



COLLEGE OF AGRICULTURAL ENGINEERING
DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY
PUSA (SAMASTIPUR) - 848125, INDIA



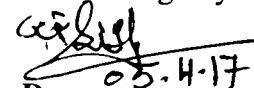
No. : 06...../CAE, Pusa/2016-17

Dated: 05/04/17

NOTICE INVITING TENDER

For supply and installation of agricultural equipments/ machines and laboratory instruments for testing of agricultural machines

Sealed tenders/ quotations are invited in two bid systems – (1) Technical Bid and (2) Financial Bid from manufacturers/ suppliers/ or their authorized dealers with sufficient work experience. The details can be downloaded from our website www.pusavarsity.org.in. The tenders/quotations should reach to the **Dean, College of Agricultural Engineering, Dr. Rajendra Prasad Central Agricultural University (Dr. RPCAU), Pusa (Samastipur), Bihar – 848125** on or before 29.4.2017 through registered post/ speed post only. If the last date is a holiday, next working day will be the last date.

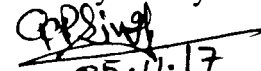

05.4.17
Dean

College of Agricultural Engineering
Dr.RPCAU, Pusa (Samastipur), Bihar – 848125

No. : 06...../CAE, Pusa/2016-17

Date: 05/04/17

Copy forwarded to Advertisement Manager, Hindustan Times, Muzaffarpur with a request to publish the above tenders/ quotation notice (size 8x8 cm approx) once in Patna and Delhi Edition of Hindustan Times, English Daily at the earliest on DAVP rates. The bill in duplicate alongwith the tear sheet of the advertisement may kindly be sent to the undersigned for payment.

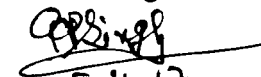

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College of Agricultural Engineering
Dr.RPCAU, Pusa (Samastipur), Bihar – 848125

No. : 06...../CAE, Pusa/2016-17

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Copy to O/I, ARIS Cell, Dr. RPCAU, Pusa (alongwith the soft copy and hard copy), with a request to place the tenders/ quotation notice and bidding documents on the University website: www.pusavarsity.org.in.


05.4.17
Dean

College of Agricultural Engineering
Dr.RPCAU, Pusa (Samastipur), Bihar – 848125

Notice Inviting Tender Document

for


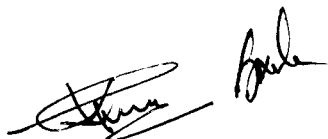
Supply of agricultural equipments/ machines and laboratory instruments for testing of agricultural machines

Scope of work :

“The NIT is in three part viz. Terms & Condition, Technical Bid and Financial Bid. Please go through this document and ensure compliance. The non-compliance of any one condition may make your offer invalid”.

A. Terms and Conditions

1. Sealed tenders are invited by the Faculty of Agricultural Engineering, Dr. RPCAU, Pusa (Samastipur), Bihar for the supply and installation of equipments for farm machinery testing centre.
2. The tender will be filled in two bid system i.e. ‘Technical Bid’ & ‘Financial Bid’. These bids should be kept in two separate sealed envelopes super scribing “Technical Bid for the supply of equipments (Group-.....) and “Financial Bid for the supply of equipments (Group-.....) separately. Both the above mentioned envelopes will then be put into one envelope and will be sealed by super scribing “Tender for the supply of equipments (Group-.....) NIT No. dated”.
3. The technical bid must contain specifications and catalogue, having clear photograph, of the equipment.
4. For the equipments/ machines of Group ‘A’, valid test report from authorized institutions/ agencies must be submitted with tenders/ quotations indicating good working of the equipment/ machine.
5. The firms interested to quote the rates for more than one group of equipments are required to put the tenders for each group in separate sealed envelopes and then send all the tenders in a big sealed envelope.
6. Rates quoted should be F.O.R. Dr. RPCAU, Pusa, Samastipur, Bihar; inclusive of all taxes and charges. The rates must include packaging, forwarding, transit and installation, insurance charge. The same should be insured against pilferage, theft, loss or breakage during transit by the supplier before dispatch is made. The responsibility in this respect will be of the **supplying firm** and not of the **University**.
7. Supply of the equipments/goods is acceptable on bill basis only.
8. Payment shall be made within 30 days from the date of receipt of equipments/goods in proper and satisfactory working conditions i.e. after successful **installation** and **demonstration**.
9. The payment will be made through RTGS/ NEFT. The firm must mention their account details i.e. name of account holder, account number, name of the bank with address, branch code, IFSC number etc.
10. Tender documents must be submitted consisting of NIT/ Tender form/ documents (technical and financial, terms and conditions of supply, special conditions if any. Schedule of quantities filled, completed and signed by tenderer).



