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DIVISION OF AGRICULTURAL PHYSICS
INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI – 110012

F.No. AP/ST/7-16/2012-13/862/10

Dated : 13-9-12

M/s. As per list attached

Subject: Quotation for Purchase of Portable NDVI Sensor Set

Dear Sirs,

Sealed quotations are invited for the supply of the articles detailed in the schedule below:
The quotation should reach this office by not later than 1.00 hrs. on 5-10-2012. The cover containing quotation should be superscribed as “Quotations for Portable NDVI Sensor Set in Division of Agricultural Physics, IARI due on 5-10-2012 otherwise it will have the risk of not being considered.

The quotation will be opened at 15.00 hrs. on the same day i.e. 5-10-2012. Quotation shall satisfy the following conditions:

1. The rates quoted shall be valid for a minimum period of 12 months from the last date fixed for the receipt of quotations.
2. The rates quoted for indigenous item shall be for free delivery and installation at IARI, **Division of Agricultural Physics**, New Delhi-110 012 on FOR basis including everything except ST / VAT. ST / VAT may be shown separately. For imported item the rate shall be at FOB basis.
3. Full specifications of the article quoted for shall be given in the quotation along with literature/pamphlet/drawing etc. wherever possible samples should also be sent.
4. If taxes, duties or any other charges over and above the rates quoted Leviable by the purchaser, actual /percentage of such taxes/duties/other charges should be clearly indicated. Please note that this Institute is entitled to concessional Sales Tax as applicable to Education/ Res. Inst. Labs etc. against declaration form. This Institute is also exempted from paying Excise duty for scientific equipments against issue of prescribed form.
5. In case any of the item mentioned in the schedule is covered by rate contract of DGS & D etc. the rate contract No. and date may be specified. Supply of a copy of the rate contract would be appreciated.
6. Specific mention should be made as to whether delivery will be from ready stock or will have to be imported acquired and in the latter case the time required for delivery after the firm supply orders placed should be indicated clearly.
7. Article listed in the schedule are required on or before _____
8. Supply is to be made by goods train or by road transport whichever is cheaper at supplier's risk unless otherwise specified.
9. Quotation shall be completed in all respect viz. Minimum units of supply, specifications, rate actual or percentage rate of taxes, duties, mode of dispatch etc. If installation are to be done by the supplier, it should be specified and extra charge if any, payable thereon be clearly mentioned in the quotation. Rebate if any allowed if larger quantities ordered may also be indicated.

10. . In case of equipment, minimum one year warranty certificate has to be invariably furnished.
11. Payment will be made by e-payment D.D./P.O. Cheque drawn on Syndicate Bank, Pusa, New Delhi -110 012 after satisfactory completion of supply/work and receipt of pre-receipt bills triplicate Quotation given any other mode of payment be avoided.
12. The Director IARI, New Delhi reserves to himself the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
13. No. enquiry about the quotation will be entertained.
14. All dispute arising related to this purchase will be settled I the Court of Law at New Delhi or t through Arbitration. The decision of the shall be Court/ Arbitrator binding to both the parties.
15. Sealed quotation under **TWO BID SYSTEM (Commercial/Technical bids)** should be put in the quotation Box” of the **Division of Agricultural Physics, IARI, New Delhi.**
16. Quotations not complying with the above conditions are liable to rejected.

SCHEDULE

Sl. No.	Description of material	Qty Reqd.
	Technical Specification for Portable NDVI Sensor set Specification (please see enclosure and submit your rates therein)	One No.

Terms & Conditions:

- I) An Earnest Money for **₹. 20,000** (Rs. Twenty thousand only) in form of Demand Draft drawn in favour of Director, IARI must be attached with the quotation. Quotation received without EM will not be considered and rejected without making any reference to the firm.
- II) The Income Tax / S T clearance certificates along with copy of PAN No. may be enclosed along with the bid.
- III) A copy of trade registration certificates may also be enclosed along with bid.
- IV) Validity of the quotation shall be for 12 months from the date of opening quotations
- V) Using Performa other than prescribed (enclosed herewith) will quotation liable to be rejected.
- VI) The successful bidder will have to deposit performance security @10% of the value of the cost of award
- VII) No interest on EM/ Performance security will be paid by the Institute
- VIII) The institute will have the right to cancel the award if it feels that the firm is not complying with the instruction/terms of tender, at any stage
- IX) The Tender form can be had from the Office of Head, Division of Agril. Physics, IARI, N.Delhi on Bank Draft of **₹.1000/-** (Rupees one thousand only). The firm who are using form by downloading from the website are also required to submit cost of tender form viz. **₹ 1000/-** in the shape of DD in favour of Director, IARI separately.

