



# ICAR - NATIONAL RICE RESEARCH INSTITUTE

CUTTACK – 753 006, Odisha (India)

Phone(PABX): 0671-2367768-783/FAX: (0671)2367663/2367759

E-mail: [crriictc@nic.in](mailto:crriictc@nic.in) URL: <http://www.icar-nrri.in>



## OPEN TENDER NO.252/2019-20/STORE DATED 15.02.2020

**Last date: 02.03.2020 at 1.00 P.M.**

Sealed tenders (**Single Bid**) are invited from the Manufacturers/Authorized Dealers for procurement of the following Scientific Equipments/Instruments/Farm Implements. The amount of EMD to be deposited separately against each item are as mentioned below.

S. N.	Name of the Equipment	SFC/ Scheme	Qty.	Amount of EMD (₹)
1.	Electrical & Machine tools	EAP-284	1 unit	5000.00
2.	Self-Propelled Reaper cum Binder	SMAM-Kod	1	10000.00
3.	Self-Propelled Paddy Reaper	TSP	1	4500.00
4.	Precision Balance-2	EAP-272	1	2500.00
5.	GI Storage Bin with Lid	TSP	100 nos	4500.00
6.	Power Weeder	TSP	3 nos	3000.00
7.	Form Fill Sealing Unit	EAP-272	1	7500.00
8.	Handheld Rugged Android Tablet	EAP-241	1	--
9.	Metal Storage Cabinet	Inst. Fund	1 unit	4500.00
10.	Power Reaper	SFC	1	5000.00
11.	Reaper Tractor Mounted	SFC	1	2500.00

- N.B:**
- 1. The place of delivery In respect of item at Sl.No.2 will be at KVK, Jainagar, Koderma (Jharkhand).**
  - 2. The place of delivery In respect of item at Sl.No.10 & 11 will be at Central Rainfed Upland Rice Research Station, Hazaribagh-825302 (Jharkhand).**

Tender documents along with EMD amount should be submitted in sealed cover superscribing the **Open Tender Number, Name of the item, & Sl. No.** which should reach the **Director, National Rice Research Institute, Cuttack-753006(Odisha)** on or before **02.03.2020** up to **1.00 p.m.** The tender will be opened on **02.03.2020 at 3.30 p.m.** If the office remains closed on the last date of receipt of tender as specified above for any reason, the immediate next working day will be treated as the last date for receipt and opening of tender.

The Director, NRRI, Cuttack reserves the right to reject any or all of the tender documents without assigning any reason thereof.

**DIRECTOR**  
Contd./2

**TERMS AND CONDITIONS OF THE OPEN TENDER FOR SUPPLY OF SCIENTIFIC EQUIPMENTS/INSTRUMENTS/FARM IMPLEMENTS.**

1. The detailed tender/quotation containing make, model with other technical specifications and price in the attached Price Schedule format should reach this office by **1.00 p.m.** on **02.03.2020**. The envelope containing the quotation should be superscribed as “**TENDER FOR SUPPLY OF ..... (Name of the equipment & Sl. No.), O.T. No.252/2019-20/Store**”. Quotations received without this superscription will have the risk of not being considered. The quotations received within stipulated period will be opened on **02.03.2020 at 3.30 p.m.** Quotations received after the prescribed date and time will not be considered at all.
2. Tenderer submitting quotations for more than one item should submit in separate envelope for each item along with prescribed amount of EMD. Any envelope found containing more than one quotation will not be entertained for opening with others.
3. Earnest Money Deposit as specified only against the items towards bid security will have to be deposited in the form of **Demand Draft/Fixed Deposit Receipt/Banker's Cheque** in favour of **Director, NRRI, Cuttack** payable at **Cuttack-4** along with the quotation. Other modes of payment of EMD will not be accepted.
4. The tenderer should mention standard terms & conditions such as validity of rate, term of delivery, delivery period, period of warranty etc. in the tender.
5. The rates so quoted should be on FOR destination for ICAR-NRRI, Cuttack-753006 / KVK, Jainagar, Koderma (Jharkhand) / Central Rainfed Upland Rice Research Station, Hazaribagh-825302 (Jharkhand).
6. The details of equipments/instruments/farm implements should support its Product Catalogue with reference to specific brand.
7. If taxes, duties or any other charges like installation, demonstration etc. over and above the rate quoted are payable by the purchaser, actual / percentages of such taxes / duties or charges should be separately and clearly indicated, which will be taken into account in calculating the total cost.
8. In case the tenderer is not a manufacturer, an authorization certificate from the original manufacturer must be attached.
9. Payment will be made by e-transfer after completion of supply and satisfactory installation for which the concerned firm has to provide Bank details. Quotation insisting any other mode of payment including advance payment is not acceptable.
10. The successful tenderer will have to deposit performance security amount at the rate of **5%** (five percent) of the **value of contract** in the form of an Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial Bank or Bank Guarantee from a Commercial Bank in an acceptable form in favour of **The Director, NRRI, Cuttack-6** in case the contract value is more than **₹ 1,00,000.00**. The Performance Security shall have to be furnished before release of payment and should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier including warranty obligation. The EMD deposited along with tender will be refunded on receipt of performance security. No request for transfer of any other previous deposit of earnest money/security money will be entertained. The earnest money / security money should not, on any account, fall short.

