

Directorate of Research
S. D. Agricultural University
S.K. NAGAR - 385506

Tender Notice SDAU-DOR-PUR-E-3/2017-18

Online Tenders, as per the schedule given below, are invited from reputed manufacturer / authorized dealers/ distributors for supply of **Laboratory/Farm Instruments/Apparatus/Equipment etc. (for costing below Rs. 5,00000) for annual drawl value of approx. rupees 40,00,000/-for each part of the tender.**

Separate Tender forms are to be filled in for Items per company/firm/dealer/distributor (As the case may be). A set of all the required documents should be submitted separately otherwise tender will be disqualified.

Tender Notice **SDAU-DOR-PUR-E-3/2017-18** on the website <https://au.nprocure.com> or www.nprocure.com may be referred for the Tender Form, detailed terms & conditions etc.

APPROXIMATE TENDER VALUE

1. Tender Part-A for Laboratory Instruments: Tender Value Rs 40,00000/-
2. Tender Part-B for Farm Equipments : Tender Value Rs 40,00000/-

1.	Downloading and online submission of the tender documents	Till 15.09.2017 upto 17:00 hrs
2.	Physical submission of Tender Fee, EMD, Manufacturer/ Authorized Dealership Certificate and relevant documents in Separate cover in the office of the Principal, College of Renewable Energy and Environmental Engineering, S. D. Agricultural University, Sardarkrushinagar, Dist.- B.K., Gujarat-385506 by Registered Post. / Speed Post / Courier only.	Till 20.09.2017
3.	Opening of Primary Bid (Tender Form Fee and EMD Cover) (Physically Received)	22.09.2017
4.	Opening of Technical Bid (online)	26.09.2017 10:00 hrs onwards
5	Opening of Commercial Bid (online)	05.10.2017

Date: 21/08/2017

Director of Research

1. Tender Part-A for Laboratory Instruments
2. Tender Part-B for Farm Equipments

Company/Firm/Dealers/Distributors has to deposit the EMD @ 3 % of the tender value (as per category A or B for which he/they are submitting the tender)

**DIRECTORATE OF RESEARCH
SARDARKRUSHINAGAR DANTIWADA AGRICULTURAL UNIVERSITY
SARDARKRUSHINAGAR-385 506**

Tender Notice No. SDAU-DOR-PUR-E-3/2017-18

Date: 21 -08 -2017

TENDER BRIEF

Online Tenders are invited from reputed manufacturer / authorized dealers/distributors **for supply of Laboratory/Farm Instruments/Apparatus/ Equipment etc.(for annual drawl value of approx. rupees 40 ,00,000/-)**as mentioned specifically in the tender details.

INSTRUCTION TO BIDDERS FOR ONLINE TENDER PARTICIPATION

1. The tender documents can be downloaded from the website <https://au.nprocure.com>
2. The bids should be submitted online visiting website <https://au.nprocure.com>
3. The bids should be digitally signed. The details regarding digital signature certificate and related training involved will be available on the below mentioned address:

(n)Code Solutions

(A division of GNFC)

301, GNFC Infotower, Bodakdev,

Ahmedabad- 380 054 (India)

Tel : +91 79 26857316/17/18

Fax: +91 79 26857321.

www.ncodesolutions.com

4. The tenderer can get a copy of instructions for online participation from the website <https://au.nprocure.com>
5. The tenderer should get registration, if required on the website through the link “New Supplier” provided at the home page. The registration on the site should not be taken as registration or empanelment or any other form of registration with the tendering authority.
6. The application for training and issue of digital signature certificates should be made at least 72 hours in advance to the due date and time of tender submission.
7. All the queries regarding use of digital signature certificate should be addressed to personnel in (n) Code Solutions, Ahmedabad.
8. All the queries regarding tender specifications and any other clauses included in tender document should be addressed to personnel in tendering office at the address provided below:

Contact Details :

Directorate of Research

Sardarkrushinagar Dantiwada Agricultural University

Sardarkrushinagar, Gujarat-385 506.

Telefax: 02748-278889

email:dpp@sdau.edu.in

GENERAL CONDITIONS OTHER THEN INVITATION TO TENDER AND INSTRUCTIONS TO TENDERER (ITIT)

1. Nature of requirements: Laboratory/Clinics/ Experimental plots utility purpose
**Instruments/
Apparatus/
Equipments**

Note:-Separate Tender forms are to be filled in compulsorily for items per company/firm/dealer/distributor. Attach product catalogue along with all documents separately otherwise tender will be disqualified.

The Tender Form fee Rs.2500/-(Rupees Two thousand five hundred Only) and Earnest Money Deposit (EMD) @ 3% of total value of the tender will be applicable for each company. The E.M.D. will be released after completion of the complaint free Guarantee period.

A security deposit @ 5 (Five) % for the total cost of the consignment to be ordered (where as applicable), has to be deposited to the ordering office in form of Demand Draft in favour of 'SDAU Fund Account' drawn on State Bank of India, payable at Dantiwada-2760. The security deposit will be released by the ordering office after completion of the complaint free Guarantee period.

Tenderer interested for representing and quoting more than one company pricelist should fill in separate tender forms and enclose the required documents separately otherwise tender will be disqualified.

2 The Sardarkrushinagar Dantiwada Agricultural University (SDAU) shall in first instance prefer to deal with manufacturer. However, the manufacturer may effect delivery through it's dealer/distributor mentioned in tender form, if desired.

3 Authorized dealers/ distributors can quote their rates provided they attach a valid longevity certificate of authorized dealership issued from the Manufacturer/Principal Company.

4 PRIMARY BID (TENDER FEE AND EMD COVER)

The EMD cover should contain Tender Fee and Earnest Money Deposit (EMD) in form of separate demand drafts as mentioned in Tender Form (TF). **It may please be noted that Tender form without Tender fee or EMD will not be considered.**

5 TECHNICAL BID

The Technical Bid should contain copy of **Tender Form (TF)** including **ITIT** along with self attested copies of prevailing tax structure, Registration Certificate, latest company printed pricelist/catalogue and other relevant documents as per check list (except Commercial Bid document). **Please note that scan copy of any document uploaded by the tenderer must tally with physical submission of original. Further;**

(a) The envelope should be marked as "**Technical Supporting Documents(Technical Bid)**". **It should be noted that technical bid is to be submitted online as well as physically.**

(b) If the bidder fails to submit the supporting documents physically within time limit, the bidder may be disqualified.

(c) The bids should be submitted on or before the time stipulated in Tender notice at the website <https://au.nprocure.com>

- (d) Technical bids should be separate for each company price list. All documents along with General conditions and ITIT must be filled separately for each items otherwise tender will be disqualified.

6. COMMERCIAL BID

- (a) The Commercial Bid should contain rates/price (as per company printed price list) of items with or without taxes, with a mention of discount percentage, if desired along with Tax Declaration Certificate duly filled in and signed. The bid not accompanying this certificate is liable to be ignored.
- (b) **Sardarkrushinagar Dantiwada Agricultural University is entitled for exemption of Customs Duty as per Government Notification No.51/96-Customs dated 23rd July 1996 and Central Excise Duty exemption as per Government Notification No.10/97-Central Excise dated 1st March 1997. Therefore, the rates may be quoted considering the exemption of custom duty and central excise.**
- (c) FOR destination delivery should be **inclusive of insurance charges**. However any tax prevailing as per government rules & regulations should be mentioned separately on the items quoted. **In case the bidder fails to provide such separate details in its bids, offers will be considered as inclusive of all taxes.** Any tax applicable against form 'P' to be mentioned separately. If the bidder is exempted from payment of VAT, then it shall have to mention it in the Commercial Bid, otherwise offer will be treated as inclusive of all the taxes.
- (d) The Commercial Bid should be submitted on or before the time stipulated intender notice **online** only on the website <https://au.nprocure.com>

7. VALIDITY OF TENDER

The rate quoted shall initially be valid up to **31st March, 2018**. However, it may be extended by the university.

8. DELIVERY PERIOD

The maximum delivery period will be six weeks from the date of order in case of ordinary purchases and two weeks in case of the emergency/urgent purchase.

9. PAYMENT

No advance payment shall be made. The final payment shall be made by respective offices after satisfactory receipt of goods/installation and training of staff, wherever applicable.

10. AUTHORISATION

If the Tenderer is not a manufacturer, he should submit a letter from the manufacturer authorizing him to submit quotation on his behalf or attested copy of authorized dealership. Authority letter whenever submitted should be in original on letter head of the manufacturer with necessary seal and signature. Failing which the tender may be rejected.

The manufacturer should preferably have track record of supply for at least last two years to any Govt. Department / Educational / Agricultural University in the country (Attach relevant list or certificate pertains to client satisfaction in this regard).

11. INSPECTION

- (a) The place of inspection be mentioned clearly in the bid, failing which the offer may be rejected and no correspondence will be entertained after opening of the tender.
- (b) SDAU Indenter/consignee or authorized representative may do inspection, if needed.

- (c) Inspection charges shall be inclusive of traveling expenses and daily allowances of the inspecting staff. Hence, inspection fees shall be charged as per actual expenditure by the inspection staff or the actual amount worked out on the basis of percentages, whichever is less. Similarly, testing charges may also be charged as per actual amount to be worked out on the basis of above percentages whichever is less.

