

**Director of Agriculture
Bihar, Patna**

Invitation of Tender

Sealed tenders in prescribed format are invited only from ISO certified manufacturers or their authorized dealers who do business with ETHICAL and MORAL values, for the purchase of Microwave Plasma-Atomic Emission Spectrometer (MP-AES) for Soil Testing Laboratories, under Directorate of Agriculture, Bihar, Patna.

Bids, complete in all respect should reach in the office of Deputy Director of Agriculture (Central Soil Testing Laboratory) Bihar, Mithapur Farm, Patna-800001 latest by 01:00 hours on **16.01.2015**. The bids will be opened in the office chamber of the Chairperson of the Purchase Committee (Director Agriculture, Bihar, Patna) on the same day at 3:00 PM. Bidders themselves or their representatives may attend the meeting. Pre bid meet is also scheduled on 05.01.2015 (Monday) at 5:00 PM.

Tender details are available on website: **www.krishi.bih.nic.in** and also at **www.prdbihar.gov.in**

Director of Agriculture,
Bihar, Patna.

Government of Bihar
Office of Director Agriculture
Agriculture Department

LIST OF ANNEXURE FOR TENDER DOCUMENT

Sl No	Particular	Annexure No	Page no
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1	General Terms & Condition, EMD, PSD, After Sales Services, CMC, Detailing of Technical Bid Proforma, Quoting Rate, Detailing of Financial Bid Proforma, Opening of Offer date & address. Certificate by Bidder.	Main Body of the Document	2 - 4
2	Minimum Technical Specifications MP-AES.	I	5 – 6
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General Terms and Conditions

1. Sealed tenders in prescribed format are invited only from bonafied and ISO certified manufacturer or their authorized dealers / registered suppliers who do business with ETHICAL and MORAL values, for the purchase of essential equipments / instruments only for the following items-

Item No	Instruments/Equipments	Expected Nos.	EMD amount	Delivery Point/ Paying Authority
1	<u>Microwave Plasma-Atomic Emission Spectrometer</u> Atomic emission spectrometer for elemental analysis in samples of soil.	2 (Two)	Rs 1.36 Lakhs (Rupees One Lakh and thirty six thousands) only.	Joint Director Agriculture, Adaptive Research, Bihar,Patna. Central Soil Testing Laboratory, Bihar, Patna.

Note :- The quantity may vary as per the actual requirements and availability of fund.

2. As per Bihar Financial Rules the tender should be submitted in two bid systems (Technical & Financial bids) in separate envelope **for the item** in prescribed **Technical bid form-1** and **Financial Bid Form-2** as enclosed. The Technical Bid & Financial Bid should be submitted separately in **sealed cover** super-scribed as "***Bid for supply of MP-AES***" addressed in manner given in **Para 23 of the general terms & conditions**. The name & address with email & Telephone/Mobile no. of the bidder should also be written/ printed on the cover of the envelopes containing Technical & Financial Bids. On the Technical bid and Financial bid envelope bidder should also mention the **ITEM Name**.

- 2.1. Technical Bid should contain all the technical details along with proof of specification of the tendered items with original brochures, ISO/BIS Registration Certificate, Earnest Money Deposit (EMD) & other supporting papers except financial part of tendered item. All required details in the

Technical Bid Form-1 should be complete in itself and duly page numbers entered as per the column.

- 2.2. Financial Bid should contain price of the quoted items in the prescribed **Financial Bid format Form-2** duly completed in all respect.
3. Bidders are required to be registered in the Income Tax Department. **To participate in tender bidders need not to be registered in Bihar Sales Tax Department. Bidder succeeded in tender, must be registered in Bihar Sales Tax Department before getting Supply Order within prescribed time limit.**
- 3.1 Bidders have to enclose last 3 years audited report.
- 3.2 Bidders should have annual turn over of more than Rs Two Crores of last three years successively.
- 3.3 Bidders have to submit supply order of such laboratory items in Government/Semi-Government sectors for minimum amount of Rs. 35 Lacs during the last 3 years.
4. **Firms will have to deposit an Earnest Money Deposit (EMD) as mentioned in para column 4 in the shape of crossed DD/FDR/Banker's cheque in favor of Deputy Director of Agriculture (Central Soil Testing Laboratory) Bihar, Patna payable at Patna.**
5. Except successful bidder, the EMD will be returned to the Firms after completion of the tender formalities.
6. A pre appraisal presentation will have to be given before the technical committee the date of which will be communicated on the mail address of the Bidders. This will add to the technical performance of the manufacturer.
7. Performance Security Deposit (PSD) @ 5% of order Value of the contract will have to made within 7 days on receipt of the supply order to ensure due performance of the contract by the successful bidders. The amount should be deposited with the respective purchasing authority / paying authority.

