

निविदा सम्बन्धी दस्तावेज निम्नानुसार अपलोड करावें।

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26	Annual Turnover Certificate from Chartered Accountant (Letter Head with seal, e-mail address, Mobile Number, Firm full address)	
27	Literature/Leaflets/Catalogue	
28	Authorization Certificate	

Signature of bidder with seal

29	Form of Bid-Security Declaration (on Non Judicial Stamp Paper Rs. 50/- + 30 % Surcharge)	
30	Scanned copies of Bid Fee Challan No.----- Date----- Rs.----- submit to Technical Education, Jodhpur	
31	Scanned copies of Processing Fee Challan No.----- Date----- Rs.----- submit to Technical Education, Jodhpur	
32	Sample Given or Not (If Demanded) As per Annexure - H	
33	Any other Document	
34	Authorization of Digital Signature (if applicable)	
35	Scanned copy of power of Attorney to sign the Tender document (If Required)	
COVER – II : Financial/Price Bid/BOQ (.xls)		
36	Price bid/BOQ Details of Price quoted of the material offered in Price bid/ BOQ	

निम्नांकित बिन्दुओं की पालना अवश्य ही करें :-

1. क्रम संख्या 1 से 35 से सम्बन्धित समस्त दस्तावेजों पर 40 पेज नम्बर से आगे के नम्बर लगावे। तत्पश्चात् दस्तावेज पर पेज नम्बर अंकित कर उपरोक्तानुसार पेज नम्बर अंकित करने के पश्चात् दस्तावेज अपलोड करे।
2. लीफलेट/कैटलॉग/लिट्रेचर प्रत्येक आइटम अनुसार होना चाहिये (जिसमें मैनुफैक्चर का पूरा नाम, पत्राचार व्यक्ति के मोबाईल नम्बर/दूरभाष नम्बर/ई-मेल पूर्ण अंकित हो) जिस पर एनेक्चर "एच" के किस क्रम संख्या से सम्बन्धित है क्रम संख्या अंकित करावें।
3. अगर आपको क्रयादेश जारी किया जाता है तो क्रयादेश में वर्णित आपूर्ति अवधि में सामानों की आपूर्ति करावें। अगर किन्हीं परिस्थितियों के दृष्टिगत आप समयावधि में आपूर्ति नहीं कर सकते हैं तो आपूर्ति अवधि समाप्त होने से पहले विभाग को लिखित में सूचित करेंगे। अन्यथा संस्था प्रधान द्वारा आपूर्ति स्वीकार नहीं की जायेगी। नियमानुसार निदेशालय द्वारा आपूर्ति अवधि बढ़ाने के पश्चात् ही सामानों की आपूर्ति करावें।
4. एनेक्चर "एच" जो डाउन लोड किया जायेगा उस में सूचना भरकर उसी को अपलोड किया जायेगा आपके लेटर पर एनेक्चर "एच" तैयार कर अपलोड नहीं किया जायेगा। फिर भी आपके द्वारा फर्म के लेटर पर अलग से एनेक्चर एच तैयार कर अपलोड किया जायेगा तो उस निविदा को रिजेक्ट कर दिया जावेगा। जिसके सम्बन्ध में किसी प्रकार के पत्राचार पर विचार नहीं किया जायेगा।
5. पेज संख्या 3 से 40 के डोक्यूमेंट डाउन लोड करने के पश्चात् पूर्ण सूचना भर पुनः अपलोड किया जायेगा। फर्म के लेटर पर पेज संख्या 3 से 40 के डोक्यूमेंट तैयार कर अपलोड नहीं किये जायेंगे।
6. अगर फर्म मैनुफैक्चर है तो SSI यूनिट का प्रमाण पत्र जिसमें किस आइटम के मैनुफैक्चर है का प्रमाण संलग्न करे।
7. निविदा भरने में या किसी प्रकार का संशय हो तो दूरभाष संख्या 0291-2434271, 2434395 पर प्रातः 11.00 बजे से दोपहर 4.00 बजे तक वार्ता कर सकते हैं।

I/we have carefully read and understood above instruction

Signature of bidder with seal



Signature of bidder with seal

BID DOCUMENT FORM

1. Name of item :- _____
2. Name & full address of the firm submitting the bid along with Tel. No., Fax No. & e-mail/
Mobile No.
M/s : _____
Full Address : _____
Tel. No./FAX/Mobile : _____
e-mail : _____
3. Addressed to :- **Director (Education), Directorate of Technical Education Rajasthan,
Jodhpur- 342011** (e-mail :- dte_raj@rajasthan.gov.in)
4. Reference : e-Tender Notice No 3/2020-21 Dated
5. The Processing fee of Tender cost up to 50.00 Lacs Rs. 500/- & Rs. 50.00 Lacs above Rs.
1000/-, Bid fee as per tender notice should be deposited vide e-GRAS challan concern head.
6. All documents required as per bid documents are enclosed.
7. Goods will be delivered within the stipulated delivery period from the date of the supply order at
Jodhpur or the designated place mentioned in the work order.
8. I/ We agree to abide by all the Terms & conditions mentioned in e-Tender Notice No.- 3 /2020-
21 dated issued by the Department and also agree to further Terms & Conditions
including special conditions of the said tender notice given in the attached sheets (all the pages,
all document, all document Check list S.N. 1 to 34 and other required document of which has
enclosed signed with stamp by me/ us in token of my/our acceptance of the terms & condition
mentioned therein) otherwise concerned Tender will not be considered for Technical Evaluation
full responsibility by me.

**SIGNATURE OF THE BIDDER
WITH SEAL AND DESIGNATION**

* The words bid or tender and bidder or tenderer where ever mentioned in attached documents are synonyms and
having same meaning.



GOVERNMENT OF RAJASTHAN
DIRECTORATE OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR

Instruction to Bidders for Online Bidding (e-Tendering)

Information to be disseminated to prospective bidder regarding on line Bidding.

1.	The Bid document can be downloaded from web site http://eproc.rajasthan.gov.in & submitted online in electronic format on same web site.
2.	Office address :- Director (Education), Directorate of Technical Education Rajasthan, Jodhpur-342011 Phone- 0291-2434271 Fax- 2430398 e-mail ID: dte_raj@rajasthan.gov.in
3.	To participate in online Bids, Bidders will have to possess Digital Signature Certificate (type II or type III) as per information Technology Act-2000 using which they can sign their electronic bids, Bidder can procure the same from any CC approved certifying agency, i.e. TCS safecrypt, Ncode etc. or they may contact e-procurement Cell Department of It & C, Government of Rajasthan for further assistance: Bidder who already have a valid Digital Certificate need not required to procure a new Digital Certificate. Contact No. : 0141-4022688 (Help desk 10 am to 6 pm on all working days) E mail: eproc@rajasthan.gov.in Address: e-Procurement Cell, RISL, Yojna Bhawan, Tilak Marg, C-Scheme, Jaipur.
4.	Before electronically submitting the Bid, it should be ensured that all Bid papers including conditions of contract etc. are digitally signed by the Bidder and filled up as per the Bid Guidelines.
5.	Training for the bidders on the usage of e-tendering System is also being arranged by RISL on regular basis. Bidders interested for training may contact e-Procurement Cell, RISL for booking the training slot.
6.	Bidders are also advised to refer "Bidders manual" available under "Downloads" section for further details about the e-tendering process.
7.	RISL Processing fees Tender cost up to 50.00 Lacs Rs. 500/- & Rs. 50.00 Lacs above Rs. 1000/- [in addition to Bid form Fees] which are as per e-tender.
8.	As per circular No.F6(5)Finance/GF&AR/2008 date 24.07.2020 of Finance Department, Jaipur Rajasthan make arrangement of Bid Fee, RISL fee in single challan method on e-GRAS portal. <ol style="list-style-type: none"> 1. Open e-GRAS portal (https://egras.raj.nic.in) and create loginID using New User Up and Signing UP. 2. After creating profile of the bidder on e-Grass for e-procurement the bidder has to deposit bid document fee amount and processing fee of RISL through single challan online. The RISL processing fee will be deposited in the budget head 8658-00-102-(16)-[01]. A provision will be available e-GRAS to deposit bid document fee in the revenue head 0075-00-800-(52)-[01]. 3. The bidder has to deposit the above amount of e-GRAS by creating a single challan and the uploading scanned copy of the challan with CIN No. on e-procurement portal in technical bid. 4. Select Department Name 102-Technical Education Department, jodhpur and then select service option. 5. In Service Challan option Select Tender Fee-e Proc. 6. Insert District and Select Office 1045-Directorate of Technical Education, Jodhpur 7. Select One Time Option in Period option. 8. Select payment mode. 9. for detail process can viewed e-GRAS portal (https://egras.raj.nic.in/)

Signature of bidder with seal



The following documents must be attached with

Technical Bid (First Cover in pdf) failing which Bid is liable to be rejected.

- a. Scanned copies of Bid fee, Processing fee e-Gras Challan
- b. Scanned copies of Bid document form along with Conditions of tender (SR-16) & Special Terms & Conditions duly signed and sealed by the authorized signatory.
- c. G.S.T. registration certificate and G.S.T. Challan.
- d. Instructions to bidders document duly signed & sealed by the bidder
- e. Scanned copy of Power of attorney for authorized signatory to sign the tender document.
- f. All the technical specification and details of the tendered item and technical specification in tabular form must be submitted as indicated at Annexure - H
- g. Price charging certificate as per (Annexure G).
- h. Declaration by the tendered (SR 11). Annexure -E
- i. Scanned copy of PAN card.
- j. Annexure A, B, C, D, F & M to Q & R (Bid Security Declaration) duly signed with seal.

Signature of bidder with seal

- k. Scanned copy of form Entrepreneurial Memorandum Part-II/ Udyog Aadhar with item and Annexure -K to avail benefit of EMD at reduced rate for SSI unit(If required). A separate affidavit (Annexure-I) in support for inclusion of all tendered items in the Entrepreneurial Memorandum Part-II/Udyog Aadhar issued by Industries Department must be submitted along with the bid .
- l. Prescribed check list
- m. Format of RTGS/NEFT as per Annexure -J
- n. Any other documents which the bidder wants to submit and/ or any document as per tender.
- o. Certificate of Annual Turnover from Chartered Accountant.
- p. Authorization certificate in Annexure-L, L-1, L-2 (if applicable)

Note: The bidder must upload scanned copies of all the originally down loaded documents (Duly filled and seal-signed) of this tender only.

Second cover (Financial/Price bid/BOQ-xls) should contain details of price quoted in BOQ.