12. TERMS OF SUPPLY

- (a) The packing and the labels of all the items, to be supplied under the order, should be well labeled. If the items are packed in packets which are then placed or repacked within a box/carton/bottle/foil, these details shall be printed/ marked on both the internal/external packs and labels. The retail price must not be printed or shown anywhere either on external or internal pack/ box/carton/foil.
- (b) The **Accepted Tender (A.T.) / Rate Contract (R.C.)** holder should have to supply the material in the original company's packing which shall indicate packing details and other particulars as required under the statutory provisions. Inner and outer packing of boxes / cartons should be of standard design. The final packing of cartons of corrugated boxes shall be complying with ISS 9313: 1979 of November, 1980. Corrugated boxes having double wall 5 ply with maximum combined length 1275 mm or triple wall 7 ply with maximum combined length 1275 mm or triple wall 7 ply with maximum combined length 1525 mm shall contain maximum gross contents 15 kg & 20 kg, respectively. A packing slip of 10" x 8" shall indicate clearly and legibly the name of the product, batch number, quantity, date of manufacture, date of expiry gross & net weight, and consignee's name & address and other particulars as required.
- (c) In the event of breakages or loss of stores during transit against requisition order the said quantity will have to be replaced by the A.T. / R.C. holder. The purchaser will not pay separately for transit insurance and the supplier will be responsible for the intact supply as soon as possible but not later than 15 days from the date of arrival of stores at destinations.

13. OTHER CONDITIONS

- a) The conditional offer is liable to be rejected.
- b) The statutory price increase clause.
- i. The Tenderer who wants to avail the benefit of statutory price increase, clause should clearly mention in the tender accordingly. In absence of such a specific statement no claim for the same will be entertained.
 - ii. The Tenderer who want to avail the benefit of statutory price variation clause should also clearly mention the break-up of the net price of the store and the amount of taxes separately in tender. The increase in the price of store due to variation in taxes at the time of supply is not considerable.
 - iii. No variation in price shall be allowed in case the goods are offered ex godown.
 - iv. The increase in price would also not be permissible where delivery period is within one month of the date of statutory increase.
- c) No tender will be accepted after prescribed closing time for submission of the same. The delay will not be condoned for any reason whatsoever including postal / transit delay. However, if the last date of submission of tenders is declared as a holiday by the Government, the last date of submission of tenders will be considered as extended to the next working day.
- d) The tenderer should read this document and the instructions / terms / conditions therein very carefully. Any tenderer who does not confirm with the instruction / terms / conditions herein is liable to be rejected without any reference.
- e) No modification should be done by the tenderer in the name of item, and in the specifications grade / quality / packing of the item given in the enquiry document.
- f) If tenderer's quoted prices for any other institution/university/ government organization found less than our university/institution or discount to any other

institution/university/government organization found more than our university/ institution, the rate contract will be cancelled and the firm will be put in blacklist.

- g) The Accepted Tender (A.T.) holder / Rate Contract (R.C.) holder should supply the equipments/ items in fresh and sound condition meeting with the specification and packing approved. Refurbished or second-hand equipment / stores will not be allowed under any circumstances. If such case is noticed, than the store will be rejected out rightly and penal action will be taken against the A.T./R.C. holder.
- h) All supply orders issued by the indenting officers on or before the last date of the expiry of the R.C. will have to be accepted by the R.C. holder and the delivery for all such orders will have to be effected as per the schedule specified in the order, even though the date of actual supply may fall beyond the last date of the R.C.
- i) In case of any disputes, the decision of the SDAU in this regard shall be final and binding.

I/We.....(Name of the Tenderer/Proprietor/Partner /Director) hereby undertake to supply stores conforming to the Tender Enquiry specification and abide all terms and conditions of the tender enquiry as well as invitation to tender and instructions to tenderers.

Place :
Date :

Signature:

Name:

Designation:

Stamp of the firm:

Invitation to Tender and Instructions to Tenderer (ITIT)

1. Tenderers or their authorize representative are at liberty to remain present at the opening time of the tender.
2. The **tender fee is Rs.2500/- (Rupees Two hundred five hundred Only, non refundable)**. The **EMD** will be @3% of total value of the tender for **each brand/ company**. Separate tenders are to be filled in for **each item. Each tender must have a set of all the documents separately, otherwise tender will be disqualified.**

The Demand drafts should be in favour of 'SDAU Fund Account' and drawn on **State Bank of India, Dantiwada-2760**. The **drawee bank** should also be **State Bank of India**. A Tender without proper Tender Fee and Earnest Money Deposit shall not be considered. The Earnest money Deposit/Security Deposit will be liable to forfeiture if the tenderer fails to complete the contract. EMD/ Security Deposit shall be returned after completion of warranty/guarantee period of the equipments.

Incorrect / fraudulent information submission may lead to disqualification / debar. Please ensure that the data be furnished correctly.

- 3 (a) The Tenderer should quote rate for F.O.R./Free Delivery to the indenting office of SDAU. The SDAU has its Research Stations spread over North Gujarat and Kutchh. The tenderer should state the earliest and clear delivery period. The offerer has to confirm receipt of supply order and acceptance thereof immediately. In absence of this no claim shall be considered.
 - (b) Tenderer should also quote F.O.R. destination of dispatch the each item charges towards packing forwarding, railway freight or the charges under the parcel scheme of the Gujarat State Road Transport Corporation, insurance etc. so as to compare the rates with those of others who have quoted as per tender condition.
 - (c) When the analysis or testing of the supplied stores has to be undertaken in Laboratories / Test house inside/outside Gujarat State, inspection charge not exceeding 0.5 / 1.0 %, respectively of the total value of stores to be inspected will have to be paid by the offerer.
4. No charges other than customs duty shall be affected by the change in the F.O.B. price. This clause shall remain in operation only up to the date of shipment corresponding to the delivery period specified in the schedule to the agreed terms and notwithstanding any extension of time, if any, unless it proves to the satisfaction of the SDAU that the delay in shipment was due to the causes entirely beyond the control of the foreign principal / manufacturer. The decision of the SDAU in this regard shall be final and binding.
- 5 (a) Ex-stock offers of those on tenderer's own import license will be preferred. It will be tenderer's responsibility to inform this office within the validity period of the quotation in the event of the stores offered ex-stock being sold elsewhere. Failure to comply with this instruction shall be construed to mean that the stores are available ex-stock during the validity period. No cognizance shall be taken of the intimation that the store have been sold out prior to receipt of order if such intimation is received after acceptance of order at the tenderer's end.
 - (b) Taxes, if leviable and same are being claimed extra should be clearly stated, failing which the rates quoted in the tender will be construed as inclusive of all taxes. Break -up showing the rate and element of taxes should be shown when rates are quoted inclusive of taxes.
 - (c) Party or their representative may remain present at the time of the opening of Technical Bid.
6. (a) The tenderer should indicate the rates in metric system of weight and measures or in any equivalent weights and measures, thereof showing conversion rates. Non-compliance in this respect will render the tender liable for rejection.
 - (b) Rates should be quoted per "unit" as specified in the schedule. Non-compliance will render the tender liable for rejection.
 - (c) The prices should not be negotiable. If needed parties quoting lowest shall be invited or the negotiations/clarifications. However, the lowest price is not the criteria and emphasis placed on quality and specifications of the material.

7. The SDAU does not pledge himself to accept the lowest or any tender and reserves the right to consider or reject any or all tenders and invite fresh quotations if need arise or to accept the tender in full or part or divide the quantity amongst one or more tenderers without assigning any reasons. Further, the SDAU reserves the right of selecting the brand and accepting or otherwise any of the conditions stipulated in the tender.
8. In the event of an order being placed against this tender and if tenderer fail to supply any stores in accordance with the terms and conditions of Acceptance of Tender or fail to replace any stores rejected within such times as may be stipulated, the SDAU shall be entitled to purchase such stores, without notice to the tenderer, from any other source and at such price as the university shall in the sole discretion think fit. If such price exceeds the rate set out in the schedule to acceptance of tender, the tenderer shall be responsible to pay the difference of the price at which such store have been purchased by the SDAU, and the price calculated at the rate set out in the schedule.

9. Sample:

- (a) Tender samples are not required unless specifically called for at later date when need arise.
- (b) The tender without samples, where samples are specifically called for will not be considered.
- (c) Sealed samples should be submitted with a mention of (i) Name and address of the firm (ii) Tender No. (iii) Opening date of Tender (iv) Item Name (v) Sr. No. / Code No.
- (d) The samples submission for any reason shall be supplied without charge and freight paid and without any obligation on the SDAU as regards safe custody.
- (e) In the past, it has been the practice with certain tenderers to submit a sample of a quality that the rate quoted does not permit of strict adherence to the sample, thereby causing numerous rejections. Tenderers are therefore cautioned that sample should not be submitted of a quality that they are not able to produce or maintain the quantity in ultimate supplies. The samples submitted are preserved for comparison with supplies and rejection will be made if supplies are not reasonably in accordance with the approved samples.
- (f) Tenderers are hereby cautioned that the quality will be one of the chief deciding factor in the matter of deciding tenders.

10 Warranty/Guarantee, if any, for the stores offered should invariably be stated in the tender, failing which standard clause to this effect adopted by SDAU i.e. minimum for twelve months shall apply. Further,

- (a) The tenderer shall guarantee regular and timely supply of all the spare parts required for the normal working of the machinery tendered for, for a period of three years. Tenderer, shall also guarantee that the rate of such spare parts will not be exceeding those you might be charging to the Director General of Supplies and Disposals. New Delhi or any other Government department.
- (b) Tenderer shall further guarantee that "after-sale service" will be provided as and when Required.

11. Termination of contract:

If the tenderer fail to deliver the stores or any part thereof, within the contract period of delivery or the stores are not found in accordance with the prescribed specifications and / or approved sample, SDAU shall exercise its discretionary power either:

- (a) To purchase elsewhere on tenderer's account and at his risk store so undelivered or others of a similar description without canceling the contract in respect of the consignment not yet due for delivery, or

(b) To cancel the contract:

In the event of action taken under clause (a) above, the tenderer shall be liable for any loss which the SDAU may sustain on that account but he shall not be entitled to any saving on such purchases made against default.

The decision of the SDAU shall be final as regards the acceptability of stores supplied by the tenderer and the SDAU shall not be required to give any time for the rejection of the stores.

