

Bihar Horticulture Development Society Patna (State Horticulture Mission)

**Barrack No-13, Main secretariat, Patna-800015
Phone& Fax 0612-2215215, E mail: dir-bhds-bih@nic.in**

Expression of Interest for empanelment for construction of Green House and Shade Net House facilities in the State of Bihar.

The Bihar Horticulture Development Society (BHDS), Patna, Bihar invites expression of Interest for empanelment for construction of green house and shade net house for hi-tech vegetable and flower cultivation along with micro irrigation and related infrastructural facilities at the farmer's fields or Departmental Nurseries from reputed Manufacturers/firms/authorised dealers of companies under National Horticulture Mission during 2012-13.

Quotation forms including terms and conditions, specifications and quantity can be obtained from the State Horticulture Mission, Patna on all working days (Monday to Friday) between 11.00 hours to 16.00 hours by payment of a demand draft of 500.00 drawn in favour of Bihar Horticulture Development Society, Patna. It may also be downloaded from the website www.horticulture.bih.nic.in. In case of a downloaded form DD of 500.00 to be attached with the form.

The firms who are already empanelled for construction of Green House and Shade Net House in 2011-12 are required to submit only the following documents & undertakings for continuation of their empanelment in 2012-13.

- a. I/We provide Installation of Green House/Shadnet as per NHM unit cost norms.
- b. Affidavit for agronomic practices, after sale service, system maintenance, on Rs. 100/- Non Judicial Stamp paper as per new terms and conditions mentioned in EOI.
- c. Empanelment fee of Rs. 10,000/-.

Applications for Empanelment in envelope duly super-scribed "Application for Empanelment for construction of green house etc. under NHM" addressed to the Mission Director, Bihar Horticulture Development Society, Patna should be submitted in State Horticulture Mission, Barrack No. 13, Old Secretariat, Patna.

The last date for submission of the completed bid will be on or before 15.00 hrs. on 6th August 2012 and the bid will be opened on the same day at 15.30 hrs in presence of the bidders or their authorized representatives who choose to attend.

Bihar Horticulture Development Society, Patna reserves the right to cancel the bid without assigning any reasons.

Mission Director

Empanelment for construction of Green Houses, Net House and Garden tools and equipments :-

Components for empanelment :

- A) Poly Houses**
- B) Shade Net Houses**
- C) Horticulture Mechanization**

General terms & conditions for empanelment :-

- a) The firm/company should have at least one year experience in the field of each and all components as per their application for empanelment.
- b) The firm should have its own manufacturing unit, plant and machinery etc and authorized dealer should have authorization of construction firm/manufacturer provided list of machineries existing.
- c) The annual turnover of the firm must not be less than 50.00 lacks for the last year.
- d) The applicant should submit annual empanelment fee of ₹ 10000/- (Ten thousand) in the form of demand draft payable to Mission Director, Bihar Horticulture Development Society, Patna. The annual empanelment fee is non refundable.
- e) The firm can apply for each component separately if they wish to and enclose empanelment fee separately for each component.
- f) The firm should furnish a copy of sales tax registration, TIN and VAT number.
- g) Each firm will have its own pricing system however the applicant would submit the same to the BHDS at the time of empanelment and as and when the manufacturers revises their prices annually. they should submit the same at earliest to BHDS.
- h) Each firm may submit copy of five work order by department/district officer separately which clearly indicate firm name and volume of work design and pattern of work for poly houses and shade net houses separately. In case of horticulture mechanization. They have to submit their items list and MRP prices indicated clearly in a separate sheet.
- i) Manufacturing unit/authorized dealer point may be inspected before approval as and when mission director, BHDS feel necessary to ensure the performance and quality of the product.
- j) In the event of any complaint regarding after sales service in supply of defective/sub standard material is received, the empanelled firm shall have to verify the defects within a period of 15 days.
- k) The BHDS is free to evolve strong punitive measure against erring companies to safeguard the interests of farmers in order to ensure proper utilization of public funds.
- l) Mission Director, BHDS, Patna reserves the right to reject/cancel the empanelment of the offers of firm at any time if he/she is satisfied that it is desirable to do so in farmers interest after giving an opportunity of hearing such an applicant. The decision of Mission director, BHDS, Patna shall be final and binding.
- m) A tri party agreement would be made mandatory for functional working of Green house/Shade net house between concerned Horticulture Development officer of the district, farmer/Applicant and firm.
- n) The Rates & assistance of components are as per NHM cost pattern. Payment should be made after successful completion of work and subject to verification by the officer designated for this work.

Specification details.

A) Poly Houses

i) Height

- Upto 250 sqm. – 3.5 to 4.5 m.
- Large size – 5.5 to 6.5 m.

ii) Technical measures for 500 m² and above Natural ventilated poly houses.

