



COLLEGE OF AGRICULTURAL ENGINEERING
Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur 482004 (M.P.)

1st e-Tender

E-tender invited for the supply of items i.e. 1) Computerized Soil bin set-up for testing of tillage and traction equipment & tools 2) Rotary Torque sensor for PTO shaft of Tractor 3) Human energy meter 4) Data logger 5) Mechanical Vibration meter 6) T.D. Baler etc, from manufactures or their authorized dealers or agents. Documents are available on portal, www.mpeproc.gov.in. and information on www.jnkvv.org. Purchase of on-line tender from: 12-09 -17, 10:30 am to 02-10-17 upto 05:00 pm. Pre bid submission at University on 18-9-2017 at 10.00 am, upload revised specification (if required) on 20/09/2017, Submission of on-line tender upto 03-10-2017, 11:55 pm. Submission of Technical bid to Office: 09-10-2017 upto, 3pm. Opening of Technical Bid: 09-10-2017 upto 3.00pm and Financial Bid open on:18-10-2017, 3.00pm.

Dean

JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA, JABALPUR

e- TENDER DOCUMENT

Important Dates

S. No	Agril Engg. College Stage	Bidder's Stage	Start		Expiry		Envelopes
			Date	Time	Date	Time	
1	-	Purchase of Tender - Online	12.09.2017	10:30 am	02.10.2017	05:00 pm	
2	Pre bid presentation		18.09.2017	10.00 am			
3	Upload revised specification (if required)		20.09.2017				
4	-	Bid Submission - Online	--	--	03.10.2017	3.30 pm	
5	Mandatory Submission (Envelop A) to Office of Dean, College of Agril. Engg. JNKVV, Jabalpur		--	--	09.10.2017	03:00 PM	
6	Technical Bid Open (Envelope- A)	-	--	--	09.10.2017	03:00 PM	A
7	Financial Bid open	-	18.10.2017	3:00 PM			B

DEPOSITING THE BIDS:

The bids will be submitted through on-line mode of www.mpeproc.gov.in. However, certain documents would be required to be submitted physically to our office. Details are as follows:-

(a) On-line Submission:

(i) Cover 1 - Technical Bids submission with the following documents:

- (a) Detailed technical write-up highlighting the model Name/No, features of the equipment offered and / or Technical literature/manuals.
- (b) Certificate for acceptance of terms and conditions of tender enquiry.
- (c) Original equipment manufacturer (OEM) certificate or authorized dealership/distributorship certificate as applicable.
- (d) TIN number/PAN Number/Certificate.

- (e) Client list/ List of users.
- (f) Business Registration Certificate.
- (g) Scanned Copy of EMD or exemption proof, if exempted.
- (h) Compliance Certificate. Certificate of clause by clause compliance of specifications as mentioned in tender.

(ii) Commercial/Price bid will consist of following:

- (a) Commercial/Price bid – to be submitted on-line

(b) Physical Submission:

Documents to be submitted in hard copy: Following documents shall be submitted physically in a sealed envelope so as to reach prior to bid submission closing date & time. The responsibility to ensure this lies with the Bidder.

- (a) All the documents submitted On-line in Cover 1.
- (b) EMD as applicable or proof of exemption **(in original)**.
- (b) Tender fee receipt copy (as applicable).
- (c) Tender conditions Acceptance Certificate in form of downloaded Tender documents duly stamped and signed (other than price bid).

General Terms and Conditions:

1. Only the manufactures and their authorized distributors or dealers or agents need to submit their tender. The authorized dealers should furnish a certificate from the manufacturer for their dealership.
2. No person or firm shall submit more than one Tender for the same item. No offer should have more than one model quoted; in case of more than one alternate offer only the first option will only be considered.
3. It is mandatory to provide all the relevant information in **Annexure I**.
4. Broad-based specifications of equipment/items/systems/works etc. are given in **Annexure II**. The tender should also take note of the remarks, if any, given there in.
5. a. Tender can be **purchased on-line** from www.mpeproc.gov.in – **Start Date: 12.9.2017, 10.30 am to 02.10.2017, 05:00 pm.**
 - b. **Pre bid submission of specification of items may be discuss with committee of University by the representative of company/ suppliers if required** on 18.09.2017 at 10.00 am at the meeting hall of Director Research Services, JNKVV, Jabalpur.
 - b1. **Upload revised specification (if required) on 20-09-2017.**
 - c. Bids can be **submitted on-line** on www.mpeproc.gov.in **upto 03-10-2017, 11:55 pm**

