

## E-TENDER NOTICE

**Center of Excellence for Genetic Improvement at ADT'S / KVK Baramati.**

**Tender No./17/2018 Date: 14/11/2018  
Year 2018 -2019**

### TENDER NOTICE

E-Tender for proposed Purchase of Dairy farm Machinery and Equipments for Centre of Excellence for Genetic improvement at Malegaon,KVK, Baramati

**Year 2018 -2019**

**Centre of Excellence for Genetic improvement  
at Malegaon KVK, Baramati**

.....  
Tenders are invited by the CEO, Centre of Excellence for Genetic improvement at KVK, Baramati, District Pune, Maharashtra state, in prescribed format from the **Manufacturer** **DISTRIBUTORS/DEALERS** by TWO-BID SYSTEM for finalizing the Purchase of dairy farm Equipments, Machinery for Centre of Excellence for Genetic improvement at Malegaon, KVK, Baramati. District - Pune, state of Maharashtra for the period of 2018 -2019.

### TENDER TIME SCHEDULE (KEY DATES)

The tender schedule is as under

Seq. No.	Stage		
		Date	Time
1.	Publishing Date	14/11/2018	11.00
2	Document download Start date	14/11/2018	12.00
3	Bid Submission start date	14/11/2018	12:00
4	Bid Submission End date	19/11/2018	15.00
5	Bid Opening date (if possible)	19/11/2018	18.00

The tender Time Schedule (Key Dates) is displayed on the <https://www.kvkbaramati.com> and <http://agridevelopmenttrustbaramati.org> website of our institute . Tender form along with Terms and conditions can be downloaded from above website w.e.f. 12.00hrs.of 14/11/2018 to 15.00HRS.19/ 11/2018 by payment of Rs. 3000/-(Three thousand rupees only) as the cost of tender form.Payment shall be made by DD along with Tender ( Technical Envelop T-1) and Commercial Envelop.

  
C.E.O  
Agricultural Dev.Trust, Baramati  
Shardanagar, Tal:Baramati, Dist:Pune

Sr. No.	Name of items	Estimated Cost in lakh (Rs.)	Time limit for completion (Months)	Earnest Money in (Rs.)	Cost of Blank tender Form Fees (Rs.)
	2	3	4	5	6
1	Purchase of Equipments and machinery for Dairy farm	<b>Rs.132.00 lakhs</b>	3 months	Rs.3,96,000/-	3000/-

Right to accept or reject any or all tenders without assigning any reason rest with the undersigned.

Chief Executive Officer  
Agricultural Development Trust, Baramati.

  
C.E.O.  
Agricultural Dev.Trust, Baramati  
Shardanagar.Tal:Baramati,Dist:Pune

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Chief Executive Officer  
Agricultural Development Trust, Baramati.

**Tender  
Terms & Conditions.**

**1. ITEMS UNDER TENDER PROCESS FOR FIXING RATE OF EQUIPMENTS**

Online tenders are invited by the Chief Executive Officer, Agricultural Development Trust, Baramati, District, Pune, Maharashtra State, for finalizing the purchase of Equipment as listed in Annexure- A, as per given Specifications for the High tech Dairy farm of center of excellence for Genetic improvement for the year 2018-2019.

**2. ELIGIBILITY FOR PARTICIPATION IN TENDER PROCESS**

- a. The Manufacturers with valid manufacturing license/Certificate of Registration, issued by competent authority for items listed in Annexure-A OR the Dealers/Distributors authorized by manufacturing company in course of their regular business having valid certificate, are eligible to submit the tenders.
- b. The items to be purchased must have CE std. quality standard, wherever applicable.
- c. It must be noted that the tenderer should not have been black-listed by any Government agency/Institution of local self Government/Public sector in India under any contractual relation with them or pending legal/penal action for complaints of quality.
- d. The undersigned reserves the right for insisting upon submission of Good Performance Certificate issued by the users.
- e. The registration certificate of manufacturing company must indicate that production of the item shown in Annexure-A is commenced. Only provisional registration of the item without commencement of production is not sufficient.
- f. The bidder company should clearly state whether the firm is registered with MSME/NSIC/SSI unit.
- g. In case the tenderer is submitting tender as Dealer/Distributor of any manufacturing company, he must have valid certificate of appointment as Dealer/ Distributor issued by the manufacturing company.
- h. Non-compliance with the above conditions will render the tender ineligible for further processing and the Commercial bid in such case will not be opened.
- i. The intending firm/company should have successfully installed at least 5 no's similar systems in Maharashtra. Latest satisfactory performance certificate should be furnished with tender documents
- j. Company must have Turnover of Rs. 50 lakhs for last financial year.
- k. Bidder should have pan card and GST registration.
- l. The supplying firm should have well established service, repair & maintenance network in Baramati with dedicated service engineers and this service back up with 5 years of working Experience of dairy Equipment. The points of presence with contact details are required to be submitted along with the technical bids.
- m. Single Supplier for all items for effective erection, installation and maintenance.