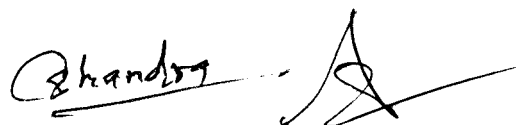
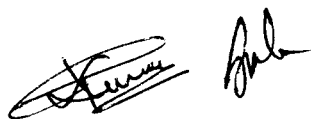
11. Authorized dealers/ distributor/ retailer must submit authorization certificate from manufacturer to sale a particular item.
12. Manufacturers will submit manufacturing license if they are participating in tender process.
13. Tender should be addressed to the Dean, College of Agricultural Engineering, Dr. RPCAU, Pusa, Samastipur, Bihar – 848125.
14. The Earnest Money Deposit (EMD) for equipments under **Group-A** and **Group-B** in the form of D.D. from Nationalized Bank should be Rs. 13100/- and Rs. 12960/-, respectively, drawn in favour of **Dean, College of Agricultural Engineering, Dr. RPCAU, Pusa** payable at **Punjab National Bank, Dr. RPCAU, Pusa**. Any tender without proper EMD shall not be considered and will be rejected solely on this ground.
15. The tender so submitted shall be governed by the GFR 2005. In terms of GFR 2005, tenderers may face legal action, if they amend tender, impair or derogates from the tender in any respect within the period of validity of this tender.
16. The supplier will have to attach a certificate to the effect that the equipments to be supplied will be of the same specification conforming to standards of the items specified.
17. The taxes which are not quoted in tender by the supplier will not be paid by the University under any circumstances.
18. The terms and conditions given by the supplier will not be binding upon the University. Rejection of conditional tenders shall be the sole discretion of the competent authority of the University.
19. The date/ period of delivery of equipments must be clearly mentioned in the technical bid/ financial bid document as applicable.
20. In cases of any dispute arising out in process of tender finalization, the matter shall be referred to the sole arbitrator who in such case will be the Vice-chancellor of Dr. RPCAU, Pusa and whose verdict shall be final and binding on both the parties.
21. The tenderer may be called for technical discussion by the tender committee duly constituted or nominated by the competent authority of this University.
22. The acceptance of tender will rest with the University who does not bind itself to accept the lowest tender and reserves itself as the authority to reject or partially accept, any or all the tenders received without assigning any reason.
23. The Faculty reserves the right to place order for the scheduled quantity and or part thereof.
24. Tenders are likely to be rejected in case it does not confirm to the specifications, terms and conditions etc. as laid down in tender document.
25. The validity of the commercial offer should be minimum 120 (one hundred twenty) days from the last date of the NIT submission.
26. The college/ university will not be responsible for any postal delay.
27. The tender must reach to the office of the **Dean, College of Agricultural Engineering, Dr. RPCAU, Pusa, Samastipur, Bihar – 848125** on or before dated **29.04.2017** through **registered post/ speed post** only. If the last date is a holiday, next working day should be the last date for receiving tenders.



B. Technical Bid

Please furnish the following information in this part so as to enable the panel of experts to decide about the qualifications of tender and the technical bid as well as necessary documents/ certificates from the appropriate authority as attached in support of statement.

