

**JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA
JABALPUR (M.P.) 482004**

E- Tender Document

ITEM RATE TENDER

Tender No.: IPRO/CAE/FMPE/RKVY/2017-18/101

Dated: 26.02.2018



**COLLEGE OF AGRICULTURAL ENGINEERING
JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA,
JABALPUR**



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

3rd e-Tender

E-tender invited for the supply of items i.e. 1) Tractor Data Acquisition System Data logger, 2) Dynamometer (25 kw) for testing engines of self propelled machines with accessories, 3) Data Logger with Soil moisture Sensor, Temperature Sensor & Humidity Sensor and 4) Portable Health Monitoring System from manufactures or their authorized dealers or agents. Purchase of on-line tender from 28-02-18, 10:30 am to 07-03-18 upto 11:55 pm. Pre bid submission at University on 12-03-2018 at 11.00 am, upload revised specification (if required) on 14-03-2018 at 11:00 am, Submission of on-line tender upto 16-03-2018, 11:55 pm. Submission of Technical bid to Office 20-03-2018 upto, 3:00pm. Opening of Technical Bid: 20-03-2018 upto 3.30pm and Financial Bid open on: 24-03-2018, 11.00am. Documents are available on portal, www.mpeproc.gov.in. and information on www.jnkvv.org

Dean

For any technical support please contact tollfree number – [18002588684](tel:18002588684)

For Quick Response Contact: Toll free No: 18002588684

Mail id: eproc_helpdesk@mpsdc.gov.in

Support timings: Monday to Saturday from 10:00 AM to 7:00 PM

For Escalations/Complaints please contact: eproc.esc@gmail.com

For Quick Response related to e payment refund cases only,

Contact: 011 49424365

Mail ID: mpepaymenthelpdesk@gmail.com

Support timings: Monday to Saturday from 9:00 AM to 6:00 PM

SOLUTION PROVIDER

Tata Consultancy Services & Antares Systems Limited

e mail ID : eproc_helpdesk@mpsdc.gov.in

Toll free no. : 18002588684

MPSEDC Helpline Numbers: 08517936082, 07566660425, 08989685065

Any updation /modification/further call, if required and any other changes in respect of above tender will only be available on www.jnkvv.org and www.mpeproc.nic.in

Please visit www.mpeproc.gov.in and www.jnkvv.org for regular updates

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	28.02.2018	10:30 am	07.03.2018	11:55 pm	
2	Pre bid presentation		12.03.2018	11.00 am			
3	Upload revised specification (if required)		14.03.2018	11.00 am			
4	-	Bid Submission - Online	--	--	16.03.2018	11.55 pm	
5	Mandatory Submission (Envelop A) to Office of Dean, College of Agril. Engg. JNKVV, Jabalpur		--	--	20.03.2018	03:00 PM	
6	Technical Bid Open (Envelope- A)	-	--	--	20.03.2018	03:30 PM	A
7	Financial Bid open	-	24.03.2018	11:00 AM			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:

- Detailed technical write-up highlighting the model Name/No, features of the equipment offered and / or Technical literature/manuals.
- Certificate for acceptance of terms and conditions of tender enquiry.
- Original equipment manufacturer (OEM) certificate or authorized dealership/distributorship certificate as applicable.
- TIN number/PAN Number/Certificate.
- 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: 28.02.2018, 10.30 am to 07.03.2018, 11:55 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 12.03.2018 at 11.00 am at the meeting hall of Director Research Services, JNKVV, Jabalpur.
 - b1. **Upload revised specification (if required) on 14-03-2018.**
 - c. Bids can be **submitted on-line on www.mpeproc.gov.in upto 16-03-2018, 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. 20-03-2018, 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 **20-03-2018, 3.30 pm**
 - g. **Financial Bids** of qualified bidders will be opened on 24-03-2018, **11.00am.**
 - 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 on-line 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
			Date	Time	Date	Time	
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5	Mandatory Submission (Envelop A) to Office of Dean, College of Agril. Engg. JNKVV, Jabalpur		--	--	20.03.2018	03:00 PM	
6	Technical Bid Open (Envelope- A)	-	--	--	20.03.2018	03:30 PM	A
7	Financial Bid open	-	24.03.2018	11:00 AM			B

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 28.02.2018 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/Warranty	
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**