In absence of the above or wrongly placing the required documents in any other cover or not mentioning the desired information at the specified place/ column, the bid may not be considered and will be rejected. The provisions of RTPP Rules 2013 & RTPP Act



	2012 will prevail in this regard.
10.	Incomplete & conditional Bid in any respect will be rejected without any information.
11.	The Director (Education), Directorate of Technical Education Rajasthan, Jodhpur reserves the right to reject all/ any part of Bid received from the firms/ Bidders without assigning any reason thereof.


**Join. Director/Assistant Director
for DIRECTOR (EDUCATION)
TECHNICAL EDUCATION RAJASTHAN
JODHPUR**

I/we have carefully read and understood above instruction

Signature of bidder with seal

GENERAL CONDITIONS OF TENDER

01. The bidders are requested to submit their bids prior to last date of submission to avoid Non-submission of their bids up to prescribed date due to non-availability of / hanging of website at last moments. The date of submission of bids will not be extended if system is hang up in last hours or congestion.
02. In case, the date fixed for opening of the tenders be declared as a public holiday, the bid shall be opened on the next date on which office re-opens after such holiday(s).
03. Physical submission of bids is not allowed.
04. Tenders shall be valid for a minimum period of **90 days** after the date of opening of tender. Tender mentioning a shorter validity period than specified are likely to be rejected.
05. The bidders who are interested in bidding can download tender documents from **www.eproc.rajasthan.gov.in** up to the stipulated date & time.
06. The bids will have to be Digitally signed by the bidder and submitted online in two covers in electronic format only on website **www.eproc.rajasthan.gov.in**
07. Furnishing of tender offer shall be strictly in the manner as prescribed in Instructions to bidder and terms & conditions of tender, failing which the tender is liable for rejection.
08. The following documents are to be uploaded in **Two covers** of the bid

(A) TECHNICAL BID (First cover-pdf) :

- a. Scanned copies of e-GRAS Challan of Bid fee, Processing fee.
- b. Scanned copies of Bid document form along with Conditions of tender (SR-16) & Special Terms & Conditions duly signed and sealed.
- c. G.S.T. registration certificate and G.S.T. Challan.
- d. Instructions to bidders document duly signed & sealed by the bidder
- e. Scanned copy of Power of attorney for authorised signatory to sign the tender document.
- f. All the technical specification and details of the tendered item and technical specification in tabular form must be submitted as indicated at Annexure - H
- g. Price charging certificate as per (Annexure G).
- h. Declaration by the tenderer (SR 11). (Annexure E).
- i. Scanned copy of PAN card.
- j. Annexure A, B, C, D & F duly signed with seal.
- k. Scanned copy of form Entrepreneurial Memorandum Part-II/Udhyog Adhar with item and Annexure -K to avail benefit of EMD at reduced rate for SSI unit(If required). **A separate affidavit (Annexure-I) in support for inclusion of all tendered items in the Entrepreneurial Memorandum Part-II /Udyog Aadhar issued by Industries Department must be submitted along with the bid.**
- l. Prescribed check list



Signature of tenderer with seal

- m. Format of RTGS/NEFT as per Annexure -J
- n. Any other documents which the bidder wants to submit and/ or any document as per tender.
- o. Certificate of Annual Turnover from Chartered Accountant.
- p. Authorization certificate in Annexure-L. L-1, L-2 (if applicable)
- q. Financial Bid Undertaking
- r. Bid Security Declaration

Note: The bidder must upload scanned copies of all the originally downloaded documents (Duly filled and seal-signed) of this tender only.

In absence of the above or wrongly placing the required documents in any other cover or not mentioning the desired information at the specified place/ column, the bid may not be considered and will be rejected. The provisions of RTPP Rules 2013 & RTPP Act 2012 will prevail in this regard.

(B) FINANCIAL BID (Second cover-xls) :

It should contain details of price quoted in BOQ.

Note:- The Financial bid of only Technically qualified bidders will be opened. The date of opening of financial bid will be displayed on www.eproc.rajasthan.gov.in .

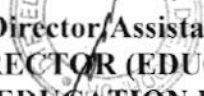
09. The tenderers shall quote F.O.R. destination prices only, indicating the Freight inclusive of unloading and stacking and Insurance charges in Financial/Price Bid/BOQ. They will also indicate the prevailing rates of G.S.T (exclusive) in the quoted prices. If the Financial/Price Bid/BOQ is not filled completely, the offer is likely to be ignored.
10. Material/Equipment on order shall be required to be dispatched on "Freight paid basis".
11. Before electronically submitting the tenders, it should be ensured that all tender documents enlisted above including conditions of contract are signed & sealed on each & every page by the authorized representative of the firm after filling requisite information/details desired in the specification & Qualifying Requirement.
12. All tenders, in which any of the prescribed conditions are not fulfilled or which have been vitiated by errors in calculations, totaling or other discrepancies or which contain over writing in figures or words or corrections not initialed and dated, may be liable to rejection.
13. Payment shall be made to supplier/contractor through RTGS/NEFT for quick and safe transfer of funds across the country. The charges for transfer through RTGS/NEFT shall be on the part of supplier/ contractor. The supplier/ contractor shall furnish particulars to the payment making authorities of DTE in prescribed format to be provided by the purchaser. **(Annexure- J)**
14. No conditional tenders shall be accepted and will be rejected summarily forthwith.
15. The DTE reserves the right to cancel the tender at any time without assigning any reasons. The DTE does not bind himself to accept the lowest or any tender or any part of the tender and shall not assign any reason(s) for the rejection of any tender or a part thereof.



Signature of tenderer with seal

16. No refund of tender fee is claimable for tenders not accepted or forms not submitted.
17. Payment of Bill will be made by **Director (Education), Technical Education, Jodhpur** after the receipt of material and found to entire satisfaction and as per specification and good conditions mentioned there in supply order.
18. The supply will be accepted only on working day in the office working hours.
19. The Tenderer would provide Guarantee for an appropriate period from the date of delivery of the said goods in good conditions. During Course of Guarantee period, the items will have to got replaced **FREE OF COST** at Concerning Institute.
20. Quantity of items can be increased/decreased/cancelled. Department is competent to accept/refuse the Tender/Tenders without quoting any reason thereof.
21. **The Average Annual Turnover of the bidder for last three financial years (2017-18 to 2019-20) or any year of the last three year will be minimum Two times of the tender cost as per NIT. A certificate issued by the Chartered Accountant (Showing the Annual Turnover of last three years) with their Signature, Registration No. & Seal must be submitted along with the bid.**
22. **All applicable statutory deductions regarding GST, income tax etc. are to be made from the suppliers bill.**
23. All other Terms and conditions of GF&AR and Rajasthan Transparency in Public Procurement Act, 2012, Rajasthan Transparency in Public Procurement Rule, 2013 shall be applicable.

Enclosed : As Above


**Join. Director/Assistant Director
for DIRECTOR (EDUCATION)
TECHNICAL EDUCATION RAJASTHAN
JODHPUR**

Signature of tenderer with seal

GOVERNMENT OF RAJASTHAN
DIRECTORATE OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
W-6, GAURAV PATH, JODHPUR. Phone- 0291-2434271 Fax- 2430398
Visit us: www.dte.rajasthan.gov.in e-mail ID: dte_raj@yahoo.com

"CONDITIONS OF TENDER AND CONTRACT FOR OPEN TENDER"

Note : Tenderers should read these conditions carefully and comply strictly while sending their tenders.

1. Tenders are hereby invited in e-tender system for purchase of
Tenders are to be submitted online in electronic format on website <http://eproc.rajasthan.gov.in>. The tender document/specification can be downloaded from above mentioned website
- 1.1 **"Tenders by Bonafide Dealers"** :- Tenders shall be given only by Bonafide Dealers in the goods. They shall therefore, furnish a declaration in the S.R. form 11. (Copy enclosed).
- 2.1 Any change in the constitution of the firm, etc. shall be notified forthwith by the contractor in writing to the purchase officer and such change shall not relieve any former member of the firm, etc. from any liability under the contract.
- 2.2 No new partner/partners shall be accepted in the firm by the contractor in respect of the contract unless he/they agree to abide by all its terms, conditions and deposit with the purchase officer a written agreement to this effect. The contractors receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
3. **G.S.T. REGISTRATION:** No Dealer who is not registered under the G.S.T. Act prevalent in the state where his business is located shall tender. The G.S.T. registration number should be quoted & self attested copy of G.S.T. Registration should be enclosed with tender.
4. Tenderer will have to submit copy of PAN CARD duly attested by the Tenderer without which tender may not be considered.
5. Tender forms shall be filled in ink or typed. No Tender filled in pencil shall be considered. The Tenderer shall sign the Tender form at each page and at the end including amendment sheet enclosed in token of acceptance of all the terms and conditions of the tender.
6. Rate shall be written both in Words and Figures. There should not be errors and or over writing. Correction if any, should be made clearly and initialed with dates. The Rates should mention element of the G.S.T. separately.
7. All Rates quoted must be F.O.R. Destination and should include all incidental charges except octroi. G.S.T., which should be shown separately. In case of Local supplies the rates should include all taxes etc. and no cartage of Transportation charges will be paid by the Government and the delivery of the goods shall be given at the premises of purchase officer/F.O.R. Destination Stores as mention in tender Document. Goods to be purchased are for the purpose of official use. Hence, octroi is not payable. The rates, therefore, should be exclusive of octroi and local tax. In case goods to be purchased are for the purpose of resale or use as manufacture of any goods for sale. the Rates shall inclusive of octroi and local tax. In the former case a certificate in the prescribed form will be furnished along with the supply order.

Signature of bidder with seal



8. 8.1 Preference to Local Industries Registered with the Director of Industries, Rajasthan, Jaipur over the Tendering Units, outside the State of Rajasthan as per the policy approved by the government will be operative.
- 8.2 Under the different situations between local tendering unit of S.S.I. Rajasthan and outside the State of Rajasthan the policy as laid down by the Government will be operative & rule amended up to date shall be applicable. (Amended vide Finance Department Order No. F-15 (1) FD/CSPO/9608/2000 Date 21/03/2000).
9. **VALIDITY :** Tenders shall be valid for a period of **90 days** from the date of opening of Tender.
10. The approved supplier shall be deemed to have carefully examined the conditions, specifications, size, Make and drawings, etc. of the goods to be supplied. If he has any doubts as to the meaning of any portion of these conditions or of the specifications, drawing, etc. he shall before signing the contract, refer the same to the purchase officer and get clarification
11. The contractor shall not assign or sublet his contract or any substantial part thereof to any other agency.
- 12.1 **SPECIFICATIONS :** All article supplied shall which strictly confirm to specifications. Trade mark laid down in the Tender form and wherever articles have been required according to ISI specifications. Those articles should confirm strictly to those specification and should bear such marks.
- 12.2 The supply of articles marked with a struck/at serial number shall in addition, confirm strictly to the approved samples(as per Annexure "H" if demanded) The supply shall be of the very best quality and description. The decision of the confirm to the specification and are in accordance with the samples. If any, shall be final and binding on the tenderers.
- 13.1 **WARRANTY/GUARANTEE CLAUSE :** The Tenderer would give guarantee that the goods/stores/ articles would continuous to confirm to the description and quality as specified for a minimum period of **12 Months** from the date of delivery of the said goods/stores/articles to be purchased and that not with standing the fact that the purchasing entity may have inspected and/or approved the said good/stores if during the aforesaid period of 12 months. The said goods/stores/articles to discovered to confirm to the description and quality aforesaid or have determined (and the decision of the purchase committee in that behalf will be final and conclusive). The purchasing entity will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to confirm to the said description and quality, on such rejection the goods/articles/stores will be at the seller's risk and all the provision relating to rejection of goods. etc. shall apply. The tenderer shall if so called upon to do replace the goods, etc.

or such portion thereof as is rejection by the purchase committee, otherwise the tenderer shall pay such damage as may arise by reason of the breach of the condition here in contained. Nothing here in contained shall prejudice any other right of the purchase officer

Signature of bidder with seal



in that behalf under this or otherwise.