- d. **Mandatory Submission (Envelope A)** containing all original documents as required for technical bid including original EMD must be submitted in sealed cover to the **DEAN, COLLEGE OF AGRICULTURAL ENGINEERING, JNKVV, ADHARTAL, Jabalpur 482004** so as to reach on or before **dt.09-10-2017, 3:00 PM.**
 - e. Belated tender due to postal or any other delay will be rejected.
 - f. **Technical Bids (Mandatory Submission (Envelope A))** will be opened on **09-10-2017, 3.00 pm**
 - g. **Financial Bids** of qualified bidders will be opened on 18-10-2017, **3.00pm.**
 - H. The tender for each item should be sent separately. The main duly sealed envelope should super scribe TENDER FOR THE ITEM No_____ (NAME OF THE EQUIPMENT) DUE on.....
FOR FMPE DEPARTMENT.
 - I. If offers for more than one item are clubbed together, tender will be rejected.
 - j. The tender offers should have a validity of 180 days or more from the due date. The tenders will be valid for 6 months from the date of opening.
 - k. J.N. Krishi Vishwavidyalaya reserves the right to extend the opening due date and or the date of opening the tenders.
 - l. All the leaflets in the offer should be marked with signature and seal of authorized person.
6. a. Preferably rate should be quoted in Indian Rupees.
- b. The rates quoted should be for single complete unit with F.O.R. delivery at JNKVV, Jabalpur. The rates quoted should be inclusive of packing and forwarding charges/loading/unloading/handling charges/freight/full risk coverage insurance, etc. In case of imported goods all the expenses towards custom duty, clearing charges and transportation with insurance will be borne by the firm/tenderer and they must quote the rates FOR, JNKVV, Jabalpur.
- c. Excise duty/sales tax/VAT/Custom duty (with and without concession certificate) and other levies, if any should be shown separately and the total price of each item should be worked out incorporating the same.
- d. The institute will provide the custom duty exemption certificate if necessary for the imported instrument on arrival of goods at the port.
- e. Any other charges, if any, should be shown separately for each item and each sub-item.
- f. Prices for the main item and accessories only should be given separately. This is necessary to workout prices of a desired configuration.
7. The tender should be accompanied by detailed printed technical literature with specifications, make and model number of each item and each sub-item quoted in the tender. Specifications given in the offer must match to the website and/or printed technical literature or better otherwise the offers shall be rejected.
8. All losses during transit will have to be made good by the tenders at his cost within a period of 15 days.

9. The tenders must provide original guarantee/warranty on manufacturer's letter head of satisfactory functioning of the equipment/system and free service including free replacement of parts for a period of at least **3 years** from the date of successful and satisfactory installation of the equipment/system.

10. **Tender Document Cost:**

The details of tender document can be downloaded from website (www.mpeproc.gov.in) and tender document cost Rs **1000=00 only** should be submitted online on the portal.

11. **EMD:**

The "Technical Bid" of each item must be accompanied by Earnest Money Deposit (EMD) as shown against each item in Annexure-II in the form of Crossed Bank Draft/Pay Order/ Banker's/ Manager's/FDR/TRD of any Nationalized Bank made in favour of "DEAN, COLLEGE OF AGRICULTURAL ENGINEERING, JNKVV, Jabalpur". Without the earnest money in the above form, the offers will be rejected. The EMD in the form of Firm's Cheque will not be accepted and the offer will be rejected.

12. **Payment Terms:**

The standard terms and conditions of payment is in full only after the successful installation, demonstration and training to the satisfaction of JNKVV authorities. Payment to tenderer will be made after deducting VAT at source and for which necessary certificate will be issued

13. Please quote maximum discounted price, as no further negotiations will be made.
14. Complimentary items/gifts offered will not be taken into account for calculating the cost of the item.
15. The offer must mention make, model all the specifications of all the item clearly. The company must enclose original printed literature/catalogue/manufacturer's web-site showing detailed technical specifications required . A folder showing many instruments without detailed technical specification, or tailor made literature mentioning "yes" or "as per your specifications" for the specifications asked for, will not be considered. Specifications given in the offer must match to the website and / or printed technical literature otherwise the offer shall be rejected.
16. Firm must provide a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance, supported by technical literature with clear reference. This statement must be signed, with the company seal, by the Tenderer for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the offer.
17. If so desired by JNKVV, the bidders shall have to enter into an agreement.
18. Any deviation, variation of non-compliance of the terms and conditions by the tenders shall be considered as a breach of contract and JNKVV, reserves the right to forfeit the amount of earnest money and/or security deposit in part or in full and take action as per legal