Tractor Data Acquisition System Data logger EMD-20000/-	Data logger	32isolated or 48 common referenced analog inputs to be used in many combinations: Universal channel capability allow to connect the any sensor on any channel
	Sampling Rate	40Hz at least 32 bit of resolution
	Accuracy	0.1%
	Analog input channel voltage	At least $\pm 50V$
		Should have various inbuilt signal conditioning
	Communication Interfaces	Ethernet, RS 232, USB
	Capability	To support wireless communication with GSM, PSTN modems(external)
		Dual Channel isolation technology
		2-serial smart sensor ports
		SDI-12 (Multiple Networks)
	Data Transfer	FTP for Automatic data transfer & up to 48 analog
	Internal Storage Capacity	Minimum capacity for internal storage should be 4GB least 16GB using USB flash drive
	Operating Temperature range	-45°C to 70°C
	Display	Built in LCD display
	Included accessories	Software suite CD, Ethernet cable, screw driver, AC Adopter Sensor: Tractor engine speed sensor 0 to 2800rpm,
	Fuel consumption sensor	Sensor for speed of tractor 0 to 40kmph Fuel consumption sensor: liter per hour and liter per hectare
	Wheel slippage sensor	0-20% with accuracy 0.01
	PTO Speed Sensor	0-1500rpm
	Drawbar Pull Transducer range	50 KN with accuracy 0.001
	PTO Torque sensor	Range 20kNM with accuracy 0.001
	Output	1.5mV/V
	Area Coverage	Hectare per hour ability to calculate upto 10 hours basis
	Auto hitch Dynamometer	3 point Auto hitch Dynamometer: range 600KN each with accuracy 0.001
	Power Supply for sensors, mounting for sensors , Distance travel	0-500km
Warranty :3 years hardware and service warranty at JNKVV, Jabalpur		

**JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA
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E- Tender Document

ITEM RATE TENDER

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Dated: 26.02.2018



**COLLEGE OF AGRICULTURAL ENGINEERING
JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA,
JABALPUR**



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

3rd e-Tender

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(a) On-line Submission:

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

- Detailed technical write-up highlighting the model Name/No, features of the equipment offered and / or Technical literature/manuals.
- Certificate for acceptance of terms and conditions of tender enquiry.
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 - b1. **Upload revised specification (if required) on 14-03-2018.**
 - c. Bids can be **submitted on-line on** www.mpeproc.gov.in **upto 16-03-2018, 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. 20-03-2018, 3:00 PM.**
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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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5	Mandatory Submission (Envelop A) to Office of Dean, College of Agril. Engg. JNKVV, Jabalpur		--	--	20.03.2018	03:00 PM	
6	Technical Bid Open (Envelope- A)	-	--	--	20.03.2018	03:30 PM	A
7	Financial Bid open	-	24.03.2018	11:00 AM			B

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 28.02.2018 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
29.	Make of main item	
30.	Model of main item	
31.	Name of manufacturer of Main Item	
32.	Country of origin of main item	
33.	Make and model of sub item I (if any)	
34.	Make and model of sub-item II (if any)	
35.	Make and model of sub-item III (if any)	
36.	Delivery within (days)	
37.	Payment terms	
38.	Order to be placed on	
39.	Guarantee/Warranty	
40.	Installation Charges (if any)	
41.	Validity (at least 180 days)	
42.	Delivery charges(if any)	
43.	Insurance charges(if any)	
44.	Training charges(if any)	
45.	FOR: JNKVV, Jabalpur?	

46.	List of current users (Attach, if any)	
47.	Certification of satisfactory working of the equipment (Attach, if any)	
48.	Company Certification (ISO, etc.)	
49.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
50.	Whether manufacturer / authorized distributor /dealer/ agent? (Attach certificate)	
51.	Technical literature in original (Attach, if any)	
52.	Earnest money attached with financial bid (DD No., Bankers name, date etc.)	
53.	Situations of Authorized service centres/ service personals etc.	
54.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration etc. (Enlist)	
55.	TIN and PAN allotted (Attach a copy, if any)	
56.	Any other relevant information	

DECLARATION

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

- control Dynamometer in Manual Mode.
- Digital RPM Meter to read motor RPM, in Manual Mode.
- Digital Torque Meter calibrated to read Nm in Manual Mode.
- Digital Power Meter to read Engine Power in KW.
- SPAN, NULL & RESPONSE presets for Torque Indicator.

