tender. Separate tender should submit for Part- I & Part- II Tender in two bid systems (With separate 1 % bid security and tender fees).

1.11. Bid due date

1.11.1. The bids should be submitted on or **before 8.9.2023 at 16.00hrs IST** on the bid due date. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati may, in its sole discretion, extend the bid due date by issuing a corrigendum uniformly for all tenderers.

1.12. Contents of the bid

1.12.1. Copy of Bank guarantee in the prescribed format/ DD in favour of Project In charge, CoE for Hydroponics, ADT, KVK, Baramati, Dist-Pune.

1.12.2 Signed copy (all pages) of notice inviting tender, Tender document and technical and financial bids in **two separate covers/ Envelopes** with all attachments (Technical & Financial bid documents).

1.12.3 The opening of the bids and acceptance thereof shall be subsequently in accordance with the conditions of the tender.

1.13. Bid security

1.13.1. The tenderer shall furnish as part of its bid as bid security (Deposit EMD-bid security) worth 1% of the project cost) as referred in the clause no. 1.1.6 and 1.1.7 and herein above in the form of bank guarantee issued by a Nationalized bank (Bank in India having a net worth at least Rs.200-300 crores) in favour of Project In charge, CoE for



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Vegetables, ADT, KVK, Baramati, Dist-Pune (M.S.) in the format in the appendix and having a validity period of not less than 365 days from the bid due date as may be extended by the tenderer from time to time.

- 1.13.2. Bid security can also be in the form of demand draft issued by a Nationalized bank in India drawn in favour of Project In charge, CoE, ADT, KVK, Baramati, payable at Baramati Dist: Pune. Project In charge, CoE, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) will not pay any interest to the bid security deposit.
- 1.13.3. Any bid not accompanied by the bid security shall be rejected by Project Incharge, CoE, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) as non-responsive.
- 1.13.4. The bid security of the unsuccessful tenderers will be returned by Project In charge, CoE, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) without interest as promptly as possible on acceptance of the bid of the selected tenderer or in the event of the bidding process being cancelled.
- 1.13.5. The bid security of the selected tenderer will be returned without interest only after the commissioning of the work. If the bid security is in the form of bank guarantee the **validity should be extended accordingly.**
- 1.13.6. Copy of the Bid security should be enclosed along with technical bid only.
- 1.13.7 The Tender documents viz. **Technical and Financial bid** should be posted or given by hand to Project Incharge, Centre of Excellence for Vegetables, Krishi Vigyan Kendra, Baramati and Agricultural Development Trust, A/p- Malegaon Khurd, Tal-Baramati, Dist-Pune 413115 Maharashtra, India. Phone: (02112) 255527, 255327.



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1.14. Opening and evaluation of the bids:

1.14.1. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) shall open the bids on **11.09.2023 at 11.00hrs IST**, the bid due date in case the date of opening of the tender happens to be a holiday, it will be opened on the next working day at the same time and place. Details of Place will be communicated to tenderer in due course of time.

1.14.2. The tenderers or their authorized Representatives may attend at the time of opening of the tender, if they so desire.

1.14.3. **'Technical Bids'** shall be opened first on **11.9.23 at 11.00hrs IST**.

1.14.4. The 'Financial Bid' of technically qualified bidders shall be opened subsequently. The date of opening of the Financial Bid is **11.9.23**.

1.14.5. The amount and validity of the bid security will be announced. There after the tenderers name, the bid price and such other details as the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) may consider appropriate shall be announced at the time of opening.

1.14.6. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) shall prepare minutes of the bid opening.

1.15. Selection of the tenderer

1.15.1. Project In Charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) will not be bound to accept the lowest tender as per the experience and quality of material the tenderer should be selected.

1.15.2. After selection, a letter of acceptance (LOA) shall be issued in duplicate by Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) to the selected tenderer and the selected tenderer shall within 10 official days of receipt of LOA sign and return the duplicate copy of the LOA.



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1.16. Right to accept and to reject any or all Bids

1.16.1. Notwithstanding anything contained in the tender Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) reserves all the right to accept or reject any Bid and to annul the bidding process and reject all bids at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reason therefore.

1.16.2. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) reserves the right to reject any bid and appropriate the bid security at any time if a material misrepresentation is made or uncovered.