=3=

11. Bid securities of the unsuccessful bidders will be returned within 30 days after award of the contract.
12. Enquiries regarding rate will be treated to be a disqualification for consideration of the quotation.
13. While submitting tender, tenderers should clearly indicate no. of pages of schedule, literature, diagram, papers etc. attached with the tender. Incomplete quotation is liable to be rejected.
14. Tenderer should provide the copies of PAN & GSTN along with tender. In absence of these details the tender shall not be considered at all.
15. Quotations not complying with the above conditions are liable to be rejected. Overwriting in tender papers/rates will have the risk of cancellation. **Only typed/ computer printed quotations will be accepted.**
16. All disputes including court proceedings shall be settled within the Cuttack jurisdiction only.
17. The Director, NRRI, Cuttack reserves the right to cancel any one or all the tenders without assigning any reason thereof.

=0=0=0=

## FORMAT OF PRICE SCHEDULE

**(To be provided in the Letter Head of the Firm)**

Sl. No.	Description of Goods (Make / Model etc.)	Detailed Specifications	Qty.	Unit Rate (Rs.)	Total Amount	
					Rs.	P.
G.S.T.						
Grand Total						

**Total Amount in Words (Rupees.....)**

## Standard Terms & Conditions

1. Validity of Rate :
2. Delivery Period :
3. Warranty Period :

## DECLARATION

We agree to supply the above good(s) in accordance with the technical specifications on FOR Destination at ICAR-NRRI, Cuttack-6 (Odisha) / KVK, Jainagar, Koderma (Jharkhand) / Central Rainfed Upland Rice Research Station, Hazaribagh-825302 (Jharkhand) within the delivery period specified in the Quotation.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

**Signature of Supplier with Seal**

1

# **16. Electrical and machine shop tools**

Portable Abrasive Chop Saws 2 numbers	1.5-2 inch cutting solid and 2-3 inch hollow pipe, 3000-3500 Rpm with 2-3 hp motor 1 or 3 phase,
Angle grinder 1 no.	Machine duly fitted with 4"dia. grinding wheel, complete with electricals.
Variable Speed Industrial Bench Grinder 1 no. and Bench Grinder constant speed 1 no.	Cast Iron Guards house the 36 and 60 Grit Wheels, Two 2-1/2" Round Dust Ports with Single Outlet Collection Hose, wheel speed 900-3600 rpm, Motor 1hp and 1-3 ph,
Slip Roll – Hand Operated 1no.	Asymmetrical Roll Bending Machine, High Strength Steel Roll, max rolling thickness 2-4 mm, Max. Rolling Width 600-1000 mm, dia of rolls 60-100mm
Hydro – Mechanical Profile Bending Machine 1 nos	One Standard Combination Roller Set. Horizontal & Vertical Operation, With Standard Foot Pedal, Diameter of Roller 50-75 mm, motor power 3 hp, spindle speed-8-12 r/mm, dimension 1000-1200x1000-1200x15-20
Other tools used in electrical and machine shop like voltmeter 2nos., multimeter 2 nos., ammeter 2 nos., Wire Crimpers, Phillips Screwdrivers, straight blade screw driver, tool box, Allen Wrench Set (Hex Set), Torpedo Level, Linesman Pliers, Non-Contact Voltage Tester 2 nos., Drill press, Electric hand drills 2 nos., electrical grinder hand operated 2 nos., Tool & Cutter Grinder, Tools For Sheet Metal Operations,	
Complete standard accessories should be provided	

