

Sr. No	
Dated.	
	ecceipt No
	DR. PUNJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA-444 104 (MS)
]	TENDER FORM ssue of Tender Form for the purchase of Laboratory and other Equipments/Instruments
	Last date of Submission
	(26.04.2013) upto 13:00hrs
	Cost
	Group A – Rs. 1000/- Group B – Rs. 1000/-
	Principal Investigator, CNAE-RWMRA (c/o Office of Director, Agro-Ecology and Environment Centre)
	Dr. PDKV, Akola e-mail: pirwmpdkv@gmail.com



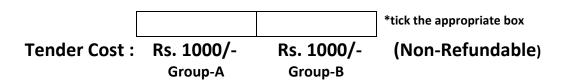
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### (I) TENDER DOCUMENT (No. CNAE-RWMRA/Tender/ 02 of 2013, Dated: 21.03.2013)

Tender for Purchase of "Laboratory and other Equipments / Instruments etc."

Sr. No						
Date:	Speed Post/Hand Delivery					
Issued to M/s						
Your Letter Reference No	dated					
Issue of tender document form: <u>01.04.2013</u> to <u>20.04.2013</u> (from 11:00AM to 4:00 PM)						
Last date of submission of tender documents: 26.04.2013 (up to 13.00 hrs)						

Date of opening tenders: <u>26.04.2013</u> (at: 14.00 hrs.)



# <u>NOTE</u> :

1) The Tender Form can be obtained **by cash payment for respective group/groups** from the office of the **Director, Agro Ecology and Environment Centre, Dr. PDKV, Akola**.

OR

2) The Tender Form can be obtained by downloading file from the web-site: http://pdkv.ac.in of this university. While submitting tender, the tenderer should submit Demand Draft drawn in favour of "Director, Agro Ecology and Environment Centre, Dr. PDKV, Akola" payable at State Bank of India, (Branch Code No. 02171) PDKV, Akola Branch towards the cost of tender form along with the tender documents.

Principal Investigator, CNAE-RWMRA (c/o Office of Director, Agro-Ecology and Environment Centre) Dr. P.D.K.V., Akola e-mail: pirwmpdkv@gmail.com



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#### TENDER NOTICE (No CNAE-RWMRA/Tender/ 02 of 2013, Dated: 21.03.2013 )

On behalf of Dr. PDKV, Akola sealed tenders in two bid system are invited by the Principal Investigator, ICAR Project on "Rainwater Management in Rainfed Agriculture under Niche Area of Excellence, Dr. P.D.K.V., Akola from Manufacturers/ Authorized Distributors, Dealers, suppliers and contractors for supply of items, etc. grouped as under

Sr.	Name of Item	Tender Document	EMD by DD
No.		Fee (Rs.) by DD	( <b>Rs.</b> )
1.	Supply of Laboratory and other	(Non-refundable)	
1.	Equipments/ Instruments & works		1% of total cost of
	in watershed etc.		tendered items for each
	i) Group-A	Rs. 1000/-	group.
	i) Group-B	Rs. 1000/-	
	i) Group-C	Rs. 1000/- (each work)	

The tender documents can be had from **Office of The Director**, **Agro-Ecology and Environment Centre, Dr. P.D.K.V., Akola by Cash/Demand Draft** payment of **Rs. 1,000/- for Group – A, B & C** with written request. <u>OR</u> The Tender Form for Group – A & B can only be obtained by downloading from the web site: *http://pdkv.ac.in*. The tenderer should submit **Demand Draft separately for each group** drawn on **State Bank of India, PDKV Branch, Akola Code No. 02171** in favor of **Director**, **Agro-Ecology and Environment Centre, Dr. P.D.K.V., Akola payable at Akola** towards the cost of Tender Form along with the tender document. **Last Date of Receipt of Tenders for Group - A & B:** <u>26.04.2013</u> (up to: 13.00 hrs.) and for Group - C: <u>28.03.2013</u> (at: 13.00 hrs.). Those who want to obtain Tender Document from the office will be issued for Group – A & B on cash/Demand Draft payment during <u>01.04.2013</u> to <u>20.04.2013</u> (11:00AM to 4:00PM) and for Group – C on <u>26.03.2013</u>.