1.	Application/ forwarding letter for the equipments to be supplied with brand name.	
2.	Name of the applicant/ supplier	
3.	Address	
4.	Earnest Money Deposit (EMD) with full details of Demand Draft	
5.	Status of the Applicant/ supplier (Whether Manufactures/ distributors/ authorized dealers of Reputed firms) certificate must be submitted from appropriate authority)	
6.	Manufacturing license No. with Date, if any	
7.	VAT Registration No.	
8.	PAN No.	
9.	ISO/ ISI Certificates, if any	
10.	Indicate if you are on DGS&D. Rate Contract or any other rate contract with Government Sector	
11.	Annual Turn Over records, for the last three years	
12.	Details of clients (attach list of users)	
13.	Indicate after sales service facilities offered in Bihar (Service station, technical personnel etc.)	
14.	Rate validity period of tender	
15.	Technical specifications of equipments (attach catalogue)	



C. Financial Bid

1.	Forwarding letter in respect of equipments to be supplied	
2.	Name of the tenderer/ supplier	
3.	Address	
4.	Status of the applicant (manufacturer/ supplier/ dealer etc.)	
5.	Mode of supply Direct/ through dealer/ distributor, if applicable	
6.	Basic price of equipments (INR) item-wise separately 1. 2. 3. - -	
7.	Applicable taxes with name and rate	
8.	Discount offer to institution, if any	
9.	Price inclusive of all taxes on F.O.R. Destination in INR with installation and other charges, if any, both in figure and words	

CHECK LIST

1. Earnest money deposit (EMD)
2. Covering letter
3. TIN/TAN
4. VAT
5. ISO/ISI certificate
6. Catalogue
7. Annual Financial Statement
8. Service Network in Bihar
9. Authorization/ Manufacturer license
10. Test report (as applicable)



CERTIFICATE OF PROPRIETARY

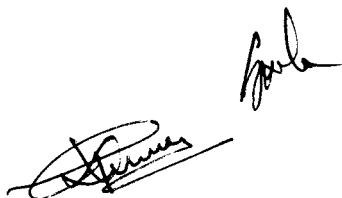
TO WHOM IT MAY CONCERN

Certified that the (Name of item) is the sole proprietary item which is manufactured only by us in *India/abroad and the items/ product is not manufactured in *India/abroad by any other manufacturer under other brand name.

Dated

*Strike out not applicable

Signature
Designation
Seal of the firm





DEPARTMENT OF FARM MACHINERY
COLLEGE OF AGRICULTURAL ENGINEERING
DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY
PUSA (SAMASTIPUR) – 848125, INDIA



(Group – A)

List of agricultural equipments/ machines with specification



S. No.	Name of equipments/ machines	Desired specifications
1.	Power harrow (Tractor operated)	Mode of operation : PTO operated Power compatibility : 40 hp and above Working width : 4 feet No. of rotors : 04 No. of blade/ rotor : 02 Weight : 450 – 470 kg Blade thickness : 10 ± 2 mm Blade length : 10 – 12 inch Material of blade : Boron steel Preference of make : Shaktiman
2.	Post hole digger	Mode of operation : PTO operated Auger RPM : 170 ± 5 Depth of operation : 30 ± 5 inch Dia of auger : 9 inch and 12 inch Preference of make : Shaktiman Weight : 175 – 190 kg
3.	Mobile shredder (Tractor operated)	Mode of operation : PTO operated PTO RPM : 540/1000 Power compatibility : 40 hp and above No. of row : 01 No. of Cutter disc : 02 Output capacity : 60 – 80 q/h (Green fodder) Blade sharpening system : Inbuilt Weight : 580 – 620 kg
4.	Fodder chopper- cum-loader (Tractor operated)	Mode of operation : PTO operated Power compatibility : 40 hp and above Feeding system : Conveyor belt type Dia of drum : 32 – 36 inch No. of blades : 02 – 04 Rotor RPM : 750 Output Capacity : 80 – 100 q/h
5.	Tall crop vertical conveyor reaper (Tractor operated)	Mode of operation : PTO operated Hitching system : Tractor front mounted Cutter bar length : 7 feet No. of conveyor belt : 4 Pulley dia : 8 – 10 inch Mounting : Tractor Front mounted Weight : 300 – 350 kg