PID Temperature Indicator Controller to indicate Engine Water Outlet Temp., LubOil Temperature, Air Intake Temp., Dynamometer Water Outlet Temp (All 0 - 200°C)with PT 100 Sensor Qty. 4 Nos.

Exhaust Gas Temp (0 - 1000°C) – Qty.1 No. Temp Indicators with CRAL sensor.

Air Intake Pressure Indicator with Sensor (0 to 70 mbar) : Qty. 1 No.

Engine Exhaust Back Pressure Indicator with Sensor (0 to 70 mbar) Qty. 1 No.

Atmospheric Pressure (Barometric) Indicator with Sensor (800 – 1200 mbar) Qty. 1

Transducer Box (Wall mounting) for sensors fitment.

Annunciators to indicate faults – Dynamometer Water High Temp, Engine Temp High, Oil High Temp, Low water flow.

Digital Time Totalizer - 1 No.

Sheet 2 of 3

3. PC Based Dynamometer Data Acquisition & Control system, Control Panel mounting stand on ground floor. Consisting of:

Hardware package including Commercial Grade PC (Pentium latest version),17” TFT Monitor,Key board and Printer(Desk jet or Dot Matrix) & Acquisition card modules.

Software package for logging the engine test results.

The systems have following features:

Configurable scan channels (16 Analog), 40 user definable formulae and 100 precompiled hard coded software channels (16 bit resolution)

Flexible screen design

Configurable test results print formats

Auto / Manual selector switch. (Manual Mode is redundant to Auto Mode. In case PC system for Auto mode fails, Dynamometer still can be operated in Manual mode)

4. **Cable loom with conduit of 10 Mtr length:**Cable loom consist Shielded Control cables for Torque sensor, Speed sensor, Temp & Pressure sensors & Dynamometer Control, with Male-female round type connectors with flexible conduit of length of 10 Mtr.

5. **T’ slotted bed for engine mounting with mechanical jacks:**The ‘T’ Slotted test bed is manufactured from Cast Iron and has 4 adjustable screwed columns and hand wheels for height adjustment. The Columns

support 'T' slotted cast steel rails on which engine is mounted.

6. Cardan Shaft/Coupling: Between Engine & Dynamometer with Shaft guard.

7. Volumetric Fuel Consumption unit along with Calibration Set Up (Optional):

Glass tube assembly (200 + 300 cc) is housed in MS fabricated enclosure with top and bottom supports. Photo sensors are fitted on Glass tube, to regulate specific volume of fuel required during testing. Digital timer (with suitable interface to connect with PC based system) is provided for indication time in seconds for the selected volume of fuel. Least count of timer is 0.1 second.

Measurement Accuracy: 0.5% of selected volume whichever is more quantity

8. Throttle Actuator Type – Mechanical (Optional): Normally engines are tested at different speeds. One end of the throttle actuator cable is connected to engine throttle point and another end of throttle cable is connected to throttle actuator. The throttle actuator is to be mounted near to engine. From control panel the operator can vary engine speed by turning throttle demand Potentiometer (i.e. 25%, 50% etc). Once Engine is started, the operator can increase or decrease the engine speed by potentiometer in Manual Mode, where as Engine speed would be controlled through software when system is in Auto mode.

9. Shut down actuator (Optional): The Engine would be turned off automatically by pressing Engine OFF switch on control panel. Pneumatic supply line of constant 5 Bar, 75 PSI pressure is to be connected to Engine shutdown actuator. When operator presses the shut down switch from control panel, the cable connected to engine via shut down actuator is pulled pneumatically from shut down actuator, which is mounted on stand near engine.

10. Sensors – PT 100 – Qty. 04, Cr-AL – 2 Nos. (Thermocouple)
Relative Humidity , Pressure Transmitter (03 Nos)
Transducer Box with boom

11. 16 Ch. Data Acquisition Module with PC Interface with Computer , Printer ,USB and other software as required.