- 13.2 In case of machinery and equipment also guarantee will be given as mentioned in clause 13 (i) above and the tenderer shall during the guarantee period replace the parts if any remove any manufacturing defect if found during the above period so as to make machinery and equipment operative. The Tenderer shall also replace machinery and equipments in case it is found defective which cannot be put to operations due to manufacturing defect etc.
- 13.3 In case of machinery and equipment specified by the purchase, officer the tenderer shall be responsible for carrying out annual maintenance and repairs on the terms and conditions as may be agreed. The Tenderer shall also be responsible to ensure adequate regular supply of spare parts needed for as specific type of machinery and equipments whether under their annual maintenance and repairs rate contract or otherwise. In case of change of model he will give sufficient notice to the purchase officer who may like to purchase spare parts from them to maintain, the machinery and equipment in perfect condition.
- 14.1 **INSPECTION:** The purchase committee or his duly authorized representative shall at all reasonable time have access to the suppliers premises and shall have the power at all reasonable time to inspect and examine the material and workmanship of the goods/equipments/machineries during manufacturing process or afterwards as may be decided.
- 14.2 The tenderer shall furnish complete address of the premises of his office, godown and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose. In case of those dealers who have newly entered in business a letter of introduction from their bankers will be necessary.
15. **SAMPLES**(as per Annexure "H" if demanded): Tender for articles marked within the schedule shall be accompanied by *one* set of samples of the articles tendered properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each samples by the officer receiving the samples. Samples if sent by train, etc. should be dispatch freight paid and the R.R. or G.R. should be sent under a separate registered cover. Samples for catering food items should be given in a plastic box or in polythene bags at the cost of the tenderer.
16. Each samples (as per Annexure "H" if demanded)shall be marked suitable either by written on the sample or on a slip or durable paper securely, fastened to the sample the name of the tenderer and serial number of the item, of which it is a sample in the schedule.
17. Approved samples(as per Annexure "H" if demanded) would be retained free of cost up to the period of six month after the expiry of the contract. The government shall not be responsible for any damage, wear and tear or loss during testing, examination etc. during the period these samples are retained. The samples shall be collected by the tenderer on the expiry of the stipulated period. The Government shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by the government and no claim for their cost etc. shall be entertained.
18. Sample (as per Annexure "H" if demanded) not approved shall be collected by the unsuccessful tenderers. The government will not be responsible for any damage, wear and tear or loss during testing examination etc. During the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost etc. shall be entertained.



Signature of tenderer with seal

19. Supplies when received shall be subject to inspection to ensure whether they confirm to the specifications or with the approved samples. Where necessary or prescribed or practical, tests shall be carried out in government laboratories, reputed testing house. Like Shri Ram Testing house, New Delhi and the like another supplies will be accepted only where the articles confirm to the standard of prescribed specifications as a result of such tests.
20. **DRAWLS OF SAMPLES :** (as per Annexure "H" if demanded) In case of tests, samples shall be drawn in four sets in the presence of tenderer of his authorize representative and properly sealed in their presence. Once such set shall be given to them, one or two will be sent to the laboratories and/or testing house and the third or forth will be retained in the office for reference and record.
21. **TESTING CHARGES :** Testing charges shall be borne by the Government. In case urgent testing is desired to be arranged by the tenderer or in case of test results showing that suppliers are not up to the prescribed standards or specifications, the testing charges shall be payable by the tenderer.
- 22.1 **REJECTION :** Article not approved during inspection or testing shall be rejected and will have to be replaced by the tenderer at his own cost within the time fixed by the purchase officer.
- 22.2 If however due to exigencies of government work, such replacement either in whole or in part, is not considered feasible, the purchase officer after giving a opportunity to the tenderer of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
23. The rejected articles shall be removed by the tenderer within **15 days** of intimation of rejection after which purchase officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the tenderer risk and on his account.
24. The tenderer shall be responsible for the proper packing so as to avoid damage under normal condition of transport by sea, rail and road or air and delivery of the material in good condition to be consignee at destination. In the event of any loss and breakage or leakage or any shortage the tender shall be liable to make good such loss and shortage found at the check/inspection of the materials by the consignee. No extra cost on such account shall be admissible.
25. The contract for the supply, can be repudiated at any time by the purchase officer, if the supplies are not made to his satisfaction after giving an opportunity to the tenderer of being heard and recording of the reasons for repudiation.
26. Direct or Indirect canvassing on the part of the tenderer or his representative will be disqualification.
- 27.1. **DELIVERY PERIOD**
The Tenderer whose tender is accepted shall arrange supplies within a period as mentioned below from the date of supply order-

S.No.	Items	Quantity	Delivery Period
			Up to 30 days

- 27.2. At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased, but such increase shall not exceed 50% of the quantity specified in the bidding documents. It shall be without any change in the unit prices or other terms and conditions of the bid and the bidding documents.



Signature of tenderer with seal

27.3 If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding documents.

27.4 Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract. Delivery or completion period may also be proportionately increased. The limits of repeat order is 50% of the value of original contract shall not be exceeded in any case.

28.1 Bid-Security Declaration (on Non Judicial Stamp Paper Rs. 50/- + 30 % Surcharge) as per finance department order No. F.2(1)Finance/G&T-spfc/2017 Date 23.12.2020. Declaration must be attach with bid

28.2 Bid-Security Declaration (on Non Judicial Stamp Paper Rs. 50/- + 30 % Surcharge) as per finance department order No. F.2(1)Finance/G&T-spfc/2017 Date 23.12.2020.

As per circular No.F6(5)Finance/GF&AR/2008 date 24.07.2020 of Finance Department,

Jaipur Rajasthan make arrangement of Bid Fee, RISL fee in single challan method on e-GRAS portal.

1. Open e-GRAS portal (<https://egras.raj.nic.in>) and create loginID using New User Up and Signing UP.
2. After creating profile of the bidder on e-Grass for e-procurement the bidder has to deposit document fee and processing fee of RISL through single challan online. The RISL processing fee with be deposited in the budget head 8658-00-102-(16)-[01]. A provision will be available on e-GRASS to deposit bid document in the revenue head 0075-00-800-(52)-[01].
3. The bidderhas to deposit the above amount of e-GRAS by creating a single challan and the uploading scanned copy of the chall with CIN No. on e-procurement portal in technical bid.
4. Select Department Name 102-Technical Education Department, jodpur and then select service option.
5. In Service Challan option Select Tender Fee-e Proc.
6. Insert District and Select Office 1045-Directorate of Technical Education, Jodhpur
7. Select One Time Option in Period option.
8. Select payment mode.
9. for detail process can viewed e-GRAS portal (<https://egras.raj.nic.in/>)



Signature of tenderer with seal

29. **FORFEITURE OF EARNEST MONEY(as per declaration)** : the Earnest Money will be forfeited in the following cases :

- i. When tenderer withdraws or modifies the offer after opening of tender but before acceptance of tender.
- ii. When tenderer does not execute the agreement, any other formality require by Department, if any, prescribed within the specified time.
- iii. When tenderer does not deposit the performance security Money after the supply order is given.
- iv. When he fails to commence the supply of the items as per supply order within the time prescribed.
- v. If the bidder breaches any provision of code of integrity prescribed for bidders specified in the Act and chapter VI of RTPP rules 2013.

AGREEMENT AND SECURITY DEPOSIT (Performance Security) :-

- 30.1 i. Successful tenderer will have to execute an agreement in the **Form 17** (on non-judicial Stamp Paper of the value Rs. 500/- within a period of 15 days of issue of order and deposit security equal to 2.50 % (as per finance (G & T) department notification, Jaipur dated 13.08.2020) of the value of the stores for which tenders are accepted within 15 days from the date of dispatch on which the acceptance of the tender is communicated to him.
- ii. No interest will be paid by the department on the security money.
- iii. Performance security shall be furnished in any one of the following forms-
- (a) deposit through eGRAS.
 - (b) Bank Draft or Banker's Cheque of a scheduled bank.
 - (c) National Savings Certificates and any other script/instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master.
 - (d) Fixed Deposit Receipt (FDR) of a scheduled nationalized bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the Fixed Deposit Receipt that the bidder furnishes an undertaking from the bank to make payment/premature payment of the Fixed Deposit Receipt on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.



Signature of tenderer with seal

- (e) Any other instrument as mentioned in Rajasthan Transparency in Public Procurement Rules 2013.
- v. Performance security furnished in the form specified in clause (b) to (e) of sub-rule {31.1(iv)} shall remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations and maintenance and defect liability period.

- 30.2 i. Firms SSI unit register with the Director of Industries, Rajasthan in respect of stores for which they are registered subject to their furnishing the registration certificate to original form the Director of Industries or a Photo Copy or a copy their of duly attested by any gazette officer will be partially exempted from earnest money and shall pay deposit @ 0.50 % of the estimated value of tender.
- ii. Central govt. & Govt. of Rajasthan under taking will exempted from furnishing security amount.

30.3 FORFEITURE OF SECURITY DEPOSIT: Security amount in full or part may be forfeited in the following cases :

- a. When any Terms and conditions of the contract is breached.
- b. When the Tenderers fails to make complete supply satisfactorily.
- c. Notice of reasonable time will be given in case of forfeiture of security deposit. The decision of the purchase officer in this regard shall be final.
- 30.4 The expenses of completing and stamping the agreement shall be paid by the tenderer and the department shall be : furnished free of charge with one executed stamped counter part of the agreement.
31. i. All goods must be sent freight paid through rail or goods transport. If goods are not sent freight to pay, the freight together with Departmental charge 5% of the freight will be recovered form the suppliers bills.
- ii. R.R. should be sent under registered cover through bank only.

