



पूर्वी क्षेत्र के लिए भारतीय कृषि अनुसंधान परिषद का अनुसंधान परिसर

ICAR RESEARCH COMPLEX FOR EASTERN REGION

(भारतीय कृषि अनुसंधान परिषद INDIAN COUNCIL OF AGRICULTURAL RESEARCH)

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ICAR Parisar, P/o - Bihar Veterinary Collage, Patna – 800 014 (Bihar), INDIA

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**By Speed Post**  
**Date- 13.05.2016**

F. No. IRCER/P&S-41/15-16/Plastic Items / 674-83

To,  
M/s

**Sub: Quotation for Drip Irrigation System, Micro Sprinkler Irrigation System and Pop up System at Different location of Bihar and Jharkhand under ICAR-RCER, Patna - reg.**

Sir,  
ICAR Research Complex for Eastern Region, Patna, a unit of Indian Council of Agriculture Research, Ministry of Agriculture, Govt. of India, invites sealed tender bids for “**Drip Irrigation System, Micro Sprinkler Irrigation System and Pop up System at Different location of Bihar and Jharkhand under ICAR-RCER, Patna**” from the reputed suppliers/firms/authorized dealers/manufacturers.

1. The original copy of the tenders is to be enclosed in double cover. The inner cover should be sealed. The outer cover should be superscribed “**Bid for the supply of Drip Irrigation System, Micro Sprinkler Irrigation System and Pop up System at Different location of Bihar and Jharkhand under ICAR-RCER, Patna**” with address of this office and the tenderer shall place two envelopes clearly marked containing technical bid and financial bid separately in the main envelop. All Tenders should be sent by either Registered Post or hand delivered. Tenders to be hand delivered should be put in the tenders box, which will be kept in the **Room No.113** Office of the ICAR-RCER, P/O – BVCC, Patna not later than **2.30 PM on 30.05.2016**. The Bidder/Firm should give their complete address on the bottom left corner of the Outer Cover. The Bids so received will be opened on **same working day at 3.00 PM**.
2. An earnest money of **Rs. 30,000/- (Rupees Thirty thousand) only** must be deposited in the form of Demand Draft / Pay Order payable to “**ICAR Unit: ICAR-RCER, Patna**” in the **Technical Bid**. The particulars of the earnest money deposited must also be superscribed on the top of the envelope by indicating the draft pay order number and date, failing which the tenders will not be opened. The tenders will not be considered if earnest money is not deposited with the tenders in the Technical Bid.
3. **The tender document must be submitted intact with tenderer’s signature and seal on every page** and any pages should not be detached. In the event of the space provided on the tender form being insufficient for the required purpose, additional pages may be added. Each additional page must be numbered consecutively and be signed in full by the tenderer.
4. The evaluation of bids will generally be based on the consolidated lowest bid-price among the Technically responsive bidders, not to be based on the lowest bid-price for any

individual items. While awarding the contract, the Institute may choose to delete certain items, if their respective bid-prices appear to be unreasonable.

5. **Excise Duty:-** *Vide Notification No. 10/97-CE dated 1.3.1997 (as amended by 16/07-CE), the goods to be supplied to Indian Council of Agricultural Research (ICAR) and its constituent Institutes against ICAR contracts (including contracts executed by ICAR Institutes) for any Research-related purposes are fully exempted from levy of any Excise Duty, consequential sales tax / VAT, etc., provided the prices are quoted ex-works by the Supplier.* Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any Excise duty or consequential sales tax and, accordingly, obtain the necessary Excise Duty Exemption Certificate from the purchaser.
6. **Custom Duty:-** In respect of imported stores offered from abroad, the Bidder shall specify the rate as well as the total amount of customs duty payable. The Bidder shall also indicate the corresponding Indian Customs Tariff Number applicable for the goods in question. It must be always kept in view that vide *Notification No.51/96-Customs dated 23.7.1996 (as amended on date)*, the imported goods to be supplied to Indian Council of Agricultural Research (ICAR) and its constituent Institutes against ICAR contracts (including contracts executed by ICAR Institutes) for any Research-related purposes are substantially exempted from levy of any Custom duty, and, subsequently *fully exempted from any consequential excise duty / sales tax / VAT, etc.* Keeping this in view, the supplier shall ensure that the imported stores to be supplied by the supplier against the contract placed by the purchaser are exempted to the admissible extent from levy of any Custom duty or consequential excise duty or sales tax and, accordingly, obtain the necessary Custom Duty Exemption Certificate from the purchaser.
7. All the documents in proof of Registration No. of firm, VAT / Sales Tax No., PAN , Clearance of Income Tax and other Taxes, **Authorization certificate of the manufacturer (if required), ISO Certificate**, etc. must be enclosed with the quotation, failing which the quotation may not be considered.
8. **Warranty/Guarantee period shall be 12 months from the date of satisfactory installation and commissioning of the Items.**
9. Tendering firm will be required to indicate their valid Income Tax /PAN No., Sale Tax / VAT numbers, Bank details for releasing of payment through RTGS etc.
10. The details and specification of **Drip Irrigation System, Micro Sprinkler Irrigation System and Pop up System** are depicted below. Only ISI marked materials are to be supplied.