After depositing the PSD the earnest money will be returned to successful bidder. Performance security deposit will be refunded when contract period expires (i.e. one year from installation of instruments). If the instrument supplied is/are not working satisfactorily during the contract period & the services provided is inadequate the expenses incurred for repairs & spares will be recovered from PSD or as the case, full deposit may be forfeited.
8. Conditional tender will not be accepted.
9. Tender must enclose Technical Brochure in original and dully attested by the firm for the quoted brand items so that required specifications may be confirmed.
10. Basic Price of item (F.O.R.), all taxes & duties must be indicated clearly and separately in the **Financial Bid Form 2**.
11. In case of any ambiguity & false information found, the tender is liable to be rejected. EMD will be forfeited and company will be blacklisted.
12. Quoted rates should be in INR & valid up to **31st March, 2015** from the tender opening date.
13. Quoted equipment should carry minimum two-year warranty for all the items with accessories from date of Installation & additional 4(four) years CMC (Comprehensive Maintenance Contract – implies service & spares).
 - . In case of authorized dealers/supplier the documents regarding CMC must be approved and supported by the manufacturer.
14. Tender will not be accepted after the last date & time.
15. Payment will be made only after check up of the product as per specification, proper installation, satisfactory demonstration & its operationalization.

16. Bidder will have to arrange training for operation of the instruments/equipments to the concerned technical officials free of cost.
17. Price quoted must include all concern essential accessories to the equipments/apparatus etc.
18. Successful bidders will have to deliver the items within 30 days of supply order received, unless extended. In case of imported items, bidders are expected to mention at the earliest about the delivery period.
19. Bidders are at liberty to withdraw or amend their quotations till the prescribed date and time of the tender.
20. No separate intimation will be delivered to the bidders regarding attending the meeting of the Tender Opening Committee.
21. In case of delay or failure in supply, order may be cancelled & PSD forfeited.
22. Undersigned reserves the right of acceptance of the tender in part, or rejecting any one or all at any stage without assigning any reason.
23. The Sealed tender completed in all respects will be received at the office of the **Deputy Director of Agriculture (Central Soil Testing Laboratory) Bihar, Mithapur Farm, Patna latest by 01:00 hours on 16.01.2015**
24. Technical tenders will be opened at 15:00 hours on **16.01.2015** in the office undersigned (Director of Agriculture, Vikash Bhawan, Bihar, Patna).
25. Bidders may remain present in self or through representatives during opening of tenders. Tenders will be opened even if no bidders or their representatives are present.
26. In case of any dispute, the jurisdiction will rest with Patna High Courts only.

Dy Director of Agriculture,
Central Soil Testing Lab, Bihar, Patna

Director of Agriculture,
Bihar, Patna.

CERTIFICATE:

Certified that the information furnished above are true and correct to the best of our/my knowledge and belief. In case, any or all the information given above is found to be incorrect at any time I undertake the liability to be proceeded with any manner, (Any change or changes in regard to the furnished information will be intimated to you as and when such changes occur).

Place & Date.

Signature of Bidder
Name & Address in Block Letters

Technical Specifications For An Microwave Plasma-Atomic Emission Spectrometer
Atomic emission spectrometer for elemental analysis in samples of soil.
(MINIMUM SPECIFICATION)

Item No.	Details of Item			Specification Required	Actual Specification of the Product (as per Mnf.)	Deviations if any
	Name of Group / Item	Brand Name	Model/ Make No.			
1	2	3	4	5	6	7
1	Micro wave Plasma - Atomic Emission Spectrometer			<p>AES INSTRUMENT:</p> <ol style="list-style-type: none"> The instrument must be an atomic emission spectrometer capable of simultaneous measurement of sample and background using a solid-state CCD detector. The instrument should be able to determine all desired nutrients-N, P, K, S, Zn, Fe, Mn, Cu, B, Mo elements in one analytical method pass. The system must be suitable for safe unattended analysis and have low running cost <p>SPECTROMETER:</p> <ol style="list-style-type: none"> The spectrometer must use an universal energy source for different elements to be measured. The instrument must be capable of continuously measuring wavelengths over the range from 180 to 780 nm or more to enable determinations across the entire spectrum, both UV and visible. The atomization source must be an air cooled design. Ignition and shut down of the atomization source must be automatic computer controlled and totally automated. The atomization source must operate without requiring a continuous supply of expensive gases. The atomization source must be running using ONLY a supply of air from an external air compressor. <p>GAS FLOW CONTROL:</p> <ol style="list-style-type: none"> Gas flows for the atomization source must be computer controlled. The nebulizer gas flow must be controlled using a precision pressure control system. <p>SAMPLE INTRODUCTION SYSTEM:</p> <ol style="list-style-type: none"> The system must use a three channel, variable speed, computer controlled peristaltic pump for sample introduction. There should be facility to analyze common essential elements of plants in a single measurement run. <p>SOFTWARE:</p> <ol style="list-style-type: none"> The instrument controlling software should be atleast 64-bit running under the Microsoft Windows 7 operating system. The software must provide capability for the user to create a new worksheet. The software must provide an optimization routine that automatically varies and then selects the optimum instrument parameters that maximize signal intensity, ensuring simple and fast method development by any user. Calibration curves must be stored and be able to be 		