2

## **Technical Specification for Self Propelled Reaper cum Binder**

- Cutting width: At least 4'
- Height of cut from ground: not above 5 cm



3

### **Technical Specification for Self Propelled Paddy Reaper**

- Walking Type Self Propelled Paddy Reaper
- 5 HP, Walking Speed 2.6 km/hr
- Working Capacity 1 acre/1.5 hr
- Vertical Cutting height 10 cm to 100 cm.

**Specifications for Precision Balance-2**

1. A precision balance complete with glass wind shield and one touch Function key having sliding door opening/closing system, Anti theft device and Unit conversion facilities.
2. Overload Protection: Up to 100 kg to be present
3. Leveling feet and Level indicator
4. Superior Back-lit display
5. Maximum Capacity: 220 gram
6. Readability : 0.1 mg.
7. Repeatability : 0.1 mg.
8. Linearity : 0.2 mg.
9. Response time : 2 sec.
10. AC Adapter 230 Volts.
11. Tare range full
12. Platform dimension: 90 mm ( $\pm 5$ mm)
13. Balance dimension : 347x204x345 mm (L X W X H)-Upto 5% deviation on both side will be acceptable limit.
14. Diagnostics: Easy running of balance diagnostics test e.g. key pad test & repeatability test
15. Other inbuilt application: Piece counting, Percentage weighing, Dynamic weighing, Statistics weighing, Totaling, free factors, recall, High performance mono block weighing cell for fast and accurate result.
16. Cal Int: At a key stroke with and internal weight
17. Protective Covers: Should enclose the entire housing protecting the balances from stains and scratches
18. Certified Weighing box with different weight range for calibration.
19. The equipment should be provided with all necessary accessories and spare parts to run without hindrance.
20. The system should be suited to Indian system of electrical inputs (230V/ 50Hz) in single phase.
21. To be supplied with appropriate branded stabilizer (90-280V) with warranty.
22. The bidder should quote for only those equipments for which hardware, software and spare parts support will be available in next minimum 7 years.
23. There should be minimum 5 installations of the instrument in Indian Public Sector or CGIAR research institutes. The list should be provided.
24.  $\geq 2$  year comprehensive warranty for the complete instrument installed. Warranty of all items will strictly be applicable from the date of installation.



5

### **Technical Specification for GI Storage Bin with Lid**

- Paddy Storage bin with lid (220 kg capacity)
- Made of 24 Gauge GI Sheet
- Height – 3'
- Diameter – 2'
- Provision of outlet at bottom
- Quantity – 100 nos

6

### **Specification of Power weeder**

'Petrol Operated Paddy Weeder' having engine displacement 30.8cc, Crankcase professional design separate two half & changeable, Power -1.8HP, Engine ideal speed 2800 rpm, Maximum engine speed 12300rpm, Ignition electro magneto ignition type, Fuel gasoline, Transparent Fuel tank with capacity 0.64 liter, Dry weight 6.3 kg, Clutch shoe lining metal, Air filter paper type, safety interlock with trigger, Gear head spiral tooth bevel gear type with aluminum body deep groove ball bearing, Drive shaft rigid with square design at end With paddy weeder cage wheel kit & paddy harvester kit.

- After sales & service facility available at Cuttack/Bhubaneswar.