The University reserves the right to accept or reject any or all tenders fully or partially without assigning any reasons. Delayed / late tenders will not be considered at all.

Principal Investigator, CNAE-RWMRA (C/o Director, Agro-Ecology and Environment Centre) Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (MS) 444 104 e-mail: pirwmpdkv@gmail.com



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#### **INSTRUCTIONS TO TENDERERS**

Sealed Tenders are invited by the Principal Investigator, ICAR Project on "Rainwater Management in Rainfed Agriculture under Niche Area of Excellance, Dr. P.D.K.V., Akola (valid upto 31/03/2014) for the supply of **Laboratory and other Equipments/ Instruments etc.** 

- 1. Tender addressed to the Principal Investigator, ICAR Project on "Rainwater Management in Rainfed Agriculture under Niche Area of Excellence, Dr. P.D.K.V., Akola should be submitted as under
  - a. Technical Bid (Envelop I):- sealed and super scribed "Technical Bid for the supply of Laboratory and other Equipments/ Instruments etc." under Group \_\_\_\_\_
  - b. Financial Bid (Envelop II):- sealed and super scribed "Financial Bid for the supply of Laboratory and other Equipments/ Instruments etc." under Group \_\_\_\_\_
- 2. Both the above two envelops be put into one big envelop for each group separately and sealed properly super-scribing "Technical and Financial Bids for the supply of **Laboratory and other Equipments/ Instruments etc.** due on dated <u>26.04.2013</u>" (upto 13:00 hrs) under the Group-\_\_\_\_
- 3. The Earnest Money Deposit (EMD) @1% of the total cost of the items tendered under each group separately shall be deposited along with the technical bid in the form of Demand Draft drawn in favor of Director, Agro-Ecology and Environment Centre payable at State Bank of India, Dr. PDKV Branch, Akola (Branch Code No. 02171).
- 4. The deposited amount of EMD will be refunded after completion of the satisfactory tests, trial and validity period i.e. **31<sup>st</sup> March, 2014**.
- 5. Tender without earnest money will not be accepted. In case tender is not accepted for award of contract, the earnest money shall be refunded after its finalization.
- 6. Duly filled form provided in Appendix-I with Financial Bid must be enclosed.
- 7. Tender shall be received in the Office of the Principal Investigator, CNAE-RWMRA, c/o Director, Agro-Ecology and Environment Centre, Dr. P.D.K.V., Akola and opened as per schedule given in the notice in the presence of tenderers or their representatives who may like to be present at the time of opening of the tenders.
- 8. The tenders may be submitted in person in office of the **Principal Investigator**, **CNAE-RWMRA**, **c/o Director**, **Agro-Ecology and Environment Centre**, **Dr. P.D.K.V.**, **Akola**. Alternatively, the same may also be sent by the post or courier. However this office will not be responsible for any postal delay or otherwise.
- 9. Tenders received after the stipulated date and time shall be rejected.