32. INSURANCE

- i. The goods will be delivered at the destination godown in prefect condition. The supplier, if he so desired may be insure the valuable goods against lost by theft destruction or damage by fire, flood under exposure to whether or otherwise viz. (war rebellion, roit etc.) The insurance charges will be borne by the supplier and state will not be required to pay such charges, if incurred.
- ii. The articles may also be got insured at the cost of the purchaser if so desired by the purchaser. In such cases, the insurance should invariably be with life Insurance Corporation of India or its subsidiaries.



Signature of tenderer with seal

33. PAYMENTS :

- i. Advance payment will not be made except in rare and special case. In case of advance payment being made it will be against proof of dispatch and to the extent as prescribed in financial power by rail/reputed goods transports companies etc. and prior inspection, if any. The balance in any will be paid on receipt of the consignment in good condition with the certificate to that effect endorsed on the inspection note given to the tenderer.
 - ii. Unless otherwise agreed between the parties payment for the delivery of the stores will be made on submission of bill in the proper form by the tenderer to the purchase officer in accordance with G.F. & A.R. all remittance charges will be borne by the tenderer.
 - iii. In case of disputed items. 10 to 25% of the amount shall be with held and will be paid on settlement of the dispute.
 - iv. Payment in case of these goods, which need testing, shall be made only when such tests have been carried out, test results received conforming to the prescribed specifications.
- 34.1 The time specified for delivery in the Tender form shall be deemed to be the essence of the contract are the successful tenderer shall arrange supplies with in the period on receipt of the firm order from the purchase office.
- 34.2
- | | |
|--|-------|
| a. Delay up to the one fourth period of the prescribed delivery period. | 2.5 % |
| b. Delay exceeding one fourth but not exceeding half of the prescribed period. | 5.0 % |
| c. Delay exceeding half but not exceeding three fourth of the prescribed period. | 7.5 % |
| d. Delay exceeding three fourth of the prescribed period. | 10 % |
- 34.3 Fraction of a day reckoning period of delay in supplies shall be eliminated if it is less than half a day.
- 34.4 The maximum amount of liquidated damages shall be 10%.
- 34.5 If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, which has placed the work-order for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
- 34.6 Delivery period may be extended with or without liquidated damages if the delay in the supply of goods is on account of hindrances beyond the control of the tenderer.

35. RECOVERIES :

Recoveries of liquidated damages short supply breakage, rejected articles shall ordinary be made from bills. Amount may also be with held to the extent of short supply breakages, rejected articles and in case of failure in satisfactory replacement by the supplier along with amount of liquidated damages shall be recovered from his dues and the security deposit available with the department. In case recovery is not possible recourse will be taken under Rajasthan PDR Act. or any other law in force.

36. Tenderers must make their own arrangement to obtain import license if necessary.



Signature of tenderer with seal

37. If a tenderer imposes conditions which are in addition to or in conflict with the conditions mentioned in his tender is liable to summary rejection. In any case none of such conditions will be deemed to have been accepted unless specifically mentioned in the letter of acceptance of tender issued by the purchase officer.
38. The purchase committee reserves the right to accept any tender not necessarily the lowest, reject any tender without assigning any reasons and accept tender for all or any one or more of the articles for which tenderer has been given or distribute items of stores to more than one firm/supplier.
39. The tenderer shall furnish the following documents at the time of execution of agreement.
- Attested copy of Partnership Deed in case of partnership firms.
 - Registration No and Year of registration in case partnership firm is registered with register of firms.
 - Address of residence and office telephone number in case of sale proprietorship.
 - Registration issued by Registrar of companies in case of company.
40. If any dispute arise out of the contract with regard to the interpretation, meaning and breach of the term of the contract, the matter shall be referred to by the parties to the Head of the Department who will appoint his senior most deputy as the sole arbitrator of the dispute who will not be related to this contract and whose decision shall be final.
41. All legal proceedings, if necessary arise to the institute may by any of the parties (Government or contractor) shall have to be lodged in courts situated in Jodhpur, Rajasthan and not elsewhere.



DIRECTOR (EDUCATION)
TECHNICAL EDUCATION RAJASTHAN
JODHPUR

I/We have carefully read and understood above terms and conditions (from 1 to 41) of the tender and abide by them.

I/We have also certify that all the information and catalogue etc. of the tendered item has been enclosed and no information has been held back by us.

SIGNATURE OF THE TENDERER
With seal and designation

COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF**INTEREST**

Any person participating in a procurement process shall –

- a) not offer any bribe reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process.
- b) not misrepresent or omit that mislead or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation.
- c) not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process.
- d) not misuse any information shared between the procuring entity and the Bidders with an intent to gain unfair advantage in the Procurement process.
- e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the Procurement process.
- f) not obstruct any investigation or audit of a Procurement process.
- g) disclose conflict of interest, if any and
- h) disclose any previous transgressions with any Entity in india or any other country during the last three years or any debarment by any other procuring entity.

CONFLICT OF INTEREST :

The Bidder participating in a bidding process must not have a conflict interest.

A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliances with applicable laws and regulations.

A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but limited to :

- a) have controlling partners/shareholders in common; or
- b) receive or have received any direct or indirect subsidy from any of them; or
- c) have the same legal representative for purposes of the Bid; or
- d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder or influence the decision of the Procuring Entity regarding the Bidding process; or
- e) the Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the bidder is involved. however, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
- f) the Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
- g) Bidder or any of its affiliates has been hired (or to proposed to be hired) by the Procuring Entity as engineer-in charge/consultant for the contract

Signature of tenderer with seal



DECLARATION BY THE BIDDER REGARDING QUALIFICATIONS

In relation to my/our Bid submitted to for procurement of in response to their notice inviting Bid No. Dated I/We hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that;

01. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
02. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Documents;
03. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
04. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to entire to a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
05. I/we do not have conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date :

Place :

Signature of Bidder with seal

Name :

Designation :

Address :



GRIEVANCE REDRESSAL DURING PROCUREMENT PROCESS

The Designation and address of the First Appellate Authority is **Director (Education),**

Directorate of Technical Education Rajasthan, Jodhpur.

The Designation and address of the Second Appellate Authority is **Secretary, Technical**

Education Rajasthan, Jaipur.

01. Filing an appeal

If a Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provision to the provision of the Act or the Rules or the Guidelines issued there under, he may file an appeal to first Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved.

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings.

Provided further that in case a procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filled only by a Bidder whose Technical Bid is found to be acceptable.

02. The officer to whom an appeal is filled under para (1) shall deal with the appeal as expeditiously as possible and shall Endeavour to dispose it of within thirty days from the date of the appeal.
03. If the officer designation under para (1) fails to dispose the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

04. Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely :

- a) determination of need of procurement;
- b) provisions limiting participation of Bidders in the Bid process;
- c) the decision of whether or not to enter into negotiation;
- d) cancellation of a procurement process;
- e) applicability of the provisions of confidentiality.

05. Form of Appeal

- a) An appeal under para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.



Signature of tenderer with seal

- b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

06. Fee of filing appeal

- a) Fee for first appeal shall be rupees two thousand five hundred and second appeal shall be rupees ten thousand, which shall be non-refundable.
- b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

07. Procedure for disposal of appeal

- a) The first Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, Shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be shall,-
 - (i) here all the parties to appeal present before him; and
 - (ii) peruse or inspect documents, relevant records or copies thereof relating to the matter.
- c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.



Signature of tenderer with seal

**MEMORANDUM OF APPEAL UNDER THE RAJASTHAN TRANSPARENCY IN
PUBLIC PROCUREMENT ACT, 2012**

Appeal No. of

Before the(First/Second Appellate Authority)

01. Particulars of appellant :

- (i) Name of Appellant :
- (ii) Official address, if any :
- (iii) Residential address :

02. Name and address of the respondent(s) :

- (i)
- (ii)
- (iii)

03. Number and date of the order appealed against and name and designation of the officer/authority who passed the order (enclosed copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the act by which the appellant is aggrieved :

04. If the Appellant proposes to be represented by a representatives, the name and postal address of the representative :

05. Number of affidavits and documents enclosed with the appeal :

06. Ground of appeal :

.....
.....
.....

(supported by an affidavit)

07. Prayer

.....
.....
.....

Place :

Date :



Appellant's Signature

ADDITIONAL CONDITIONS OF CONTRACT**01. Correction of arithmetical errors :**

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis :

- (i) if there is discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected.
- (ii) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bids does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

02. Procuring Entity's Right to Vary Quantities :

- (i) At the time of award of contract, the quantity of goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. it shall be without any change in the unit prices or other terms and conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 50% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply, if the suppliers fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Suppliers.

03. Dividing quantities among more than one Bidder at the time of award (In case of Procurement of Goods) :

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

**Signature of tenderer with seal**

"DECLARATION BY THE TENDERERS" (S.R. 11)

I / We declare that I am / We are bonafide
/Manufacturer/Whole Sellers/ Sole Distributors/ Authorized Dealer/ Dealers/ Sole Selling/
Marketing Agent in the Good/Stores/Equipments/Furniture's for which I/We have Tendered.
(STRIKE OFF WHICHEVER IS NOT APPLICABLE)

If, this Declaration is found to be incorrect then without prejudice to any other action that
may be taken, my/our security may be forfeited in full and the Tender if any to the extent accepted
may be cancelled.



SIGNATURE OF THE TENDERER
With seal and designation

"G.S.T. DECLARATION"

I, Certify that the goods on which **G.S.T.** has been charged have not been exempted under the **G.S.T. Act**, or the Rules made there under and the amount charged on account of **G.S.T.** is not more than what is payable under the relevant provisions of the **G.S.T. Act** or the Rules made there under.

Certify that we M/s
..... are registered as Manufacturer/Dealer in the
..... (State or Union Territory) under **G.S.T.** Registration No.
.....



SIGNATURE OF THE TENDERER
With seal and designation

PRICE CHARGING CERTIFICATE

I/We hereby certify that the rate offered in Financial bid are reasonable and justified and we are not marketing lower rates to other department on condition of the tender and contract.

**SIGNATURE OF THE BIDDER
WITH SEAL AND DESIGNATION**



FORMAT OF AFFIDAVIT

(On non-judicial Stamp Paper of Rs- 50/- + 30% Surcharge vide FD Circular

I S/o
Aged Years Residing at
Proprietor/Partner/Director of M/s do
hereby solemnly affirm and declare that :

- a) My/Our above noted enterprise M/s has
been issued acknowledgement of Entrepreneurial memorandum Part-II by the District
Industries Centre The acknowledgement No is Dated
and has been issued for manufacturer of following items :
- (i)
(ii)
(iii)
(iv)
(v)
- b) My/Our above noted acknowledgement of Entrepreneurial memorandum Part-II has not
been cancelled or withdrawn by the Industries Department and that the enterprise is
regularly manufacturing the above items.
- c) My/Our enterprise is having all the requisite plant and machinery and is fully equipped to
manufacture the above noted items.