### 3. HOW TO GET A TENDER FORM

Tender Form along with Terms & Conditions can be downloaded from <https://www.agriculturaldevelopmenttrust.org> and <http://www.kvkaramati.com> from 12.00 hrs. of 1/11/2018 to 18.00 hrs. of 12/11/2018 by payment of Rs. 3000/- (Rupees Three thousand rupees only) as the cost of tender form. The payment shall be made by DD in favour of Agricultural Development Trust, Baramati along with Tender Bid documents only.

### 4. EARNEST MONEY DEPOSIT(EMD)

- 1) An Earnest Money Deposit (EMD @3 % of contract value) is **Rs.3,96,000/- (Rs. Three lakhs ninety six thousands rupees only)** as per Annexure-A should be paid by DD in favour of Agricultural Development Trust, Baramati.
- 2) The EMD is liable to be forfeited, in case the rates quoted by the tenderer are approved but the party refuses to enter into the agreement for supply.

### 5. TENDER TIME SCHEDULE (KEY DATES)

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### 6. MANNER OF SUBMISSION OF TENDER FORMS

Tenderer should prepare & submit tenders in two bid system. Accordingly the rates for the items in Annexure-A will be on turnkey project basis only and submit to the Office of Chief Executive officer, College of Agriculture, Agricultural

Development Trust, Sharadanagar, Baramati in prescribed form-commercial envelope, duly Signed with tenderer's signature certificate. The required documents as mentioned below need to be submitted in technical envelope -T given in online e-Tender. It may be noted that while opening of the e-Tender. Technical Envelope T will be opened in the first stage. Commercial Envelopes of only such tenderers will be opened later on , who have fulfilled all requisite terms and conditions approved by the designated authority. The tender not fulfilling any of the requisite terms and conditions, will be rejected and no further claim will be entertained.

- The tender should follow all the steps with due care while submitting the online tender
- The undersigned will not be responsible for the technical error incurred error during the online submission by the tenderer

**a. Technical Envelope T( Technical Bid)**

The technical information in the form of following documents is mandatory.

- i) Copy of valid manufacturing license for the manufacturer/Certificate of appointment as authorized Dealer/Distributor, issued by manufacturing company for the Dealer/Distributor.
- ii) Copy of GST Registration Certificate of the manufacturing/Dealer/Distributor unit, with registration number valid on the date of filing the tender.
- iii) Payment made for Tender fee & EMD in the form of DD of Nationalized bank
- iv) Copy of PAN card
- v) Warranty details
- vi) Declaration duly signed by the tenderer (Annexure-B)
- vii) Check list duly signed (Annexure-D)
- viii) Supplier should have turnover of 50.00 lakhs Per year.
- ix) Last year's annual financial statement with ITR of bidding firm.
- x) Information brochure of the quoted tender items.
- xi) Copy of IT return filed or Form no. 16 for assessment year 2017-2018.
- xii) Supplier /company should have supplied 5 such units in Maharashtra and are in working condition ( Attach User letter )

All the above documents should be uploaded in Technical Envelope T and the original should be kept ready for submission on demand.

**b. Commercial Envelope (Commercial Bid)**

The rates should be quoted only in the commercial Form only. The rates not quoted in prescribed form or quoted on separate paper will not be considered and the tender form will be rejected. The rates should be quoted as described in the tender document. Chief Executive Officer reserves the right to call for breakup of rates quoted, if necessary.

- c.** Commercial Envelope and Technical Envelope T should be submitted in two envelop separately these two Envelop is sealed in one Envelop as per the stipulated procedure. No tenders will be accepted after stipulated date & time. Also no request for extension of time will be entertained.
- d.** Tenders should be sent with messenger,( By hand ) To Chief Executive Officer, College of Agriculture, Agricultural Development Trust, Sharadanagar, Baramati. Will be accepted.
- e.** The firm making any undue effort to bring pressure from outside/Departmental authority will be liable for outright rejection.

**7. CHECK LIST**

The documents in the check list must be compulsorily submitted with e-Tender form. Any omission in this regard, will make the tender liable for rejection. Before preparation of the tender, the tenderer is advised to check each item and score at the appropriate place as Yes or No in the checklist.