1.17. Agreement:

The successful tenderer shall, within 10 days of signing the LOA, be bound to execute a formal agreement as per the format given in the tender document. The terms & conditions contained in tender document will be construed to be part of the agreement. Any variation in the terms & conditions as suggested by the tenderer and accepted by the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) will be specifically mentioned in the agreement. The cost of stamping for agreement should not be less than Rs.500/- which shall be borne by the successful tenderer.

1.18. Bank Guarantee

The successful tenderer shall furnish bank guarantee for **10% of the agreed contract value issued by any Nationalized Bank** towards execution of the contract at the time of signing aforesaid agreement. This guarantee will have a validity period of 365 days.

1.19. Warranty

The successful tenderer shall warrant that goods to be installed under this contract shall be free from all defects and faults in material, workmanship and manufacture



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and shall be of the highest grade and consistent with the established and generally accepted standards for materials and in full conformity with the contract specifications and drawings or samples, if any, and shall operate properly and satisfactorily for a period of one year from the date of completion of work. The successful tenderer shall, replace or repair the goods or such portion in case of defects or poor workmanship or any malfunction of the unit or any portion thereof.

1.20. Execution of work

- 1.20.1. The Company shall at his expense obtain all necessary permits and licenses required for execution of the work.
- 1.20.2. The Company shall arrange and pay for all personnel, materials, transportation and all other facilities required for the satisfactory execution and completion of the work while electricity will be provided by Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati as per bills on payment basis. The price quoted will be deemed to be inclusive of all such expenses.
- 1.20.3. The Company shall indemnify the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) against all claims, proceedings, damages, costs, charges and expenses arising in connection with damage to property of any person or injury to person or loss of life occurring in the course of execution of the work.
- 1.20.4. All bidders shall enclose a certificate stating that they have no dues with regard to the EPF, ESI or any other statutory payment with regards to their employees and should also furnish the details of last remittance of EPF and ESI of their employees.

1.21. Termination of contract

Project In charge, Centre of Excellence for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) A/p- Malegaon Khurd, Tal-Baramati, Dist-Pune 413115 Maharashtra, India. Phone: (02112) 255527, 255327 will monitor the progress of work from time to time. It is the obligation of the contractor to complete



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the work as per the schedule as in 1.23 by observing the terms and conditions of the agreement. **If Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati notices that the work is not progressing as per the schedule and there are violations of the terms and conditions of the agreement, he has every right to give stop memo and terminate the contract without prior notice.**

1.22. Terms of Payment

1.22.1. All invoices shall be prepared in quadruplicate in favour of Project In charge, CoE for Hydroponics, ADT's, Krishi Vigyan Kendra, Baramati, Dist-Pune (M.S.) and shall be signed by the supplier or his authorized agent.

1.23. **Time limit for commissioning and payment terms shall be as follows.**

Stage	Days from the receipt of LOA	Conditions	Payment details
one	Within 1months	After signing the Agreement and submission of 10% of the contract value (Bank guarantee) & 50% completion of work and certification by committee	40 % of the agreed contract value
Two	2 months to 3 months	100% completion of work	50 % of the agreed contract value
Three	After Six Month & Completion of all work as per tender	Six Month after completion of work and hand holding as in clause no1.1.12	10 % of the agreed contract value
Total			100%

The third portion of 10% can be released on submission of bank guarantee for an equal amount valid for a period of 365 days.

1.24. Capacity building

It is the obligation of the selected firm to provide required training and capacity building programmers to CoE for Hydroponics, Krishi Vigyan Kendra and ADT,



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Baramati, Dist-Pune (M.S.) staff on the operation of the unit till completion of one life cycle of each hydroponics unit.

1.25. Time period for the completion of work

The work shall be executed strictly in 3 months (PART- I Tender) & 2.5 Months (Part- II Tender) from the date of receipt of the LOA

125.1 Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language only.

1.26. Dispute

1.26.1. Final decision in all issues arising in connection with the tender process and execution of work shall be taken by the Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) and the said decision will be binding upon all.

1.26.2. **LD clause** – The successful bidders should complete the work as per the schedule above. Any delay will attract LD of 1 % per month of the contract value subject to maximum of 10% of the contract value.

1.26.3. All disputes relating to the tender process and execution of work shall exclusively be subject to jurisdiction of court in Baramati (Pune).