- arrangement.
19. Any judiciary matter shall be in Judiciary of Jabalpur only.
 20. Tender will not be considered if the firm does not supply a copy of the TIN & PAN allotted to it. PAN of the owner or any other persons will not be accepted.
 21. J.N. Krishi Vishwa Vidyalaya reserves the right to accept or reject any or all offers in full or in part without assigning any reason (s) therefore. It also reserves the right to place and order wholly or in part with one or more than one firm as they may be convenient to JNKVV.
 22. The tenders shall have to give an undertaking that the terms and conditions as mentioned above in this tender are acceptable to the tenderers (in Annexure I)

Date:

**DEAN
COLLEGE OF AGRICULTURAL ENGINEERING**

Annexure - A

KEY DATES

S. No	Agril Engg. College Stage	Bidder's Stage	Start		Expiry		Envelopes
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Original term deposit receipt of earnest money deposit, demand draft for the cost of bid document and affidavit shall be submitted by the bidder so as to reach the office as prescribed in Bid Data Sheet at specified time and date **i.e 09.10.2017 at 03:00 PM at Office of Dean College of Agricultural Engineering, J.N.K.V.V., Jabalpur.**

Annexure I

DEAN, COLLEGE OF AGRICULTURAL ENGINEERING, JNKVV, JABALPUR 482004

SUPPLEMENT / CHECK-LIST TO BE PROVIDED WITH TECHNICAL BID

ITEM No. _____ NAME _____

S. No.	Information required	Proposed
1.	Make of main item	
2.	Model of main item	
3.	Name of manufacturer of Main Item	
4.	Country of origin of main item	
5.	Make and model of sub item I (if any)	
6.	Make and model of sub-item II (if any)	
7.	Make and model of sub-item III (if any)	
8.	Delivery within (days)	
9.	Payment terms	
10.	Order to be placed on	
11.	Guarantee/Warrantee	
12.	Installation Charges (if any)	
13.	Validity (at least 180 days)	
14.	Delivery charges(if any)	
15.	Insurance charges(if any)	
16.	Training charges(if any)	
17.	FOR: JNKVV, Jabalpur?	

18.	List of current users (Attach, if any)	
19.	Certification of satisfactory working of the equipment (Attach, if any)	
20.	Company Certification (ISO, etc.)	
21.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
22.	Whether manufacturer / authorized distributor /dealer/ agent? (Attach certificate)	
23.	Technical literature in original (Attach, if any)	
24.	Earnest money attached with financial bid (DD No., Bankers name, date etc.)	
25.	Situations of Authorized service centres/ service personals etc.	
26.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration etc. (Enlist)	
27.	TIN and PAN allotted (Attach a copy, if any)	
28.	Any other relevant information	

DECLARATION

The terms and conditions as mentioned in the tender are acceptable to us.

Annexure II

**DEPARTMENT OF FARM MACHINERY & POWER ENGINEERING
COLLEGE OF AGRICULTURAL ENGINEERING
JNKVV, JABALPUR, M.P. 482004**

1	Soil Bin set-up for testing of farm equipment, implement, tools and instrument under controlled conditions. EMD = Rs. 30,000/-	No.	Particulars	Brief Description
		1	Soil Bin controlled Room for Instruments, Control Panel & Computerized Data Acquisition & Analysis System + Soil bin	Size of controlled room (LXHXB) Navapan with aluminum, false roofing flooring & glass window and AC wiring per sq.m. (Soil bin set - up facilities may develop inside of the existing Laboratory). The size approx. 3050 mm x 3050 mm x 2400 (LxBxH) Size of soil – 18 x 2m x 1.5 m (LxHxB) above lab floor
		2	Soil Processing Trolley	Consists of : Basic Structure of the Trolley capable adapting Accessories as following: <ul style="list-style-type: none"> • Rotary tiller with induction Motor Arrangement • Leveler • Compaction Roller • Water sprinkler with water tank • Position for fitment of Hydraulic power pack
		3	Test Trolley	Consists of : Test Trolley capable adapting Accessories as following: <ul style="list-style-type: none"> • Movable Frame for EORT mounting & implement testing. • Movable Frame for Cone Penetrometer mounting • 3/5 HP variable speed electrical motor with necessary chain and sprocket arrangement for rotary tool testing.
		4	Hydraulic control unit	Electrical motor (5HP 3 phase), hydraulic pump (Gear type, Flow capacity-6 LPM, 150 bar pressure). Pressure Gauges, Level Gauges, Pressure relief valve (0 to 100 bar,) Direction control valve (4 bank 6 port, 3 way flow control valve) Hydraulic cylinder (Double Acting type) 3 Nos- Stroke-150mm, 40mm, ID-25mm