**8. HOW TO QUOTE RATES**

- a.** Rates for supply of equipment /Machinery as per in Annexure-A, should be quoted in the prescribed form for F.O.R. (Destination) at Sharadanagar, Tal.Baramati Dist. Pune . The rates quoted should be inclusive of all taxes, levies, OCTRI and transport charges, installation and testing etc.
- b.** Rates must be submitted only Prescribed form, Financial Envelop.
- c.** Tenderer should mention make/model of the item/ spare parts. The tenderer should also specify whether the spare parts are of, genuine/imported/equivalent make/ISI/CE/NABL etc. standard. They are required to give guarantee for exact fitness, satisfactory performance and premature ware of the parts, offered other than the genuine parts.
- d. Validity of Rates-** The rates quoted would be valid up to last installation and commissioning of instrument. Repeat order for the tendered items can be given by the purchaser within this period. The tenderer is bound to supply the items with the accepted rates.
- e.** In case the decision of acceptance of rates remains pending beyond the ‘period of validity of rates’ and the tenderer proposes the change in the rates quoted, subsequently the case will be inspected on merit.



- f. **Prices:** Be quoted on FOR Center of Excellence for Genetic Improvement at ADT'S / Baramati. Inclusive of all taxes, installation, testing and accessories. Prices shall be quoted in Indian Rupees otherwise it shall be treated as nonresponsive and rejected.
- g. **Taxes and duties:-** A Foreign Supplier shall be entirely responsible for payment of all taxes, Stamp duties license fees & other levies imported outside India and within India. The supplier may charge full GST / any other taxes. B) Rates quoted should include all duties such as Customs & Excise, GST / any other taxes. Tenderer should provide their GST registration number.

## **9. PRICE VARIATION/ESCALATION**

- a. Increase in rate on any account such as increase in input cost etc. will not be admissible in any case.

## **10.ACCEPTANCE OF TENDERS**

- a. The Chief Executive Officer, Center of Excellence, Agricultural Development Trust, Baramati, reserves the right of accepting whole or any part of the tender or to refuse all tenders without assigning any reason.
- b. The Chief Executive Officer, Center of Excellence, Agricultural Development Trust, Baramati, also reserves the right to call for break-up of the quoted rates if required.
- c. The Chief Executive Officer, does not pledge himself to accept the lowest tender and reserves the right of accepting the whole or any part of the tender or portion of the rate offered against any item and the tenderer shall apply the same at the rates quoted.

## **11.SIGNING OF AGREEMENT**

- a) Successful tenders / authorized representative as detailed under condition 12-c, shall enter in the contract Agreement with the competent authority. The Chief Executive Officer, preferably within 10 days of acceptance of or when called for By The Chief Executive Officer.
- b) The successful tenderer will be required to execute an agreement on judicial stamp paper for warranty/ Guarantee & services for a period not less than 2 years.
- c) Only the person authorized by due resolution in this contest is allowed to sign the agreement on behalf of the successful tenderer.
- d) The earnest money deposit will be forfeited in the case the tenderer fails to sign the agreement after acceptance of his tender. The tenderer is liable to be black listed in such condition.

## 12. SECURITY DEPOSIT

- a) The successful tenderer will have to give a security deposit of 5% of contract value which is decided at the time of agreement. The security deposit should be in the form of D D for 24 months or Term / Fixed Deposit receipt pledged to Agricultural Development Trust, Baramati. **Drawn on any nationalized bank valid for at least 24 month.**
- b) The security deposit will be returned after 24 months of successful completion of warranty period and proper functioning of the supplied material. Indemnity bond after the above period will be required to be given by the party agreeing and assuring that in case of any complaint of losses the same will be paid by the contractor to Agricultural Development Trust, Baramati. Security deposit will be stand forfeited, in case of any breach of terms and or conditions of the tender and or contract.

## 13. INDENTING PARTIES

Chief Executive Officer at ADT'S, Baramati Dist. Pune will be the Indenting officer for the items under this tender.

## 14. DEMAND AND SUPPLY SCHEDULE

- a) Successful tenderer will have to supply the goods as per order placed within 30(Thirty) days or the period given by indenting officer after receipt of supply order. For failure within the above stipulated period, the tenderer is liable for a penalty of 0.5 % ( half percent) of the total price of the goods, per week or part thereof for late delivery of such goods till the date of final supply/ receipt. A sum not exceeding a 0.5% (Half percent) the price of stores, which the tenderer has failed to deliver as aforesaid for each week or part of week during which the delivery of such a goods may be in arrears, subject to maximum limit in case of order not exceeding rupees one lack in value of 10% and in case of an order exceeding rupees one lack in value of 5% of stipulated price of the stores so undelivered and /or
- b) A repeat order within the validity period of the rate contract may be given if required
- c) The number of items to be purchased may be change as per the discretion of the indenting department.
- d) The contractor will have to necessarily supply the item of the same quality and make, as have been specified in his bid.
- e) Prize quoted should be in Indian rupees, delivery at Center of excellence at Malegaon, KVK, Baramati campus at site.