12. Extension of time:

- (a) As soon as it is apparent that contract dates cannot be adhered to, an application shall be sent to the ordering office of SDAU along with copy to the Director, Infrastructure Facilities before due date.
- (b) Without prejudice to the foregoing rights, if such failure to deliver in proper time as aforesaid shall have arisen from any cause which SDAU may admit as a reasonable ground for an extension of the time (and its decision shall be final) it may allow such additional time as considered to be justified in the circumstances of the case.

- 13. Special conditions, if any in this tender shall also be applicable.
- 14. Non-compliance with any of the above conditions shall constitute breach of the same and will render the offer liable for rejection.
- 15. The Tenderers are instructed to specify clearly in their tenders as to in which respect their quotations deviate from the tender enquiry. If deviations are not specified in detail, it will be presumed that the tendered offer is exactly to the specifications of the tender enquiry.
- 16. Tenderers are required to show detailed breakup of all taxes prevailing at the time separately with the respective amounts, even if their offers are inclusive of all taxes.
- 17. Tenderers should send descriptive literature (not rates) along with other documents as specified in tender notice.
- 18. Tenderers are advised to indicate in their offer against each item, whether the item is imported or indigenous.
- 19. The SDAU may, if found necessary to do so, consider for extension of Rate Contract beyond the original validity period, subject to the original terms and condition provided in advertised Tender and the tenderer shall accept the same unless specially stipulated to the contrary in the tender.
- 20. In the case, rate accepted on "FOR Destination" the date on which the goods are received at destination shall be considered as the date of delivery.
- 21. Tender should be submitted on line showing legibly the **tender number, due date, name of company/brand of the item.**
- 22. Tender Fee / EMD and other relevant documents of the tenders are to be sent in separate sealed cover to **'The Principal, College of Basic Science and Humanities, S. D. Agricultural University, Sardarkrushinagar, Dist.-Banaskantha, Gujarat-385506'** by the date and time stated in the notice by **Registered Post/Speed Post/Courier only. Late receipt may disqualify the tender and the SDAU will not, in any way responsible in this regard.** Scan Photo copy submitted along with original tender, if any, must match with physical copies.
- 23. On approval of the tender, the tenderer should provide 25 (Twenty) copies of the company printed price list (preferably coloured) within 15 (Fifteen) days, failing which the rate contract may be treated as cancelled.
- 24. The tender is liable for rejection if goods/ instrument/equipment are not fulfilling as per required specifications.
- 25. The terms and conditions in any other form than shown in the tender will not be considered.
- 26. Installation of the machine will have to be made **within 6 weeks of supply.**
- 27. Payment shall be made only after satisfactory installation and demonstration.

28. Vendor giving wrong information on specification/documents will be **black listed for a period of 5 years.**
29. All questions, disputes or differences arising under, out of or in connection with the contract shall be subject to the exclusive jurisdiction of the court within the local limits of whose jurisdiction the place situated from which Acceptance of Tender is issued.

Name of the Firm:

Authorized Signature:
Name:
Designation:
Seal of firm:

TECHNICAL BID SUBMISSION FORM
PART-I
(Tender Supporting Documents)

Current Tender Details:

Tender Notice No.:

Type of Tender:

Last Date & Time for submission of Bid:

- 1) Name of **company/brand** :
- 2) Name of the Manufacturer :
- 3) Category (Indigenous / Imported) :
- 4) Required supporting documents :

Sr.No.	Document / Certificate Page No. Of the Tender Document	Remarks
1	C.A. Certificate for the manufacturing showing yearwise production sales of the quoted item for the last 3years.	
2	Manufacturing License/Product Permission/Registration Certificate with C.S.P.O./C.M.S.O./ S.S.I./K.V.I.C./ N.S.I.C./D.G.S.& D.	
3	List of Installations/Users/Customers with address,phone No. and email address.	
4	Higher / Lower Price Certificate	
5	S.T. Clearance Certificate and Returns	
6	Tender Fee Amount, D. D. No. and Date	
7	E.M.D. Amount, D. D. No. and Date	
8	Letter of Authority of Foreign Principal OR its subsidiary company with copy of agreement (In case of Foreign articles) (MUST BE NOTARIZED)	
9	IEC Certificate for imported items	
19	Total Pages of the tender document	
11	Partnership deed/Memorandum of article/ Registration of firm etc.	
12	Document of 100% Subsidiary Company	
13	Affidavit by Subsidiary Company	
14	Confirmation of Delivery Period	
15	Confirmation of Place of Delivery	
16	Confirmation of terms and conditions of Payment	
17	A.E.R.B. Certificate {if applicable}	
18	I.S.O. Certificate.	
19	B.I.S. Certificate.	
20	Original Company Printed Price List and Product Catalogue	
21	Copy of valid import license for imported items	
22	Guaranty/Warranty obligation	
23	Manufacturer/Authorization certificate showing validity for the current year	
24	Vendor's Profile / Company details	
25	Affidavit as attached on scan paper of non judicial stamp of Rs 100/-.	

Note: 1) All photocopied documents must be attested by gazetted officer/ self attested.
2) Photocopy of all the documents must be attached physically and scan copy be with e-tender.

DECLARATION

It is verified that all the certificates/permissions/documents are currently valid as on date and have not been withdrawn/cancelled by the issuing authority. It is further verified that the certificates are as per the format and it is clearly and distinctly understood by us that the tender is liable to be rejected if on scrutiny any of these certificates is found to be not as per the prescribed format.

We further undertake to produce on demand the original certificate/permission / document for verification at any stage during the processing of the tender.

We solemnly declare that we have attached all the documents mentioned here in above and in the tender. We also understand that non-compliance of any documents will be treated as non respective tender and we will loose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm:

Authorized Signature:

Name:

Designation:

Seal of firm:

**TECHNICAL BID SUBMISSION FORM
PART-II**

Current Tender Details:

Tender No.:

Type of Tender:

Last Date & Time for submission of Bid:

- 1) Name of **company/brand** :
- 2) Name of the Manufacturer :
- 3) Category (Indigenous / Imported) :
- 4) (A) Basic facilities/infrastructure such as power supply, installation and commissioning of equipment required mentioned as hereunder:
(B) Details of after sales services in Gujarat (Mandatory).

1	Address of nearest Manufacturer's Service Centre.	
2	Name of Service Engineer (With Office, Residence Phone/ Cell No. and Email address.)	
3	Address of nearest depot for parts and other consumable stores (With Office, Residence Phone/ Cell No. and Email address.)	

Note:

1. The specifications available in the item offered shall be mentioned clearly against each tender specification.
2. Details specifications chart, design drawing etc. for equipment offered are to be provided along with original literature.
3. For any imported equipment part of equipment, valid documentary evidence regarding foreign make as well as import of goods is to be provided by the Tenderer along with consignment.
4. Any item, material, consumable required for installation and commissioning of equipment to be brought by supplier at the time of installation of equipment.

Remarks if any:

DECLARATION

We solemnly declare that we have attached all the documents mentioned here in above and in the tender. We also understand that non-compliance of any documents will be treated as non-respective tender and we will loose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm:

Authorized Signature:

Name:

Designation:

Seal of firm:

COMMERCIAL BID FORM
(Online Submission Only)
CATEGORY - A

Option –I

INDIGENOUS LABORATORY/ INSTRUMENTS

Current Tender Details:

Tender No.:

Type of Tender:

Last Date & Time for submission of Bid:

- 1) Name of the **company/brand**:
- 2) Name of Instrument:
- 3) Name of Manufacturer:
- 4) Company/Brand Price: Rs.

Sr. No.	Particulars	Taxes in %	Prices calculation
A	Basic Price	0	750
B	Discount in % (on company printed price list)	5	
C	Price in % after discount	0	
D	Excise and other duties if applicable in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
E	Packing Forwarding, Insurance and Installation charges in % (Enter '0' if not applicable)		
F	CST in % (Enter '0' if not applicable)		
G	VAT in % (Enter '0' if not applicable)		
H	GST in % (Enter '0' if not applicable)		
I	Other Charges in %, if any (Enter '0' if not applicable)		
J	Total F.O.R.D. price in % (C to I, as applicable)		

ii) Optional Items:

Sr. No.	Particulars	Taxes in %	Price calculation
A	Basic price		
B	Discount in % (on company printed price list)		
C	Price in after discount		
D	Excise and other duties if applicable in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
E	Packing Forwarding, Insurance and Installation charges in % (Enter '0' if not applicable)		
F	CST in % (Enter '0' if not applicable)		
G	VAT in % (Enter '0' if not applicable)		
H	GST in % (Enter '0' if not applicable)		
I	Other Charges in %, if any (Enter '0' if not applicable)		
J	Total F.O.R.D. price in % (C to I, as applicable)		

Remarks if any:

DECLARATION

We solemnly declare that we have attached all the documents mentioned here in above and in the tender. We also understand that non-compliance of any documents will be treated as non respective tender and we will loose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm:

Authorized Signature:

Name:

Designation:

Seal of firm:

COMMERCIAL BID FORM
(Online Submission Only)
CATEGORY – A

Option –II
IMPORTED ARTICLES

Current Tender Details:

Tender No.:

Type of Tender:

Last Date & Time for submission of Bid:

- 1) Name of the **company/brand of the price list**:
- 2) Name of Manufacturer:
- 3) Name of Instrument:

Enter '0' in above fields if not applicable.

