



Division of Agricultural Engineering
ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI-110012



File No.154/FMP Project/2019-20/AE

Dated: 24-07-2019

TENDER NOTICE

Online bids are invited in two bid systems(i) technical bid and (ii) financial bid on behalf of Secretary,ICAR, New Delhi from eligible bidder for **Fabrication of a Pusa Battery-Assisted Four Wheel Weeder-Seeder** designed and developed by Division of Agricultural Engineering, ICAR-IARI, New Delhi - 110012 (mentioned in tender). The submission for above item through online is **19th August 2019** upto 1300 hours. The bid will be opened on **20th August 2019** at 1500 hours.

- Name of the equipment/item** : Fabrication of a Pusa Battery-Assisted Four Wheel Weeder -Seeder developed by Division of Agricultural Engineering, ICAR-IARI, New Delhi -110012
 - Pre-bid conference** : **5th August 2019 at 1500 hour**
 - Submission of tender document:** **19th August 2019** up to 1300 hour
 - Opening of technical bid of tender :** **20th August 2019** at 1500 hour
 - The rates quoted shall be valid for a minimum period of one year from the date of approval of the rate contract by the competent authority.
 - The rates quoted shall be for free delivery at the Division of Agricultural Engineering, ICAR-IARI, NewDelhi - 110 012.
 - If taxes, duties or any other charges over and above the rates quoted leviable actual percentage of such taxes/duties/other charges should be clearly indicated.
 - Tender shall be completed in all respect. The installation and demonstration is to be done by the manufacturer/fabricators at the site of installation any where in the country. However, T.A for technician for installation will be borne by the indenting firm/institute / customer.
 - The firm will be paid 100% of the contract amount after supplying the item on the site of installation and after successful installation and demonstration of the machine.
 - The bid should be accompanied with earnest money at the following rates
- | Item No | Name of the Item/equipment | EMD (Rs.) |
|---------|--|------------|
| 1 | Fabrication of a Pusa Battery-Assisted Four Wheel Weeder Seeder. | Nil |
- EMD should be in the form of Demand Draft/Pay Order/Fixed Deposit Receipt/Bank Guaranty from the Commercial Bank in favour of the Director, IARI on any Nationalized Bank, without which the tender will not be entertained. The EMD shall be refunded to the unsuccessful tenderer after finalization of the tender. In case of successful bidder, it can be adjusted towards security deposit as per rule.
 - Warranty certificate or a minimum period of ONE YEAR from the date of Supply/installation there by providing for replacement of parts and/ or repair/ service at the cost of manufacturer/fabricators furnished.
 - The lowest rate for Fabrication of Battery assisted Weeder-Seeder would be offered by the eligible competent bidders with sufficient manufacturing infrastructure and upon acceptance thereof, the panel of such manufacturer / fabricator would be drawn. The Director, ICAR-IARI, New Delhi

- reserves the right to place the order of fabrication of machines to any empanelled competent manufacturer and/or to the licensee manufacturer at the approved rate if the demand warrants so.
14. The quality of material used and work man-ship employed in fabrication of the machines can be monitored by the team of technical expert of IARI at manufacture's workshop.
 15. The manufacturer will also be required to provide after sales service to the satisfaction of the customers on payment basis after the warranty period.
 16. Payment will be made by e-payment on Syndicate Bank, Pusa, New Delhi -110 012 after satisfactory completion of work and successful installation of machine at site and receipt of pre-receipt bills triplicate.
 17. In case any parts/components stores are found defective /damaged during or after delivery to consignee, the suppliers will replace or repair the item under warranty at consignee's location in India free of cost
 18. The Director ICAR-IARI, New Delhi reserves to him/herself the right to accept or reject any or all the tenders either in full or in parts without assigning any reason.
 19. Not with standing anywhere else mentioned to the contrary on this document, the bids would be evaluated on price of the equipment and accessories, if any, & also taking the CCMC/AMC charges for arriving at the selected firm.
 20. **Rates for single or multiple (05 Nos) piece can be quoted separately.**
 21. Tenders not complying with the above conditions are liable to be rejected.

The following documents must be furnished with the technical bid failing which tender will not be accepted at all.

1. GST/ PAN card copy
2. Current Authorization letter issued from manufacturer/Principal Firm in Original.
4. Fabrication of equipment as per the specification
5. The tender documents duly signed by the concerned firm accepting the same should be attach with technical bid.

