



पादप कार्यिकी संमाग
DIVISION OF PLANT PHYSIOLOGY
मा.कृ.अ.प.-भारतीय कृषि अनुसंधान संस्थान
ICAR-Indian Agricultural Research Institute
नई दिल्ली-110012 (भारत)
NEW DELHI - 110 012 (INDIA)



File No: 50-18/GMP/19-20/NAHEP(71-01)

Date: 05/11/2019

To

Dear Sirs,

**Sub : INVITATION FOR QUOTATIONS FOR SUPPLY OF
Ground Mobile Platform**

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

Brief Description of the Goods	Specifications *	Quantity	Delivery Period	Place of Delivery	Installation Requirement if any
Ground Mobile Platform (as per design, diagram and specification attached as Annexure-I)	Annexure - A	01	Within 90 days after issue of Purchase/Supply Order	Division of Plant Physiology, IARI, Pusa Campus, New Delhi - 110012	As per terms and conditions.

* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.

2. Government of India has received a financing from the World Bank towards the cost of the said Equipment/Item **under NAHEP-CAAST (71-01) Project** and intends to apply part of the proceeds of this financing to eligible payments under the contract for which this invitation for quotations is issued.

3. **Bid Price**

a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

- b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- c) Sales tax in connection with the sale shall be shown separately.
- d) 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.
- e) The Prices shall be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.

5. **Validity of Quotation**

Quotation shall remain valid for a period not less than 15 days after the deadline date specified for submission.

6. **Evaluation of Quotations**

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

- (a) are properly signed ; and
- (b) conform to the terms and conditions, and specifications.

The Quotations would be evaluated for all the item together/would be evaluated separately for each item. *[Select one of the options]*.

Sales tax in connection with sale of goods shall not be taken into account in evaluation.

7. **Award of contract**

The Purchaser 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.

7.1 Notwithstanding the above, the Purchaser 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.

7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.

7.3 **Successful Bidder should submit 10% of Total Cost of Equipment as Performance Guarantee after receiving the Purchase/Supply Order.**

8. Payment shall be made immediately after delivery of the goods.
9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
10. You are requested to provide your offer/Sealed Quotation latest by **13.00 hours on 13/11/2019**.
11. We look forward to receiving your quotations and thank you for your interest in this project.

(Purchaser)

Name: Assistant Admn. Officer.
Address: Division of Plant Physiology,
IARI, Pusa Campus,
New Delhi - 110012
Tel. No. 011 25842815.

Technical Specifications for Mobile Platform

The technical specification of Mobile Platform for field sensor based field phenotyping is given as below and draft sketch is also attached here with.

- Mobile platform with programmable moving speed
 - Driving mechanism with petrol engine minimum of 200cc
 - Scanning servo motor for programming required moving speed of the platform as per the requirement of scanning system of imaging system.
 - It must be power sourced by rechargeable battery with minimum 48V and 20AH.
 - Mobile platform should have anti-topple mechanism with CG less than 6"
 - Dimension of vehicle min: L : 2.2m, Width: 1.6m and height : 0.9m
 - Tyre of 10" wide for better stability
 - Driver shade with solar panel to recharge the battery for servo motor
 - Mobile platform should be operable in all weather, day and night conditions
 - Mobile platform should be integrated with GPS for geotagging its position and movement
 - Should be integrated with weather sensor with monitor for light intensity, temperature, humidity and wind speed.

- One boom carrier with minimum length 2.438m
 - Made up of Al-Mg Alloy, strong and light weight
 - No expansion and contraction in extreme operating weather conditions

- Boom to carry all kind of sensor for imaging of soil and crops in field condition
 - Boom should be able carry sensor and accessories max weight 6kg
 - Effective length 3.6576m (12ft) expandable to maximum 6.096m (20 ft)
 - Made up of Al-Mg Alloy, strong and light weight
 - No expansion and contraction in extreme operating weather conditions
 - One side of the boom will have end effect tor for carrying sensors and other side counter weights to balance the boom.
 - The joint of boom carrier with boom must be equipped for programmable angle of the boom.
 - System can be programmed to orient the boom to a maximum height of 6.096m (20ft)

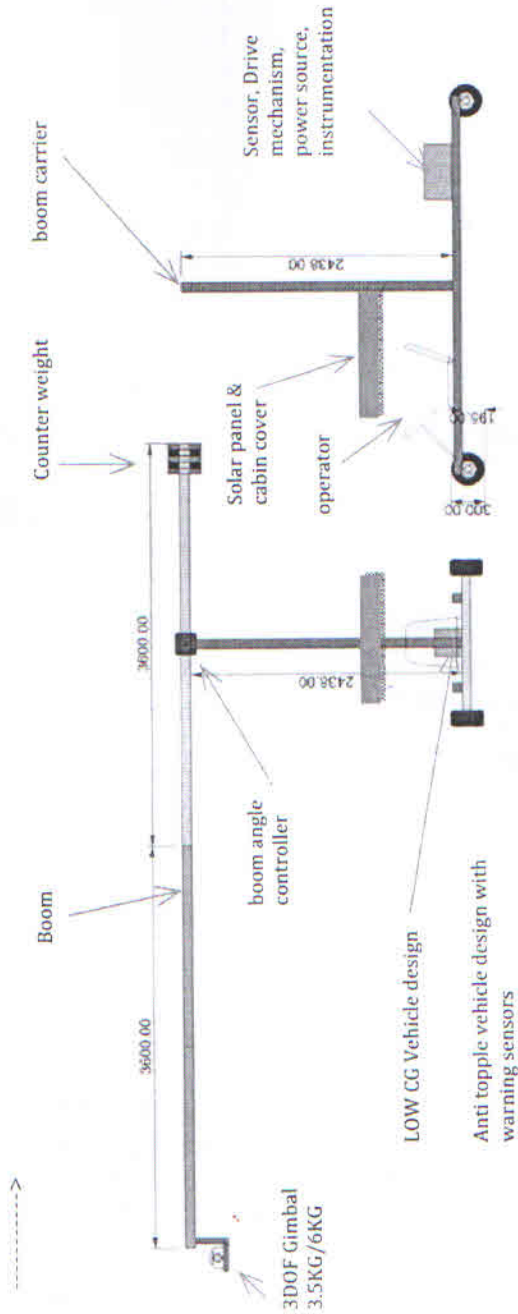
- End effector will be at one of the boom to carry all kind of sensors
 - It must be equipped with 3DOF Gimbal attachment to hold the sensor upto 6kg.
 - End effector should be programmable for imaging from the sensor in all possible zenith and azimuth angles

- Programmable user interface for changing the boom angle, sensor position, velocity of the vehicle.
- Mobile platform should have on board power source with minimum 220V and 2amp for use in imaging system and mobile computing system.

Conditions :

- Supplier will not claim IP right for the item. IP right will be with indenter and IARI.
- Warranty for minimum 1year
- May include AMC cost for next 2years as optional.

Draft diagram for Mobile Platform for Field Phenotyping as per the technical specification



FORMAT OF QUOTATION *

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1.							
	TOTAL						
	Sales Tax						

Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank's sanctions procedures) in competing for or in performing the Contract.

Signature of Supplier

* *Applicable while the bids are being invited for more than one item and would be evaluated for all the items together.*

Modify where evaluation would be made for each item separately.