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- 10. Firms blacklisted by any of the Department of Central/State Government/ICAR/SAUs/CSIR should not submit tender.
- 11. The University is exempted from the Excise Duty, Customs Duty, the price so attached with the tender should either be exclusive of Excise /Customs Duty or the Excise or Custom Duty component shall be indicated clearly in **Annexure-I** provided with tender form.
- 12. Tenders, which do not fulfill all or any of the above conditions or found incomplete in any respect are liable to be rejected.
- 13. The earnest money shall be released only after supply with test and trial and satisfactorily working of the instrument/equipment in all respects and as per the terms and conditions of the tenders.
- 14. The acceptance or rejection of tenders rests with the University, Dr. P.D.K.V., Akola who does not bind himself to accept the lowest tender and resolved the right to reject fully or partially any or all the tenders without assigning any reasons whatsoever thereof.
- 15. The tenderer shall give a certificate in writing about the manufacturer who's brands is being promoted by him.
- 16. A Certificate of the Manufacturer / Indian Agent specifying their status shall be submitted along with the tender without which the tender shall be rejected.
- 17. The maximum rate of discount on the manufacturer's price list offered by the tenderer and rates tendered shall be indicated clearly in figures and words.
- 18. The undertaking signed by the tenderer that the discount offered is same as offered the other Government/Semi Government/ICAR/ CSIR institutes and SAUs.
- 19. The validity period of the rate quoted will be upto  $31^{st}$  March, 2014.
- 20. Separate EMD shall be provided for each group.
- 21. Distributors tendering for supply shall attach authorization from the manufacturer to ensure from supplier, failing which the tender shall be summarily rejected.
- 22. List of other organizations where similar supplies have been made and having rate contracts preferably with CSIR /ICAR/Government Laboratories/Institutes/ SAUs with documentary evidence shall be attached with technical bid.
- 23. The tenderer shall quote prices in Indian Rupees for items manufactured in India and in foreign currency if in abroad.
- 24. Tender documents duly signed by the tenderer, must be submitted consisting of notice inviting tender, tender form (Technical and Financial), instruction to the tenderers, conditions of contract.
- 25. Tenders will be received in the office of the Principal Investigator, CNAE-RWMRA, c/o Director, Agro-Ecology and Environment Centre, Dr. P.D.K.V., Akola up to: <u>26.04.2013</u> (at 13.00 hrs.) and shall be opened on <u>26.04.2013</u> (at 14.00 hrs.) in the presence of tenderers or their authorized representative who may like to be present at the time of opening of the tenders.
- 26. A tenderer shall not submit more than one tender for the same group of items.



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- 27. No request for correcting typographical error shall be considered after opening of tenders.
- 28. The tenderer shall quote the rates in figures as well as in words. If there is any discrepancy between the price quoted in figures and words, the price quoted in words shall be taken as bid price.
- 29. The tenderer shall enclose the certificate with the technical bid certifying that the quoted items are not higher than those charged to other Government Departments/Public Sector undertaking/ICAR/CSIR Institutes / SAUs.
- 30. Tenders received after the specified time and date of opening will be treated as <u>Late</u> and while tender received after the date specified for receipt of tender but before the date of opening of tender are treated as <u>Delayed</u>. Such tender shall not be opened at all. And be returned to the tenderers in their original envelop without opening.
- 31. All the corrections as alterations made in the price list and in other correspondence must be duly countersigned by the authorized signatory without which tender shall not be considered.
- 32. No. of erasures / overwriting must be indicated specifically and countersigned.
- 32. Unsigned and undated tender documents shall not be considered.
- 33. In case of non fulfillment / non compliance of the above terms and conditions, such tender shall be treated as incomplete and shall be rejected.

Signature of issuing authority,

Principal Investigator, CNAE-RWMRA Dr. P.D.K.V., Akola

#### UNDERTAKING

I have read all instructions carefully and undertake to abide by them till the satisfactory supply, demonstration and working of the equipments/instruments, etc. supplied by me/us.

Date:

Signature of Tenderer with Seal



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#### CONDITIONS OF CONTRACT

- 1. The rate shall be valid upto **31<sup>st</sup> March, 2014**. No escalation in basic cost of rates shall be considered during the validity period. Price list changed for any item on higher side rates at any time shall not be accepted during the period of validity of rates.
- 2. The rate of sales tax shall be stated specifically. The University is not entitled to issue of form 'C' or 'D' however a certificate of concessional sales tax, as applicable to research institute shall be issued on request by supplier.
- 3. The territorial scope of the contract shall be the territorial jurisdiction of Dr. PDKV, Akola.
- 4. Rates **shall be FOR** destination inclusive of packing/forwarding charges, freight and insurance i.e. free delivery.
- 5. The material shall be insured against pilferage /theft /loss /breakage during the transit by the supply before dispatch is made.
- 6. The responsibility in this respect **shall be of the supplier** and not of the University.
- 7. The discount offered shall be indicated clearly in terms of percentage. In case of tenders from authorized distributors the discount offer over and above given by the manufacturer must be mentioned clearly. Further special discount /prices, if any, applicable to the research institutions by the Government of India shall be stated separately.
- 8. Delivery may be effect by the manufacturer directly or through his authorized dealer whose name and address shall be indicated in the tender.
- 9. Delivery period shall be maximum of 15 days from the receipt of the supply order.
- 10. No part payment shall be made. Payment shall be made on the completion of the full supply with satisfactory test and trial.
- 11. Payment will be made within 30 days from the date of satisfactory installation and demonstration with good working condition.
- 12. The submission of tender shall be deemed to be an admission on the part of the tenderer, that he had fully acquainted with the contract terms and no claim other than what is stated in the tender shall be paid in the event of award of supply order.
- 13. The supply of the goods is acceptable on bill basis only.
- 14. The Earnest Money Deposit shall be forfeited if the tenderer withdraws for amends /impairs for derogates from the tender in any respect within the period of validity of its tender.
- 15. The University has the right to forfeit earnest money deposit in case of any breach of contract committed by the supplier.



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- 16. The tenderer shall at all times indemnify the University at no cost to the University against all third party claims of infringement of patent, trade mark for industrial design rights arising from the use of the goods or any part thereof with respect to the goods quoted by the supplier in his offer.
- 17. The supply shall be governed by the laws of India and be interpreted in accordance with such laws.
- 18. Any dispute arising in the process of the tender shall be referred to the sole arbitrator who shall be the Vice-Chancellor, Dr. PDKV, Akola and whose wording shall be binding on both the parties.
- 19. Free replacement against defective or damaged supply by the supplier at his own cost and risk.
- 20. Supplies shall be strictly as per brand / specification as specified in the supply order. Substandard supplies shall be rejected out rightly and the supplier shall be held responsible to the loss so incurred. The University shall have the right to take necessary action against the supplier as it deems fit.
- 21. The consignment shall be booked always in favor of **Principal Investigator**, **CNAE-RWMRA**, **c/o Director**, **Agro-Ecology and Environment Centre**, **Dr. P.D.K.V.**, **Akola** and as per instructions mentioned in the supply order.
- 22. All the products to be supplied under the rate contract shall be of original brand or make.
- 23. Good supplied shall have to be replaced free of cost by the tenderer if it is not in accordance with the required quality /specification and quantity approved or is not compatible or usable as per requirement.
- 24. Tampered /broken original packing of the items shall not be supplied by the supplier and will not be accepted.
- 25. No alternate substitute or duplicate branded items shall be supplied by the supplier.
- 26. For any supplied item if the manufacturer has any free gifts scheme, the same shall have to be passed on by the supplier to this office without any cost.
- 27. Before the supply of the goods, supplier shall ensure that:
  - a) For any item even pack of two or more if free gift scheme is provided by the manufacturer, that free gift shall be supplied to this Office on first supplied item even for single supply item of pack two or more.
  - b) On the items mentioned in the tender shall be of original make and no substitute for refilled or otherwise inferior quality shall be supplied and a certificate to this effect shall be recorded in the delivery challan and the bill that the item supplied is of original make of the manufacturer and substitute or refilled.