**A. ICAR RCER ACIAR Project site Madhubani District**

**Drip Irrigation System (4 sets)**

Area: 2000 sq. m., Lateral x Inline Dripper spacing = 1 x 0.4 m. Plot size may be taken tentatively as 60 m x 35 m (however, in field dimension of plots may vary) and distance of initial point of the plot from the source of water can be taken as 75 m. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
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1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
3	Lateral	16 mm, class II, 2.5 kg/cm <sup>2</sup> with Inline emitter 2 lph
4	Screen Filter	10 m <sup>3</sup> /hr
5	Sand filter	With back flush valve 10 m <sup>3</sup> /hr
6	Venturi and manifold	¾ inch
7	Pressure gauge	Can measure up to 3 kg/cm <sup>2</sup>
8	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9	Installation in the field	Proper installation of the drip irrigation system in the field

Note: 4 Sets of above drip irrigation system are required.

### B. ICAR RCER ACIAR Project site Madhubani District

#### Mini sprinkler irrigation system (2 sets)

Area: 2000 sq. m., Lateral x Nozzle of mini sprinkler = 10 x 10 m, Plot size may be taken tentatively as 60 m x 35 m (however, in field dimension of plots may vary). Distance of initial point of the plot from the source of water can be taken as 75 m. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
3	Lateral	LLDPE, 25 mm, class II, 2.5 kg/cm <sup>2</sup> , mini sprinkler nozzle, stake height 1.2 m, Stake diameter 8 mm
4	Screen Filter	30 m <sup>3</sup> /hr,
6	Venturi and manifold	2 inch
7	Pressure gauge	Can measure up to 4 kg/cm <sup>2</sup>
8	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9	Installation in the field	Proper installation of the mini sprinkler irrigation system in the field

Note: 2 Sets of above drip irrigation system are required.

### C. ICAR RCER ACIAR Project site Madhubani District

#### Drum kit drip irrigation system (4 sets)

Area: 500 sq. m. tentatively dimension of plot may be taken as 30 m x 16.7 m (however, in field dimension of plots may vary), 12 mm in line lateral, lateral spacing – 1 to 1.2 m, Suitable filter,

fittings and accessories complete sets. Proper installation in the field. All the items must be as per BIS Standard.

Note: 4 Sets of above drum kit drip irrigation system are required.

#### D. ICAR RCER Plandu

##### Drip Irrigation System

Area: 4000 sq. m. (40 plots of 10x 10 m size) Lateral x Inline Dripper spacing = 1 x 0.4 m. Distance of initial point of 2000 sq. m. area from the source of water can be taken as 75 m. Source of water is over head tank producing sufficient head of 2.4 kg/cm<sup>2</sup>. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
3	Lateral	16 mm, class II, 2.5 kg/cm <sup>2</sup> with Inline emitter 2 lph
4	Screen Filter	10 m <sup>3</sup> /hr
5	Sand filter	With back flush valve 10 m <sup>3</sup> /hr
6	Venturi and manifold	¾ inch
7	Pressure gauge	Can measure up to 3 kg/cm <sup>2</sup>
8	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/ standard accessories as per requirement
9	Installation in the field	Proper installation of the drip irrigation system in the field