- Bay size – 8m x 4 m, width of Poly house should be at least 35% of the desired length.
- Ridge height – 5.5 m to 6.5 m
- Ridge vent – 80 – 90 cm. opening fixed with 40 mesh nylon insect screen.
- Gutter height – 4 m to 4.5 m
- Gutter slope – 2%
- Gutter material – 20 gauge or 1 mm thick GI sheet with perimeter of 500 mm or more perfectly of single length without joint.
- Structure design – To withstand high wind speed minimum 150 k.m./hr. and minimum load of 25 kg/m³. There should be provision of opening one side for the entry of small tractor.
- Structure – made up to G.I. sheet tubular pipes or equivalent section configuring Indian stands having wall thickness of 2 mm joined with fastner properly.
- Columns – 76 mm OD, 2 mm thick.
- Trusses - bottom & top cord 60 mm OD, 2 mm thickness.
- Trusses member – 48 mm OD, 2 mm thickness.
- Purlin – 42 mm OD, 2 mm thickness.
- Purlin member & others – 33/25 mm OD, 2 mm thickness.
- Foundation – Insert G.I. pipes of minimum 60 OD or more to have foundation depth of 75 cm or more depending upon soil type and prevailing wind condition, grouted with cement concrete mixture of 1:2:4 using telescopic insertion of column.
- Fasteners – All nuts & bolts should be high tensile strength and galvanized.
- Entrance Room and door 2m x 2m.
- Cladding material : - 200 Micron U.V. stabilized transparent plastic sheet films confirming BIS standard multilayer, anti drip, anti fog, anti dust, anti sulfur, 85 % level of light transmittance.
- Fixing of cladding material :-All ends/joints of plastic films need to be fixed with two way aluminum profile with suitable locking arrangement along with curtain top.
- Spring Insert – Zigzag high carbon spring action wire of 2-3 mm diameter.
- Curtain and Insect Screen – Roll up U.V. stabilized 200 micron transparent plastic film as curtain need to be provided up to 3 m height on all sides having automatic type. 40 mesh nylon insect proof nets (UV stabilized) of equivalent size need to be fixed inside the curtain.
- Shade net :- UV stabilized 50% shading net with motor/manually operated mechanism for expanding and retracting size of net should be equal to the floor area of green house.

B) Shade Net House

a) Height – 4 m.

b) Main parts :

S.No.	Pipe Description	Pipe OD in mm	Thickness in mm	Length of pipe in mm
1	Main column	60	2	4000
2	Straight corridor	60	2	5000
3	Bend corridor	60	2	5000
4	Foundation stub	48	2	1200
5	End purlin	43	2	4000
6	Middle purlin	33	2	4000
7	Horizontal member	43	2	1200
8	knee bracing	27	2	1200
9	Ladder 8 m	Fabricated		8000
10	Ladder 4 m	Fabricated		8000

c) Other parts :

S.No.	Pipe Description	Specifications
1	Profile	C shaped aluminium profile with min weight 200g
2	Fixtures	
3	Flat patti	Cold galvanized (electroplated)
4	60 OD full clamp	GI coil width 45 mm thickness 2 mm
5	60 OD half clamp	GI coil width 45 mm thickness 2 mm
6	33 ID half clamp	GI coil width 45 mm thickness 1.6 mm
7	25 ID full clamp	GI coil width 45 mm thickness 1.6 mm
8	Self tapping screw	
9	Spring Insert	High carbon steel wire, 2.3 mm dia
10	M 10 x 80	Cold galvanized (electroplated)
11	M 10 x 40	Cold galvanized (electroplated)
12	M 10 Nut	Cold galvanized (electroplated)
13	M 10 Washer	
14	M 6 x 50	Cold galvanized (electroplated)
15	M 6 Nut	Cold galvanized (electroplated)
16	M 6 Washer	
17	Door assemble	1m x 2m

d) **Shade Net** – 50 % of the side
 - 35 % fixed on top
 - 50 % movable on top from centre
 Colour – Green or White

C) Specification for Mechanization and tools for Horticulture mechanization :

- i) The firm/manufacturer/authorized dealer should meet the specification of products as per Indian/International standard.
- ii) The firm/manufacturer should provide the maintenance up to one year from the date of sale.
- iii) Item wise details are given below for the individual machines & tools which is to be supplied by the firm/manufacturer/dealer on demand of the authority.
- iv) Details of manufacturer make/model name should be provided by the manufacture/firm/dealer in a separate sheet with market price.

a) Power machines with accessories /equipment.

- Upto 20 BHP Power
- for cultivation/rotavator/tillering/seedling transplanter/Pneumatic planter machines / Tractor mounted sprayer/mulch laying machines/Vegetable washer, Root/tuber crop planter etc.

b) Power machines with accessories/equipments.

- Power 20 BHP & above
- Tractor mounted cultivator/Rotavator/Tractor mounted sprayer/Root/tuber crop digger/harvester Seed cum fertilizer drill clump remover pit/hole digger boom/power sprayer Hydraulic pickling platform Root/tuber crop planter.

c) Mist blower cum duster specification.

- Petrol driven
- Tank capacity – 1400 lt.
- Horizontal range – 14.5 m
- sound press level – 97.0 (db)
- Vibration level – 1.9 mt./s sq.
- Displacement – 63.3 cubic centimeter.

d) Pole pruner – Specification

Power output – 0.95/1.3 K.W/HP
Displacement – 25.4 cc
Sound press level – 98.00 db (A)
Guide Bar – 303/8 cm
Weight – less than 8 kg.

e) Brush cutter :- Specification

Displacement – 40.2 cubic cm.
Power output – 1.6/2.2 kw/HP
Vibration level left/Right – 5.9/3.0
Length - < 180 cm
Weight - < 8 kg.

f) Chain Saw :- Specification

Petrol driven
Displacement – 30.1 cc
wt. – 3.1 kg.
Power output – 1.8 HP
Bar length – 30 cm.

g) Hedge trimmers :- Specification

Petrol driven
up to 3000 strokes/moments
Bar length – 60 cm
Power output – 0.75/1.0 kw/HP
Total length – 110 cm

h) Earth Augurs :- Specification

Petrol driven
Power output – 1.8 HP
Bar length – 30 cm

Payment : Shall be made after successful completion of the work and subject to verification by the officer designated for this work.