1.27. General terms and conditions of tendering

1.27.1. All communication regarding the tender including queries if any and submission of offers shall be done through Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) by taking information through the website <http://www.kvkbaramati.com> or www.coekvkbaramati.com

1.27.2. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) shall not be responsible for any delays, reasons whatsoever, in



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receiving as well as submitting offers, and shall not be responsible for any postal or other delays in submitting EMD/Tender cost wherever applicable.

- 1.27.3. Please note that the queries related to tender specifications, terms & conditions is uploaded on website which can be taken by downloading PDF files through website www.kvkbaramati.com& www.krishimaharashtra.gov.in
- 1.27.4. Two cover system
Bidders are required to submit offer in Two covers, name **“Fee/Pre. Qualify/Technical/” & “Financial” for Part-I & Part- II.** Finance cover in the schedule of work (BOQ) only. Please do not quote /mention rates anywhere else in the tender other than BOQ.
- 1.27.5. Bidders shall remit the tender fees along with the submission document in the form of DD or Cheque in favour of Project In charge, CoE, ADT,KVK , Baramati,
- 1.27.6. The Earnest Money Deposit of the unsuccessful tenderer shall be refunded immediately after the acceptance of Work Order by the successful bidders.



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TENDER FORM

To,

Project In charge
Centre of Excellence for Vegetables & Hydroponics
Krishi Vigyan Kendra, Baramati and
Agricultural Development Trust
A/p- Malegaon Khurd, Tal - Baramati,
Dist- Pune – 413115 Maharashtra.

Sub:**Tender No. ADT's/KVK/CoEH/327/2023** for the Installation, Commissioning with hand holding & technical support for Fan & Pad Type Polyhouse (**Part- I Tender**) Hydroponics Systems, Vertical Farming, Aeroponics, DWC, Grow Tower (Verti stack) & Grow light System with, Irrigation, automation system (**Part- II tender**) for Vegetables Production at CoE for Veg., Baramati, Dist. Pune (**Innovative Project Under Protected Cultivation**)

Sir,

- I. I/We _____ have read the tender conditions as issued by Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune and hereby agree to abide by the said instructions, terms and conditions except to the extent specified by me/us in the attached sheet marked 'A'.
- II. **Security deposit details:** Bank Draft No. _____ dated ____ for Rs. _____ (Rupees _____) drawn in the favour of Project In charge, CoE for Hydroponics, ADT, KVK, Baramati, payable at Baramati Dist.: Pune (Bank guarantee details as per the format attached)
- III. Until a formal agreement is prepared and executed, acceptance on this tender shall constitute a binding contract between us subject to modifications as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.



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-
- IV. This tender is being submitted by hand or by post and will be opened and decided at same place and it is agreed that Civil Courts at Baramati, Pune alone will have jurisdiction to deal with any legal proceeding that may arise in connection with this tender or subsequently.
- V. I/We have read and understand that my/our financial bid shall be opened only if bid found qualified based on technical bid.
- VI. I/We have read and understand the specification for the items and the terms and conditions contained in the tender document and agree to which by the same and against which the bids are submitted in the separate covers '**Technical & Financial Bid**' in the tender

Signed by State legal status whether prop./Partner/

Registered Contractor/Company etc.



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Annexure- 1

FORM FOR TECHNICAL BID

To,

Project In charge
Centre of Excellence for Vegetables &Hydroponics,
Krishi Vigyan Kendra, Baramati and
Agricultural Development Trust,
A/p- Malegaon Khurd, Tal - Baramati,
Dist- Pune – 413115, Maharashtra, India

Sir,

1. Profile of our Company is as under:

- + Constitution or legal status of Tenderer
- + Place of registration: _____
- + Principal place of business: _____
- + Power of attorney of signatory of Bid

2. Work performed of a similar nature over the last Three years.

Year	Name & Address of institution	Value (Rs.in lakhs)	Stipulated period of Completion	Actual date of Completion	Remarks explaining reasons for delay if any & work completed

- + Attachself-attested copies of work Orders.