#### E. ICAR RCER KVK Ramgargh

##### Drip Irrigation System

Area: 3500 sq. m. (three plots of size 63 x 15 m, 73 x 15.1 m, and 83 x 17.5 m); Lateral x Inline Dripper spacing = 2 x 0.4 m, 1 x 0.4 m, and 2 x 1 m, for first, second and third plots respectively. Distance of initial point of the plot from the source of water can be taken as 20 m meaning thereby a total of 60 m of main pipe may be needed. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , installation in the field 50 cm deep
3	Lateral	16 mm, class II, 2.5 kg/cm <sup>2</sup> with Inline emitter 2 lph
4	Screen Filter	25 m <sup>3</sup> /hr
5	Sand filter	With back flush valve 25 m <sup>3</sup> /hr
6	Venturi and manifold	1.5 inch
7	Pressure gauge	Can measure up to 3 kg/cm <sup>2</sup>

8	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9	Installation in the field	Proper installation of the drip irrigation system in the field

## F. ICAR RCER Patna

### Micro sprinkler irrigation system for guava orchard

Area: 1200 sq. m. (size 60 x 20 m); Radius of through of micro sprinkler = 0.75 m, Lateral x Nozzle of micro sprinkler = 1.5 x 1.5 m, Distance of initial point of the plot from the source of water can be taken as 25 m. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
3	Lateral	LLDPE, 16 mm, class II, 4 kg/cm <sup>2</sup> , micro sprinkler nozzle, stake height 0.4-0.6 m,
4	Screen Filter	10 m <sup>3</sup> /hr,
6	Venturi and manifold	¾ inch
7	Pressure gauge	Can measure up to 3 kg/cm <sup>2</sup>
8	Fittings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9	Installation in the field	Proper installation of the micro sprinkler irrigation system in the field

## G. ICAR RCER Patna

### Drip Irrigation System in mango and litchi orchard

Area: 1800 sq. m. (60 x 30 m), Lateral x Inline Dripper spacing = 2.5 x 2.5 m. Distance of initial point of the plot from the source of water can be taken as 75 m. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 63 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
2	Sub main pipes	PVC pipes 50 mm, class II, 4 kg/cm <sup>2</sup> , , installation in the field 50 cm deep
3	Lateral	16 mm, class II, 2.5 kg/cm <sup>2</sup> with Inline emitter 8 lph as per
4	Screen Filter	10 m <sup>3</sup> /hr as per
5	Sand filter	With back flush valve 25 m <sup>3</sup> /hr
6	Venturi and manifold	¾ inch
7	Pressure gauge	Can measure up to 3 kg/cm <sup>2</sup>

8	Fitings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
9	Installation in the field	Proper installation of the drip irrigation system in the field

## H. ICAR RCER Patna

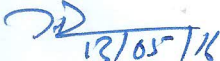
### Pop up System in lawn

Area of grass lawn: 2000 sq. m. (57 x 35.1 m). Distance of initial point of the lawn from the outlet (of underground pipe network) is 50 m. All the items must be as per BIS Standard.

Sl. No.	Item	Specification
1	Main pipe	PVC pipes 75 mm, class II, 6 kg/cm <sup>2</sup> , installation in the field 50 cm deep
2	a) Sub main pipe	PVC pipes 63 mm, class II, 6 kg/cm <sup>2</sup> , installation in the field 50 cm deep
	b) Sub main pipe	PVC pipes 50 mm, class II, 6 kg/cm <sup>2</sup> , installation in the field 50 cm deep
3	Pop up sprinkler head	Full circle gear driven pop up sprinkler of discharge 0.23 to 3.41m <sup>3</sup> /hr at 2-4 kg/cm <sup>2</sup> pressure having radius of through 8 to 15 m with service saddle of required size with flexible joint assembly
4	Pop up sprinkler head	Part circle gear driven pop up sprinkler of discharge 1 to 2 m <sup>3</sup> /hr at 2-4 kg/cm <sup>2</sup> pressure having radius of through 10 to 14 m with service saddle of required size with flexible joint assembly
5	Screen Filter assembly	25 m <sup>3</sup> /hr with GI header assembly
6	Pressure gauge	Can measure up to 5 kg/cm <sup>2</sup>
7	Fitings & accessories	Control valve, Flush valve, Air release valve, Non return valve, By pass assembly, Socket, reducer, elbow, MTA/FTA, End stop and all other essential/standard accessories as per requirement
8	Installation in the field	Proper installation of the pop up sprinkler irrigation system in the lawn