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6.	Fodder harvester (Self propelled)	Engine : Diesel operated Engine power : 8 – 11 hp Working width : 1.12 – 1.25 meter No. of gears : Forward : 3–4, Reverse – 1 Height cutting above ground : 2 –5 cm Field capacity : 0.3 – 0.5 ha/h Weight : 280 – 320 kg Preference of make : BCS
7.	Tractor operated chaff cutter	Mode of operation : PTO operated Power compatibility : 40 hp and above Feeding system : Conveyor belt type No. of blades : 04 Material of blade : High carbon steel Blade thickness : 4 mm Output capacity : 20 – 25 q/h (paddy straw) Weight : 800 – 900 kg
8.	Power weeder with sprayer attachment (Self-propelled)	Engine : Diesel operated Engine power : 8 – 11 hp Gear : Front – 3, Rear – 2 Drive : Direct PTO operated PTO rpm : 950 – 1000 Rotavator width : 55 – 70 cm Weight without rotavator : 110 – 130 kg
9.	Hydraulic trailer	Body size (L×W×H) : 10'×6'×2' Axle : 4 inch solid Length of axle : 6.5 feet Main channel : 150×75×6 mm Body metal sheet : Bottom–4mm, Side–3.15 mm Paint : Antirust enamel paint Tyre size (New) : 9.00 × 20 Hydraulic cylinder : 15 MT Overall weight : 1350 – 1400 kg



DEPARTMENT OF FARM MACHINERY
COLLEGE OF AGRICULTURAL ENGINEERING
DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY
PUSA (SAMASTIPUR) – 848125, INDIA



(Group – B)

List of instruments with specification

S. No.	Name of equipments/ machines	Desired specifications
1.	Digital stop watch	<ul style="list-style-type: none">▪ Stopwatch 1/100 second▪ Time Display: Hour, Minute and Seconds▪ Calendar Display: Day, Date & Month▪ Alarm
2.	Infrared thermometer	Temperature Range : -18 to 500°C Response time : 500 m Sec Emissivity : Pre-set at 0.95 Accuracy : $\pm 2\%$, or $\pm 2^\circ\text{C}$ ($\pm 3^\circ\text{F}$) whichever is greater Typical Distance to Target (Spot) : Up to 1.5m Laser Sighting, Holster Option
3.	Barometer	Working temperature: : 0°C to 55°C (32°F to 131°F). Data field: : 795 - 1050 m b/h Pa (23.48 - 31.01 in Hg). Accuracy: : ± 7 m b /h Pa Conditions for the accuracy : 100 to 2500 m height. Normal battery voltage
4.	Hygrometer	Measurement area : $-20 \dots +60^\circ\text{C}$ Temperature : 1 ... 99 % humidity Air humidity Resolution : 0.1°C Temperature Air humidity : 1 % humidity Accuracy : $\pm 1^\circ\text{C}$, ± 3 % humidity (from 35 ... 75 % humidity) Temperature Air humidity : otherwise ± 5 % humidity Room temperature : every 15 seconds test interval Transmission area : up to 100 meters (open field) radio outdoor sensor Max. number of data sets : 50,000 Max. number of radio transmitters : 8 Outputs : 2x switch outputs (max. 24 V DC / max. 400m A) Casing : Plastic Power supply : 3×1.5 V AA batteries