Warranty :3 years hardware and service warranty at JNKVV, Jabalpur

**JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA
JABALPUR (M.P.) 482004**

E- Tender Document

ITEM RATE TENDER

Tender No.: IPRO/CAE/FMPE/RKVY/2017-18/101

Dated: 26.02.2018



**COLLEGE OF AGRICULTURAL ENGINEERING
JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA,
JABALPUR**



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

3rd e-Tender

E-tender invited for the supply of items i.e. 1) Tractor Data Acquisition System Data logger, 2) Dynamometer (25 kw) for testing engines of self propelled machines with accessories, 3) Data Logger with Soil moisture Sensor, Temperature Sensor & Humidity Sensor and 4) Portable Health Monitoring System from manufactures or their authorized dealers or agents. Purchase of on-line tender from 28-02-18, 10:30 am to 07-03-18 upto 11:55 pm. Pre bid submission at University on 12-03-2018 at 11.00 am, upload revised specification (if required) on 14-03-2018 at 11:00 am, Submission of on-line tender upto 16-03-2018, 11:55 pm. Submission of Technical bid to Office 20-03-2018 upto, 3:00pm. Opening of Technical Bid: 20-03-2018 upto 3.30pm and Financial Bid open on: 24-03-2018, 11.00am. Documents are available on portal, www.mpeproc.gov.in. and information on www.jnkvv.org

Dean

For any technical support please contact tollfree number – **18002588684**

For Quick Response Contact: Toll free No: 18002588684

Mail id: eproc_helpdesk@mpsdc.gov.in

Support timings: Monday to Saturday from 10:00 AM to 7:00 PM

For Escalations/Complaints please contact: eproc.esc@gmail.com

For Quick Response related to e payment refund cases only,

Contact: 011 49424365

Mail ID: mpepaymenthelpdesk@gmail.com

Support timings: Monday to Saturday from 9:00 AM to 6:00 PM

SOLUTION PROVIDER

Tata Consultancy Services & Antares Systems Limited

e mail ID : eproc_helpdesk@mpsdc.gov.in

Toll free no. : 18002588684

MPSEDC Helpline Numbers: 08517936082, 07566660425, 08989685065

Any updation /modification/further call, if required and any other changes in respect of above tender will only be available on www.jnkvv.org and www.mpeproc.nic.in

Please visit www.mpeproc.gov.in and www.jnkvv.org for regular updates

JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA, JABALPUR

e- TENDER DOCUMENT

Important Dates

S. No	Agril Engg. College Stage	Bidder's Stage	Start		Expiry		Envelopes
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7	Financial Bid open	-	24.03.2018	11:00 AM			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:

- 11. 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.
- 12. 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.
- 13. It is mandatory to provide all the relevant information in *Annexure I*.

14. 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.
15. a. Tender can be **purchased on-line** from www.mpeproc.gov.in – **Start Date: 28.02.2018, 10.30 am to 07.03.2018, 11:55 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 12.03.2018 at 11.00 am at the meeting hall of Director Research Services, JNKVV, Jabalpur.
 - b1. **Upload revised specification (if required) on 14-03-2018.**
 - c. Bids can be **submitted on-line on www.mpeproc.gov.in upto 16-03-2018, 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. 20-03-2018, 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 **20-03-2018, 3.30 pm**
 - g. **Financial Bids** of qualified bidders will be opened on 24-03-2018, **11.00am.**
 - 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 on-line 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 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 an 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
			Date	Time	Date	Time	
1	-	Purchase of Tender - Online	28.02.2018	10:30 am	07.03.2018	11:55 pm	

2	Pre bid presentation		12.03.2018	11.00 am			
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7	Financial Bid open	-	24.03.2018	11:00 AM			B

*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 **28.02.2018 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
57.	Make of main item	
58.	Model of main item	
59.	Name of manufacturer of Main Item	
60.	Country of origin of main item	
61.	Make and model of sub item I (if any)	
62.	Make and model of sub-item II (if any)	
63.	Make and model of sub-item III (if any)	
64.	Delivery within (days)	
65.	Payment terms	
66.	Order to be placed on	
67.	Guarantee/Warrantee	
68.	Installation Charges (if any)	
69.	Validity (at least 180 days)	
70.	Delivery charges(if any)	
71.	Insurance charges(if any)	
72.	Training charges(if any)	
73.	FOR: JNKVV, Jabalpur?	
74.	List of current users (Attach, if any)	

75.	Certification of satisfactory working of the equipment (Attach, if any)	
76.	Company Certification (ISO, etc.)	
77.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
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81.	Situations of Authorized service centres/ service personals etc.	
82.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration etc. (Enlist)	
83.	TIN and PAN allotted (Attach a copy, if any)	
84.	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
Specification**