		3 Nos- Stroke-200mm, 40mm, ID-25mm
5	Rope Drum, Wire Rope & Pully for trolley movement.	Two wire Ropes 40 m & 22 m long for forward & reverse trolley movement, other necessary accessories
6	AC motor, Controller & Control Panel	AC motor (10 HP, 1440 RPM) of reputed make Controller & Control Panel (Control Panel will have control Technique or equivalent AC variable speed Drive Suitable for 10 HP motor, MCB, Line Choke, Mains isolation Contactor, Relays, Push Buttons, Indicating Lamps etc. as required)
7	Inducting Motor with controller for rotary tiller on processing test trolley	5 HP variable speed electrical motor of reputed make with start and stop from external control panel and controller for testing rotary tillage equipments.
8	Induction motor with controller for Disk plow on Test Trolley	3 HP variable speed electrical motor of reputed make with start and stop from external control panel and controller for testing rotary tillage equipments.
9	Wiring of electrical & instrumentation devices	Electrical wiring <ul style="list-style-type: none"> • Electrical wiring from 3 phase mains to control panel. • Electrical wiring from control panel to 10 hp AC motor for driving the trolleys. • Electrical wiring from control panel to rotavator motor& hydraulic power pack mounted on processing trolley is required. These 4 core (2 numbers) cable needs to be carried over suspended wire rope throughout entire span of soil bin.
10	Force transducer/load cell	Load cell/transducer (capacity-5kN) Load cell/transducer (capacity-2kN) Should measure Fx, Fz & Mx (3 components of force acting on tillage implements, strain gauge (grid length – 5/10mm, Resistance-350 ohm)
11	Data Acquisition system	16-channel, 16 x voltage (100mV,10V), 16 x current (20 mA), 16 x IEPE (current-fed piezos)
12	Cone Penetrometer with Force Transducer	5 kN Capacity in Tensile & Compressive force, Accuracy Class: 0.5 with calibration chart.
1	Torque	Non Contact type, Nominal Torque:200 Nm,

		3	Transducer	Nominal Speed: 3000 RPM, Capable of measuring both Torque & Speed simultaneously Accessories: 2Nos- Couplings (Motor End and Gear Box end Bore diameter- Min. 24 mm Max 56.mm 1 No- Transducer connection cable : length – 10mm Free end) 1 No. – Mains power supply unit: input Power 230 VAC, 50 60 Hz output-14.4 VDC/300mA 1 No- Terminal Box 1-VK20A 1 No- Connecting cable, D sub 15p, free ends 1.5 m 1 No.- Connecting Cable , D sub 5 p, free end , 1.5 m
		1 4	Proximity switch	PNP type sensing rays 15mm, outer diameter 30 mm, supply voltage: 10-35 V DC PNP type sensing rays 15m, Target sensing: Ferrous metal Size: M15, Sensing Distance:15 mm
		1 5	Inductive displacement transducer	Range: 0-200 mm with electronics displacement sensor, range:200mm plunger, 3m cable to the evaluation device, IP67, 90 deg, Linearity deviation: 0.2% , 0.5 to 10 v electronic, 3m cable with free ends
		1 6	Rotary encoder	Power supply voltage 5 VDC-5% to 12 v + 10% ripple (p-p): 5% max Resolution (pulses/rotation)100, 200,360,500 Output configuration NPN open-collector output
		1 7	Power supply	Out voltage & Current : DUAL OUTPUT, Voltage 0-32v current-0-2A Metering:3 digit DPM Meter Accuracy: ± 3 counts Stability: total drift within 8 hours, after warm-up < $\pm 0.2\%$ plus 5mV in constant voltage mode < $\pm 0.5\%$ plus 5mA in constant current mode with constant line, load and ambient temperature conditions Operating temperature: 0;-50°C Line voltage : 230 V AC $\pm 10\%$ 50Hz , single phase
		1 8	Digital tachometer	Non contact tachometer (speed range 2.5-99,999 RPM) contact tachometer (speed range 0.5-19,999 RPM) surface speed (0.05 – 1,999.9 M/Min)
		1 9	Moisture meter	With analog output

		20	Strain gauges	<p>Grid length- 5/10 mm Resistance – 350 ohm Gauge factor 2.1± 1%</p> <p>Inclusive of strain gauge accessories (as required for 50 strain gauges):</p> <ul style="list-style-type: none"> • Adhesive for strain gauge mounting • Connecting terminals for strain gauges • Strain gauge pasting kit-1 set.
		21	Desktop computer with laser jet printer and UPS	<p>Core i-7 desktop computer (8GB RAM, 1 TB HDD) with colour Inkjet Printer and Monochrome Laser printer, Monitor: 32" wide LED TFT, Keyboards, optical mouse, Windows 7/8/8.1 Professional pre-loaded, Preloaded software, Antivirus (latest version), UPS with 1 hour backup and all necessary software and accessories.</p>
			Warranty:	<i>3 years hardware and service warranty at JNKVV, Jabalpur.</i>