S. N.	Particular	Taxes in %	Prices calculation
A	Basic Price		
B	Discount in % (on company printed price list)		
C	Price in % after discount		
D	Custom duty / CVD in % (at concessional rate to Educational Institute) (Enter '0' where not applicable)		
E	Additional custom duty in % (Enter '0' if not applicable)		
F	Excise and other duties in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
G	GST (Enter '0' if not applicable)		
H	Packing Forwarding, Insurance and Installation charge in % (Enter '0' if not applicable)		
I	Total price in % (C+D+E + F+G+H)		
J	Other Charges in %, if any (Enter '0' if not applicable)		
K	Total F.O.R.D. price in % (I+J) (In Foreign Currency)		
L	Total F.O.R.D. price in INR after applying conversion rate in %		

ii) Optional Items

S. N.	Particulars	Taxes in %	Price calculation
A	Basic Price		
B	Discount in % (on company printed price list)		
C	Price in % after discount		
D	Custom duty / CVD in % (at concessional rate to Educational Institute) (Enter '0' where not applicable)		
E	Additional custom duty in % (Enter '0' if not applicable)		
F	Excise and other duties in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
G	GST (Enter '0' if not applicable)		
H	Packing Forwarding, Insurance and Installation charge in % (Enter '0' if not applicable)		
I	Total price in % (C+D+E + F+G+H)		
J	Other Charges in %, if any (Enter '0' if not applicable)		
K	Total F.O.R.D. price in % (I+J) (In Foreign Currency)		
L	Total F.O.R.D. price in INR after applying conversion rate in %		

Letter of credit opened in favour of :

Country of Shipment :

Remarks if any :

Note:

1	Prices with breakup (in %) must be quoted in above format only online. Quoting of consolidated price without breakup may not be considered.
2	All terms and conditions of supply shall be applicable as per the tender Document. Any terms and condition intended with Commercial Bid shall be ignored or in such a case offer is liable to be rejected.
3	Tax declaration certificate may be enclosed, if applicable.
4	SardarkrushinagarDantiwada Agricultural University is entitled for exemption of Customs Duty and Central Excise Duty as per Government Notifications no.51/96-Customs dated 23rd July 1996 and No.10/97-Central Excise dated 1st March 1997, respectively. Therefore, considering the exemption of custom duty and central excise the rates may be quoted.
5	Local agency commission, if any will not be allowed.
6	If required, custom exemption certificate issued by the concerned authority shall be provided by the consignees.
7	The rates of Custom Duty / C.V.D., transport charges from port to place of consignees, transit insurance within India, installation charges, bank / custom clearance charges, if applicable, should be quoted in Indian currency only.

DECLARATION

We solemnly declare that we have attached all the documents mentioned here above and in the tender. We also understand that non-compliance of any documents will be treated as nonrespective tender and we will loose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm:

Date:

Authorized Signature:

Name:

Designation:

Seal of firm

COMMERCIAL BID FORM
(Online Submission Only)
CATEGORY - B

FARM EQUIPMENTS:

Current Tender Details:

Tender No.:

Type of Tender:

Last Date & Time for submission of Bid:

1) Name of the **company/brand**:

2) Name of Instrument:

3) Name of Manufacturer:

Enter '0' if not applicable

Sr. No.	Particulars	Taxes in %	Prices calculation
A	Basic Price		
B	Discount in % (on company printed price list)		
C	Price in % after discount		
D	Excise and other duties if applicable in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
E	Packing Forwarding, Insurance and Installation charges in % (Enter '0' if not applicable)		
F	CST in % (Enter '0' if not applicable)		
G	VAT in % (Enter '0' if not applicable)		
H	GST in % (Enter '0' if not applicable)		
I	Other Charges in %, if any (Enter '0' if not applicable)		
J	Total F.O.R.D. price in % (C to I, as applicable)		

ii) Optional Items:

	Company/Brand Printed Price	Taxes in %	Price calculation
A	Basic price		
B	Discount in % (on company printed price list)		
C	Price in after discount		
D	Excise and other duties if applicable in % (at concessional rate to Educational Institute) (Enter '0' if not applicable)		
E	Packing Forwarding, Insurance and Installation charges in % (Enter '0' if not applicable)		
F	CST in % (Enter '0' if not applicable)		
G	VAT in % (Enter '0' if not applicable)		
H	GST in % (Enter '0' if not applicable)		
I	Other Charges in %, if any (Enter '0' if not applicable)		
J	Total F.O.R.D. price in % (C to I, as applicable)		

Remarks if any:

Letter of credit opened in favour of:

DECLARATION

We solemnly declare that we have attached all the documents mentioned here in above and in the tender. We also understand that non-compliance of any documents will be treated as non respective tender and we will loose our claim to participate in the Tender Enquiry automatically and our tender will be liable to reject.

Name of the Firm:

Authorized Signature:

Name:

Designation:

Seal of firm:

AFFIDAVIT

(To be submitted IN ORIGINAL on Non-Judicial Stamp Paper of Rs.100/- duly attested by first class magistrate/Notary Public)

I/We age..... years residing atin capacity of
.....M/s.....hereby solemnly affirm that

1. All General Instructions, General Terms and Conditions as well as Special Terms and Conditions laid down on all the pages of the Tender Form have been read carefully and understand properly by me which are completely acceptable to me and I agree to abide by the same.
2. I/We have submitted following Certificates/Documents for T.E. as required as per General Terms and Conditions as well as Special Terms and Conditions of the Tender.

Sr. No.	Name of the Document
1.	
2.	
3.	

3. All the Certificates/Permissions/Documents/Permits/Affidavit are valid and current as on date and have not been withdrawn/cancelled by the issuing authority.
4. It is clearly and distinctly understood by me that the tender is liable to be rejected if on scrutiny at any time, any of the required Certificate/Permissions/Documents/Permits/Affidavits is /are found to be invalid/wrong/incorrect/misleading/fabricated/expired or having any defect.
5. I/we further undertake to produce on demand the original Certificate/ Permission/ Documents/ Permits for verification at any stage during the processing of the tender as well as at any time asked to produce.
6. I/We also understand that failure to produce the documents in "Prescribed Proforma" (Wherever applicable) as well as failure to give requisite information in the prescribed Proforma may result in to rejection of the tender.
7. My/Our firm has not been banned/debarred/black listed at least for three years (excluding the current financial year) by any Government Department/State Government/Government of India/Board/Corporation/Government Financial Institution in context of purchase procedure through tender.
8. I/We confirm that I/We have meticulously filled in, checked and verified the enclosed documents/certificates/Permissions/permits/affidavits/information etc. From every aspect and the same are enclosed in order (i.e. in chronology) in which they are supposed to be enclosed. Page numbers are given on each submitted document important information in each document in "highlighted" with the help of "marker pen" as required.
9. The above certificates/documents are enclosed separately and not on the Proforma printed from tender document.
10. I/WE say and submit that the Permanent Account Number (PAN) given by the Income Tax department is which is issued on the name of(kindly mention here either name of the Proprietor (in case of Proprietor Firm) or name of the tendering firm which ever is applicable).
11. I/We understand that giving wrong information on oath amounts to forgery and perjury and I/We am/are aware of the consequences thereof. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/PBDG/Cancel the award of contract in this event. This office reserves the right to take legal action on me/us.
12. I/We have physically signed and stamped all the above documents alongwith copy of tender documents (page no. to).
13. I/We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specification mentioned in the bid document.
14. My/Our company has not filed any Writ Petition, Court Matter and there is no court matter filed by State Government and its Board Corporation is pending against our company.
15. I/We hereby commit that we have paid all outstanding amounts of dues/taxes/cess/charges/fees with interest and penalty.
16. In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Tender Committee for disqualification will be accepted by us.

Date :

Stamp & Sign of the Tenderer

Place:

Signature & Seal of the Notary

Name and Specification of Laboratory Instruments and Equipment (Category-A):

Sr. No.	Name of Equipment/ Instrument	Quantity	Specifications
i.	RESEARCH BINOCULAR MICROSCOPE	10 No.	<p>(A)</p> <ul style="list-style-type: none"> • Viewing Head; Sliding Binocular Head inclined at 30 to 45, 360 Rotable • Eyepiece ; Wide field Eyepiece WF 10x/15x • Objective ; Achromatic Objective 4x,10x,40x,100x • Nosepiece; Quadruple Nosepiece • Stage; Double Layer Mechanical stage 135 to 140 x 130-140 mm • Condenser Abbe NA 1.25 With 1 ris DIAPHRAGM & filter • Illumination; Koehler illumination, built in illumination, LED lamp • Filter ; Blue filter • Accessories ; • Six Lamps • Vinyl Cover • Cleaning brush • Operating Manual • ISO marked / CE marked / FDA Approved • Service engineer to be based in Gujarat preferably.
		1 No.	<p>(B) For taxonomic identification of insects</p> <ul style="list-style-type: none"> • Optical system :Greenough optical system • Total Magnification : 3.35-300x (depending on eyepiece and auxiliary objective used) • Vertical Tube : Built-in C-mount 0.55 x magnification lens (F.N.11), compatible with 2/3 in. or smaller CCD • Eyepiece Tube :Fixed type • Eyepiece Inclination : 45⁰ • Interpupillary Distance Adjustment : 52-75 mm • Eyepieces (With Diopter Adjustment) : C-W 10 x B (F.N.22), C-W 15x (F.N.16), C-W 20x (F.N.12.5), C-W 30x (F.N.7) • Zoom Range : 0.67-5x • Zoom Ratio : 7.5 :1 • Auxiliary Objectives : G-AL 0.5x(W.D.211 mm),G-AL 0.7x (W.D.150 mm), G-AL 1.5x (W.D.61 mm),G-AL 2x