Place :

Signature of Proprietor/ Director
Authorised Signatory with Rubber Stamp & Date

(ATTESTED BY FIRST CLASS MAGISTRATE OR NOTARY PUBLIC)



Signature of bidder with seal

**REAL TIME GROSS SETTLEMENT (RTGS) / NATIONAL ELECTRONIC
FUND TRANSFER (NEFT)**

From: M/s.

To,

The Director (Education),
Directorate of Technical Education Rajasthan,
Jodhpur.

Sub:- RTGS / NEFT Payments.

We refer to remittance of our payments using RBI's RTGS/NEFT. Our payments may be made through the above system to our under noted account at our cost :-

Name of Firm	:	
Full Address	:	
Mobile Number	:	
mail ID for Payment Information	:	
Email Address	:	
PAN Number	:	
Bankers Name	:	
Branch Name	:	
9 Digit Code of Bank (Appearing on the MICR Cheque issued by the Bank	:	
Account Type with Code	:	
Account Number (as appearing on Cheque Book)	:	
IFSC Code for RTGS	:	



Signature of Bidder
with Stamp & Address

Annexure-K (If Applicable)

FORMAT OF AFFIDAVIT

(On Non-judicial Stamp Paper of Rs. 50/- + Surcharge)

I.....S/o.....Aged.....
years, residing at Proprietors/Partner/Director
of M/s.....do hereby
solemnly declare that:

- a. all items tendered by me/us in NIT No. 2/2020-21 as per Column 1 Part & 2 issued by Director (Edu.), Directorate of Technical Education, Jodhpur are included in Entrepreneurial Memorandum part-II/Udhyog Aadhar issued to our firm by the Industries Department of Rajasthan.
- b. the rebate in tender fee & earnest money is applicable to our firm as per rules made for SSI units.
- c. if any discrepancy is found later our tender will be liable for rejection including forfeiture of earnest money/security money deposit along with any legal action as per the tender terms & conditions.

Place :

Signature of Proprietor/ Director
Authorized Signatory with Rubber Stamp & Date



ANNEXURE-L

Authorisation certificate to be submitted by Principal manufacturer

It is certified that M/s..... (Name & address of tenderer) is our authorized Distributer/ Dealer. They are authorized to submit tender for As per NIT Column No.2 (Name of item) to Director (Education), Directorate of Technical Education, Jodhpur (Rajasthan) against their Tender Notice No..... Dated-on behalf of us.

The equipment/ Instrument/Machine is guaranteed for the period as mentioned in tender and during the guarantee period the authorized Distributor/Dealer shall replace the parts or rectify any manufacturing defect found in the machine. They are also responsible for after Sale-service during the life time of equipment/instrument/machine. In case of change of authorized Distributor/ Dealer the new authorized Distributor/Dealer will be responsible for guarantee and after sale-service. In case of failure we will be responsible for providing after sale service.

Note:- This authorization certificate should be typed & signed with Contract person Telephone Number, Mobile Number, Email Address by the principal manufacturer on his original letter pad and scanned copy of which must be up loaded with tender otherwise concerned item of the tender will not be considered for technical evaluation.

**Signature of Principal Manufacturer
with rubber stamp**



ANNEXURE "L-1" MANUFACTURER'S AUTHORIZATION FORM (MAF)

To,
{Tendering Authority}

.....
.....

I/We {Name/Designation}..... hereby declare/ certify that {Name/
Designation}..... is hereby authorized to sign relevant documents on
behalf of the company / firm in dealing with Tender:

He/She is also authorized to attend meetings & submit technical & commercial information/
clarifications as may be required by you in the course of processing the Bid. For the purpose
of validation, his/her verified signatures are as under.

Yours faithfully
For and on behalf of M/s (Name of the OEM)

(Authorized Signatory)
Name, Designation & Contact No.
Address: -----with seal



ANNEXURE "L-2" MANUFACTURER'S AUTHORIZATION FORM (MAF)

To,

Directorate of Technical Education

Jodhpur

Subject : Issue of Manufacturer's Authorization Form (MAF)

Reference No.:

Sir,

- a. We {name and address of the OEM} who are original equipment manufactrurers (OEMs) do hereby authorize {M/s} who is our Authorized for Name of item(NIT 2 as per colum No. 2) to bid, negotiate and conclude the contract with you against the aforementioned tender reference for the following Hardware/items(s) manufactured by us:

Item No.	Equipments	Qty.	Unit	Period of Comprehensive OEM Warranty (in yrs.)	Period of end of sale (in months)	Period of end of service (in yrs.)	Period of back to back support (in yrs.)

- b. We undertake to provide Comprehensive OEM warranty for the offered items for the period mentioned above.
- c. We undertake that the item/items being quoted is/have not been and is/are not likely to be declared end of sale for period mentioned above from the date of bid submission.
- d. We undertake that the item/items being quoted is/have not been and is/are not likely to be declared end of service for period mentioned above from the date of bid submission.
- e. We undertake that items offered by the bidder for back to back support, updates and patches for period mentioned above .

Yours faithfully

For and on behalf of M/s (Name of the OEM)



(Authorized Signatory)

Name, Designation & Contact No.

Address: -----with seal

ANNEXURE – M : PROPOSAL FORMAT FOR ORGANIZATION

Selection A: Organization Profile

i. Name of the Organization :

ii. Registered Address :

(Necessary fill Tel., Fax.,

Email, Website, etc.

iii. Legal Status

S.no	Particulars	Registration no.	Date
1	Public Charitable Trust Act		
2	Society under Societies Registration Act		
3	Non-profit company under Indian Companies Act 1956		
4	Registration under Foreign Contribution (Regulation) Act, 1976		
5	Income tax registration:		
	Under Section 12 A		
	Under Section 80 G		
	Under Section 35 CCA		
	Any other Section/Registration		

iv. Bank Details:

Bank Name	Account No.	Date of Opening Account

v. Details of the contract person

Name :
Designation :
Contact No. :
E-mail :

vi. Members Associated with the Organization

S.no.	Name	Nationality	Occupation/qualification	Positions held in the organization	Relationship with any other officer bearers (if any)	Address

Selection B: Operational Background

a. Project related to supply of these type of terms:



S.no	Name of the programme	Period		No of outreach session per month	Details of the Programme	Total Budget	Source of fund
		From	To				

b. Staff Details (Kindly provide the details of 5 key positions in the organization)

Name of Staff	Position	Qualification	Working since

c. Any previous association/working experience with Govt. Sector ? If yes, please provide the details:

d. Volume of Year wise Grant Received during the last 3 years (in different projects):

e. Name of the Donors/Funders during the last 3 Years:

Section C: Basic Documents required to be submitted along with the proposal for Evaluation

- Copy of Trust Deed if registered under Trust Act.
- Copy of Memorandum and Rules if registered under Society Registration Act.
- Annual Report of last one year
- Audited Accounts of last 3 years
- Organizational Chart
- Legal Status of the society-copy of Registration Certificate
- Copy of PAN/TAN Number
- Copy of Latest Income Tax Return Filed
- Any other document relevant to the proposal

Thanking you,

Name of the Bidder:-

Authorized Signatory:-

Seal of the Organization:-

Date:

Place:



ANNEXURE-N : SELF-DECLARATION NO BLACKLISTING
{to be filled by the bidder on Rs. 100/- + 30% Surcharge Non Judicial Stamp}

To,
{Tendering Authority},

In response to the Tender/ NIT : _____ for {Project Title}, as an Owner/
Partner/ Director of _____, I/We hereby declare that
presently our Company/ firm _____, at the time of bidding, is having
unblemished record and is not declared ineligible for corrupt & fraudulent practices either
indefinitely or for a particular period of to me by any State/ Central government/ PSU/UT.

If this declaration is found to be incorrect then without prejudice to any other action that may be
taken, my/ our security may be forfeited in full and out bid, to the extent accepted, may be
cancelled.

Thanking you,

Name of the Bidder:-
Authorized Signatory:-
Seal of the Organization:-
Date:
Place:



Signature of bidder with seal

ANNEXURE- O : CERTIFICATE OF CONFORMITY/ NO DEVIATION {to be filled by the bidder}

To,
{Tendering Authority},

_____,

CERTIFICATE

This is to certify that, the specifications of Hardware & Software which I/We have mentioned in the Technical bid, and which I/We shall supply if I/We am/are awarded with the work, are in conformity with the minimum specifications of the tender/ bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/We have thoroughly read the tender/bidding document and by signing this certificate, we hereby submit our token of acceptance to all the tender terms & conditions without deviations.

I/We are also certify that the price I/We have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the Tender/bidding Documents with contract person Telephone Number, Mobile Number, Email Address

Thanking You,

Name of the Bidder: -
Authorized Signatory: -
Seal of the Organization: -
with contract person Telephone Number, Mobile Number,
Email Address

Date:-
Place:-



ANNEXURE- P : UNDERTAKING ON AUTHENTICITY OF ALL ITEMS and ALLIED EQUIPMENTS
{to be filled by the bidder (On Rs. 100/+ 30%Surcharge Non-judicial stamp paper)}

To,
{Tendering Authority},
_____.

Reference:

This has reference to the items being supplied/ quoted to you vide our bid ref. no. _____
dated _____

We hereby undertake that all the components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components/ parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/ logo. Also that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit out EMD/ SD/ PSD/ for this bid or debar/ black list us or take suitable action against us.

Authorized Signatory:-

Name:

Designation:

Note: The signing Authority should be no lower than Company Secretary of the OEM.



Signature of bidder with seal

ANNEXURE- Q : FINANCIAL BID UNDERTAKING {on bidder's letterhead in technical bid}

To,

Director (Education),

Directorate of Technical Education Rajasthan,

Jodhpur- 342011

Reference: -

Dear sir,

We, the undersigned bidder, Having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/we, the undersigned, offer to supply/work as mentioned in the Scope of the work, Bill of Material, Technical specifications, specifications, Service Level Standards & in conformity with the said bidding document for the same.

I/We undertake that the prices are in conformity with the specifications prescribed. The quote/price are inclusive of all cost likely to be incurred for executing this work. The prices are quoted as required in the price-bid given in

I/We undertake, if our bid is accepted, to deliver the goods In accordance with the delivery schedule specified in the schedule of Requirements.

I/We hereby declare that in case the contract is awarded to us, we shall submit the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.