## Specifications for Form Fill Sealing unit

### Product Specification

1. Fully Automatic vertical form fill and seal machine for packing grains, snack items, flour, *Poha*, *Muri*, *Khoi* and other processed products of rice.
2. Collar type with Draw Belt operated wrapper draw System, vibrator based, fitted with two head weighing system, with load cell, PLC controlled with pneumatically operated sealing system and all parameters to be set by colour touch screen and photocell.
3. Filling range: Should be able to pack 250gm, 500gm and 1 kg packets.
4. Speed: 6 to 8 pouches per minute.
5. Packing material: Heat sealable flexible laminated film.
6. Accuracy: Minimum  $\pm 4$  gms per pack.
7. Main bin capacity: 10 Kg or more.
8. Filling system: Weigh Filler (vibrator type)
9. Sealing system: sealing of all heat sealable pouches, by Hot bar and heat controlled by precise electronic control.
10. Sealing type: Centre Seal Intermittent Type
11. Main Frame, Stand and other Parts are made of mild steel & painted
12. All contact part: stainless steel 304/316 on M.S or C.I frame
13. Cover: In all moving areas.
14. Former Assy: Three Size former Assy & one Size Cup Filler Disk should be included.
15. Barcode generator and reader for the packed bags.
16. Electrical supply: 230V AC/ Single phase or 440V Three Phase. Machine with features like, machine stoppage on, if no film or no raw material on machine, Overweight rejection.
17. Raw material: food grade heat sealable packing sheets / polybags / containers required for taking out the pilot production after the installation & commissioning of the above machine(s) at site – 100 Kg.
18. Complete set of tools, jigs & fixtures required for installations (Anti-vibration mountings/ foundation bolts, etc.), tools for smooth operations & maintenance of machines such as hand tools, special tools including electrical circuit diagrams and electrical spares etc. should be provided
19. Spares to maintain the normal operations of machine for one year. Ensure the spares list include all the items/ parts those are required to be replaced during the course of normal running of machine, due to their wear.
20. The manufacturers of the quoted make of the product must be of National/International repute and having CE/ISO/BIS certificate
21. The tender will be acceptable only from the manufacturers or its authorized supplier
22. Local Service support should be available
23. Should include the cost to the equipment along with taxes and other charges for delivery up to ICAR-NRRI, Cuttack. Responsibility of custom clearances at airports/seaports will solely lie with the supplier firm. Institute will provide a copy of DSIR certificate, if requested.



24. The system quotation should include all needed specific site needs along with their description of such requirements for the quoted system except power distribution point availability that would be provided by the institute.
25. The system should be suited to Indian system of electrical inputs (220V/ 50Hz).
26. A warranty of minimum of 2 years should be provided for the above specifications. Warranty will strictly be applicable from the date of installation.
27. Payment will be made only after installation, demonstration and training. No advance payment will be made.
28. The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned.
29. Should operate under tropical Indian room conditions and up to 80% humidity.
30. Local Service support should be available for quick service support. Application support must be provided throughout the warranty period after installation on demand of ICAR-NRRI.
31. The equipment should be provided with all necessary accessories and spare parts to run without hindrance.
32. The bidder should quote for only those equipments for which hardware, software and spare parts support will be available in next minimum 7 years.
33. There should be minimum 5 installations of the instrument in Indian Public Sector or CGIAR research institutes. The list should be provided.
34. The original brochures with all details of the instrument quoted along with web address of manufacturer and web link to instrument brochure should be mandatorily provided with the technical bid. Without this document and web address, claim for 'matching of specifications' will summarily be rejected.
35. The instrument standards should comply with requirements of NABL accredited laboratories in terms of calibration standards and safety regulations.
36. It should comply with international safety and quality standards and valid documents in support of this must be submitted.
37. Should provide compliance sheet.



8

**Component : Handheld Rugged Android Tablet**

<b>Form Factor</b>	Hand Held
<b>Type</b>	Android rugged handheld
<b>Processor</b>	Octa-core cortex-A53 media Tek-6755
<b>Graphics</b>	700MHz
<b>CPU speed</b>	2.0 GHz
<b>OS</b>	Android Marshmallow
<b>RAM/ROM</b>	3GB RAM/max 32GMB flash
<b>Card slot</b>	1 x micro SDHC, 2 x micro SIM
<b>Display type</b>	IPS TFT
<b>Display size</b>	4.7" widescreen, 1280 x 720 pixel, 312 dpi
<b>Digitizer/pens</b>	Capacitive multi touch, onscreen camera button
<b>Keyboard</b>	PPT/SOS button
<b>Housing</b>	Polycarbonate/fiber glass, CNC metal frame
<b>Operating temperature</b>	5-131 °F (-15 - 55°C)
<b>Sealing</b>	IP68
<b>Size and weight</b>	6.0 x 3.2 x 0.67 inches; 225 gm
<b>Power</b>	4200Mah, 16 watt-hour LI Polymer
<b>Camera</b>	OV5670, 13 MP rear omni-vision OV13853
<b>On Site OEM Warranty (Year)</b>	1 year