		(W.D.43.5mm) • Working Distance :115 mm Weight : 1.55 kg (SMZ745), 1.8 kg (SMZ745T)
18 No.	(C) Item	Specification
	Optical System	UIS (Universal Infinity System) optical system
	Illumination System	Built-in transmitted illumination system 6V20W halogen bulb 100-240V 50/60Hz universal voltage
	Focusing	Stage height movement (coarse movements stroke 20mm) Fine focus graduation: 25 μ m
	Revolving nosepiece	Fixed quadruple nosepiece
	Stage	Wire movement mechanical fixed stage: 120*132 mm Traveling range: 76mm(X)*30mm(Y) Single specimen holder
	Observation tube	30 inclined binocular tube interpupillary distance adjustment range 48-75mm
	Condenser	Abbe type with apertuer iris diaphragm N.A.:1.25
	Objective lens	Plan Acromatic objectives (anti-fungun) 4X N.A.:0.10 W.D.: 22.0mm 10X N.A.:0.25 W.D.: 10.5mm 40X N.A.:0.65 W.D.: 0.56mm 100X N.A.:1.25 W.D.: 0.13mm (option)
	Eyepiece (10X)	Field Number(F.N.): 18 (anti-fungun)
optional accessories	Mirror unit, 15X eyepiece (F.N. 12, anti-fungus), cord rest, wooden storage box, filar micrometer, wire pointer, filter holder, darkfeild stop	
2 No.	(D) Upright Microscope	
	Observation Method	Brightfield and Darkfield
	Illuminator	LED Lamp

			Focus	Focusing Mechanism Stage Focus
				Coarse Handle Stroke Coarse adjustment limit stopper Torque adjustment for coarse adjustment
			Revolving Nosepiece	Manual Standard Type
			Stage	Mechanical Mechanical Stages with Right-Hand Control
			Condenser	Manual Abbe Conenser
			Observation Tubes	Standard (FN20) Trinocular Tube Light Path Selection (Camera : Observation)
ii.	CABINET DRIER	1 No.	Hot air oven; 100 kg capacity; temperature range upto 100 ⁰ C; Dual air flow; Digital; automatic; to work on 220 volts; material: heavy M.S.Sheet	
iii.	ANALYTICAL BALANCE	1 No.	(A) 0-100 g; digital, minimum 0.001g	
		1 No.	(B) 0-1 kg; digital; minimum 0.1 g	
		1 No.	(C) 0-2 kg; digital; minimum 0.1 g	
		2 No.	(D) Capacity	1000 g
			Readability	0.01 g
			Display	LCD with Back Light
				172 x 172 mm
			Power	AC Adaptor (6V) and 4 x "AA" Rechargeable Batteries, Battery provides up to 20 hrs of continuous use.
				- Attached stainless steel pan
		3 No.	(E) Table Top Scale	
Capacity	1 to 3Kg			
Readability	0.1 g			
Pan Size	175 x 230 mm			
Display	Red LED (0.56" high)			
Power	220-240V AC; 50Hz adaptor and 6V, 4.2Ah Rechargeable battery			
Operating	+10 to +50 °C			

			Temperature	
			Optional	RS-232 Connection
iv.	TOP PAN BALANCE	1 No.	(A) 0-5 kg; digital; minimum 5g	
		1 No.	(B) 0-10 kg; minimum 10 g	
		2 No.	(C) TABLE TOP SCALE	
			Capacity	10 kg
			Readability	1 g
			Pan Size	240 x 300
			Display	Red LED (0.56" high)
			Power	220-240V AC; 50 Hz adopter and 6V, 4.2Ah Rechargeable Battery
			Operating Temperature	+10 to +50 °C
			Optional	RS-232 Connection & 'L' Shape Pan
<ul style="list-style-type: none"> • Molded ABS or SS Body. • Stainless Steel Pan • Standard dual display-Front & Pole display 				
2 No.	(D) Platform Scale			
	<ul style="list-style-type: none"> • Sturdy MS square pipe structure provides equal Load distribution • Standard Stainless Steel Top cover and Back grill for support • High Resolution Load Cell with Over Load stoppers and Transport Protection • Optional weighing indicators 			
	Capacity	100 kg		
	Readability	10 g		
	Platform Size	600 x 600 mm		
	Power	220-240V AC; 50 Hz adopter and 12V, 7.0 Ah Rechargeable Battery		
	Operating Temperature	+10 to +50 °C		
	Optional	RS-232 Connection & 'L' Shape Pan		
	<ul style="list-style-type: none"> • Molded ABS or SS Body. • Stainless Steel Pan 			
	Standard dual display-Front & Pole display			
1 No.	(E) 200 kg Capacity			
1 No.	(F) 300 kg Capacity			
v.	DIGITAL HAND REFRACTOMETER	1 No.	(A) (0-32 ⁰ Brix), resolution 1%; Accuracy 0.2%	
		1 No.	(B) (28-82 ⁰ Brix), resolution 1%; Accuracy 0.2%	

		1 No.	(C) Digital 00-53 % Brix capacity with ± 2 % Accuracy
		1 No.	(D) Digital 00-83 % Brix capacity with ± 2 % Accuracy
vi.	THERMOMETER	1 No.	Laboratory thermometer, (0-110 ⁰ C), mercury field
vii.	GEL METER	1 No.	220 V; 60 Hz
viii.	PRESSURE COOKER WITH ALL ACCESSORIES	2 No.	A. 10 liter's stainless steel B. 20 liter's stainless steel
ix.	BOTTLE WASHING MACHINE	1 No.	Rotary type; 500 bottle/hour
x.	MICROWAVE OVEN	1 No.	32 liters; 5 power options; defrost option; stainless steel body; digital clock and minute timer; 2500 watt
xi.	MIXER GRINDER WITH JARS	1 No.	1200 watt
xii.	FRUIT PULPER	1 No.	3 HP; automatic ; 500kg/hour capacity
xiii.	DESTONER	1 No.	Stainless steel body; suitable for dates; seed removal; 500 kg/hour
xiv.	JUICE EXTRACTOR	1 No.	10 kg capacity; 220 V; screw type
xv.	CROWN CORKING MACHINE	1 No.	Manual operating ; 28 mm crown neck;
xvi.	CARBONATING MACHINE	1 No.	<ul style="list-style-type: none"> • Soda maker with 1 liter BPA-free PET bottle with cap provided with refillable food grade CO₂ carbonator with approximate capacity of making 25-30 liter soda.
xvii.	VACUUM SEALING MACHINE	1 No.	<ul style="list-style-type: none"> • Single chamber trolley type • Chamber size : 325 x 300x 80mm • Seal length : 300-400mm • No. of seal bar: 1 • Pump capacity : 4 cu.m/hr;0.25hp; single phase
xviii.	COOK TOP (LPG)	1 No.	<ul style="list-style-type: none"> • Made of stainless steel body • Stainless steel pan support • Two brass burners
xix.	SOLAR DRYER	1 No.	<ul style="list-style-type: none"> • Overall Dimension – 1.1 m x 2.3 m x 0.4 m • Collector area of glass -2 square meter. • No of trays -5 • Tray made of SS 304 and of size – 300 mm x 1000 mm x 50mm • Drying chamber made of aluminum sheet and is insulation provided with glass wool of 50 mm.
xx.	TOMATO SLICER	1 No.	<ul style="list-style-type: none"> • Hand operated • All stainless steel 304 grade material

			<ul style="list-style-type: none"> • With sharp blades • Slicing Thickness : 4mm \pm0.5 mm
xxi.	DIGITAL VERNIER CALIPER	1 No.	<ul style="list-style-type: none"> • Measuring capacity :- <ul style="list-style-type: none"> A. 0-8 inch (0-200mm) B. 0-10 inch (0-250mm) C. 0-12 inch (0-300 mm) • Accuracy :- 0.0005 inch or 0.01mm
xxii.	PHYSICAL PURITY WORK BOARD	1 No.	(20 length x 11 width x 4 depth) inch size wooden platform , with magnifying lens fitted in the middle of the platform, both side bearing two drawer for electric bulb fitting
xxiii.	MOISTURE METER	1No.	Automatic digital moisture meter (determination of seed moisture percent for all crops)
xxiv.	SEED DIVIDER	1 No.	Made of 2 to 2.5 mm copper plate, 2 kg capacity, two tray with handle etc.
xxv.	HEATING MENTAL 1.0 LITRE	2No.	<ul style="list-style-type: none"> • Heating block/mental for round bottle flask capacity of 1.0 litre • Accurate temperature control upto 250⁰ C • Heating block preferable aluminum or titanium • Temperature control regulator with accuracy \pm5⁰ C • Temperature control regulator with actual temperature indication • Power supply ; 230 AC 50 Hzs
xxvi.	BLOOD GAS ANALYZER (VETERINARY USE)	1No.	<ul style="list-style-type: none"> • Species specific programmable veterinary software • Icon based color touch screen panel for following parameters: • Electrolytes, Acid base balance, Blood gases, Ionized calcium, Glucose, • Total CO₂, Bicarbonate and base excess in minimum volume of antral/capillary/venous blood and dialysate fluid. • Auto calibration, clot detection and clearance with bio-safe automatic sampling system • Adequate data storage memory • Data export via USB port to PC • AC or battery operated with back-up
xxvii.	DEEP FREEZER	1 No.	<p>(A)</p> <ul style="list-style-type: none"> • Storage Capacity: Approx. 700 lits \pm5 lts • ISO/ISI certified vertical model • Temperature Range: Minus 18 to minus 20 degree C with digital controller display