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- c) Bill raised for supplies to the this office shall be printed with Serial No., CST/TAN and the authorized signatory shall sign the bill with counter signature/s for any correction/s.
- 28. Tenderer should submit copies of their valid certificates of
  - a) Authorization from the Manufacturer for each item
  - b) Income Tax
  - c) Sales Tax
  - d) VAT Registration
- 29. The rate should be FOR Destination and inclusive of all taxes such as Sales Tax/ VAT/ Municipal Tax/Packing/Forwarding/Insurance/Freight, RTO taxes etc. and no request for increase in rates due to any reason after acceptance of final rates will be entertained at any stage.
- 30. Specific Guarantee/Warranty period for the items quoted may be clearly mentioned in the tender.
- 31. The Specimen of "Agreement Bond" is provided with Tender Notice. The tenderer shall have to execute agreement in the prescribed form on Stamp paper costing to Rs.100/-, which should be submitted to this office ordering supply within specified time. The agreement received under seal and signature of tenderer will become legal agreement between the tenderer and the University, which will be binding on tenderer within Akola jurisdiction.
- 32. Tenderer at the time of final order/ agreement will have to furnish security deposit @ 3% of total cost of the items accepted and ordered for supply by the University as offered in the tender either through FDR in favour of the Director, Agro-Ecology and Environment Centre, Dr. P.D.K.V., Akola. The amount of Security deposit without any interest there on will be returned to the tenderer after 12 months or the expiry of the warranty period whichever is later from the date of supply, subject to the surrender of Money Receipt in original in respective office.

Principal Investigator, CNAE-RWMRA Dr. P.D.K.V., Akola

#### UNDERTAKING

I have read all conditions carefully and undertake to abide by them during Tender processing and Supply and rate validity period.

Signature of Tenderer with Seal

Date:



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# Part 'A'

Technical Bid (Group-\_\_\_)

To be submitted in a separate envelop super-scribing 'Technical Bid' for Group-\_\_\_\_\_



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#### OFFICE OF THE PRINCIPAL INVESTIGATOR, ICAR PROJECT ON "RAINWATER MANAGEMENT IN RAINFED AGRICULTURE UNDER NICHE AREA OF EXCELLANCE (C/O DIRECTOR, AGRO-ECOLOGY AND ENVIRONMENT CENTRE) DR. P.D.K.V., AKOLA – 444104 (M.S.)

#### <u>Tender form (Technical Bid) for Supply of</u> Laboratory and other Equipments/ Instruments etc.

#### "PLEASE CAREFULLY GO THROUGH TENDER DOCUMENT AND ENSURE COMPLIANCE. THE NON-COMPLIANCE OF ANY OF THE CONDITIONS /INSTRUCTIONS MAY MAKE YOUR OFFER INVALID"

Part (A): Technical Bid (Group-\_\_\_)

Necessary documents /certificates from attached in support of at Serial No and as specified in the instruction to tend	to below
Tenderer's reference No	Date
1) Name of the Tenderer	
2) Address	
3) (a) Telephone No.	
(b) Fax No.	
(c) Mobile No.	
(d) e-mail	
(f) Web Site Address	
4) Earnest Money	Rs
(a) In favor of	Director, Agro-Ecology and Environment Centre Dr.PDKV, Akola
(b) Payable at	
(c) DD No. & Date	
<ul><li>5) Status of the applicant (Manufacturer/Authorized distributor)</li><li>6) Manufacturing License No. &amp; Date</li></ul>	
7) Sales Tax /VAT registration No. & Date	9
8) Income Tax PAN No.	



9) Details of clients (list to be attached	
separately) for each item	
10) Annual turn over for the last three	
years	
a) 2009-10	
b) 2010-11	
c) 2011-12	
11) Please indicate if you are a Indian	
agent for any foreign product (if yes,	
please furnish registration certificate	
issued by the competent authority	
e.g. DGS & D)	
12) Please certify that you are not black .	
listed by any department of Central /	
State Government / SAUs/ any	
public institution. (enclose separate	
certificate)	
<ul> <li>dealer for supplies / products quality case the supplies to be made through</li> <li>10. Certificate regarding non-black listing</li> <li>11. Latest VAT clearance certificate.</li> <li>12. Original Catalogs pamphlets/</li> </ul>	d Draft only. appropriate authority, if applicable. forized distributorship if applicable. certificate. if applicable. ficate about the entire responsibility of their y and any misconduct on part of their dealer in the dealer.

