

INVITATION FOR QUOTATIONS FOR CONSTRUCTION OF
CIVIL WORKS UNDER NATIONAL SHOPPING PROCEDURES

To

Subject : **Invitation for quotations for fabrication of protected structures at the Center for Protected Cultivation Technology.**

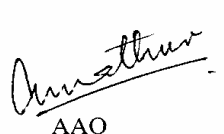
Dear Sirs,

1. You are invited to submit your most competitive quotation for the following works:-

Brief Description of the Works	Specification Enclosed	Period of Completion
Fabrication of semi-climate controlled greenhouse (1000m ²)	Annexure -1	Within one months from the receipt of final work order

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ _____ towards the cost of the National Agricultural Innovation Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. To assist you in the preparation of your quotation, we are enclosing the following:
 - i. Detailed Bill of Quantities, with estimated rates and prices;

- ii. Technical Specifications;
 - iii. Instructions to Bidders (in two sections).
 - iv. Draft Contract Agreement format which will be used for finalizing the agreement for this Contract.
5. You are requested to provide your offer latest by **11.00 hrs.** on **02.03.2010**
 6. Quotations will be opened in the presence of Bidders or their representatives who choose to attend at **11.30** AM on **02.03.2010** in the office of the undersigned.
 7. We look forward to receiving your quotations and thank you for your interest in this project.


AAO

Canter for Protected Cultivation

सहायक प्रशासनिक अधिकारी
Asst. Admin. Officer
I.A.R.I. New Delhi

प.क.उ. संस्थाप / I.A.R.I.,
Telephone no.: - 2584 2481 / New Delhi - 110012

C/11-2584 2481/.....

Instructions to Bidders

SECTION - A

1. **Scope of Works :** The AAO,CPCT invites quotations for the construction of works as detailed in Annexure 1

Brief Description of the Works	Approximate value of Works (Lakh Rs.)	Period of Completion
Fabrication of semi-climate controlled greenhouse (1000m ²)	Annexure -1	Within one months from the receipt of final work order

The successful bidder will be expected to complete the works by the intended completion date specified above.

2. **Qualification of the bidder:** The bidder shall provide qualification information which shall include
- (a) Total monetary value of construction works performed for each year of the last 2 years:
 - (b) Income tax clearance certificate from the concerned IT circle;
 - (c) Report on his financial standing; and
 - (d) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case.
 - (e) Vendor Evaluation would be done based on the following criteria:
 - (i) Vendors must supply a list of users of their structures along with contact details. The technical committee has the right to visit the existing facility before taking a final decision.

- (f) The technical offer must also to include the details of make and model of the components intended to be supplied/incorporated into the structure.

3. To qualify for award of the contract the bidder:-

- (a) should have satisfactorily completed as a prime contractor at least one similar work of equivalent or more value in the last three years;
- (b) should possess valid electrical license for executing electrification works (in the event of the works being sub - contracted, the sub-contractor should have the necessary license);
- (c) should possess required valid license for executing the water supply/sanitary works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

4. Bid Price

- a) The contract shall be for the whole works as described in the Bill of quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) The rates should be quoted in Indian Rupees only.

5. Submission of Quotations

5.1 The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation.

5.2 Each bidder shall submit only one quotation.

5.3 The quotation submitted by the bidder shall comprise the following :-

- (a) Quotation in the format given in Section **B**.

- (b) Signed Bill of Quantities; and
- (c) Qualification information form given in Section B duly completed.

5.4 The bidder shall seal the quotation in an envelope addressed to the **AAO, Center for Protected Cultivation Technology, Indian Agricultural Research Institute, Pusa Campus, New Delhi – 110 012.** The envelope will also bear the following identification failing which the quotations will not be considered :-

- Quotation for “_____” (as mentioned in the brief description of works).
- Do not open before **11.30 A.M. on 02.03.2010.**

5.5 Quotations must be received in the office of the **AAO,CPCT** not later than the time and date given in the letter of invitation. If the specified date is declared a holiday, quotations shall be received upto the appointed time on the next working day.

5.6 Any quotation received by the **CPCT** after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

6. Validity of Quotation : Quotation shall remain valid for a period not less than 60 days after the deadline date specified for submission.

7. Opening of Quotations : Quotations will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in the letter of invitation.

8. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

9. Evaluation of Quotations

The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) meet the qualification criteria specified in clause 3 above;
- (b) are properly signed ; and
- (c) conform to the terms and conditions, specifications and drawings without material deviations.

10. Award of contract : The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

10.1 Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

10.2 The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.

11. Performance Security : Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the AAO,CPCT the performance security (either a bank guarantee or a bank draft in favour of Director, IARI) for an amount equivalent of 3% of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12.