<p>Portable Health Monitoring System EMD- Rs.10000</p>	<p>A) Technical Specification for Portable Health Monitoring System.</p> <p>Should be able to work in Lab and Field studies (Portable & easy to carry) for a wide range of physiological data recorded wirelessly via a compact and unobtrusive sensor belt.</p> <p>The Monitor can measure the following parameters</p> <ul style="list-style-type: none">○ ECG; Heart rate; R-R interval○ Respiratory rate○ Pulse oximetry (SPo2)○ Accelerometer X,Y,Z, activity○ Skin temperature○ Galvanic skin response <p>Should have at least 8 hours of operation in full transmission mode and Up to 13 hours with external battery for long sampling periods</p> <p>The system should be simple blue tooth/RF based easy belt that can be easy wear by the subject.</p> <p>Water proof device will be preferred</p> <p>The chest belts of six different sizes at-least (74-104cm) to be provided along with the system.</p> <p>External battery pack to be provided.</p> <p>System should be compatible for at least two different software</p> <p>Should have Memory atleast 8GB or more for data logging and analysis.</p> <p>B) Data Acquisition and Analysis software.</p> <p>Technical Specification</p> <p>The chart software should provide the data integrity, display and analysis features. Should offer easy selection of hardware settings, suitable for online and offline analysis, procedure automation,</p>
---	---

seamless extraction of experimental data with display options.
Should be easily interfaced and used for data recording unit/sensors wired and wireless.

It should continuously record and display up to 32 channels of data (up to 32 calculated signals)

It should allow user to export Binary, Axon, MATLAB, Excel, Graph Pad Prism, QuickTime, Wav, Text etc.

Automated online and offline data extraction to Data Pad & then OLE to applications such as Excel allows values to be updated in an external spreadsheet application in real time.

Channel calculations like Arithmetic, Cycle Variables or Cyclic Measurements, Derivative, Digital Filter, Integral, Shift, Smoothing. Provision for easy sharing of recorded file for distant user without any cost.

It should have specific analysis modules for various applications

It should have online Spectrum facilitates the analysis of the component frequencies of a signal. Spectrum is frequently used to distinguish component waveforms within a signal (such as Alpha, Beta, Delta, Theta and Gamma waveforms within an EEG) or isolate electrical noise components

Automated Analysis Software modules

- **ECG Analysis, HRV Analysis, Waveform Peak Analysis, Blood Pressure Analysis, Non Invasive cardiac output Analysis, Metabolic Analysis** etc

Video capture-The Video Capture software should be capable to add simultaneous recording and synchronization of a Windows Media Video or Mac QuickTime movie and a Chart data file. The Video Capture software should support most video cameras with USB connections or input from any frame capture cards supported by Windows Media Player.

Free Updates and Upgrades for next five years to be provided.

ISO certificates and other Quality certificate to be provided.

Warranty :3 years hardware and service warranty at JNKVV,
Jabalpur

**JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA
JABALPUR (M.P.) 482004**

E- Tender Document

ITEM RATE TENDER

Tender No.: IPRO/CAE/FMPE/RKVY/2017-18/101

Dated: 26.02.2018



**COLLEGE OF AGRICULTURAL ENGINEERING
JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA,
JABALPUR**



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

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Dean

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SOLUTION PROVIDER

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MPSEDC Helpline Numbers: 08517936082, 07566660425, 08989685065

Any updation /modification/further call, if required and any other changes in respect of above tender will only be available on www.jnkvv.org and www.mpeproc.nic.in

Please visit www.mpeproc.gov.in and www.jnkvv.org for regular updates

JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA, JABALPUR

e- TENDER DOCUMENT

Important Dates

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- (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:

- 16. 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.
- 17. 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.
- 18. It is mandatory to provide all the relevant information in *Annexure I*.
- 19. 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.
- 20. a. Tender can be **purchased on-line** from www.mpeproc.gov.in – **Start Date: 28.02.2018, 10.30 am to 07.03.2018, 11:55 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 12.03.2018 at 11.00 am at the meeting hall of Director Research Services, JNKVV, Jabalpur.
 - b1. **Upload revised specification (if required) on 14-03-2018.**
 - c. Bids can be **submitted on-line on www.mpeproc.gov.in upto 16-03-2018, 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. 20-03-2018, 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 **20-03-2018, 3.30 pm**
 - g. **Financial Bids** of qualified bidders will be opened on 24-03-2018, **11.00am.**
 - 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 on-line 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
			Date	Time	Date	Time	
1	-	Purchase of Tender - Online	28.02.2018	10:30 am	07.03.2018	11:55 pm	
2	Pre bid presentation		12.03.2018	11.00 am			
3	Upload revised specification (if required)		14.03.2018	11.00 am			
4	-	Bid Submission - Online	--	--	16.03.2018	11.55 pm	
5	Mandatory Submission (Envelop A) to Office of Dean, College of Agril. Engg. JNKVV, Jabalpur		--	--	20.03.2018	03:00 PM	
6	Technical Bid Open (Envelope- A)	-	--	--	20.03.2018	03:30 PM	A
7	Financial Bid open	-	24.03.2018	11:00 AM			B