			<ul style="list-style-type: none"> • Electric Consumption: Single phase operation with energy saving mode • Compressor: Inverter Linear type • Cooling: Express with multi-air flow technique • Door: Double • Inner cabinet: Either good quality fiber with multiple selves • for keeping biological material/ medicines etc. 																																
		01 No.	<p>(B)</p> <table border="1"> <tr> <td>Temperature</td> <td>-20°C</td> </tr> <tr> <td>Design</td> <td>Horizontal Shapes</td> </tr> <tr> <td>Control Panel</td> <td>Touch Key Pad w/ LED Display</td> </tr> <tr> <td>Temperature Regulation</td> <td>Microprocessor Controlled</td> </tr> <tr> <td>Alarm Type</td> <td>Audible & Visible</td> </tr> <tr> <td>Refrigerant</td> <td>CFC free refrigerant</td> </tr> <tr> <td>Construction</td> <td>Double Walled w/ PUF insulation</td> </tr> <tr> <td>Door</td> <td>Solid Door</td> </tr> <tr> <td>Inner Doors</td> <td>Single and Double Doors w/ Tempered Glass</td> </tr> <tr> <td>Cabinet Housing</td> <td>MS w/ Powder Coating (SS optional)</td> </tr> <tr> <td>Internal Chamber</td> <td>Stainless Steel (316 / 304)</td> </tr> <tr> <td>Optional</td> <td> <ul style="list-style-type: none"> - IQ, OQ & PQ Documentation - Seven days circular chart recorder - RS-232 / RS-485 Interface for Temperature, Time & Date - Chart recorder - Outer chamber Stainless Steel 316 / 304 grades - Caster Wheels - Voltage Stabilizer </td> </tr> <tr> <td>Power Supply</td> <td>220 - 240 Volts, 50 Hz. Single Phase</td> </tr> <tr> <td>Certification</td> <td>ISO and CE Mark</td> </tr> <tr> <td>Volume (Liters)</td> <td>340 Liters</td> </tr> <tr> <td>Volume (Cu. Ft.)</td> <td>12 Cu. Ft.</td> </tr> </table>	Temperature	-20°C	Design	Horizontal Shapes	Control Panel	Touch Key Pad w/ LED Display	Temperature Regulation	Microprocessor Controlled	Alarm Type	Audible & Visible	Refrigerant	CFC free refrigerant	Construction	Double Walled w/ PUF insulation	Door	Solid Door	Inner Doors	Single and Double Doors w/ Tempered Glass	Cabinet Housing	MS w/ Powder Coating (SS optional)	Internal Chamber	Stainless Steel (316 / 304)	Optional	<ul style="list-style-type: none"> - IQ, OQ & PQ Documentation - Seven days circular chart recorder - RS-232 / RS-485 Interface for Temperature, Time & Date - Chart recorder - Outer chamber Stainless Steel 316 / 304 grades - Caster Wheels - Voltage Stabilizer 	Power Supply	220 - 240 Volts, 50 Hz. Single Phase	Certification	ISO and CE Mark	Volume (Liters)	340 Liters	Volume (Cu. Ft.)	12 Cu. Ft.
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Design	Horizontal Shapes																																		
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Cabinet Housing	MS w/ Powder Coating (SS optional)																																		
Internal Chamber	Stainless Steel (316 / 304)																																		
Optional	<ul style="list-style-type: none"> - IQ, OQ & PQ Documentation - Seven days circular chart recorder - RS-232 / RS-485 Interface for Temperature, Time & Date - Chart recorder - Outer chamber Stainless Steel 316 / 304 grades - Caster Wheels - Voltage Stabilizer 																																		
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Volume (Cu. Ft.)	12 Cu. Ft.																																		

xxviii.	SOLAR WATER HEATER PLANT (500 LIT. CAPACITY EACH)	4No.	Technical Specification for Glass tube :-	
			Material	1.6 mm Borosilicate Glass 3.3
			Dimension	O.D. 58 mm
				I.D. 47 mm
				Length – 2100 mm
			No. of tubes	35
			Glass Thickness	1.6 mm
			Absorptive Coating	CU-AL-N/SS (Three Layer)
			Absorptance	>92 % AM 1.5
			Emission	<8% (80° C)
			Vacuum	$P < 5 \times 10^{-3}$ PA
			Stagnation Temperature	> 200° C
			Heat Loss	< 0.8 W / sq.mtr
			Max.Strength	0.8 mpa
Technical Specification for Tank :-				
Inner tank	2.5 mm Galvanized Iron (G.I) TIG or MIG Welded			
Outer Cladding	0.45 mm Galvanized Iron (G.I) with P P Powder Coating			
Insulation	50 mm PUF (38 kg / mt ³ density)			
Stand	1.6 mm (G.I) with P P Powder Coating or 30x30x3 mm M.S with P P Powder Coating			
Connections	1”			
Electric Backup Provision	1.25”			
Monkey Net	As per requirement			
Note: Including all accessories (Hot water grade) and plumbing charges.				
xxix.	INSECT STORAGE BOX	40No.	(A) 38x25x7.5 cm	
		5 No.	(B) 45x30x7.5 cm	
		1 No.	(C) 53x45x9 cm	
xxx.	CLEVELAND FLASH AND FIRE POINT APPARATUS	1 No.	<ol style="list-style-type: none"> This apparatus is used for determination of flash point and fire point of petroleum products open cup flash above 70°C The apparatus consists of a cup, heating plate to specific dimension thermometer clip and test flame attachment with swivel joint for passing over test liquid surface in the 	

			<p>prescribed manner, heating is controlled by means of energy regulator fitted to the apparatus.</p> <p>3. Suitable for operation on 220 Volts 50 cycles AC Circuits.</p>
xxxii.	RED WOOD VISCOMETER 1	1 No.	<ul style="list-style-type: none"> • Stainless steel bath with electrical heating arrangement suitable to operate at 220 Volts AC Mains with tap, oil cup with precision stainless steel jet, cup cover, ball valve, and thermometer-clip. Stirrer and M.S. Sheet stand with levelling screws. • Electrically Heated with Digital Temperature indicator and Energy Regulator control.
xxxiii.	RED WOOD VISCOMETER II	1 No.	<ul style="list-style-type: none"> • Stainless steel bath with electrical heating arrangement suitable to operate at 220 Volts AC Mains with tap, oil cup with precision stainless steel jet, cup cover, ball valve, and thermometer-clip. Stirrer and M.S. Sheet stand with levelling screws. • Electrically Heated with Digital Temperature indicator and Energy Regulator control.
xxxiiii.	KINEMATIC VISCOSITY BATH	1 No.	<p>Operational Area: to find out the intrinsic viscosity of liquid fuel and lubricant at constant temperature</p> <p>Capacity: 4 viscometer</p> <p>Control type: PLC digital microcontroller</p> <p>Built in motorized stirrer</p> <p>Uniform heating and stirring</p> <p>Double walled construction with glass window both side</p> <p>Temperature range: 5 °C to 95 °C</p>
xxxv.	GAS WELDING	1 No.	<ul style="list-style-type: none"> • Filled Oxygen and Acetylene Gas cylinder of 7 m³ Capacity. • Pressure Regulator for Oxygen and Acetylene cylinder. • Hose pipe for oxygen and acetylene gas cylinder of length 10 m. • Pipe clamp and cylinder opener. • Cutting nozzles and welding nozzles of various sizes. • Trolley for both gas cylinders. • Lighter. • Various rods and powder of copper, aluminum, brass, mild steel and cast iron. • Helmet (Industrial cap). • Goggles and hand gloves.

			<ul style="list-style-type: none"> • Industrial shoes. • Tool kit.
xxxv.	UNIVERSAL ELECTRICAL WORKSTATION	1 No.	Compatible for machine up to 2HP ,Separate AC/DC measuring section AC Ammeter – 10A AC voltmeter -450Vrms DC Ameter -15AA DC voltmeter -250V DC supply -250V,2A
xxxvi.	DC SUPPLY	1 No.	0-300V fixed DC supply with 50A
xxxvii.	VARIABLE DC SUPPLY	1 No.	0-300V Variable DC supply with 30A
xxxviii.	SINGLE PHASE ALTERNATOR	1 No.	Single phase generator 2.2KVA/5KVA/7.5KVA ,50Hz Regulation \pm 5% ,Insulation F class ,Foot mounted Rated output 2.2KVA/5KVA/7.5 KVA Rated output 2.2KW/5KW/7.5KW Single phase ,current 9.5A/ 21.7A/32.6A,unity Power factor
xxxix.	THREE PHASE ALTERNATOR	1 No.	Three phase generator 5KVA/7.5KVA/10KVA Rated output correspondingly are 4KW/6KW/8.5KW Rated output current 7A/10.4A/13.9A correspondingly 0.8 power factor
xxxx.	SYNCHRONIZING PANEL	1 No.	Analog 5 Amp. AC Ammeter Analog 500 V AC Voltmeter, Vibration Read type Frequency Meter, 45-55Hz. / 415 V, Synchroscope, Accuracy Class 1, Size Phase Sequence Meter, Accuracy Class 1, 100 Watt Bulbs – 6 Nos. BTI 30 Terminals for easy connection & safety.
xxxxi.	SINGLE PHASE TRANSFORMER TRAINER	1 No.	2 KVA 1-phase Copper Wound Transformer with sheet metal enclosure with 50%, 86.6% & 100% tappings on both side Primary & Secondary. Educational type BTI 30 terminals for easy connections & safety. 230 V / 115 V Transformer 230 V / 230 V Identical Transformer
xxxxii.	CONTROL PANEL FOR SINGLE PHASE TRANSFORMER TRAINER	1 No.	Digital 300V AC Voltmeter, Digital 20A AC Ammeter Digital 300V / 20Amp. 1phase UPF Wattmeter Digital 300V / 20Amp. 1phase LPF Wattmeter Single Phase 0 – 230 V / 20 Amp. Auto Transformer (Variac) 1No. Panel mounted.
xxxxiii.	MOMENT OF INERTIA TABLE SETUP	1 No.	Circular Base Type : Iron