## 15. BILL RAISING, PAYMENT AND PROCEDURE THEREOF

- a) The supply should be made F.O.R. destination at Center of Excellence for genetic improvement at Malegaon Tal. Baramati, Dist-Pune (M.S.) The supplier should transport and install the machinery and equipments at his own cost at the places mentioned in supply order.
- b) Submission of inspection certificate of the machinery: the machinery and equipments as mentioned in Annexure A must get tested from concerned competent authority. An inspection report should be supplied by bidder certifying that the submitted machinery is as per the specifications should be obtained from Concern competent authority.
- c) The 50 % payment will be given with order and 25 % payment after Delivery of machinery, equipment and 25 % payment shall be released by the indenting officer only after the successful installation, testing and inspection report of the machinery as per specifications.
- d) Payment shall be made by the indenting officer on production of bills raised by Contracting Company. All payment shall be made in the name of contracting company only.
- e) As the payments are made from the project account, the undersigned shall not be responsible for any delay in receipts of grant or procedural delay due to treasury operations, which is beyond control of undersigned or the indenting officer.

## 16. TAX DEDUCTIONS FROM BILLS

Government taxes will be deducted as per the existing rules.

## 17. QUALITY CONTROL AND DECLARATION

If the undersigned desires to inspect the material, manufacturing facility and stores, they should be offered for inspection to him or to his agent at the cost of supplier will have to inspect each item from concern competent authority prior to supply and the cost of such inspections will be borne by the successful tenderer. Inspection report shall be attached with the delivery of the item.

1. **Inspection and Tests:-** (i) Certificate showing country of origin \_\_\_\_\_

(ii) Test certificate / inspection certificate with date, name of Issuing Agency content of specifications (To be filled by bidder)

2. **Insurance:** Rates should be quoted FOR destination (Center of excellence for genetic improvement). Insurance shall be arranged by the tenderer / contractor.

3. **Warranty: warranty of two years** is given for item/equipments as well as for its accessories from the date of installation of the equipment /instruments / machinery etc.

4. **Installation:** As per purchase order clause, failing which Liquidated Damage clause shall apply.

5. **Liquid dated damage:-** Timely delivered is essence of the contract and hence if any consignment be delayed liquidated damage at the rate 0.5% of the prize of the delayed consignment for each week for part where of shall be levied and recovered subject to maximum of 5% of total purchase order value.

6. **Training:-**The bidder shall give training for the operation and maintenance to the personnel of ADT, Baramati, on the offered machine.

## 18. PENALTY CLAUSE

In case, contracting party fails to deliver consignment thereof within the contract period of delivery or in case the goods are found not in accordance with prescribed specifications and/ or as per approved samples, the Chief Executive Officer, Agricultural Development Trust, Baramati, District -Pune, Maharashtra State or indenting officer on his behalf, shall exercise his discretionary power to take one or more following actions. Any loss penalty imposed on supplier shall be deducted from the bills payable to him to the extent of the bill amount and any other amount due to contractor under the same or any other contract with the undersigned or any of indenting agencies.

- a) To recover from tenderer as liquidated damages, a sum not exceeding a 0.5% ( Half Percent)

The price of the stores, which the tenderer has failed to deliver as aforesaid for each week or part of week during which delivery of such goods may be in arrears, subject to maximum limit in case of order not exceeding rupees one lack in value of 10 % and in case of an order exceeding rupees one lack in value of 10% and in case of an order exceeding rupees one lack in value of 5% of the stipulated price of the stores so undelivered and / or

- b) To purchase such goods from any other sources and at such a price as the purchasing officer in his sole discretion feels fit and to recover the differences of cost if any from the tenderer. The additional amount of expenditure incurred over and above approved rates will be liable for recovery from the approved tenderer. The defaulting contractor will be penalized to the extent of differences in the rate of 100% of the value of the order. If the defaulting contractor fails to pay penalty, he will be permanently delisted from the list of approved contractors of departments of Maharashtra Government/ Central Government and security deposits of contractor will be forfeited.
- c) To forfeit entire amount of security deposit of the contractor.
- d) To cancel the contract or part of thereof with supplier.
- e) To blacklist the supplier permanently from list of departmental suppliers.

## **19. WARRANTY CLAUSE AND ITS OPERATION**

The tenderer/ supplier/ contractor/ Successful Bidder should declare that the goods/ store/ articles sold to buyer under this contract, shall be of best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained/ mentioned in Annexure

–A. Moreover the supplier should give an onsite replacement **warranty of two years** for the items to be supplied under Annexure A.