3. Capabilities with respect to personnel, equipment and manufacturing facilities

3.1. Availability of infrastructure of the company.

Name of the Building	Size (Sq. Mtr.)	Type of Structure



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3.2. Availability of Personnel (Technical staff and skilled workers of the company)

Type of Employee	No.	Qualification	Experience

- 3.3. Audited financial reports in English for the last three years, balance sheets, profit and loss statements, auditors' reports (in case of companies) etc. List them below and attach self-attested copies.
- 3.4. Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit etc. List them below and attach self-attested copies of support documents.
- 3.5. Evidence for ISO/ISI certification (PART-I Tender) and food grade certificate of Hydroponics all types of Systems materials (Part- II Tender).
- 3.6. Name, address and telephone (Land line as well as Mobile No.) and fax numbers of the Tenderers' banker who may provide references if contacted by the Project Incharge, CoE for hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.).
- 3.7. Descriptive catalogues, leaflets and engineering drawings supplementing the description and point out any special features/advantages of their equipment quoted and users list of the equipments/machineries supplied by them. All the literature, leaflets engineering drawings etc. should be in English or accompanied by English translation in case the language is other than English. This should be adhered to strictly to enable objective evaluation of offers.
- 3.8. In case the specifications of any offered items / machineries/ software/ any other related items deviates from the specifications, description as to in what respect and to what extent the equipment offered by them deviates from the specifications, even though the



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deviations may be minor may be attached. It should be explained how these would be useful for our purpose.

- 3.9. Detailed technical drawing of work to be attached.
- 3.10. Certificate stating no dues with regard to the EPF, ESI or any other statutory payment with regards to their employees and also should furnish the details of last remittance of EPF and ESI of their employees
- 3.11. Details of office set up for after sales service
- 3.12. Details of Human resource to run the project in the following format

Engineer/ Scientist/Technician	Post	Qualification	Indian/ expatriate

(Signed by Authorized Signatory)



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Annexure 2

AGREEMENT FORM

AGREEMENT NO.....

This agreement is made on thisbetween Project In charge, CoE for Vegetables & Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.)(hereinafter called the Project In charge, CoE for Hydroponics, KVK and ADT, Baramati which expression shall unless excluded by or repugnant to the context, be deemed to include its successors and assigns) of the first part and M/s..... (Hereinafter called the 'contractor" which expression shall include unless excluded by or repugnant to the context, be deemed to its successors and assigns) of the second part.

WHEREAS the Project In charge, CoE for Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.) with the intention of Installation, Installation, Commissioning with hand holding & technical support for Hydroponics, Vertical Farming, Aeroponics, DWC, Grow Tower & Grow light System with, Irrigation, automation system for Vegetables Production (Innovative Project Under Protected Cultivation)under Centre of Excellence for Hydroponics had invited tenders for the execution of the said work.

AND WHEREAS the contractor had submitted their letter of agreement no..... dated.....

AND WHEREAS the Project In charge, CoE for Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.) had accepted the tender submitted by the Contractor and had on 2015 also issued Letter of Acceptance to the Contractor

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. The Contractor shall be paid an amount of Rs./- (Rupees only) by the Project In charge, CoE for Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.) in accordance with the Schedule specified hereinafter.



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2. The Contractor shall complete the work in 3- 5 months from the date of receipt of LOA as mentioned in tender documents.
3. Apart from the erecting and commissioning of the unit as per the specifications laid down the tenderer shall provide handholding support and maintenance of the unit for one year from the date of commencement of production and ensure production of good quality vegetables during that period.
4. It is the obligation of the selected firm to provide required training and capacity building programmers to CoE for Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)staff on the operation of the unit
5. Project In charge, CoE for Hydroponics, Krishi Vigyan Kendra and ADT, Baramati,Dist-Pune (M.S.) will monitor the progress of work from time to time. It is the obligation of the contractor to complete the work as per the schedule below by observing the terms and conditions of the agreement. IfProject In charge, CoE for hydroponics, Krishi Vigyan Kendra and ADT, Baramati,Dist-Pune (M.S.) notice that the work is not progressing as per the schedule and there are violations of the terms and conditions of the agreement, he has every right to give stop memo and terminate the contract without prior notice. This is not prejudice to his any right as per the agreement.
6. Shut down and /or preventive maintenance during that period shall be the responsibility of the tenderer.

7. Time limit for commissioning and payment terms shall be as follows.

Stage	Days from the receipt of LOA	Conditions	Payment details
one	Within 1 months	After signing the Agreement and submission of 10% of the contract value (Bank guarantee)& 50% completion of work and certification by committee	40 % of the agreed contract value
Two	2 months to 3 months	100% completion of work	50 % of the agreedcontractvalu



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			e
Three	After Six Month & Completion of all work as per tender	Six Month after completion of work and hand holding as in clause no1.1.12	10 % of the agreed contract value
Total			100%

8.The third portion of 10% can be released on submission of bank guarantee for an equal amount valid for a period not less than one year.