Please read the instructions carefully and enclosed all the related documents alongwith your bid so that bid is accepted by the Institute

Yours faithfully


(K.C. Khara)

Asst. Admn. Officer

Copy to Incharge, USI with the request to kindly place on IARI Website & CPP Portal

PRICE BID

Specification of Portable NDVI Sensor Set in detail to be purchased

S No.	Details of Technical Specification	Rate
1	Sensor-to-Canopy Range: Typically 10 in (25 cm) to >72 in (183 cm)	
2	Field-of-View: ~30 degrees by ~14 degrees	
3	Active Light Source: Modulated polychromatic LED array (emission from 430 nm to 850 nm)	
4	Photo-detection: Two channel silicon photodiode array with spectral range of 320 nm to 1100 nm	
5	Optical Measurement Bands: User definable from 430 nm to 800nm via 12.5 mm interference filters	
ELECTRICAL SPECIFICATIONS		
6	Sample Output Rate: Programmable for 1 sample per second to 20 samples per second	
7	Operating Range: 0 to 50 °C	
8	Communication Interface: RS-485 multidrop (bidirectional communication); RS-232 (autosend, output)	
9	RS-232 Serial Communication: 76800, no parity, 8 data bits, 1 stop bit	
10	Power: 11 to 17V DC @ ~350 mA	
MECHANICAL SPECIFICATIONS		
11	Enclosure: PVC plastic housing	
12	Environmental: IP68 for dust and water resistance	
13	Sensor Mount: (2) ¼ - 20 threaded holes in base of sensor spaced 1.25 in (3.18 cm)	
14	Serial/Power Connector: Four pin Eurofast type, O-ring sealed	
ACCESSORIES AND SYSTEM PACKAGES		
15	Handheld System. System should include hand held system with power supply, extension pole apparatus, cables, storage case, charger and user's guide	
16	Mapping System. System should include mapping system with cables, storage case, mounting plate and user's guide	
17	Field Calibrator. Should have calibration fixture and user's guide	
18	Interference Filter Set : Should include: • 656 nm, •774 nm interference filters	
19	Send catalog, ISO certificate of Manufacturer, list of users and quote for package prices. AMC	
Warranty/Guarantee: All the items supplied should be under a minimum warranty period for 18 months from the date of dispatch or 12 months from the date of installation whichever is earlier.		
Ex-Factory Price		
Packaging & handling charges (FOB items)/other charges/ Taxes (Vat)(FOR indigenous item(s)		
FOB (for imported item)FOR (For Indigenous PRICE		

The tender must be submitted strictly in this format along with enclosure in support of tender claim that the equipment being offered under this tender meets the entire above requirement. Concealing of any fact regarding specification of equipment being offered will liable to be rejected the tender. Tender not received in the above prescribed format will be rejected and no correspondence will be entertained.

Signature of the Tenderer with office Seal

TECHNICAL BID

Specification of Portable NDVI Sensor Set in detail to be purchased

S No.	Details of Technical Specification	Whether complied with Yes/ No	Is yes please attach Tech. Brochure/ Catalogue of the equipment duly printed & clearly specify Page No. of which specifically confirm this item (s)
1	Sensor-to-Canopy Range: Typically 10 in (25 cm) to >72 in (183 cm)		
2	Field-of-View: ~30 degrees by ~14 degrees		
3	Active Light Source: Modulated polychromatic LED array (emission from 430 nm to 850 nm)		
4	Photo-detection: Two channel silicon photodiode array with spectral range of 320 nm to 1100 nm		
5	Optical Measurement Bands: User definable from 430 nm to 800nm via 12.5 mm interference filters		
	ELECTRICAL SPECIFICATIONS		
6	Sample Output Rate: Programmable for 1 sample per second to 20 samples per second		
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8	Communication Interface: RS-485 multidrop (bidirectional communication); RS-232 (autosend, output)		
9	RS-232 Serial Communication: 76800, no parity, 8 data bits, 1 stop bit		
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15	Handheld System. System should include hand held system with power supply, extension pole apparatus, cables, storage case, charger and user's guide		
16	Mapping System. System should include mapping system with cables, storage case, mounting plate and user's guide		
17	Field Calibrator. Should have calibration fixture and user's guide		
18	Interference Filter Set : Should include: • 656 nm, •774 nm interference filters		
19	Send catalog, ISO certificate of Manufacturer, list of users and quote for package prices. AMC		
	Validity: Prices quoted should be valid for 12 months from the date of tender opening.		
	Warranty/Guarantee: All the items supplied should be under a minimum warranty period for 18 months from the date of dispatch or 12 months from the date		

of installation whichever is earlier.		
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The tender must be submitted strictly in this format along with enclosure in support of tender claim that the equipment being offered under this tender meets all the above requirement. Concealing of any fact regarding specification of equipment being offered will liable to be rejected the tender. Tender not received in the above prescribed format will be rejected and no correspondence will be entertained.

Signature of the Tenderer with office Seal