## DETAIL SPECIFICATIONS

### Metal Storage Cabinet

#### A. Under Bench Suspended Cabinet-4 Nos

- It should be flushed face construction with doors and drawers in the same plane as cabinet face frame, without overlap. 1mm Thick CRCA IS:513'D'- Grade sheet used in construction  
Cabinet Size Specification  
Length- 600mm  
Depth- 550mm  
Height- 675mm(+/- 5 mm)standing height.
- **Load Carrying Capacity-** It should have overall load carrying capacity of under bench cabinet around 80 kg of UDL \*(40 kg on the shelf and 40kg on the bottom)  
Under Bench Configurations: 2 shutter, 1 Drawer
- **Shutter Construction:** The shutter & drawer facia will be bent to 16 mm thick square edges. Recessed PP Handle. Double skin Shutter mounted on spring loaded non- corrosive auto-hinges "HETTICH" German make 90° opening
- **Shelves:** 1 No. Adjustable shelves Horizontal type. Made of 1mm thick epoxy powder coated Prime Quality CRCA Sheet. Shelves load capacity 40 to 50 kg
- **Drawer:** Drawer made from 1 mm thick CRCA sheet Epoxy coated paint. It will be sliding by "HETTICH" – Germany make lockable ball roller. **18" length** Roller 55000 cycles test of Drawer(Forward & backward). Load carrying capacity 35- 40 kg. of UDL. Two numbers recessed PP handle Lock will be "ebco" make.

- **Hinges:** MS Cathode electrode deposition for corrosion resistant. The Hinges will be spring loaded 95° fully open able. Make "HETTICH" Germany
- **Paint :** - Epoxy powder coated Paint. Light Blue & White color. One Special lamination by Resin solution to protect corrosion of Acid, Alkali & Salty moisture in laboratory room

#### • B. Fixed Gape Closing Panel:-1 set

Size- 260mm width x 775mm height  
It will be made up 1mm thick TATA make CRCA Sheet

**Paint :** - Epoxy powder coated Paint. Light Blue & White color  
One Special lamination by Resin solution to protect corrosion of Acid, Alkali & Salty moisture in laboratory room

#### • C. Fixed Gape Closing Panel:-1 set

Size- 100mm width x 775mm height  
It will be made up 1mm thick TATA make CRCA Sheet

**Paint :** - Epoxy powder coated Paint. Light Blue & White color.  
One Special lamination by Resin solution to protect corrosion of Acid, Alkali & Salty moisture in laboratory room

#### • D. Door system Gape Closing Panel:-1 set

Size- 2800mm width x 775mm height.

It will be made up 1mm thick TATA make CRCA Sheet

PP handle, Lock facility. 9 Nos. Door  
**Paint :** - Epoxy powder coated Paint. Light Blue & White color One Special lamination by Resin solution to protect corrosion of Acid, Alkali & Salty moisture in laboratory room



10

### Technical Specification for Power Reaper

Application	Suitable for upland rice
Power KM186FS	9HP/7HP Air-Cooled Diesel Engine
Overall Dimension (mm)	1170 X 1200 X 820
Working Efficiency	0.3 – 0.53 Ha/Hr
Working Speed	50 – 60 m/min.
Weight (Kg)	230/239
Reaping Width (mm)	1200/1500
Stubble height (mm)	100
Reaping style	Side lay
Total loss	<1%



### Reaper tractor mounted Specifications

Number of star wheels	: 7
Diameter of star wheel (mm)	: 270-282
Effective cutter bar width (mm)	: 2000-2210
Guard spacing (mm)	: 70-80
Cutter bar stroke length (mm)	: 75-80
Stroke per minute	: 388-675
Size of belt conveyer (cm)	: 2-3 ply
Width of belt (mm)	: 55-60
Diameter of conveyor pulley (mm)	: 118-140
Cutter bar length (mm)	: 1600-2010
Weight (kg)	: 197-350
Power source (hp/kW)	: 35/26.5, tractor