				<p>recalled for later use.</p> <p>4. The software must provide capability to measure the same analyte using different wavelengths in the same determination so that the most sensitive line can be used to achieve the best detection limits and less sensitive lines can be used to measure higher concentrations. This enables extended dynamic range during the measurement, without re-measuring samples.</p> <p>5. The software must continuously monitor gas pressures, safety interlocks, etc. If any interlock tripped, the atomization source should be shut down immediately and automatically.</p>		
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Place & Date.

Signature of Bidder
Name & Address in Block Letters

Agriculture Department

LIST OF LABORATORIES UNDER SOIL TESTING

Sl. No	District	Functioning Place	DDO
1	CSTL, Patna	Central Soil Testing Laboratory, Rasayan Bhawan, Mithapur Farm Area, Patna-800 001.	Deputy Director of Agriculture, CSTL
2	Patna	J.D.A. (Adaptive Research), Mithapur Farm, Patna Pin - 800001	Joint Director of Agriculture, FES, Patna

Form -1

Technical Bid Form

Enclosures on Page No.

- | | | |
|--|------------------|-------|
| 1. Tender No. - | : Due Date | |
| 2. Tendered Article (Group/Item No.)
(For which bid is submitted) | : | |
| 3. Name and Address of Bidding Firm | : | |
| 4. ISO/BIS Certificate of Mnf. firm
(Certificate enclosed) | : | |
| 5. Name and Designation of the
person signing the bid | : | |
| 6. Mobile/Land Line Telephone Number | : | |
| 7. Earnest Money Deposit Details | : | |
| 8. CST/VAT Registration Certificate No.
of the tenderer (Copy enclose) | : | |
| 9. PAN Number (Copy enclosed) | : | |
| 10. Authorized dealer/Distributor
(Copy of certificate issued by
manufacturing company enclosed) | : | |
| 11. Audited Annual last 3 yr. turnover
(Copy enclosed) | : | |
| 12. Details about Service Centre -
Manufacturing Company Letter No.
Address - Location | : | |
| 13. Year-wise amount of supply order
executed in last three years
(copy of supply orders/invoices enclosed for each) | : | |
| 14. Terms and Condition of contract mentioned
in the invitation bid are ACCEPTABLE/
NON-ACCEPTABLE | : | |
| 15. Deviation in Terms and conditions/specifications | : | |
| 16. Capacity in which bid is signed by the Bidder
(PARTNER/DIRECTOR) | : | |
| 17. Details for each quoted items | : | |

Group/ Item No.	Make/Model	Specification as per tender	Offered Specification (Detailed)	Offered Specification (at par / above par)
1	2	3	4	5

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Place & Date.

Signature of Bidder
Name & Address in Block Letters

Form -2

Financial Bid Form

1. Tender No. - : Due Date -
2. Tendered Article (Group/ Item No.) : **MP-AES**
3. Name and Address of Bidding Firm :
4. Name and designation of the person signing the bid :
5. Capacity in which bid is signed by the :

Bidder (PROPRIETOR/PARTNER/DIRECTOR)

6. Financial Details for each quoted items :

Item No.	Details of Item Quoted Price & Taxes							Charges for CMC with taxes - year wise breakup					All Price including CMC (8+9)
	Name of the Items	Brand Name	Model/ Make No.	Basic Price of Item with all accessories without VAT	Bihar Sales Taxes (Vat)	Other Taxes/ Duties if any	All Price including VAT (5+6+7)	3 rd yr	4 th yr	5 th yr	6 th yr	Total	
								8	9	10			
1	MP-AES with accessories												

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Place & Date.

Signature of Bidder
Name & Address in Block Letters