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5.	Digital contact tachometer	Range : 0 to 10,000 (or above) RPM Resolution : 0.1 RPM up to 1,000 RPM/1 RPM above 1,000 RPM. Display : 5 digits, LED Accuracy : $\pm 0.05\%$ +1 digit Sampling Rate : 1 Second Battery Indicator : Low Battery Indicator Memory : 'Last', 'Max' & 'Min' memorized automatically for 120sec, can be recalled Power Source : 4Nos-1.5V Batteries, Size AA Standard Accessories : Male rubber contact tip -2pcs Female rubber contact -2pcs Peripheral Contact rubber tip -1pc. Padded Carrying Case -1pc.
6.	Digital non contact tachometer	Range : 0 to 1,00,00 RPM Resolution : 01RPM up to 1,000RPM; 1 RPM above 1,000 RPM Display : 5 digits, LED Accuracy : $\pm 0.05\%$ +1 digit Sampling Rate : 1 Second Low Battery : Indication Memory : 'Last', 'Max' & 'Min' Measuring Distance : 75 to 300 mm Power Source : 4Nos-1.5V Batteries, Type R6(UM3) Size AA Standard Accessories : Padded Carrying Case
7.	Rockwell cum brinell hardness testing machines	Test Loads (Kgf) : 60, 100, 150 (Rockwell) 187.5, 250 (Brinell) Initial Loads (Kgf) : 10 Max. Test Height (mm) : 295 Depth of Throat (mm) : 148. Max. Depth of Elevating Screw Below Base (mm) : 295 Size of Base (mm) : 475 x 220(Approx.) Machine Height, (mm) : 865-1000
8.	Digital electronic balance	- 0-1 kg
9.	Platform type balance	- 0-200 Kg
10.	Spring balance	- 0 - 10 and 0 - 2 kg, 0-50kg

11.	Hot air oven	<p>Temperature Range : 5°C above ambient to 250°C maximum Temperature Accuracy : +/- 2°C Temperature Uniformity : +/- 1°C Controls : PID Controller Temp Display : LED Display Heating Element : Nichrome wire / Kanthal A1 Safety device : Over temperature protection, Electric leakage breaker, Temperature safety as per DIN 12880 Class 3.1</p> <p>Exterior Chamber : MS powder coated Interior Chamber : Stainless steel Insulation : Mineral Wool Doors : Solid doors w/ silicone rubber gasket & lock Shelves : 2 – 3 Stainless steel shelves (Removable) Air Circulation : Forced air circulation Power Supply : 220 Volts</p>
12.	Digital Soil Moisture Meter	<p>Display LCD size : 28mm×19mm Measuring Range : 0-50 % moisture content on soil Accuracy : +/- (5%+0.5d) Resolution : 0.1% F.S. : @23+/-5, Full scale 2 pins moisture electrode</p> <p>Data hold freeze the display reading Sampling time approx. 0.8 second Operating temperature : 0 – 50 °C Operating humidity less than 80-90% RH Power supply DC 1.5 V battery, 4pc</p>
13.	Grain Moisture Meter	<p>Grains : 22 Species Measuring Range : 0~50 % Accuracy : +/- (0.5n%+0.5) Resolution : 0.1 Display : 4 Digits, 10 mm LCD, With Color Coded LED Indicator LED Indicator : Different color indicator indicating different range of moisture Calibration : Automatic Battery Indicator : Low Battery Indicator Data Output : USB, RS-232, Bluetooth Operating Conditions : Temperature: 0~50 %°C, Humidity: < 90%RH Power Supply : 4*1.5V AAA Size Battery</p>
14.	Dynamometer – Spring type	– 0 – 1000 kg with digital display unit
15.	Hydraulic dynamometer	– 0 – 3000 kg
16.	Fuel consumption measurement Device	– Measurement range 5 to 1000 ml – Digital display – Suitable to fit to fuel supply tube
17.	Bulk density apparatus	– V shaped funnel – Apparent Density – Measuring cup 400- 450cm ³ – Bulk Factor – Stand with funnel shut off – Tests that can be conducted are: – Pourability

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18.	Speedy soil moisture meter	Moisture range : 0-20% Gauge divisions : 0.2% Standard weight on balance : 5-20g
19.	ISI soil test sieve	Sieve Material : Brass, or stainless steel Sieve Diameter : 3"6"8"10"12" 200mm 300mm Frame : Brass , stainless steel ,etc. Height (full) : 1-3/4" -- 2-5/8" Aperture shape : Square Mesh opening/ Aperture : 5-500mesh 10-200µm