12. Period of Maintenance: The “Period of Maintenance” for the work is twelve months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

13. Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

14. Each bidder has to give bifurcation of the total cost involved on various items of green house fabrication work in tabulation form

15. Bifurcation of the total cost item wise is mandatory to be submitted on separate sheet is mandatory with the quotation otherwise quotation will not be considered.

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SECTION - B

- 1. Format for Qualification Information.**
- 2. Format for Submission of Quotation.**
- 3. Format of Letter of Acceptance.**

QUALIFICATION INFORMATION

1 For Individual Bidders

1.1 Principal place of business:

Power of attorney of signatory of Quotation.

[Attach copy]

1.2 Total value of Civil Engineering

construction work performed in the last 2008 _____

two years (in Rs. Lakhs) 2009 _____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of Employer	Description of work	Contract No.	Value of contract (Rs.Lakhs)	Date of issue of work order	Stipulated period of completion	Actual date of completion	Remarks explaining reasons for delay and work completed

Existing commitments and on-going works:

Description n of Work	Place & State	Contract No. & Date	Value of Contract (Rs. Lakh)	Stipulated period of completi on	Value of works* remaining to be completed (Rs. Lakhs)	Anticipated date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* Enclose a certificate from Engineer concerned.

1.4 Proposed subcontracts and firms involved.

Sections of the works	Value of Sub- contract	Sub-contractor (name & address)	Experience in similar work

1.5 Evidence of access to financial resources to meet the requirements of working capital: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.6 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.7 Information on litigation history in which the Bidder is involved.

Other party(ies)	Employer	Cause of dispute	Amount involved	Remarks showing present status

QUOTATION

To:

Subject : Construction of

Reference : Letter No _____ dated _____ from -

Sir,

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith at _____ percentage above / below the estimated rates, i.e., for a total Contract Price of -

Rs.** _____ [in figures]

Rs. _____ [in words].

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

Yours faithfully,

Authorized Signature

:

Date:

Name & Title of Signatory

:

Name of Bidder

:

Address

:

* To be filled in by the Employer before issue of the Letter of Invitation.

** To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK

(LETTERHEAD OF THE EMPLOYER)

Dated: _____

To : _____ [Name and address of the Contractor]

Dear Sirs,

This is to notify you that your Quotation dated _____ for execution of the _____ for the contract price of Rupees _____ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. _____ (equivalent to 3% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of(Employer) shall be valid till the expiry of the period of maintenance i.e. upto _____. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than _____ under the instructions of the Engineer, _____ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

Authorized Signature

Name and title of Signatory

Draft Agreement form for Construction through National Shopping

ARTICLES OF AGREEMENT

This deed of agreement is made in the form of agreement on _____ day _____ month _____ 200_, between the _____ (Employer) or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____ (hereinafter referred to as the second party), to execute the work of construction of _____ (hereinafter referred to as works) on the following terms and conditions.

2. **Cost of the Contract :** The total cost of the works (hereinafter referred to as the “total cost”) is Rs. _____ as reflected in Annexure - 1.
- 3 **Payments under its contract :** Payments to the second party for the construction work will be released by the first party within 15 days from the issue of the completion certificate :-
4. **Notice by Contractor to Engineer :** The second party, on the completion of the issue a notice to the first party or the Engineer nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payments due to the contractor, issuing and valuing variations to the contract, awarding extensions of time etc.), to visit the site for certification of completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of completion certificate after due verification.
5. **Completion time:** The works should be completed in **30** days from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.
6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- a) The first party does not give access to the site or a part thereof by the agreed period.
 - b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.
 - c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.
 - d) Payments due to the second party are delayed without reason.
 - e) Certification for stage completion of the work is delayed unreasonably.
7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ Rs. * _____ per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 2% of the contract amount.

(Note : The amount of liquidated damages per day should be determined at 0.05 % of the contract value of the works and indicated here).

8. Duties and responsibilities of the first party

- 8.1** The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.
- 8.2** The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.
- 8.3** Possession of the site will be handed over to the second party within 10 days of signing of the agreement.
- 8.4** The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will

submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

8.5 The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.

9. Duties and responsibilities of the second party

9.1 The second party shall :

- a) take up the works and arrange for its completion within the time period stipulated in clause 5;
- b) employ suitable skilled persons to carry out the works ;
- c) regularly supervise and monitor the progress of work ;
- d) abide by the technical suggestions / direction of supervisory personnel including engineers etc. regarding building construction ;
- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification ;
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation ;
- g) keep the first party informed about the progress of work ;
- h) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party ; and
- i) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.
- j) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).

10. Variations / Extra Items: The works shall be carried out by the second party in accordance with the approved drawings and specifications. However, if, on account of site conditions or any other factors, variations are considered necessary, the following procedure shall be followed:-

- a) The second party shall provide the Engineer with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.
- b) If the quotation given by the second party is unreasonable, the Engineer may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs which could have been avoided by giving early warning.