I/We agree to abide by this bid for a period equal to bid validity and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

I/We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized Signatory

Name:

Designation:



ANNEXURE "R"

Form of Bid-Securing Declaration
(In Non Judicial stamp Paper of Rs. 50/- + 30% surcharge)

Date:

Bid No. :

Alternative No. :

To :

We, the undersigned declare that :

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we are required to pay the bid security amount specified in the Term and Condition of Bid, in the following cases namely :-

- (a) when we withdraw or modify our bid after opening of bids;
- (b) when we do not execute the agreement, if any, after placement of supply/work as per supply/work order within the time specified;
- (c) when we fail to commence the supply of the goods or service or execute work as per supply/work order within the time specified;
- (d) when we do not deposit the performance security within specified period after the supply/work order is placed; and
- (e) if we breach any provision of code of integrity prescribed for bidding specified in the Act and Chapter VI of these rules.

In addition to above, the State Government shall debar us from participating in any procurement process undertaken for a period not exceeding three years in case where the entire bid security or any part thereof is required to be forfeited by procuring entity.

We understand this Bid Securing Declaration shall expire if:-

- (i) we are not the successful Bidder;
- (ii) the execution of agreement for procurement and performance security is furnished by us in case we are successful bidder;
- (iii) thirty days after the expiration of our Bid.
- (iv) the cancellation of the procurement process; or
- (v) the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

Signed :-----

Name :-----

In the capacity of :-----

Duly authorized to sign the bid for and on behalf of :

Dated on day of

Corporate Seal -----

[Note : In case of a Joint Venture, the Bid Securing Declaration must be signed in name of all partners of the Joint Venture that is submitting the bid.]



e-Tender No. 03 Part 02 (2020-2021) ELECTRICAL BRANCH & OTHER RELATED LAB ITEM

TECHNICAL SPECIFICATION


1. The scanned copy of this annexure "H" (original downloaded) duly completed and seal signed by the bidder must be uploaded otherwise bid should not be considered. Any supplementary information may be uploaded separately.
2. The samples where-ever mentioned in specifications must be submitted in this Directorate of Technical, Jodhpur(Education wing) along with physical submission otherwise concerned item will not be considered for technical evaluation.
3. Scanned Copies Items wise Original Literature/Leaflets/Catalogue correct Image as per Tender Specification enclosed, Authorization Certificate of manufacturer prescribed format (Annexure-L) etc. must be enclosed in support of your Make and Specifications otherwise concerned items will not be considered for Technical Evaluation.
4. The delivery period up to 20.03.2021.
5. The Material will be Supplied F.O.R. at Principal Government Polytechnic College, as per order List.
6. Index Page No. 1 & 2 all Document of S. No. 1 to 34(if applicable) and other required document must be enclosed otherwise concerned Tender will not be considered for Technical Evaluation.
7. All the material supplied should be new and no item can be supplied which is refurbished.

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
1	ELCB 240V, 50Hz, 10KA short ckt. With stand capacity, 25A, 2 pole & 30mA sensitivity	4	0	0	0	0	4	
2	Automatic voltage stabilizer 1-phase, 230V, 50 Hz, 5.0 Amp. Input 160-270 V, output 220-240 V, 5.0 Amp with high & low voltage cut off built in Voltmeter, ammeter, indicator & o/p socket	2	0	0	0	0	2	
3	SODIUM VAPOUR LAMP trainer kit of 150 watts with complete accessories.	2	0	0	0	0	2	
4	MERCURY VAPOUR LAMP trainer kit of 125 watts with complete accessories.	2	0	0	0	0	2	
5	Working model of 2 Wheeler auto electric circuit With circuit Diagram & Manual.	1	0	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
6	Working model of 4 Wheeler auto electric circuit With circuit Diagram & Manual.	1	0	0	0	0	1	
7	Working model of Table fan with fault finding facility & Manual	3	0	0	0	0	3	
8	Working model of 200 liter Water cooler with fault finding facility & Manual	1	0	0	0	0	1	
9	Transformer oil dielectric strength testing kit set with Manual	1	0	0	0	0	1	
10	Maxwell's bridge Training board for measurement of inductance & capacitance in lab. with instruction Manual	2	0	0	0	0	2	
11	Continuously Variable capacitor 0-1000 micro farad, 250volt	2	0	0	0	0	2	
12	Portable dynamometer type analog Power Factor Meter with eddy current damping, 120mm wide aluminium scale housed in ebonite case with knife edge pointer and anti parallax mirror. 300 volts, 20 amp., 50 Hz., p.f. range – 0.5 lagging unity and 0.5 leading	1	0	0	0	0	1	
13	Strain gauge trainer with Bourdon tube Strain gauge (350 ohm) : 4 no. gauge factor –2.1 max. bearable weight : 500 gms. stainless steel cantilever width : 2.5 cm cantilever thickness : 0.16 cm cantilever length : 20 cm bridge voltage : 8 v dc Bridge configuration : full bridge Display :3½digit, LED 8 nos. Test points. Power requirement : 230 v 50 Hz AC. Provided with temperature compensation. Complete with all Accessories included : mains cord, standard weights and instruction & operating manual.	1	0	0	0	0	1	
14	Slip ring induction motor starter for 3-phase, 440 Volts, 50Hz, 5HP, 7.5Amp motor with all accessories	1	0	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
15	Three point starter for 250 Volts, 5KW, 20Amp, 1450 rpm DC Compound Motor.	1	0	0	0	0	1	
16	Three point starter for 250Volts, 6KW, 24 Amp, 2800 rpm DC shunt motor	1	0	0	0	0	1	
17	Laboratory type three auto transformer 440/0-440Volts, 5 KVA 50 Hz, for Experiment purposes .	1	0	0	0	0	1	
18	Working model of Three point DC compound motor starter Demonstration model with wooden case and glass cover fully protected for 230 Volts 3 KW DC compound motor.	1	0	0	0	0	1	
19	Working model of Three point DC shunt motor starter Demonstration model with wooden case and glass cover fully protected for 230 Volts 3 KW DC shunt motor.	1	0	0	0	0	1	
20	<p>Experimental set up of 3-phase squirrel cage type induction motor: The experimental set up should be suitable to perform following experiment- study of running and reversing of squirrel cage induction motor, study and performing no load and blocked rotor test, Measurement of slip and plotting of speed-Torque characteristics.</p> <p>The experimental set up should have following features- Panel should have descriptive mimic diagram for comprehensive learning, Power coated panel for safety purpose, earthing and MCBs/Fuse protection. System embedded with latest microcontroller based accurate and reliable digital meters (volt Meters, Ammeters, Wattmeters, etc.) and digital tachometer. Suitable arrangement for mechanical loading of motor. User and experiment manuals. Specification of 3- phase squirrel vage type induction motor- 3 HP, 440 Volts, 50 Hz, 1440 RPM mounted on MS Channel base with automatic star-delta starter.</p>	1	0	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
21	Working model of 1-phase induction motor- One-fourth cut sectional cast iron model for Demonstration purpose of 1-0 KW, 1-phase, squirrel cage type induction motor in which all parts must be visible.	1	0	0	0	0	1	
22	Experimental set up of 3- phase synchronous motor: The experimental set up should be suitable to perform following experiment- study Starting of synchronous motor and plotting of V-curve. The experimental set up should have following features- Panel should have descriptive mimic diagram for comprehensive learning, Power coated panel for safety purpose, ensure full safety of operator by using BS-10 terminals, earthing and MCBs/Fuse protection. System embedded with latest microcontroller based accurate and reliable digital meters (volt Meters, Ammeters, Wattmeters, Power. Specification of 3- phase synchronous motor and exciter- 3 HP, 440 Volts, 50 Hz, 1500 RPM, field voltage 200 volts and field current, 1.1 Ampere mounted on MS Channel base with suitable starter. Exciter- DC shunt generator 250 volts, 2 Ampere coupled with the synchronous motor.	1	0	0	0	0	1	
23	LVDT trainer 01. One board having the following built in parts. (a) $\pm 12V$ D.C. at 50mA I.C. regulated Power Supply for Sine wave Oscillator. (b) 4KHz fixed Sine wave Oscillator having variable amplitude 0–10V (P–P). (c) Digital Panel meter $3\frac{1}{2}$ digits range 200mV. (d) Detector circuit with output adjustment pot. 02. Transducer : Linear variable differential transducer (L.V.D.T.). Range : $\pm 20mm$. (Accuracy $\pm 1mm$, ± 1 Digit)	0	1	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <ul style="list-style-type: none"> * Mains ON/OFF switch and fuse. * Adequate no. of patch cords stackable 4mm spring loaded plug length ½ metre. * Good Quality, reliable terminal/sockets ISO certified company. 							
24	<p>Experiment kit for measurement of temperature using RTD transducer</p> <p>The unit consists of following built in parts :</p> <ol style="list-style-type: none"> 01. ±12V DC at 100 mA, IC Regulated Power Supply. 02. 6 V DC at 100 mA, IC Regulated Power Supply. 03. Four Op-Amp. ICs. 04. Relay 12 V DC, one change over. 05. One NPN transistor. 06. 3½ digits display panel meter, to display temperature in °C. 07. RTD sensor with 3 pin connector. 08. One switch for setting temperature on one side and to read actual temperature on other side. 09. Potentiometer to control temperature. 10. AC mains socket to connect load whose temperature is to be controlled. 11. Adequate no. of other Electronic Components. 12. Mains ON/OFF Switch and Fuse 400 mA. <ul style="list-style-type: none"> * The unit is operative on 230V ±10% at 50Hz AC Mains. * Good Quality, reliable terminal/sockets * Heater 1000 W 230V * Beaker ISO certified company. 	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
25	Experiment kit for Load cell demonstrator 01. $\pm 12V$ D.C. at 100mA, I.C. regulated Power Supply. 02. 5V D.C. at 100mA, I.C. regulated Power Supply. 03. IC for comparison of Load Signal. 04. Load Cell of 3kg with 200mV output. 05. DPM of $3\frac{1}{2}$ digit display for 3kg. 06. Adequate no. of other electronic components. 07. Mains ON/OFF switch and fuse. * The unit is operative on $230V \pm 10\%$ at 50Hz A.C. Mains. * Good Quality, reliable terminal/sockets ISO certified company .E10	0	1	0	0	0	1	
26	Experiment Kit for Study of CT The board should consists of the following built-in parts: 01. Current Transformer INPUT current is 2 Amp & OUTPUT current 200 mA i.e. Ratio 10: 1. 02. Digital AC Ammeter $3\frac{1}{2}$ digits seven segment display having range 0-2A. 03. Digital AC Ammeter $3\frac{1}{2}$ digits seven segment display having range 0-200mA. 04. Three 100 W Bulbs have been provided for load. Controlled by three different switches. 05. Adequate no. of other electronic components. 06. Mains ON/OFF Switch and Fuse 1.5 amp. * The unit is operative on 230 V at 50Hz A.C. Mains. * Adequate no. of patch cords stackable 4mm spring loaded plug length $1\frac{1}{2}$ metre. * Good Quality, reliable terminal/sockets ISO certified company.	0	1	0	0	0	1	
27	Experiment Kit for Study of PT	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>The board should consists of the following built-in parts: 01. Potential Transformer is designed for 300 VAC INPUT & OUTPUT 30 VAC i.e. ratio 10 : 1. 02. Digital AC voltmeter 0-1000V. 03. Digital AC voltmeter 0-200V. 04. Mains ON/OFF Switch and Fuse 100 mA. * The unit is operative on 230 V at 50Hz A.C. Mains. * Adequate no. of patch cords stackable 4mm spring loaded plug length 1/2 meter. * Good Quality, reliable terminal/sockets ISO certified company.</p>							
28	<p>Experiment kit for measurement of temperature using thermocouple. The Set up consists of the following :</p> 01. Digital D.C. Micro voltmeter, 5 decade ranges from 1mV to 10V with 100% over-ranging. 3½ digit LED display. IC amplifier characteristics 02. A Copper-Constantan Thermocouple. 03. Retort stand with ring. 04. Thermometer 0-360°C 05. Sand bath 06. Beaker 250 ml 07. Funnel 4" 08. Tripod stand 09. Test Tube 1" 10. Glycerin 11. Paraffin Wax. 12. Wooden stand. 13. UHF lead 12" with Crocodile clip ISO certified company.	0	1	0	0	0	1	
29	Experiment kit for measurement of angular displacement by	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p> potentiometer transducer 1. Power supply : 230V AC, 50 Hz. 2. Transducer : Resistive. 3. Range : 0 to 270 degree. 4. Moving action : Angular movement by rotating shaft of Potentiometric 5. Excitation Voltage : 5 V DC. 6. Maximum capacity: 110% of rated capacity. 7. Output Display : 3 and ½ digits Digital Panel meter calibrated in degree. 8. All parts are soldered on TAGS on SINGLE PCB with complete circuit diagram SCREEN PRINTED. 9. Standard Accessories : Patch Cords. ISO certified company. </p>							
30	<p>Experiment kit for velocity transducer study</p> 1. Power supply : 230V Ac, 50 Hz. 2. Transducer : Velocity Transducer 3. Range : 0.40 to 35.00 meters/sec, 80 to 6900 feet/minute 4. Accuracy : +/- 5 %. 5. Output Display : 3 and ½ digits Panel Volt meter. 6. Calibration : Through 20 turn pot/preset 7. All parts are soldered on SINGLE PCB with complete circuit diagram SCREEN PRINTED. 8. Standard Accessories : Patch Cords. ISO certified company.	0	1	0	0	0	1	
31	<p>Anderson's bridge</p> <p>Complete kit to measure unknown inductance using Anderson's bridge</p>	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>Accessories supplied with the bridge (i) Null detector (ii) Head Phone- one pair (iii) Taping Key - one connecting wires (iv) Experimental Inductance is supplied with the bridge (v) A.F. Oscillator- one ISO certified company.</p>							
32	<p>20MHz Function Generator Frequency Range 0.002Hz to 20MHz (usable down upto 0.0002Hz) Accuracy 3% upto 1MHz, 5% above. Frequency Indication 3 digit, 0.3" LED display Function Output Sine, Triangle, Square ISO certified company.</p>	0	1	0	0	0	1	
33	<p>Decade Resistance Box Accuracy $\pm 1\%$, 10 Ohm to 111.11K ohm in 4 decades 1 Ohm to 111.11K ohm in 5decades 1 Ohm to 1.1111M ohm in 6decades , total 02 set ISO certified company.</p>	0	1	0	0	0	1	
34	<p>Three phase rheostat load 440 volt ,10 KW , Dissipation/phase 3.3 KW, switch/phase 5 , sequence (0.3-0.5-1-1.5A) , three phase knife switch, four pole MCB , ISO certified company.</p>	0	1	0	0	0	1	
35	<p>Single phase rhoestat load 10 KW, 440 volt, 1-10 KW, 1KW in step, total switches 10 ISO certified company.</p>	0	1	0	0	0	1	
36	<p>Auto transformer Single phase 230 Volts input, 0-300 Volts output, 3 KVA, rotating type. ISO certified</p>	0	1	0	0	0	1	