**Principal Investigator**, **CNAE-RWMRA** (C/o Director, **Agro-Ecology and Environment Centre**) Dr. P.D.K.V., Akola

Signature of Tenderer with seal



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Part 'B'

Financial Bid (Group-\_\_\_\_)

To be submitted in a separate envelop super-scribing 'Financial Bid' for Group-



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#### OFFICE OF THE PRINCIPAL INVESTIGATOR, ICAR PROJECT ON "RAINWATER MANAGEMENT IN RAINFED AGRICULTURE UNDER NICHE AREA OF EXCELLANCE C/O DIRECTOR, AGRO-ECOLOGY AND ENVIRONMENT CENTRE, DR. P.D.K.V., AKOLA

### <u>Tender form (Financial Bid) for supply of</u> <u>Laboratory and other Equipments / Instruments</u>

#### "PLEASE CAREFULLY GO THROUGH TENDER DOCUMENT AND ENSURE COMPLIANCE. THE NON-COMPLIANCE OF ANY OF THE CONDITIONS /INSTRUCTIONS MAY MAKE YOUR OFFER INVALID." Part (B): Financial Bid (Group-\_\_\_\_)

Tenderer's reference No	Date
1) Name of the Tenderer	
2) Address	
3) (a) Telephone No.	
(b) Fax No.	
(c) Mobile No.	
(d) e-mail	
(f) Web Site Address	
<ul> <li>4) Please indicate if you are a Indianagent for any foreign product (if yes, please furnish registration certificate issued by the competent authority e.g. DGS&amp;D)</li> <li>5) Item-wise discount if any should be</li> </ul>	
<ul> <li>mentioned</li> <li>6) List of items with specifications, rate, taxes, etc. should be filled in format provided in Annexure-I and enclosed with this financial bid duly signed by authorized person with rubber stamp on each page.</li> </ul>	
Principal Investigator	

Signature of Tenderer with seal

#### Appendix I Form of tender rate quoted by me /us for supply of laboratory and other equipment/instruments etc. in CNAE-RWMRA, Dr. PDKV, Akola

Group - \_\_\_\_\_

Sr. No	Name of instruments/ equipment	Make and Specification	Cost of instruments/ equipments with essential optional accessones (Rs)	Excise	VAT CST/ BST	Custom duty	Packaging /Forwarding	Any other	Total taxes	Cost of instruments/ equipments inclusive of all taxes/ duties (Rs)

Signature with seal of Tenderer (Authorized signature) Name of the firm/supplier/tenderer

Note: 1. Rate should be quoted strictly in the format provided in Appendix-I

2. No modifications/alterations are allowed in the Appendix-I



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#### "AGREEMENT BOND"

(To be executed on Rs.100/- bond paper)

This agreement made on this\_\_\_\_\_

assignee) on the one part.

day of 2013

#### BETWEEN

Sh	residing at	
and carrying on business	In proprietorship / partnership / Sole Distributor/	Manufacturer
/Pvt.Ltd	_5	in the
firm name and styled of		_
Hereinafter referred to as th	ne supplier (which expression shall unless the context doe	s not so admit
includes his heirs, executors	s and administrators of the last successor and his / its/t	heir permitted

Α	N	D
1 1		$\boldsymbol{r}$

The office of	Dr. PDKV, Akola for
and on behalf of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola	established under the
Maharashtra Agricultural University Act, 1983 hereafter refereed as Dr. PL	OKV ( which expression
shall unless the context does not so admit include his successor) of the oth	her party. Whereas, Dr.
PDKV Akola invited tender from the intending Sole manufacturers/	authorized dealers of
manufacturers/authorized suppliers / dealers of overseas for	or the <b>supply of</b>
vide tender No	dated

AND	whereas	the	Dr.	PDKV,	Akola	had	accepted	the	tender	of	the
supplie	r							inc	luding ter	nder n	otice
dated			import	ant instru	ction to t	he tenc	ler dated _				

terms and condition of tender acceptance of tender dated\_\_\_\_\_

.all of which documents are deemed to form parts of this agreement and are herewith annexed and are included in the expression "contract" wherever use herein.