9. All direct and indirect taxes arising in connection with the execution of work shall be borne exclusively by the Contractor.

10. **LD clause** – The successful bidders should complete the work as per the schedule above. Any delay will attract LD of 1 % per month of the contract value subject to maximum of 10% of the contract value.

11. The conditions and specifications in the Invitation to Bid, the Financial Bid and the Technical Bid will form an integral part of this agreement and the parties will bound to abide by all the conditions and specifications contained therein.

12. This agreement is made in duplicate. The original printed on stamp paper No. will be retained by the Project In charge, CoE, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) while the duplicate printed on stamp paper No..... will be retained by the Contractor.

IN WITNESS WHEREOF, both the parties have here to subscribe their signature on-----
-----the date and year herein above written through authorized representatives.

For and on behalf of the contractor

For and on behalf of the Project Incharge, CoE
for Hydroponics, Krishi Vigyan Kendra and
ADT, Baramati, Dist-Pune (M.S.)

Witness

Witness

1.

2.



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Annexure - 3

Bank Guarantee for Bid Security

(Refer clauses in instruction for Tenderers 1.1.6 and 1.1.7)

B.G. No. Dtd.....

1. In consideration of Project In charge, CoE for Vegetables & Hydroponics, Krishi Vigyan Kendra and ADT, Baramati, Dist-Pune (M.S.) having its office at Baramati (hereinafter referred to as the “ Project Incharge CoE for Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)”, which expression shall unless it be repugnant to the subject or context thereof include its, successors and assigns) having agreed to receive the Bid of(and having its registered office at(hereafter referred to as the “Tenderer” which expression shall unless it be repugnant to the subject or context thereof include its/their executors, administrators, successors and assigns), for Installation, Commissioning with Hand Holding & Technical Support for fan & Pad Type Polyhouse (Part- I Tender) Hydroponics Systems, Vertical Farming, Aeroponics, DWC, Grow Tower & Grow Light System with, Irrigation, Automation System (Part- II tender) for Vegetables Production at CoE for Veg., Baramati, Dist. Pune (hereafter referred to as “the Project”) and other related documents having our registered office at and one of its branches atdo hereby in terms of Clause 1.1.6 read with Clause 1.1.7 of the instruction to tenderers (including the tender Documents) by the said Tenderer undertake to pay forthwith to the Project Incharge, CoE, KVK and ADT, Baramati, Dist-Pune (M.S.) an amount of Rs. (Rupees.....only) as bid security (hereafter referred to as the” Bid Security”) as our primary obligation without any demur, reservation, recourse, contest or protest and without reference to the Tenderer if the Tenderer shall fail to fulfill or comply with all of the terms and conditions contained in the said Bidding Documents.



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2. Any such written demand made by the Project Incharge, CoE for Hydroponics , KVK and ADT, Baramati, Dist-Pune (M.S.)stating the Tenderer is in default of the due and faithful fulfillment and compliance with the terms and conditions contained in the Bidding Documents shall be final, conclusive and binding on the Bank.
3. We the Bank, do hereby unconditionally undertake to pay the amount due and payable under this Guarantee without any demur, reservation, recourse, contest or protest and without any reference to the Tenderer or any other person and irrespective of whether the claim of the Project In charge, CoE for Hydroponics/, KVK and ADT, Baramati, Dist-Pune (M.S.)is disputed by the Tenderer or not merely on the first demand from the tenderer to fulfill and comply with the terms and conditions contained in the Bidding Documents including failure of the said Tenderer to keep its Bid open during the bid validity period as set forth in the said bidding Documents for any reason whatever. Any such demand made on the Bank shall be conclusive as regards amount due and payable by the bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs.(Rupees only).Amount of bank Guarantee is 10 % of total cost of the tender pertaining to PART- I and Part- II Tender & as per eligibility of tenderer.
4. This Guarantee shall be irrevocable and remain in full force for a period of 365 (Three hundred and sixty five days) days from the Bid Due Date inclusive of a claim period of 60 (sixty) days or such extended period as may be mutually agreed between the Project Incharge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.) and the Tenderer, and agreed to by the Bank, and shall continue to be enforceable till all amounts under this Guarantee have been paid.
5. We, the bank, further agree that the Project Incharge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)shall be the sole judge to decide as to whether the Tenderer is in default of due and faithful fulfillment and compliance with the terms and conditions contained in the bidding documents including, inter alia, the failure of the