S.No.	Item with Full Specifications		Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	company.								
37	Auto transformer Three phase 415 Volts input, 0-450 Volts output, 5 KVA, rotating type. ISO certified company.		0	1	0	0	0	1	
38	Tong Tester Digital 0-200A, 0-1000V DC, 0-750V, A.C. Resistance 0- 200- 20K ohm Current 0-10A D.C. (Hand held battery operated)cc		0	1	0	0	0	1	
39	I.C. Regulated D.C Power Supply 0-30V,0-5A Dual Output Variable DC regulated, with short circuit and overload protection, having four digital meter for voltage and current measurement ISO certified company		0	2	0	0	0	2	
40	Kelvin's double bridge set For measurement of resistance below 500 μ ohms with standard resister, standard cell & battery Housed in Bakelite /Wooden case ISO certified company		0	1	0	0	0	1	
41	Ammeter M.I Type Portable Type , Housed in Bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a) Range (0-1000) mA 2 Nos. (b)Range (0-5-10) A 2 Nos.		0	4	0	0	0	4	
42	Ammeter M.C Type Moving coil Permanent magnet type,Housed in bakelite /Wooden case,150 mmScale with antiparallex mirror & Knife edge pointer (a)Range(0-500-1000) mA D.C 2 Nos (b)Range (0-2.5-5.0) A 2 Nos.		0	4	0	0	0	4	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
43	Voltmeter M.I. Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Range (0-30V :2 Nos., 0-300V-600V : 4 Nos.)	0	6	0	0	0	6	
44	Voltmeter M.C. Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer.Range (0-30V : 2Nos., 0-300V-600V : 2 Nos.)	0	4	0	0	0	4	
45	Wattmeter L.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Dynamometer type Voltage 75-150-300 V, Current 1-2 Amp	0	2	0	0	0	2	
46	Wattmeter U.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer . Range 25-50-100 V, 5-10 Amp : 2 Nos ISO certified company	0	2	0	0	0	2	
47	Static Energy meter Single Phase Industrial grade, 0-30 A, 250 V, 50 Hz Accuracy +/- 10% ISI Make	0	2	0	0	0	2	
48	Static Energy Meter three Phase 3-phase, 4 wire, Industrial grade, 50 Hz, 0-30A Amp, 440 V, Accuracy +/- 10% ISI Make	0	2	0	0	0	2	
49	Earth Tester 3/4 terminals with all accessories, screw driver 3 spike with connecting leads As per ISI accuracy +/-1% housed in teak wood or ebonite case with leather case ISO certified company	0	1	0	0	0	1	
50	AC Potentiometer For low voltage measurement Total range 0 to 1.9 V, in three ranges in steps with standard resistor standard cell & 6V Battery, ISO	0	1	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	certified company							
51	D.C. Potentiometer Laboratory type with standard resistor standard cell and 6V battery, ISO certified company	0	1	0	0	0	1	
52	C.R.O with Accessories 10 MHz, Dual beam oscilloscope, vertical deflection coeff-12, calibrated in steps 5 mv/cm to 20 V/cm, input impedance 1M ohm, Input coupler DC AC GND Horizontal deflection bandwidth 10 MHz, Test Voltage 1.6 V, test Freq 50 Hz Equipped with probes, dust proof cover Instruction manual etc, ISO certified company	0	1	0	0	0	1	
53	Variable Capacitor Continuously variable 0-1000 μ F, 250 V, ISO certified company	0	1	0	0	0	1	
54	Stop Watch Analog Least count 0.01 Sec, ISO certified company	0	1	0	0	0	1	
55	Energy meter induction type 1 Phase 230 V, 50 Hz, (0-30) Amp, 1200 Rev / Kwh, ISI certified	0	1	0	0	0	1	
56	Energy Meter Three Phase induction type 440 V, 50 Hz, (0-30) Amp, 4 wire, ISI certified	0	1	0	0	0	1	
57	Regulated D.C. Power Supply 6V / 12V, DC 2Amp DC regulated, with short circuit and overload protection, having four digital meter for voltage and current measurement, ISO certified company	0	1	0	0	0	1	
58	De Sauty Bridge With all accessories ISO certified company	0	1	0	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
59	LCR meter 3 ½ digit, hand held ,battery operated,0-2000µF,0-200H,0-20M ohm	0	1	0	0	0	1	
60	Digital Earth Resistance Tester Digital dual range 0.01 to 5.00 and 1 to 500 ohm supplied with rechargeable Ni-Cd battery and charging adapter with complete kit for earth resistance tester consist of 4 M.S. spikes, 4 spools of wires, 1 hammer 1 screw driver and carrying bag,, ISO certified company	0	1	0	0	0	1	
61	Screw Drivers sets Code 821	0	1	0	0	0	1	
62	Screw Drivers sets Code 802	0	1	0	0	0	1	
63	Combination Plier 8.5 inch, 1000 volt,	0	1	0	0	0	1	
64	Nose plier 6 inch, 1000 volt,	0	1	0	0	0	1	
65	Strain measurement trainer Beam Dimension: Length 300 mm, width 28 mm and thickness 2.5,Mate,rial: Stainless steel,Weights: 1 Kg, in steps of 100gms,Strain gauge: 350 ohms resistance, gauge factor 2 to 2.1,Display: 3½ digit seven segment led display,Connection: 4 core shielded cable,Resolution: 1 micro strain,Excitation: 10 to 12 V DC,Power Supply: 230 V AC 50 Hz	0	1	0	0	0	1	
66	Practical panel for Measurement of armature winding and series field winding resistance of a D.C. Machine by ammeter – voltmeter method. Equipments Required:- It will comprise D.C. Compound Motor 3HP, 220V with starter and protections fitted on M.S. cubicle Panel with Digital voltmeter,	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Digital Ammeter. All the terminals of D.C. Machines will be brought out and all the accessories required to perform the experiment will be provide in the panel.							
67	Practical panel for Measurement of Shunt Field winding resistance of a D.C. Machine by ammeter, voltmeter method. Equipments Required:- It will comprise D.C. Shunt Motor 3HP, 220V with starter and protections fitted on M.S. cubicle Panel with Digital voltmeter, Digital Ammeters (2Nos.). All the terminals of D.C. Machines will be brought out and all the accessories required to perform the experiment will be provide in the panel.	0	1	0	0	0	1	
68	Practical panel for Verification of Kirchhoff's Current Law in DC Circuits. 1 9000 Equipments Required:- It will be complete experimental setup with 3 ammeters (range 0-5amp), wire wound rheostat of different value i.e.50ohm, 100ohm, 150ohm, and lamp load to perform the experiment of KCL.	0	2	0	0	0	2	
69	Practical panel for Verification of Kirchhoff's Voltage Law in DC Circuits. 1 9000 Equipments Required:- It will be complete experimental setup with, wire wound rheostat of different value i.e.50ohm, 100ohm, 150ohm, 3 voltmeters (0-300v) and lamp load to perform the experiment of KVL.	0	2	0	0	0	2	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
70	Practical panel for Verification of Kirchhoff's Current Law in AC Circuits. Equipment Required:- It will be complete experimental setup with 3 ammeters (range 0-5amp), Autotransformer (range 0-300v), and lamp load to perform the experiment of KCL.	0	2	0	0	0	2	
71	Practical panel for Verification of Kirchhoff's Voltage Laws in AC Circuits. Equipments Required:- It will be complete experimental setup with, Autotransformer (range 0-300v), 3 voltmeters (range 0-300v) and lamp load to perform the experiment of KVL.	0	2	0	0	0	2	
72	Practical panel for Determination of B-H Curve of a D.C. Machine Equipments Required:- It will comprise of D.C. shunt Motor (3hp, 240v) with control panel and Digital metering and protection with all allied equipments to perform the experiment.	0	1	0	0	0	1	
73	Practical panel for Measurement of power and power factor of single phase R-L-C Series circuit. It will comprise of resistive, capacitive and inductive load in steps individual terminal for each type of load brought out, digital Ammeter, voltmeter and wattmeter fitted in the panel with continuously variable autotransformer to perform the above experiments on different value of inductance, capacitance and resistance. Completer equipment with control circuits fitted on	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	backlight sheet suitable fit on the table with instruction manual.							
74	Practical panel for Determination of R and L of a choke coil using 3 voltmeter and ammeter. It will comprise of R and L of a choke coil 40w, 240v, 0.4A.and rheostat- 50ohm, 100ohm, 150ohm and single phase variac 230V,8A and using 3 digital voltmeter and one digital ammeter with control panel.	0	1	0	0	0	1	
75	Practical panel for Determination of R and C of a capacitor using 3 ammeter and a voltmeter It will comprise of a capacitor of 2.5 micro farad,250v and rheostat of 50ohm, 100ohm, 150ohm and single phase variac 230V,8A and using 1 digital voltmeter and three digital ammeter with control panel	0	1	0	0	0	1	
76	Tong Tester Digital 0-200A, 0-1000V DC, 0-750V, A.C. Resistance 0- 200- 20K ohm Current 0-10A D.C. (Hand held battery operated)	0	2	0	0	0	2	
77	I.C. Regulated D.C Power Supply 0-30V,0-5A Dual Output Variable DC regulated, with short circuit and overload protection, having four digital meter for voltage and current measurement	0	1	0	0	0	1	
78	Ammeter M.I Type Portable Type Housed in Bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a) Range (0-1000) mA 5 Nos.	0	10	0	0	0	10	