## **20. FORCEMAJEURE**

If, any time during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of the public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lock outs or acts of God ( hereinafter referred to as events), provided notice of happening of any such eventuality is given by either party to the over within 21 days from the date of occurrence thereof, neither party shall be reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the others, in respect of such non performance or delay in performance; and delivers under the contact shall be resumed as soon as practicable, after such a event has come to an end or ceased to exist and the decision of purchasing officer as to whether the deliveries have been so resumed or not shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the contract, provided also that if the contract is terminated under this clause, the purchaser shall be at liberty to take over from the contractor at a price to be fixed by purchasing officer, which shall be final and all the unused, undamaged and acceptable materials, bought out components and stores in course manufacturer in possession of the contractor at the time of such termination or such portion thereof, as the purchaser may deem fit accepting such material, bought out components and stores as the contractor may with the concurrence of the purchaser elect to retain.

## **21.PERIOD OF VALIDITY OF CONTRACT**

The contract shall be valid up to commissioning and operation of equipment.

## **22. SETTLEMENT OF DISPUTES**

- a) It will be responsibility of the tenderer to prove beyond doubt his liability for any exemption from paying the earnest money Deposit and/ or Security Deposit wherever applicable. The tenderer should produce relevant document/ certificates from the competent authority in such case.
- b) All the disputes between indenting agencies and the supplier shall be settled by the undersigned. However, the disputes between the contractor and undersigned or the appeal against the decision of undersigned in disputes

refer to him, shall lie with the C.E.O. Agricultural Development Trust,  
Baramati.

- c) Judicial proceedings if any will be under the Baramati Court only.

### **23. REMOVAL OF DIFFICULTY**

- a) The undersigned shall take such decisions to remove difficulties due to ambiguity of provisions in the tender documents or due to provisions which are inconsistent with the objectives of this tender.
- b) The dates quoted in the tender form are subject to change any reason or in the event of any holiday, abruptly declared by government.

Chief Executive Officer,

Agricultural Development Trust, Baramati

**Annexure –B**

**DECLARATION OF THE TENDERER  
(On Rs.100 Stamp/Bond)**

That I / we .....am/are the director /Proprietor of the firm.....

That I/ We here by submit tender to , Chief Executive officer , Agricultural Development Trust, BaramatiKrishiVigyan Kendra , Baramati for the supply of equipment, for the year 2018-2019.

That I/we have read the terms and conditions as mentioned in this tender form carefully and that I shall / we will abide by all the terms and conditions contained therein.

That I am/we are well acquainted with the facts about the firm and the information provided in the tender form is true and correct.

That all the machinery submitted by me under this tender carry the name of manufacturer or brand name.

I /we may be punished as per law for any wrong information misleading facts provided in the tender form, besides rejection of my /our tender.

In case of any dispute the jurisdiction will be Baramati Tehsil.

Force majeure conditions contend in the manual of office procedure for purchase of store for Government Departments 1978 ,page No.99,appendex-xxxi,and are accepted by the company.

I am /we are bound to supply Equipments/ Machinery of the best quality and workmanship and shall be strictly in accordance with the specifications and particulars contained /mentioned in the Annexure-A, during the period of validity of the Tender. I /We here by guarantee that the said goods /stores /articles supplied by me /us during the period of validity of the contract, would continue to confirm to the description and quality aforesaid during the warranty period.I /We am/are bound to supply the intended items within 60 days.

I have carefully read the general and specific terms and conditions of the tender for supply of equipments /machinery, from the date of signing the tender agreement and I, solemnly declare that terms and conditions are acceptable to me and binding on me.

Place:-

Date:-

Seal: -

Signature of Tenderer

**(Must be on the letter head of the firm)**

## NO DEVIATION STATEMENT

To,

The Project Head Center of Excellence

For Genetic Improvement at ADT'S / KVK Baramati.

Sir, we submit herewith a no deviation statement giving comparison of our technical offer and the specifications of the items mentioned in the tender No. \_\_\_\_\_ due on \_\_\_\_\_.

Name of the manufacturer \_\_\_\_\_ Make and Model No.

Specification of equipment stated in Tender Enquiry step by step	Specification of equipment offered by Bidder step by step	Whether there is any deviation from the tender specification Yes/No	If yes indicate clearly the deviations and your justification for the deviation
1	2	3	4

Name and signature of the bidder

With seal

**Note:** Bidder must detail the proforma in above format and mere certifying that 'There is no deviation between tender specifications and specifications quoted by the bidder' is not acceptable and such bids are likely to be rejected.



**(Must be on the letter head of the firm)**

No.

Date:

**UNDERTAKING FOR DELIVERY, INSTALLATION AND DEMONSTRATION**

We \_\_\_\_\_ the manufacturer/supplier/dealer/bidder of \_\_\_\_\_ (name of the item) do undertake to deliver, install and demonstrate the material mentioned in the tender No. \_\_\_\_\_ due on \_\_\_\_\_ within the stipulated delivery period mentioned in the tender form.