11. Items may be deleted / increased or decreased as per requirement, while placing the supply order. Offers should be supported by manufacturer's printed price list, wherever applicable. Detailed specifications, make, warrantee/guarantee period and leaflet/catalogue should be sent along with the quotation.
12. The rates for respective quantities to be delivered at respective sites, should be quoted in enclosed format of Price Schedule on F.O.R at respective Delivery Points **i.e. ICAR Research Complex for Eastern Region, Patna, Bihar**. No extra charges will be borne by the Institute in case of damage done during transportation. The Bidder should also enclose copies of minimum two Purchase Orders awarded by other Purchasers, to prove the reasonability of the quoted Rate(s).
13. The rates quotes must be valid for a period of six months from the date of acceptance of bid.
14. The **supply & installation** will have to be completed within **15 days** from the date of receipt of the respective supply order. In the case of failure to execute the supply within the period stipulated in the respective supply order, **penalty will be charged @ 0.05% per day**.

15. If the Successful Bidder fails to supply the required items within the stipulated time/period, the EMD/Performance Security will be forfeited and no further correspondence will be entertained in this regard.
16. Conditional offers are liable to be rejected summarily.
17. **Performance Security @ 5% of the anticipated overall drawal will be obtained at the time of award of Contract**, from the successful contract awardee(s), in the shape of Demand Draft/Bank Guarantee drawn in favour of "ICAR Unit: ICAR-RCER, Patna", *which will be refunded after satisfactory completion of warranty period of one year.*
18. No advance payment will be made but payment is assured within 30 days from the date of satisfactory receipt of supply and submission of your bill, subject to the condition that all the required formalities are accomplished before submission of bill. As per the new Government of India guidelines, the e-payment has been made mandatory with effect from 1<sup>st</sup> April, 2012. Hence, each and every Bidder must submit his Bank Account details in the Quotation itself, so that the payment admissible to the Supplier is released in his favour through the mode of e-payment.
19. Other Terms & Conditions may be decided by this Institute, to ensure observance of all statutory/legal norms.
20. The Director, ICAR Research Complex for Eastern Region, Patna reserves all rights to accept or reject any of the quotations without assigning any reasons thereof whatsoever.

  
13/05/11

(S. R. Rajak)  
Asstt. Admin. Officer

<b>SUMMARY PRICE SCHEDULE FOR <u>INDIAN COMPONENTS</u> AND <u>RELATED SERVICES FOR GOODS</u></b>						
Schedule No.	Name of Goods	Set	Area per set (In Sq. Meter)	Qty	Total price (₹)	
					Unit Price per Sq. Meter	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7) = {(5) x (6)}
<b>1.</b>	<b>ICAR RCER ACIAR Project site Madhubani District, Bihar</b>					
A.	Drip Irrigation System (4 sets)	4	2000	8000		
B.	Mini sprinkler irrigation system (2 sets)	2	2000	4000		
C.	Drum kit drip irrigation system (4 sets)	4	500	2000		
<b>2.</b>	<b>ICAR RCER, Research Centre, Ranchi, Jharkhand</b>					
A.	Drip Irrigation System	1	4000	4000		
<b>3.</b>	<b>ICAR RCER KVK Ramgargh, Jharkhand</b>					
A.	Drip Irrigation System	1	3500	3500		
<b>4.</b>	<b>ICAR RCER Patna, Bihar</b>					
A.	Micro sprinkler irrigation system for guava orchard	1	1200	1200		
B.	Drip Irrigation System in mango and litchi orchard	1	1800	1800		
C.	Pop up System in lawn	1	2000	2000		
					<b>Total</b>	
					<b>Taxes</b>	
					<b>Grand Total</b>	<b>Rs.</b>
	<b>In Words</b>					

i) Please indicate name & full address of your Banker(s)	:					<b>The Banking details are required to ensure Financial Transparency, &amp;, to facilitate timely payment through E-Payment / ECS / RTGS / LC, etc.</b>
ii) Please provide your Bank A/c. No., Bank Code, IFSC Code.	:	Bank A/c. No.:	Bank Code with branch details	IFS Code:	MICR Code:	

Name &amp; Business address of bidder :

Seal &amp; Signature of bidder (with date) : \_\_\_\_\_