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Tenderer to keep its bid open during the Bid validity period set forth in the said Bidding Documents, and the decision of the Project Incahrge, CoE on Hydroponics,KVK and ADT, Baramati, Dist-Pune (M.S.)that the Tenderer is in default as ADT's, Krishi Vigyan Kendra, Baramati, Dist-Pune (M.S.)and the Tenderer or any dispute pending before any Court, Tribunal, Arbitrator or any other ADT's, Krishi Vigyan Kendra, Baramati, Dist-Pune (M.S.).

6. The Guarantee shall not be affected by any change in the constitution or winding up of the Tenderer or the Bank or any abstraction, merger or amalgamation of the Tenderer or the Bank with any other person.
7. In order to give full effect to this Guarantee, the Project Incahrge, CoE on Hydroponics,KVK and ADT, Baramati, Dist-Pune (M.S.)shall be entitled to treat the Bank as the principal debtor. The Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee from time to time to vary any of the terms and conditions contained in the said Bidding Documents or to extend time for submission of the Bids or Bid validity period or the period for conveying acceptance of Letter of Award by the Tenderer or the period for fulfillment and compliance with an or any of the terms and conditions contained in the said Bidding Documents by the said Tenderer or to postpone for any time from time to time any of the powers exercisable by it against the said Tenderer and either to enforce or forebear from enforcing of the terms and conditions contained in the said Bidding Documents or the securities available to the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)and the Bank shall not be released from its liability under these presents by any exercise by the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)of the liberty with reference to the matters aforesaid or by reason of time being given to the said Tenderer or any other forbearance, act or omission on the part of the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)or any indulgence by the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati,



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Dist-Pune (M.S.)to the said Tenderer or by any change in the constitution of the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)or its observation, merger or amalgamation with any other person or any other matter or thing whatever which under the law relating to sureties would but for this provision have the effect or releasing the Bank from its such liability.

8. Any notice by way of request, demand or otherwise hereunder shall be sufficiently given or made if addressed to the Bank and sent by courier or by registered mail to the Bank at the address set forth herein.
9. We undertake to make the payment on receipt of your notice of claim on us addressed to (name of Bank along with branch address) and delivered at our above branch that shall be deemed to have been dully authorized to receive the said notice of claim.
10. It shall not be necessary for the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)to proceed the said Tenderer before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank, notwithstanding any other security which the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)may have obtained from the said Tenderer or any other person and which, at the time when proceedings are taken against the Bank hereunder, be outstanding or unrealized.
11. We, the Bank, further undertake not to revoke this Guarantee during its currency except with the previous express consent of the Project Incahrge, CoE on Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.)in writing.
12. The Bank declares that it has power to issue this guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this guarantee for and on behalf of the Bank.
13. For the avoidance of doubt, the Bank's liability under this Guarantee shall be restricted to Rs. crore (Rupees crore) only. The Bank shall be liable to pay the said amount or any part thereof only if the Project Incahrge,



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CoEon Hydroponics, KVK and ADT, Baramati, Dist-Pune (M.S.) serves a written claim on the Bank in accordance with paragraph 9 hereof, on or before (..... (indicate date falling 365 days after the Bid Due Date)) and delivered by Bank.

By the hand of Mr./ Ms, its and authorized official.

Signature of the Authorized Signatory

(Official seal)



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CHECK LIST

Name of the Company:

Sr.No.	Items	Yes/ No
1	Profile of the Company	
2	Work performed of a similar nature over the last Three years	
3	Capabilities with respect to personnel, equipment and manufacturing facilities	
4	Audited financial reports for the last three years, balance sheets, profit and loss statements, auditors' reports (in case of companies)	
5	Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit etc	
6	Evidence for ISO/ISI certification (PART- I Tender)& Hydroponics System Food Grade Certification (Part- II tender)	
7	Name, address and telephone (Land line as well as Mobile No.) and fax numbers of the Tenderers' banker who may provide references if contacted by the Council.	
8	Descriptive catalogues, leaflets and engineering drawings supplementing the description and point out any special features/advantages of their equipment quoted and users list of the equipments/machineries supplied.	
9	Details of deviation if any	
10	Certificate stating no dues with regard to the EPF, ESI or any other statutory payment with regards to their employees and also should furnish the details of last remittance of EPF and ESI of their employees	
11	Details of office set up for after sales service	
12	Details of Human resource to run the project in the format attached	
13	Detailed technical drawings of the work to be enclosed by tenderer.	
14	Signed copy of tender document (signed in all pages) along with copy of Bid security /DD-(original posted to Chairman, Centre of Excellence for Vegetables, Krishi Vigyan Kendra, Baramati & Agricultural Development Trust, A/p- Malegaon Khurd, Tal – Baramati, Dist.- Pune – 413115, Maharashtra, India)	
15	Signed copy of notice inviting tender	
16	Financial bid entered in BOQ	

SIGNATURE OF THE TENDERER



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DETAILED TECHNICAL SPECIFICATION

Centre of Excellence for Hydroponics, Baramati

*Installation, Commissioning with Hand Holding & Technical Support for
Construction of Fan & Pad Type Polyhouse at CoE for Hydroponics., Baramati,
Dist. Pune*

Tender No: ADT's/CoEH/327/2023

Part – ITender Technical Specifications with Drawing



Address: **Project Incharge**
Centre of Excellence for Hydroponics,
Krishi Vigyan Kendra, Baramati &
Agricultural Development Trust
A/p- Malegaon Khurd, Tal - Baramati,
Dist.- Pune – 413115, Maharashtra, India



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Tender Document for the Construction of Fan & Pad type Polyhouse



INVITATION FOR BIDS




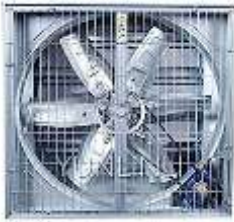

TENDER NO.: ADT's/CoEH/327/2023






DATE: __/__/2023




PART - I

Installation, Commissioning with Hand Holding & Technical Support for Construction of Fan & Pad Type Polyhouse at CoE for Hydroponics., Baramati, Dist. Pune

Sr.No	Items	Specifications	Photos	Qty	Unit														
01.	Type of Greenhouse	Hi-Tech Polyhouse with Fan and Pad Cooling System		1	No														
02.	Grid	8m X 4m with Hockey/Balcony on side sat 2m																	
03.	Size	Structure Width 36m Structure Length 28m Total Area:1008 SQM.																	
04.	Area	1008 Sqm.																	
05.	Unit	1 No Detailed drawing of system is Need to be provided along with tender documents.																	
06.	Structure	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Gutter Height:</td> <td>min. 3.0Mtr, Top Height - 4.5 Mtr</td> </tr> <tr> <td>Columns:</td> <td>76 mm O. D X 2.0mm Thick G.I. Pipes</td> </tr> <tr> <td>Trusses:</td> <td>Bottoms-60mmO.D. X 2.0 mm thick. G. I. Pipe. Top Chords & Truss members 42 mm O.D. X 2.0 mm thick. G. I. Pipe. Bracings 33mmO.D. X 2.0mmthk. G.I. Pipe. Structural members to be fitted in plated nuts Bolts, washers without welding.</td> </tr> <tr> <td>Purlins:</td> <td>42 mm O.D. X 2.0mm thick. G.I. Pipes.</td> </tr> <tr> <td>Tie Bars:</td> <td>33 mm O.D. X 2.0 mm thick. G.I. Pipes.</td> </tr> <tr> <td>Cross Members:</td> <td>42 mm O.D. X 2.0mm thick. G.I. Pipes.</td> </tr> <tr> <td>Gutter:</td> <td>1.0 mm thick X 500 mm, leakage proof</td> </tr> </table>	Gutter Height:	min. 3.0Mtr, Top Height - 4.5 Mtr	Columns:	76 mm O. D X 2.0mm Thick G.I. Pipes	Trusses:	Bottoms-60mmO.D. X 2.0 mm thick. G. I. Pipe. Top Chords & Truss members 42 mm O.D. X 2.0 mm thick. G. I. Pipe. Bracings 33mmO.D. X 2.0mmthk. G.I. Pipe. Structural members to be fitted in plated nuts Bolts, washers without welding.	Purlins:	42 mm O.D. X 2.0mm thick. G.I. Pipes.	Tie Bars:	33 mm O.D. X 2.0 mm thick. G.I. Pipes.	Cross Members:	42 mm O.D. X 2.0mm thick. G.I. Pipes.	Gutter:	1.0 mm thick X 500 mm, leakage proof			
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07.	Cladding Material	High quality UV stabilized LLDPE Sheet 200 micron thick with diffused, Antidust, Antidrip & IR properties. (IS-15827:2019)			
08.	Locking profile	Aluminium Locking Profile to fix Polyfilm sheet at roof, side walls at Gables and sides with zigzag spring.			
09.	Thermal Net	Shading mechanism UV Stabilized Thermal Net 50% (Silver Colour) inside Greenhouse with manual collapsible arrangement.			
10.	Exhaust Fan	Box type fans Size – 1380 x 1380 mm Shutters hutters with counter weight auto opening & close systems Blades - 6No , Stainless Steel Blades with aerodynamics hape G.I. Body, G.I. Frame CFM – 20000 @ 0 SP		6	Nos
11.	Cooling Pad	It consists of cellulose cooling pad of size – Length – 32 m, height 4.0 ft and 0.1 m thick size, along with water circulation systems including Galvanized / Aluminium, Water Collecting Gutter, and profiles to fix pads. Evaporative Cooling System (ECS) with following parameters. Specifications: 1. Size: 600 mm X 1300 mm X 100 mm. 2. Colour: Green/Brown. 3. Aluminium alloy or GI profile with complete accessories, to hold the Pad at sides, top & bottom. 4. Cooling Pad is made of specially impregnated cellulose and treated to provide efficient cooling. 5. Paper ambient condition 25 ⁰ C – 45 ⁰ C 6. Ecofriendly. 7. High saturation efficiency, 8. No setting or Shrinkage of Cooling Pad. 9. Insect Net 40 mesh should provide on cooling pad from outside.		32	Mtr