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 28.02.2018 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
85.	Make of main item	
86.	Model of main item	
87.	Name of manufacturer of Main Item	
88.	Country of origin of main item	
89.	Make and model of sub item I (if any)	
90.	Make and model of sub-item II (if any)	
91.	Make and model of sub-item III (if any)	
92.	Delivery within (days)	
93.	Payment terms	
94.	Order to be placed on	
95.	Guarantee/Warranty	
96.	Installation Charges (if any)	
97.	Validity (at least 180 days)	
98.	Delivery charges(if any)	
99.	Insurance charges(if any)	
100.	Training charges(if any)	
101.	FOR: JNKVV, Jabalpur?	

102.	List of current users (Attach, if any)	
103.	Certification of satisfactory working of the equipment (Attach, if any)	
104.	Company Certification (ISO, etc.)	
105.	Compliance of equipment with current directives of ISI / CE / EEC / US / EU or equivalent standards	
106.	Whether manufacturer / authorized distributor /dealer/ agent? (Attach certificate)	
107.	Technical literature in original (Attach, if any)	
108.	Earnest money attached with financial bid (DD No., Bankers name, date etc.)	
109.	Situations of Authorized service centres/ service personals etc.	
110.	Relevant documents such as ITCC, ST registration shop Act. establishment certificate, factory registration etc. (Enlist)	
111.	TIN and PAN allotted (Attach a copy, if any)	
112.	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

<p>Data Logger with Soil moisture Sensor, Temperature Sensor & Humidity Sensor EMD-5000/-</p>	<p>Data Logger</p> <p>Universal data logger</p> <ul style="list-style-type: none"> 5–15 Analog Channel, 12 Digital Channels Capable to take input: Thermocouple(B,C,D,E,G,J,K,N,R,S,T), Thermistor, RTD, Voltage, Current, Frequency etc. Dual Channel Isolation Technology 2 Serial ‘Smart Sensor’ ports FTP for automatic data transfer Up to 15 Analog ($\pm 50V$) sensor inputs Expandable to 300 analog inputs Modbus for SCADA connection SDI-12 (multiple networks) USB memory for easy data and program transfer <p>With DataTaker Resource CD, AC adaptor, screwdriver & USB cable with Soil moisture Sensor</p> <p>Sensor type :</p> <ul style="list-style-type: none"> VWC: 0-100% Capacitance/Frequency technology Should be suitable for all Soil and media Fast response EC: two-probe design <p>Accuracy : at least 0.03 m³ /m³</p> <p>Resolution: 0.001 m³ /m³ VWC in mineral soils, 0.25% in growing media</p> <p>Range: 0% to saturation.</p> <p>Measurement time : 10 ms</p> <p>Output: 10%-40% of excitation voltage</p> <p>Power Requirement: 2.5 VDC – 3.6 VDC, 10 mA typical</p> <p>Cable length: 5 m Shielded, twisted pair Stripped and tinned leads.</p> <p>Dimensions : 8.9 cm x 1.8 cm x 0.7 cm (3.5” x 0.71” x 0.13”)</p> <p>Temperature Sensor</p> <ol style="list-style-type: none"> 1. Accuracy : $\pm 0.2^{\circ} C$ 2. Calibration range : -40 to +60 $^{\circ} C$ 3. Sensor used : PT 1000 4. Calibration procedure adopted : Compared against secondary standard which has been calibrated against standard maintained in India meteorological department. <p>Humidity Sensor</p> <ol style="list-style-type: none"> 1. Accuracy : $\pm 0.2^{\circ} C$ 2. Calibration range : 0 to 100% (Non Condensing) 3. Sensor used : Capacitate 4. Calibration procedure adopted : Compared against secondary standard which has been calibrated against standard maintained in India meteorological department. <p>Warranty : 3 years hardware and service warranty at JNKVV, Jabalpur</p>
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