AND whereas prior to the execution of this agreement the supplier has pursuant to the terms of contract furnished to the Dr. PDKV, Akola. The Security deposit for the due compliance's with the observance and performance by the contract of all the terms and conditions of contract.



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AND whereas the parties are desirous of executing an agreement. Now it is hereby agreed as follows:

1. The Dr. PDKV, Akola has agreed to purchase supply of \_\_\_\_\_

	details previously f	rom the supplier	and the supplier	has agreed	to sell	from his
store	in					the
Distt	St	tate	Countr			_

2. The supplier has agreed to extent the benefits of discount **at the rate** of %

**on the published price** list of **the manufactures**, **which in term** accepted by Dr. PDKV, Akola for getting the supply to the various schemes / Departments / Laboratories / Officers under the administrative control of Dr. PDKV., Akola and situated in the 11 Districts of Vidarbha region in the functional jurisdiction of Dr. PDKV., Akola.

3. In the witness of the below\_\_\_\_\_\_ for and on

behalf of M/s	for and	
,		

The office of \_\_\_\_\_\_ Dr. PDKV, Akola on

behalf of Dr. PDKV, Akola and have met their hands hereto the day month and year first above written.

(For Supplier)

Signed and sealed and delivered in the presence of witness

1.	
2.	
	(For Purchasing Authority)
	Signed and sealed and delivered in the presence of witness
1.	

2.

4



# List of Laboratory and other Equipments/Instruments etc.

Grou	ıp-A	
SN	Name of Instrument	Specifications
1	Soil moisture meters (TDR)	With probe upto 1 meter, soil moisture data recording with memory, software, operating temp. 0-50° C, custom build soil moisture with analytical software and bar graphs on PC.
2	Suction pump assembly with series of funnels	Stainless still funnel with filter membrane, Flask and vacuum Pump, air vent filter, flexible silicon tubing, plastic tweezers
3	Pressure plate apparatus	5 bar extractor, 15 bar extractor, a pressure regulating manifold, A pressure source, 1 Bar, 3 Bar, 5 Bar and 15 Bar ceramic plates. Should be suitable for determination the water retention curve in the range of $0.1 - 15$ Bar of suction.
4	Rain water simulator	Rain simulator system with imported nozzles to cover an area of 1.5m x 10m with arrangement for changing the height of the nozzles as per the requirements, Magnitude of rain simulation: 2.5 mm, Duration of rain simulation: 5-10 min, Max. Intensity of rain simulation: upto 125 mm/hr, Fall height of drops: minimum 3.5m and adjustable, Diameter of drops: 1-5 mm, Slope of test plot: 1- 5%, including water storage and pumping system with powder coated panel box, electrifications, safety devices, complete with installation & demonstration.
5	Water meter	Removable element structure, Low pressure loss to the water supply, Reliably starts measuring with low water flows, Vacuum sealed register, Resist water hammer and pollution, Pipe diameter range from 30mm to 100mm wide, Water pressure: ≤1.0MPa
6	Constant Head Permeameter	Used for quickly and accurately measuring the in- situ permeability. Can be transported, assembled and operated easily by one person. Measurements can be made in the range of 15 to 75 cm below the soil surface.