			<p>Diameter : 25cm</p> <p>Inertia Discs Type : Aluminium Diameter : 15cm Balancing ring : 04</p> <p>Suspension Wire Type : M.S. Wire Width : 28 gauze</p> <p>Auxiliary Bodies of known MOI</p> <p>Square Sides : 3.2 cm Weight : 252.2 gm</p> <p>Triangle Sides : 3.6 cm Weight : 173.8 gm</p> <p>Cylindrical Radius : 1.9 cm Weight : 300.4 gm</p> <p>Lamp & Scale(Optional) Lamp : Laser light source Scale : 30-0-30 cm</p>
xxxxiv.	TRAFFIC LIGHT CONTROL BY PLC	1 No.	<p>Interface : 20 pin FRC cable with PLC (Scientech 2401 A/B/C or 2403 A/B)</p> <p>Input pin voltage : 24 V DC when particular i/p is activated from PLC</p> <p>Output pin voltage : 5 V DC when particular o/p is activated from PLC</p> <p>Power Supply : From PLC</p> <p>Dimension (mm) : W 255 × D 155 × H 80</p> <p>Weight : 300 gm (approximately)</p> <p>Learning Material : CD (Theory, procedure, reference results etc), Online (optional)</p> <p>Operating Conditions : 0-40 C, 85% RH</p> <p>Included Accessories: 20 Pin FRC cable-1no.</p>
xxxxv.	THREE PHASE TRANSFORMER LAB	1 No.	<p>Mains Supply : 415V ±10%, 50Hz</p> <p>Transformer Specifications Type : Three Phase Power Rating : 1kVA Primary Voltage : 415V Secondary Voltage : 230V Rated Current : 4A Three Phase Variac, 10A Three Phase Resistive Load</p>
xxxxvi.	POWER FACTOR DEMONSTRATOR	1 No.	<p>Mains supply : 230V ±10%, 50Hz</p> <p>Transformer Primary Voltage : 0- 230V AC Secondary Voltage : 0- 115V AC</p>

			<p>Current Rating : 150mA</p> <p>Transformer</p> <p>Primary Voltage : 0- 230V AC</p> <p>Secondary Voltage : 0- 9V, 15-0-15V AC</p> <p>Current Rating : 300mA</p> <p>Resistance : 500Ω, 400W</p> <p>200Ω, 400W</p> <p>Capacitor : 12.5μF 440/450V</p> <p>20μF 440/450V</p> <p>Inductor : 200mH, 1A</p> <p>MCB : 2A</p>
xxxxvii.	POWER MEASUREMENT BY TWO WATT METER METHOD	1 No.	<p>Mains Supply : Three Phase, 415V \pm10%, 50Hz</p> <p>Load : R-L</p> <p>Meters Used</p> <p>Wattmeters : 500W (2 Nos.)</p> <p>Voltmeter (MI) : 500V</p> <p>Ammeter (MI) : 1A</p> <p>MCB : 10A</p>
xxxxviii.	SMPS TRAINING SETUP	1 No.	<p>Input : 80 to 230V AC \pm10%, 50 / 60Hz</p> <p>Output : +12V DC regulated</p> <p>-12V DC regulated</p> <p>+5V DC regulated</p> <p>Switching Transformer</p> <p>Input : 320V DC switching at 132kHz</p> <p>Output : 30V AC (approximate)</p>
xxxxix.	UPS TRAINING SETUP	1 No.	<p>Input : 190 to 260V AC \pm10%, 50Hz</p> <p>Output : 230V AC</p> <p>Transformer</p> <p>Input : 12-0-12V AC</p> <p>Outputs : 0, 190, 220, 240, 260V AC</p> <p>18 - 0V AC for battery charging</p>
xxxxx.	CALIBRATION OF ENERGY METER TRAINER	1 No.	<p>Auxiliary Power Supply : 90 - 270V \pm10%, 50Hz</p> <p>Standard meter</p> <p>Voltmeter Minimum/Maximum : 10/300V</p> <p>Ammeter Minimum /Maximum : 0.1/5A</p> <p>Watt meter Minimum/Maximum : 10/1500W</p> <p>Energy meter Display Resolution : 0.001kWh</p> <p>Frequency : 50Hz</p>
xxxxxi.	DIGITAL MULTIMETER	5No.	<ul style="list-style-type: none"> - 3 ½ Digit. - DC-AC Volts & Currents. - Resistance / Diode / Continuity Testing. - Capacitance /frequency/ Measurement. - Transistor HFE Measurement. - 10A Range Fuse Protected. - Palm size with built-in tilt stand.

			- Auto Polarity.		
xxxxxii.	DIGITAL STORAGE OSCILLOSCOPE	1No.	<p>30 MHz Bandwidth, 2- Channel X10 Magnification 20 ns max sweep speed Stable Triggering upto 40 MHz Alternate Triggering Sharp display & Auto focus Digital Readout with backlit Color LCD Operating Modes : Channel I, Channel II, Channel I & II alternate or chopped (approximately 350 KHz), X-Y operation (Ratio 1:1 Input via CH II), Add/Sub CH I \pm CH II, Invert CH II Vertical deflection (Y) Identical channels Bandwidth : DC -30 MHz (-3 dB) Risetime : 12 ns approximately Deflection coefficients : Microcontroller based 12 calibrated steps 5 mV /div. - 20V / div. (1-2-5 sequence).</p>		
xxxxxiii.	WIND TUNNEL	1 No.	<ol style="list-style-type: none"> 1. Type of tunnel: open circuit, suction type 2. Test section:- 600 \times 600 \times 1000 mm 3. Test velocity range:- 4 to 30 m/s 4. Contraction ratio :- 9 5. Drive:- axial flow fan driven by AC motor with VFD controller, digital speed indicator and control unit. 6. Material of wind tunnel:- FRP 7. Power requirement:- 415V, 3ph, 50 Hz. <p>Essential Accessories:</p> <ol style="list-style-type: none"> 1. Smoke generator 2. Pitot tube with mountings 3. Multi bank inclined manometer 4. Three component balance, strain gauge type for measurement of axial force, normal force. 5. Balance mounting plate and calibration system. 6. NACA 0015 aerofoil model with pressure taps on top and bottom walls. 7. NACA 0015 aerofoil model for balance measurement. 8. NACA 0012 aerofoil model with pressure taps on top and bottom walls. 9. NACA 0012 aerofoil model for balance measurement. 		
xxxxxiv.	AUTOCLAVE	01No.	<table border="1"> <tr> <td>Serilizer Type</td> <td>Manual Sterilizer</td> </tr> </table>	Serilizer Type	Manual Sterilizer
Serilizer Type	Manual Sterilizer				

			Sterilizer Door Size	16 inches
			Sterilizer Chamber Depth	26 inches
			Sterilizer Chamber Volume	22 Gal/85 L
			Sterilizer Dimension	32" x 18" x 27" (476mm x 787mm x 702mm) MF
			Sterilizer Power Voltage	230V Single Phase
			Sterilizer Power Current	50A
			Loading Methods	Front Load
			Sterilizer Program	Manual/Automatic Settings
			Sterilizer High Temperature	260F (126C)
			Color	Stainless
			Type of Heating Element	Internal Heating Element
			Sterilizer Speed	Fast
xxxxxv.	LAMINAR AIR FLOW	01No.	Cleanliness	Class 100
			Velocity	90 FPM \pm 20%
			Hepa Filter	99.999 % efficiency for particles >0.3 μ m
			Pre-Filter	85 % efficiency for particles >0.5 μ m(Washable)
			Particle Count	Better than US Fed Std 209B Class10 and VDI 2083 Class 3
			Cabinet	Laminated High Quality Wooden Board /PCRC Sheet Powder Coated/Stainless Steel SS 304 (optional 316 grade)
			Work Table	316 or 304 Stainless Steel
			Airflow Speed	Control Speed Controller (Three Step Speed Controller)
			Blower	High efficient centrifugal type with lifetime lubricated

				bearings
			Light	High intensity, low wattage >800 lux LED
			Noise Level	<55 dBA
			Standard Accessories	Air/gas cock and mains power socket (16A)
			Power Supply	220-230 V,50 Hz.
			Optional Accessories	<ul style="list-style-type: none"> - Microprocessor LCD Controller - Digital display for air flow rate - Transparent Front Door - Gauges Pressure (Statics Pressure Mano-Mater) - Magnahelic Gauge (for filter pressure) - U. V. Germicidal Tube in work area - Electronic Filter choke alarm - Spare HEPA Filters - Auto switch on/off for U.V. Germicidal tube & fluorescent light - Hour Meter for UV light
			Working area	120cm W x 70cm H x 60 cm L
xxxxxvi.	REFRIGERATOR	01No.	Type	Top mount freezer
			Door	Standard Double Door
			capacity	350 liter
			cooling	Twin cooling plus
			Compressor	Digital Inverter Compressor
			Energy Star Rating	5 Star

Name and specification of Farm equipment's (Category – B):

Sr. No.	Name of Equipment/Instrument	Quantity	Specifications		
i.	SEED GRADER	1 No	<p>Capacity: 1 Ton/Hr. of pulses All steel construction having two flat oscillating screens perforation cleaning of top screen by beaters and bottom screen by nylon brushes, double aspiration, variable shoe shake 5 HP motor for operation on 3 Ph, A.C. supply Screen size Top : 60-70 x 70-75 cms, bottom 65-70 x130 cms. Regulated feed hopper with feed roller, dynamically balanced fan, air chamber, screen deck and spouts are self-cleaning type. O.A.size: 307 x 142 x 256 cms (LxWxH). Approximate Complete with electric motor, starter, switch, one set of screen and all other standard features.</p> <p><u>SUB-ASSEMBLIES & PARTS</u></p> <ol style="list-style-type: none"> 1. ADDITIONAL SCREEN SET : 5 sets 2. AIR TRUNK:3 Nos 		
ii.	SEED GRAVITY SEPARATOR	1 No.	<p>Capacity: 1.5 to 2 Tons/Hr. Compact and sturdy steel channel frame , deck size 800 x1590 mm (WxL) dynamically balanced fans (3 Nos.) with individual adjustable air control, variable oscillation speed of deck with the help of variable frequency drive, variable lengthwise & sidewise inclination of deck, has hydraulic system for cleaning of deck, regulated feeding, built in air filters. Complete with electric motor of 4 HP for fans and 1 HP for deck, and starter, switch.</p> <p><u>SUB-ASSEMBLIES & PARTS</u></p> <p>ADDITIONAL DECK ASSEMBLY</p>		
iii.	HYDRAULIC TRACTOR TRAILER	1 No.	<p>(A)Galvanize Iron sheet, (size: 12 x 6 feet, 21 inch), channel: 6 x 3, 5 x 2 ½, 10 ton pump (High-speed) two year guarantee, 19 support, 3 ½ channel, 8 gauge trailer galvanize iron sheet size, 32 kg wheel plat, 5 mm floor sheet, ISI 18 ply garneted tyre, 18 x 16 good quality Dharo (1 year guarantee), including RTO, passing charge and insurance</p>		
		1 No.	<p>(B) Hydraulic Tractor Trolley</p> <table border="1" data-bbox="783 1973 1445 2056"> <tr> <td data-bbox="783 1973 1206 2056">Capacity in tons</td> <td data-bbox="1206 1973 1445 2056">4</td> </tr> </table>	Capacity in tons	4
Capacity in tons	4				