12.	Water re-circulation System	Water Distribution System for Cooling pad comprises of all AL frame, gutter & cover, PVC pipe for water distribution on cooling pad so as to wet the pad completely.		32	mtr
13.	Air Circulation Fan	1. Air circulation fan frame of high – quality stainless steel by appearance. (Power 120 Watt.) 2. Firmly fixed, stable operation, no swing when start. 3. Fan blades are all According to the high temperature and humidity in greenhouse individually customize high quality, to ensure Excellent performance.		08	No's
14.	Weed Mat	Weed mat should cover the area of Greenhouse. Entire area should properly level before laying weed mat. Total Area: 1008 SQM.		1008	SQM
15.	Door with Buffer Room	Entrance Room of size min. 2m X 2m with Double Door; sliding type two doors of size 1m X2m (each) made of PC sheets mounted in suitable strong frame.		2	No's
16.	Electrical cable	Electrical cables for Fan Motors and Cooling Pad Pump from panel (Panel should place at maximum 10ft from Greenhouse) Capacity as per requirement.			
17.	High Pressure Fogging System	Pump – 18 LPM, 3 plunger type, pressure 100 bar, Make: Italy or equivalent. Motor – 5 HP, 3 - HP, Indian make. Nozzle - 0.30mm orifice, anti-drip & built-in filter, Nickel plating brass body with SS internal. Filter - L:18", single with cartridge. Tube - Flexible nylon black tube, 3/8" dia. HOLDERS - Nickel plating brass, double ferrule, compression type. Manifold - Brass body, Nickel plating.		1	Set

		End Plug- Brass body, Nickel plating.			
18.	Water tank	Water Tank of capacity 2000 Lit X 1 no for Fogging system (civil & underground), with all necessary Fitting/ connections like tank nipple, tab, valve, union, pipe etc.		1	Set
19.	Foundation	Telescopic Construction of Foundation for Polyhouse of size 0.40 m X 0.40 m X 0.90 m with PCC ratio 1:2:4 suitably altered depending upon ground strata / level so as to ensure safety and Stability of the structure even under extreme wind conditions. Columns are fitted overground.			
20.	Brick Wall	Construction of brick wall in CM 1:4, 0.30m thick, 0.90 m height above ground and for cooling pad side and fan side, duly plastered on both side with Cement mortar ratio 1:6.			
21.	Other Civil Work	Foundation for Pumps used for filtration / Fogging system.	