11. Securities : The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

12. Termination

12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

12.2 Fundamental breaches of Contract include, but shall not be limited to the following:

- (a) the contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;
- (b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (d) the Contractor does not maintain a security which is required;

12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments if any received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.

13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received if any up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

14. Dispute settlement : If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Superintending Engineer, PWD to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

Specifications of Semi-Climate controlled Greenhouse (1000m²)

Sl. No.	Item	Description/specification
1.	Area of greenhouse	1000 sq. m. (depending on the design & size of bays). Preferable size of bay = 8m x 4 m. The width of greenhouse should not exceed 28m.
2.	Structure	Galvanized steel tubular structure or equivalent sections. Galvanizing of 50 microns or higher would be preferred. Saw-tooth design suitable for natural ventilation.
3.	Gutter height	4- 4.5 meters
4.	Gutter slope	2 % to be provided in civil foundation/structure work.
5.	Apron height	50 cm high polyethylene on all the four sides with proper fixing arrangements.
6.	Curtains and insect screen	Roll-up plastic curtains, openable up to 3 m on all the four sides with crank mechanism. 50 mesh nylon insect-screen (UV stabilized) to be fixed inside the curtain on all sides. Sample of insect-screen must be enclosed with quotation. Anti-flapping strips to be used to ensure smooth functioning of the curtains.
7.	Ridge height	6.5-7.0 meters
8.	Ridge vent/Top ventilation	1.40 m opening; fixed with 50 mesh UV stabilized insect screen .
9.	Columns: Main Intermediate:	Closed rectangular profile, 90x50x1.8mm thk, L=4m. Pre Galvanized @275 gm/Sq.M Closed rectangular profile, 90x50x1.8mm thk, L=4m.Pre Galvanized @275 gm/Sq.M
10.	Trusses	Bottom & top cord-60 mm OD x 2-3 mm thickness; Truss members 48 mm OD x 2-3 mm thickness. Braces-25 NB of class "A" GI pipe. Structural members should be joined with fasteners. Welding to be totally avoided . Alternate

		sections other than GI pipes may be considered.
11.	Purlins modulus	Closed rectangular profile, 60x40x1.8mm thk.Pre Galvanized @275 gm/Sq.M
12.	Gutter	Hot deep Galvanized steel sheeting 400 mm long, 1.8 mm thick. Gutter should be rested on columns. The water volume capacity should be 29 lit/mtr
13.	Fasteners	All nuts & bolts should be of high tensile strength & galvanized.
14.	Civil Foundation	Telescopic insertion. Depth of digging: 1.5 m, Concrete type: B300
	Foundation	``LEAP" profile, 80x40x1200x3mm thk,hot deep galvanized
15.	Cladding	UV stabilized, polyethylene film of 180-200
	i) Plastic film	micron thickness, multilayered, anti drip, anti dust, clear and minimum level of light transmittance of 85%.
		5 Layer co extruded - UVA 200 AD + AV,
	ii) Fixing of plastic film	All ends/ joints of plastic film should be fixed in aluminum box type profile with suitable locking arrangement. Wooden batons or PVC grippers <u>must not</u> be used.
		In order to enhance the life of plastic film, an appropriate cushioning patch, with thermal insulation property, should be provided at the contact surfaces with GI structural members.
16.	Gables	To be fixed with two-way aluminum polylocks for locking two polysheets together along with curtain top.
17.	Door	2 sliding doors 2.2m x 2.0m
18.	Entrance room	One entrance room of size 4 m X 3 m X 3 m ht. All three sides to be covered with UV stabilized plastic sheet. Sliding door of adequate size for the above to be

		provided , which should have smooth movement.
19.	Shade net	UV stabilized 50% shading net with manually operated expanding & retracting mechanism. The size of net should be equal to the floor area of the greenhouse.
20.	Side Ventilation	3.0m high with 50 mesh insect proof netting, MOTORIZED operated curtains at all sides with 60 cm Palrig skirt all around
21	Foggers	Four way, anti-leak, inverted installation, operating pressure 2.5-4.0 bar, discharge 14-28 lph, single fogger per square meter for propagation and single fogger per 5 sqm for cooling
22.	Load Calculation:	Vertical load: 10 kg/m ²
23.	Air Circulators	Impellor dia- 420 mm RPM : 1400 ,Air Capacity: 5050 m3/h Throw : 47 m Power : 230 watt

- Note :**
1. The greenhouse structural design should be sound enough to withstand wind speed of 150 kmph. The firm should highlight design features and list of clients where it has installed such greenhouses.
 2. The firm should guarantee free maintenance for one year after completion of the structure.