For and on behalf of \_\_\_\_\_

Seal of the manufacturer \_\_\_\_\_

**Annexure – C**

Commercial Envelope – C

Sr. No.	VL no.	Item Description / Item Code/ Make	Quantity / Units	Price of items	Installation Charges etc.	Transportation /Freight Charges etc.	All taxes	Total amount (Rs.)
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>(4+5+6+7)</b>

The above details have been checked by me and found correct.

Place:-

Date:-

Seal: -

Signature of the Tenderer

**Annexure –D**

Check list to be submitted by the Tenderer

Sr. No.	Description/particulars	Remark Yes/No
1	Copy of Manufacturer license /authorization Certificate	
2	Copy of GST /CST registration certificate	
3	DD for tender form fees	
4	DD for Earnest Money Deposit	
5	Copy of Pan card	
6	Declaration ( Annexure –B) duly signed	
7	Warranty Certificate	
8	Information Brochure of the items	
9	Details of the Machinery/Equipment / infrastructure available for production /supply	
10	Annual financial reports of last three year with ITR	
11	Details of experience of supply of such type of items in past -5 users list and letter with contact	
12	List of machinery / equipment / accessories submitted	
13	Name and contact details of local Service provider for maintenance of machineries and equipment.	

The above details have been checked by me and found correct

Place:-

Date:-

Seal: -

Signature of Tenderer

**Specification ( Annexure –A )**  
**List of Equipment Machinery for Mechanization of Dairy**  
**Farm**

## NEW COMPONENTS FOR MECHANIZATION

<b>Sr. no.</b>	<b>Name of the equipment's Machinery</b>	<b>Nos.</b>
1	Activity monitoring system	350
2	Sort gate system	3
3	Bulk milk cooler 2000 lit. close type	2
4	Bulk milk Cooler 1000 lit. Capacity close type	1
5	Swinging cow brush	5
6	Mini swinging brush	4
7	Water trough SS	14
8	Slurry pump	2
9	Cow shower	3
10	Bucket milking machine bms2	3
11	Calf box GI	48
12	Manure solid liquid separator	1
13	Auto weighing system	1
14	Speed line milking system for research farm 4 cluster unit With Auto milk measurement system.	1 set
15	Remote farm Connectivity	1 set

**Chief Executive Officer**  
**Agricultural Development Trust, Baramati.**

**Details Specification are as follows**

**Tender Specifications for the supply, erection, installation and commissioning of the below equipment's**

### **1. ACTIVITY TRACKING SYSTEM**

The system should monitor and measure activity data of Cows through neck mounted activity tags. These activity tags should register cow's movement pattern and should transfer information further to data receiver. Meter should sense activity every 15 seconds and should keep the last 24 hours of activity in its memory and should send the entire memory back to the system's database on a hourly basis. System should learn the cow's activity pattern within 7 days. Based on the hourly recorded data of the individual cattle, the system should predict the activity level for the next recording, If the new value deviates from predicted one, an alarm should be given. The Battery should have a lifetime of atleast 10years. Each Tag should have unique identity.

### **2. SORTING GATE SYSTEM**

Sort gate should have cattle identification system so as to identify correct cattle. The sort gate should direct cattles in maximum two different directions base on various sorting criteria.

Sort Gate should be vacuum operated with good quality gates. Sort gate stall work should be Hot-Dipped galvanized steel. Sort Gate should operate on pre-defined parameters given in herd management software and it should also work from the commands given on milking point in the milking parlour pit. Supplier should provide all electrical fittings, safety switches etc as required.

### **3. Bulk Milk Cooler 2000 L with Standard Accessories**

The Bulk Cooler should be closed one with rated capacity of 2000 Litres having gross capacity of 2200 Litres with horizontal elliptical shape with agitator with T spray nozzle and suitable sizer of compressor with R404 refrigerant and supplied with complete accessories including milk pump, Dump Tank of 200 Litres and Arrangement of cleaning, Pipelines, Fittings, Starters, Cables, Voltage stabilizer etc. Tank should be manufactured as per ISO 5708 standard, class 2 A II. Tank should be double stainless steel AISI 304 shell, all product contact parts finishing should be 220 grit dairy grade finish i.e. 3A finish. The refrigeration system should be designed to comply with ISO / R1662 and shall meet requirements of refrigerated bulk milk tanks ISO 5708, class 2 A II. Compressor should be with provision of Futuristic Gas R404. Maximum Cooling time should not be more than 3 hours.