Principal Investigator, CNAE-RWMRA Dr. P.D.K.V., Akola



# List of Laboratory and other Equipments/Instruments etc.

## **Group-B**

SN	Name of Instrument	Specifications
1	Mini Tractor with all	1) 15hp, 2)18.5hp and 3)24hp
	accessories	
	Rotavator	Suitable for Mini Tractor
ij	M.B. plough	Having depth 9", having shear plate and shear bar
iii	Cultivator	Adjustable 7 tyne cultivator, 50x5 angle box, having 3
		shear pass and 5.5 ft. long shear pass
iv	Plant protection sprayer	Suitable for Mini tractor, 12-13 nozzles
V	Centrifugal Pump	Suitable for Mini tractor, PTO operated
vi	Trolley	Suitable for Mini tractor
2	Set of Implements for 35hp	
	tractor	
i	BBF marker	Suitable for 35hp tractor
ii	Sub soiler	Suitable for 35hp tractor
iii	Harrow	Suitable for 35hp tractor
iv	Post Hole Digger	Suitable for 35hp tractor
3	Diesel pumps /electric motor	1. Diesel Pumps Sets:
	pump, Refrigerator, solar	Portable, Rate for 5hp, 3hp and 1hp should be quoted
	pumps etc.	Make:
		2. Solar Pump:
		Soar Photovoltaic Pump:- 1800 WP comprising of 75
		WP modules, Head 20-80 meter, DC submersible
		pump at 60 m head, average discharge- more than
		60,000 lit/day
		3. Refrigerator:
		300-400 lit. capacity with double door, 4 star Energy
		Rating, De-odourizing support, Door lock.
4		Make: LG/Samsung/Whirlpool
4	LCD projector with	Resolution: 1024 x 768, Contrast ratio: 100:1 -
	accessories	10000:1, Aspect ratio: 4:3 Projection distance: upto
		10m, Brightness: 2500 ANSI Lumens, Projection Lens:
		Approx. 1.2 times zoom lens (Manual), f 18.53 to 22.18 mm, F 1.65 to 1.93, Lamp Type: UHP lamp, Port: USB
		/ HDMI, including screen with stand.
		Make: Sony/Panasonic
5	Computer /Laptop	Netbook (Mini Laptop) of less weight, Processor: 1.6
5		GHz, 160 GB HDD, 1GB RAM, With WiFi and
		Bluetooth connectivity.
		Make: HP/Acer/Dell/Sony
	l	1



6	Digital Camera	<ol> <li>SLR, 16 MP Full HD, USB Connectivity, GPS, direct printing facility, LCD screen, Memory-SD, including stand (preferred)</li> <li>Make: Nikon/ Sony/Canon</li> <li>Waterproof 12 mega pixel Digital Camera with preferably Carl Zeiss lens, Memory: SD/SDMC/MMC, night shooting</li> <li>Make: Nikon/ Sony/Canon</li> </ol>	
7	Handheld GPS (GARMIN make)	Waterproof, High sensitivity receiver, high speed USB interface, Built in memory 1GB, micro SD card support, waypoints: 4000, Routs:200, Track Log: 10,000 points, Automatic routing, Electronic Compass, Barometric Altimeter, Area calculation	
8	Sound system for training hall	Portable podium with built in 60W amplifier, cordless handheld microphone and receiver, with built-in speakers, built-in goose neck mike, built-in podium reading light, can connect to external Amplifier and speakers, metal body <b>Make: Clarity or its equivalent</b>	
9	Generator / Inverter	<ol> <li>30KVA Silent DG set, 415V@50Hz, 3phaze, 4wire, Power factor:0.8, Control Voltage:12V DC, Fuel: Diesel Make: Kirlosker/ Equivalent</li> <li>5 KVA, 230V@50Hz, 1 phaze, 4wire, Power factor:0.8, Control Voltage:12V DC, Fuel: Diesel (Deisel start diesel run) Make: Kirlosker/Equivalent</li> </ol>	

Principal Investigator, **CNAE-RWMRA** Dr. P.D.K.V., Akola



# Works in Watershed etc.

Group-C			
Sr.	Name of work	Estimated Cost	
No.			
1	Deepening and widening to existing Nallah	Rs. 2,99,385/-	
	from near well no. 75 and steel bridge to Shiv		
	Mandir bridge, Dr. PDKV, Akola		
2	Construction of Experimental layout for Micro	Rs. 2,99,636/-	
	Runoff Plots and Tanks at Agro-ecology and		
	Environmental Research Farm, Dr. P.DD.K.V.,		
	Akola		
3	Deepening and widening to existing Nallah	Rs. 2,99,019/-	
	from shramdan road C.N.B. No.2 old V.C.		
	office road bridge near well No. 126 at Dr.		
	PDKV, Akola		