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AXLE MS SQ BARIN (mm)	75 x 75														
Bearings	32215/32211														
Tyre Size	9.00x16 (16 ply)														
iv.	9- TEETH CULTIVATOR	1 No.	<ul style="list-style-type: none"> • Angle size 65 x 65 x 8 mm ,Length 6.5 feet (77") • Cultivator dadha (30 mm) width • Iron rod size 65 x 12 mm for banding 												
v.	MANUALLY BOTH SIZE REVERSIBLE PLOUGH(TWO PLOUGH)	1 No.	<ul style="list-style-type: none"> • Two bottom manually reversible plough • Plough wing 10 mm • 35 to 45 H.P. capacity • Weight 340-375 kg (approximate) 												
vi.	HYDRAULIC AND BOTH SIZE REVERSIBLE PLOUGH	2 No.	Weight approximate 340-375 kg Two bottom hydraulic drawn reversible plough, Plough wing 10 mm,25 mm tine size (blade edge), 135x7 mm plate, 30 x 25 mm bottom bar size, 340 kg weight (approximate)45 HP capacity												
vii.	ELECTRIC SUBMERSIBLE PUMP	1 No.	(A) 25 HP ISI, steel body ,Vertical head type, 8 stage pump electrical submersible motor/pump with compatible panel board, ISI cable wire 16mm single 600 feet and accessories												
		2 No.	(B)Power 15 hp (Vertical) , 6" diameter, Discharge 250LPM,Stage 20, Three Phase with Automatic starter and accessories												
		1 No.	(C)20 hp Power Mono block- Submersible (Horizontal), for Drip/Sprinkler irrigation system, with pump rotor, Three Phase with Automatic starter, and accessories												
viii.	ROTAVATOR	1 No.	(A) 5 feet length, 36 blade rotary tiller.												
		1 No.	(B) Suitable for 40-45 hp tractor												
			TRACTOR POWER	40-45 HP											
			OVERALL WIDTH	180 cm											
			TILLAGE WIDTH	150 cm											
			GEARBOX	Multi Speed											
			ROTATED BY	Gear Driven											
			P.T.O. SPEED(rpm)	540/1000											
ROTOR SPEED	210														

			GEAR BOX OVERLOAD PROTECTION	Shear Bolt
			NO. OF FLANGES	6
			NO. OF BLADES	36
			APPROX. WEIGHT	450 Kg.
ix.	AUTOMATIC SEED CUM FERTILIZER DRILL	1 No.	(A) Chasis : 3 x 5 inch chanel frame (86 inch/21 inch width /frame made of 65 x 10 mm) Tin (blade) 20 mm, 1.5 inch square Pipe made of 16 gauge iron sheet to fix tines, double hopper PVC rotor 8 no. x 5 different size suitable for different crop. Speed drill drive wheel plant (Samar) made of 10 gauge iron sheet for ridge making and smoothening 3 x 1.5 inch size and 90 inch length	
		1 No.	(B) Tractor drawn automatic (11 tine seed cum fertilizer drill, all seeds rotter are metal powder coated seed and fertilizer box, 22.5mm tine adjustable all routing system by bearing)	
		1 No.	(C) Automatic tractor drawn	
			Number of tines	9
			Seed/Fertilizer Capacity, Kg	65 / 60
			Soil Opener	Shovel
			Seed and Fertilizer Metering	Fluted Roller Type Metering
			Overall Width, mm	2030
			Operating Width, mm	1800
			Depth of Operation, mm	40 to 60
x.	MONOBLOCK PUMP	1 No.	(A) 0.5 H.P.	
		1 No.	(B) 1.0 H.P.	
xi.	POWER WEEDER	1 No.	Engine type- 2/4, stroke Petrol engine Horse Power-2.5 – 3.0 HP Starting System- Recoil Starter Working Width- 1 feet Working depth- 1.5-2.5 inch	
xii.	MULTIPURPOSE CROP HARVESTER/ THRESHER WITH ACCESSORIES	1 No.	(A) 2.50 feet side counter triple shaft (Auto feeder Thresher) Heavy triple shaft auto feeder, interchangeable double heavy fly wheel heavy base structure, V belt, barring, wheel and with color, No need to remove and fit fly wheel, Facility of changing	

			single and double shaft by direct changing of belt. Accessories: Three set sieve for Wheat, Bajara and Castor, Extra fitted <i>Supdi</i> for collecting sand.
		01No.	<p>(B).</p> <p>Multi grain thresher</p> <ul style="list-style-type: none"> • Auto Feeding Cutter Thresher • Consisting of hopper and automatic bucket type feeding system which is drive by the gear box. • Blower / fan - discharging fodder by dual mouth • Feeder - bucket type feeder (with auto feeding system) • Capacity - 20 to 25 q/h. • Elevator system - there is provision of elevator system to fill the grain into bags and traillerdirectoly • Tractor capacity - 40 hp. Or above connecting to the tractor
xiii.	MINI TRACTOR	1 No.	<p>(A) 4 Wheel Drive capacity 20-25 HP</p> <ul style="list-style-type: none"> • No of cylinder =3 • Swept Volume in =950-1000cc • Engine cooling system-water cooled/air cooled • Rated RPM=2500-3500 • Maximum Torque =5.0 - 6.0 Kg-m • No of Speeds=6+2 • Turning radius=2.0-2.5 m • Haulage capacity= 2.5-3.0 tones
		1 No.	<p>(B) Horsepower : 14-15 hp</p> <ul style="list-style-type: none"> • Engine capacity : 600-900 cm³ • Rated speed :2300-2600 rpm • Tyre (front) : 5.0 x 12 to 5.2 x 14 (4-8 ply) • Tyre (Rear) : 8.0 x 18 (4/6/8 ply) • Transmission : 8+ 2 synchromesh or 6+3 sliding mesh • Cooling : Air or water cooled • Wheelbase : 1430-1520 mm • Turning radius :2.2-2.5 m (with brakes), 2.5-2.7 m (Without brakes) • Ground clearance : 245-300 mm • Lifting capacity : 500-800 kg • Brakes : Dry disc <p>Steering:Manual/ Mechanical</p>
xiv.	MINI TRAILER	1 No.	<ul style="list-style-type: none"> • Size=8 x 5 x1.5 Feet

	(HYDRAULIC)		<ul style="list-style-type: none"> • Floor sheet= 3mm • Side sheet=3mm • Support angle=3 x 1.5 angle (10 Support) • Chassis = 3 piece =3 x1.5 (2 No),4 x 2 (1 No) • Wheel plate= 24 kg weight • Hydraulic pump= 2.5-3.0 ton capacity 	
xv.	MINI TRACTOR CULTIVATOR (ADJUSTABLE)	1 No.	<ul style="list-style-type: none"> • Length =5 feet • Tine = 27mm(7 No)(one pieces bracs) • Frame = 1.5” x1.5” bar 	
xvi.	MINI TRACTOR SEED DRILL (MULTIPURPOSE)	1 No.	<ul style="list-style-type: none"> • Frame size= 65” x 23” • Tine= (9 No.)=20mm • Metal rotor /bearing system • Double petty (powder coated) • Adjustable speed box 	
xvii.	MINI TRACTOR ROTAVATOR	1 No.	<ul style="list-style-type: none"> • Heavy duty PTO shaft with cover=540 rpm • Width=90-110 cm. • Hp=12+ • Side Drive Gear • Blade ‘L’ type=(20 N0) • Strong 3 point linkage frame 	
xviii.	DIGGER	01No.	Hydraulic Post Hole Digger Auger size(inch)- 18 to 24 Max. depth of hole (inch) -36	
xix.	CULTIVATOR	01No.	Number of Tynes	9
			Type of mounting	3 point Linkage
			Overall Length (mm)	2000
			Overall Width (mm)	870
			Overall Height (mm)	1000
			Width of Cut (mm)	1860
			Shovel points(Reversible) (mm)	63
			Suitable HP Range	35 HP & Above
xx.	MOLD BOARD PLOUGH	01No.	Hydraulic reversible 2 bottom MB plough	
			No of Bottom	2
			Size of Board in (mm)	305
			Complete width of Cut in (mm)	610
			Depth of Cut with medium soil (mm)	305
			Overall Length x Width x Height in (mm)	1370 x 920 x 1030
			Suitable HP Range	35 Above
xxi.	DISC PLOUGH HYDRAULIC	01No.	Overall Length (mm)	1600 mm
			Overall Width (mm)	1321 mm

	REVERSIBLE 2 BOTTOM		Overall Height (mm)	1270 mm
			Number of discs	2
			Diameter of disc (mm)	660 mm
			Depth of cut (mm)	254 mm
			Overall Length (mm)	1600 mm
			compatible tractor	30-40 HP
xxii.	DISC HARROW	01No.	Number of Disc	12
			Type of mounting	3 point linkage
			Disc Dia (mm)	22" or 24" x 4 mm
			Disc Type	Front: Notched, Rear:
			Overall: Length x	2100 x 1450 x 1260
			Disc Spacing(mm)	225 mm
			Width of Cut (mm)	1100
			Suitable HP Range	35-40 HP