#### **4. Bulk Milk Cooler 1000 L with Standard Accessories**

The Bulk Cooler should be closed one with rated capacity of 1000 Litres having gross capacity of 1100 Litres with horizontal elliptical shape with agitator with T spray nozzle and suitable size of compressor with R404 refrigerant and supplied with complete accessories including milk pump, Dump Tank of 200 Litres and Arrangement of cleaning, Pipelines, Fittings, Starters, Cables, Voltage stabilizer etc. Tank should be manufactured as per ISO 5708 standard, class 2 B II. Tank should be double stainless steel AISI 304 shell, all product contact parts finishing should be 220 grit dairy grade finish i.e. 3A finish. The refrigeration system should be designed to comply with ISO / R1662 and shall meet requirements of refrigerated bulk milk tanks ISO 5708, class 2 A II. Compressor should be with provision of Futuristic Gas R404. Maximum Cooling time should not be more than 3 hours

#### **5. Swinging cow Brush**

The Swinging Cow Brush should be able to rotate at an animal friendly speed with 26 RPM at 230 V and swings freely in all directions, smoothly up, over and alongside the cow to provide the comfort all-round. The brush should be equipped with overload protection against overheating and IP65 protection and work on energy saving automatic ON/ OFF feature starting the brush rotating on demand and stops it within 10 seconds after use. The brush should be delivered pre-mounted which makes it easy to install on a post or wall in any loose housing barn. The brush should consist of one solid brush unit with 17 cm long bristles having dimensions of 100 x 50 x 132 cm with power not more than 0.14 KW to work with less power consumption. The supplier should supply all kinds of fixtures, safety switches etc. to make the brush working

#### **6. Mini Swinging Brush**

The brush should be fully adjustable for growing calves with possibility to adjust the height of the brush to make it suitable for animals between 3 and 12 months. The Brush should start to function and rotate at a gentle speed when a calf comes into contact with it and it moves up over and alongside the animal. Once the calf walks away the energy-saving automatic cut off feature should stop the brush from rotating. The brush should have hard-wearing nylon bristles to provide the right level of comfort for calves while cleaning and stimulating blood circulation. The brush should consist of one solid brush unit with rotating speed of 25 RPM with 0.04 KW motor having height of 72 x 13 x 30 cm. The supplier should supply all kinds of fixtures, safety switches, cables etc. to make the brush working.

#### **7. SS Water Trough**

The water Trough should be made of Stainless Steel with Automatic Valve and provide a large, calm drinking surface from which the animal can drink quickly and without stress. The units should be very easy to clean and maintain. The water level of the trough should be kept very low, so tipping the tank will spill just a small amount of water. Instead of maintaining a deep water level. These tip tanks should have a high capacity float to give fast, high volume water supply. The water Trough length should not be more than 2.5 meters compatible to our shed design and floor mounted with legs and contains maximum 96 litres. The supplier must provide all the valves, plumbing connections from the water tank to Trough inside the shed and water filter of required capacity.

### **8. Slurry Pump**

The Pump should be equipped with suitable electric motor of 15 KW to provide maximum pumping efficiency and performance. The pump should be able to function with agitation below ground liquid manure reception and storage pits with vertical walls. It can be used to transfer manure from dung channel to storage facility. Manure should be recirculated under pressure to blend the solid, liquid and crusted portions of the pit into a homogeneous and pump able slurry. Pumps should be built suitable for 12 feet deep pit. The Pump should be fitted with suitable wall attachment. The Pump should be provided with all the required electrical accessories, Wiring etc. as required.

Note: Civil & fabrication work will be done by us, Drawing for Pump platform, flume system, dry pit & slurry tank should be provided by supplier.

### **9. Cow Shower**

The supplier should supply the Shower rails consisting of 5 meters long pipes made up of Galvanized pipes structures with shower nozzles in order to wet the cows before entering the milking Parlour holding pen. The supplier should supply motor of suitable capacity, plumbing pipes and electrical connections etc as required.

Note: Civil work will be done by us, Drawing should be provided by supplier.

### **10. Bucket Milking Machine**

Bucket machine should be supplied with directly coupled mounting vacuum pump system with Air Flow of 340 LPM meeting EC standards installed on wall mounting design basis with vacuum gauge and suitable vacuum regulation device. The machine should have hot dip galvanized tank of 15 litres with transparent lids and overflow protection and motor of 2 HP – single phase, 1400 rpm as per EC regulations with ON/OFF switch and thermal overload relay protection fitted on the machine. The milking bucket assembly should be supplied with Seamless milking bucket of 25 litres capacity made of AISI 304 with can carrying and lifting handles, lid etc.

The milking clusters should be minimum 2500 Gms suitable to milk desi animals with suitable flow controlled device with Dual Vacuum system i.e. when machine is applied it should commence at low vacuum(33kPa) and when the milk flow from the udder increases above 200ml/min the vacuum should automatically increase to the normal milking vacuum and stays that way until the milk flow falls below 200 ml/min towards the end of each milking to protect teats with over milking with food grade single piece liners and food grade and non-toxic transparent milk tube. The machine should be supplied with 6 no's of metallic durable long lasting easy to operate vacuum taps with complete vacuum line. The machine should be supplied with startup kit with suitable vacuum pump oil, detergents to clean the machine with ecofriendly packaging with electrical fittings, safety switches etc as required.