Sl. No. Description/ SpecificationoftheItem	Qty. Req.
Fabrication of a Pusa Battery-Assisted Four Wheel Weeder- Seeder (Annexure-I& Figures)	-

Asstt. Admn. Officer (AE)

Fabrication of a Pusa Battery-assisted Four Wheel Weeder-Seeder

Components	Quantity
DC brushed motor (350W, 24V, 300 RPM -after Reduction)	01
Motor Controller with throttle of 350W DC brushed motor	01
Battery 12V, 12Ah	02
Key switch, 2.5mm wire 4m, 1 battery connector, 8 thimble and 2m wire insulator 20mm flexible pipe	-
24V battery pack charger	01
Rear Wheel 14" (rim, tyre & tube): rim is to strengthened with 5mm thick ms flat ring and four 5mm thick flat is mounted on centre bush)	02
Front Wheel 10": plastic and fitting on frame using MS bush.	02
Chain-Sprockets (12.7mm pitch & 3.2mm width,700mm length)	01 each
Sprockets (12.7mm pitch, 22 teeth sprocket)	01
Ball bearings (6202 & 6201)	2 each
Gears (41, 25 & 16 no. teeth)	1 each
Aluminum flat (1800x50x10mm)	2
MS hollow square section (120x 25x 25x3mm)	2
MS flat (400x40x8)	01
MS sheet (500 x 300 x1-2mm)	01
MS sheet (5mm thick for 100 x 100mm size)	01
Stainless Steel rod (500 x 20mm dia): 5mm key	01
EN8 sheet (300 x 50x 5mm)	02
MS conduit pipe (2500x12,1mm)	1
MS conduit pipe (560x20x1mm)	1
Nut-bolt TVS (3 sut-8mm, assorted)	16 no.
Head less screw (2 sut-5mm)	4no.
MS round bar for weeding tool (12 mm dia x 500 mm length)	01
MS flat for weeding tool (50 x 5x200+ 25x5x250+40x5x170mm)	01each
Battery frame (24 x 3x800mm) and 20 x 3 x 150mm x2no	01 each
Ground wheel rim (25x3x1000mm)	02
MS shaft for rim hub (40 dia x 120mm)	01
Aluminum rod (60mm dia x 150mm length)	01
Platform for motor (made up of two 38 mm angle iron x 120mm length)	01
MS square rod for seeder (20mm size x 600mm length)	01
MS sheet for hopper (1000 x 260mm size of 1mm thick)	01
Boot and Furrow opener MS material (ms flat, ms sheet)	02
Cell fed Metering unit	02
Material for Ground wheels (ms flat 3200 x 25 x 3mm thick+ 10mm rod of 800mm length+ ms shaft 40mm dia x 100mm length)	01
MS round bar for metering units (12mm x 320mm)	01
MS flat for mounting seeder (25x5x 500mm)	01
Miscellaneous fabrication items as per need	-
Paint (primer 1/2 l + paint 1/2l)	01 each



Figure: Photographs of Battery-assisted Four wheel Weeder- Seeder

Compliance report

Components	Yes	No
DC brushed motor (350W, 24V, 300 RPM -after Reduction)		
Motor Controller with throttle of 350W DC brushed motor		
Battery 12V, 12Ah		
Key switch, 2.5mm wire 4m, 1 battery connector, 8 thimble and 2m wire insulator 20mm flexible pipe		
24V battery pack charger		
Rear Wheel 14" (rim, tyre & tube): rim is to strengthened with 5mm thick ms flat ring and four 5mm thick flat is mounted on centre bush)		
Front Wheel 10": plastic and fitting on frame using MS bush.		
Chain-Sprockets (12.7mm pitch & 3.2mm width,700mm length)		
Sprockets (12.7mm pitch, 22 teeth sprocket)		
Ball bearings (6202 & 6201)		
Gears (41, 25 & 16 no. teeth)		
Aluminum flat (1800x50x10mm)		
MS hollow square section (120x 25x 25x3mm)		
MS flat (400x40x8)		
MS sheet (500 x 300 x1-2mm)		
MS sheet (5mm thick for 100 x 100mm size)		
Stainless Steel rod (500 x 20mm dia): 5mm key		
EN8 sheet (300 x 50x 5mm)		
MS conduit pipe (2500x12,1mm)		
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Nut-bolt TVS (3 sut-8mm, assorted)		
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Paint (primer 1/2 l + paint 1/2l)		