### **11. Calf Box**

The calf box should be of **1200 x 1200 mm** with galvanized steel frame and edge sealed plywood sheets and bottom floor to be made of slatted wooden frame. There should be two bucket rings in the front. The front of the box should be planned to be opened from the right or the left side.

### **2. Manure Solid Liquid Separator**

The manure separator should be able to separate the solids from the manure collected from the cow sheds with high capacity with average of 15-30 m<sup>3</sup>/hr with Motor capacity of 4 KW and 33rpm resulting solids up to 30 % and consistence quality with screw type treatment with b innovative coating treatment with a mixture of tungsten carbide and metallic matrix that ensures very high hardness and low brittleness. There should be top Screen inspection window for quick and easy checking that the screen is clean. The separator should have screen of 0.5-0.75 mm made from AISI 316 Stainless steel with strength and chemical composition of materials specifically designed for each application.

Sealing system, System of three lip seals with grease for a secure seal between the screw press separator and the gearbox.

Side supported screw front: A front bearing structure should provide a perfect guide for the screw, reducing wear on the screen. All the Power, Control cable, cable laying with cable trays, supports, earthing, Starter, Instrumentation work in supplier scope.

Note: Civil & fabrication work will be done by us, Drawing should be provided by supplier.



#### **n. Automatic Weighing system**

The supplier should deliver Herd mgmt. software connected, walk over, electronic animal weighing and data recording system on weight trends to prevent unnecessary losses in cow performance and herd efficiency. The system should help to know the weights of each individual cows while coming to Parlour and record the data automatically. The system should have LCD display indicator for weight with IP67 rating with total water and dust proof and the weight should be displayed in KG.

#### **4. Pipeline (Speediline) Milking System with 4 milking Units with Auto Milk Measurement**

The system should be able to extract the milk from the animals via pipeline milking in which the milk should flow from the cow's udder directly to the storage/bulk milk cooler and equipped with automatic cleaning in place and each cow milk should be measured Automatically and should be transferred to Herd Management software. It should have 4 milking stations equipped with direct coupled vacuum pump of suitable capacity meeting EC standards with vacuum gauge and suitable vacuum regulation device. The milking clusters should be minimum 2500 Gms suitable to milk animals with suitable flow controlled device with Dual Vacuum system i.e. when machine is applied it should commence at low vacuum(33kPa) and when the milk flow from the udder increases above 200ml/min the vacuum should automatically increase to the normal milking vacuum and stays that way until the milk flow falls below 200 ml/min towards the end of each milking to protect teats with over milking with food grade single piece liners and food grade and non-toxic transparent milk tube. The pipeline system should have electronic pulsation devices for each milking station with auto milk measurement device at each station with automatic cleaning with air injector and washing trough of 100 litre with cluster jetter cups. The system should have transparent Glass Milk Receiver of 25 litre capacity with milk pump for pumping the milk to storage tank /milk cooler. The machine should be supplied with startup kit with suitable vacuum pump oil, detergents to clean the machine with ecofriendly packaging with electrical fittings, safety switches etc. All the electrical and plumbing work including wiring, cabling, water lines are in supplier scope.

Note: Civil & fabrication work will be done by us, Drawing should be provided by supplier.

#### **2 Remote Farm Connection**

The supplier should be able to provide platform which can connect the software remotely with secure access and support access. It should be able to instantly access, view and analyze diagnostics to get a complete overview of your system. The remote farm connection should allow secure remote access to your equipment and also enables you to securely upload information directly from your computer to other parties, thus saving time.

**Financial Envelope ( C-1)**

Sr. no.	Name of the equipment's Machinery	Make/ Brand	Quantity /Units	Price Inclusive of All taxes (per unit )	Installation, commissioning, Testing Charges etc. (Per unit )	Total amount (Rs.) (Per unit )	Total amount for all unit
			A	B	C	(B+C)	(B+C) x A
1	Activity monitoring system		350				
2	Sort gate system		3				
3	Bulk milk cooler 2000 lit. close type		2				
4	Bulk milk Cooler 1000 lit. Capacity close type		1				
5	Swinging cow brush		5				
6	Mini swinging brush		4				
7	Water trough SS		14				
8	Slurry pump		2				
9	Cow shower		3				
10	Bucket milking machine bms2		3				
11	Calf box GI		48				
12	Manure solid liquid separator		1				
13	Auto weighing system		1				
14	Pipeline (Speed line ) milking system for research farm 4 cluster unit With Auto milk measurement system.		1 set				
15	Remote Farm Connectivity		1 set				

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