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	(b)Range (0-5-10) A 5Nos.								
79	Ammeter M.C Type Moving coil Permanent magnet type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a)Range(0-500-1000) mA D.C 5 Nos. (b)Range (0-2.5-5.0) A 5 Nos.		0	10	0	0	0	10	
80	Voltmeter M.I. Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Range 0-30V : 5 Nos., 0-300V-600V : 5 Nos.		0	10	0	0	0	10	
81	Voltmeter MC Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a). Range(0-30-60)V DC 5Nos. (c) Range (0-150-300)V DC 5 Nos.		0	10	0	0	0	10	
82	Wattmeter L.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Dynamometer type Voltage Range 0-75-150-300 V, Current 1-2 Amp-03 nos Range 0-75-150-300 V, Current 10-20 Amp-03 nos Range 0-75-150-300 V, Current 2.5-5 Amp-03nos Range 0-250-500 V, Current 2.5-5 Amp-03 nos Accuracy+/- 5%		0	12	0	0	0	12	
83	Wattmeter U.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex		0	12	0	0	0	12	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 mirror & Knife edge pointer Dynamometer type Accuracy +/-5% Range 125-250-500 V, 5-10 Amp : 4 Nos. Range 25-50-100 V, 5-10 Amp : 4 Nos. Range 0-150-300 V, 2.5-5 Amp : 4 Nos							
84	Static Energy meter Single Phase Industrial grade, 0-30 A, 250 V, 50 Hz Accuracy +/- 10% ISI Make	0	5	0	0	0	5	
85	Static Energy Meter three Phase 3-phase, 4 wire, Industrial grade, 50 Hz, 0-30A Amp, 440 V, Accuracy +/- 10% ISI Make	0	3	0	0	0	3	
86	Lead Acid Battery (transparent) 12 V,100Ah ,	0	2	0	0	0	2	
87	Power Factor Meter (-0.3 – 1-- +0.3) PF, 150V to 270 Volts AC 50 Hz ,0 to 10A 4 digit LED display of 12.5 mm Height, cabinet Size of 96mm(H)x96mm(W)x65mm(D)	0	5	0	0	0	5	
88	LCR meter, 3 ½ digit, hand held ,battery operated,0-2000µF,0-200H,0-20M ohm	0	2	0	0	0	2	
89	Frequency Meter analogue 230 V, 0-50 HZ	0	3	0	0	0	3	
90	Screw Drivers sets, code 821	0	5	0	0	0	5	
91	Screw Drivers sets, code 802	0	2	0	0	0	2	
92	Combination Plier 8.5 inch, 1000 volt,	0	5	0	0	0	5	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
93	Nose plier 6 inch, 1000 volt,	0	5	0	0	0	5	
94	<p>Performing Hopkinson's test on a D.C. machin EQUIPMENT REQUIRED</p> <p>DC shunt motor 3HP,220V, 1500 RPM directly coupled on channel frame with flexible tyre coupling to</p> <p>DC shut Generator 220V, 2kw. Both the machines will confirm to ISS 4722.</p> <p>with DC 3 point starter</p> <p>with no volt and overload protection.</p> <p>CONTROL PANEL</p> <p>It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel.</p> <p>ACCESSORIES:</p> <p>1 4' x 2' bakelite sheet with M.S. Box</p> <p>2 D.P.S.T Switches.</p> <p>3 3point DC Starters</p> <p>4 Regulator for motor and generator</p> <p>5 Analog meters Ammeter (0-1A) MC type (1pc)</p> <p>6 Analog meters Ammeter (0-20A) MC type (2pcs)</p> <p>7 Analog meters Voltmeter (0-300V) MC type (2pcs)</p> <p>8 Fuses</p> <p>Complete experimental setup with control panel having analogue meters 96 x 96 mm</p>	0	1	0	0	0	1	

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	 <p>Attachement Hand held Tachometer digital contact type 0-15000 rpm, Loading Rheostat 3kw 1phase 220V</p>							
95	<p>Speed control of DC shunt motor by rheostat control (Both field and armature control). MACHINE REQUIRED D.C. Shunt Motor 2 HP, 220V, 1500 RPM, with all Terminals of Armature and Field brought out on a bakelite sheet fixed to C.I. terminal box fitted on top of the Motor. CONTROL PANEL FOR SPEED CONTROL ON DC SHUNT MOTOR It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 feet x 6 inches with screen printed circuit will be fitted on the panel with duly marked termination and also back door of the panel will have lock facility for safety of panel. ACCESSORIES 1 MC Voltmeter 96 x 96 mm flush mounted 0-300V, – 2 No. 2 MC Ammeter 96 x 96 mm flush mounted 0-10A , 1 No. 3 MC Ammeter 96 x 96 mm flush mounted 0-1 Amp. ‘Continental’ make – 1 No. 4 Tubular Rheostat 1.2A, 230 Ohms – 2 Nos. (for field & Armature control) 5. Indicating light 6 Educational type insulated terminals 7. DPIC Switch 16A, 240V, 8. DC 3point Starter suitable for above motor. attachement Hand held Tachometer digital contact type 0-15000rpm</p>	0	1	0	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
96	Tong Tester Digital 0-200A, 0-1000V DC, 0-750V, A.C. Resistance 0- 200- 20K ohm Current 0-10A D.C. (Hand held battery operated)	0	2	0	0	0	2	
97	Ammeter M.I Type Portable Type Housed in Bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (b) Range (0-1000) mA 5 Nos. (b)Range (0-5-10) A 5Nos.	0	10	0	0	0	10	
98	Ammeter M.C Type Moving coil Permanent magnet type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a)Range(0-500-1000) mA D.C 5 Nos. (b)Range (0-2.5-5.0) A 5 Nos.	0	10	0	0	0	10	
99	Voltmeter M.I. Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Range 0-30V : 5 Nos., 0-300V-600V : 5 Nos	0	10	0	0	0	10	
100	Voltmeter MC Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer (a). Range(0-30-60)V DC 5Nos. (c) Range (0-150-300)V DC 5 Nos.	0	10	0	0	0	10	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
101	Wattmeter L.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Dynamometer type Voltage Range 0-75-150-300 V, Current 1-2 Amp-02 nos Range 0-75-150-300 V, Current 10-20 Amp-02 nos Range 0-75-150-300 V, Current 2.5-5 Amp-02 nos Range 0-250-500 V, Current 2.5-5 Amp-02 nos Range 0-250-500 V, Current 10-20 Amp-02 nos Accuracy+/- 5%	0	10	0	0	0	10	
102	Wattmeter U.P.F Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Dynamometer type Accuracy +/-5% Range 125-250-500 V, 5-10 Amp : 2 Nos. Range 25-50-100 V, 5-10 Amp : 2 Nos. Range 0-150-300 V, 2.5-5 Amp : 4 Nos Range 0-250-500 V, Current 10-20 Amp-02 nos	0	10	0	0	0	10	
103	Power Factor Meter (-0.3 - 1- +0.3) PF, 150V to 270 Volts AC 50 Hz ,0 to 10A 4 digit LED display of 12.5 mm Height, cabinet Size of 96mm(H)x96mm(W)x65mm(D)	0	2	0	0	0	2	
104	Experimental Setup of synchronous motor Separate terminals of windings should be brought out on a terminal box fitted on top of the motor so that one can connect them separately to the control panel and can perform experiment correspondingly. All protection circuits should be in built. Features: Flexible Shaft Coupling Arrangement and mounted on a M.S.Channel	0	1	0	0	0	1	

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	Equipped with supply indication lamps Provided with Digital Tachometer Machine with Class "B" Insulation Heavy Duty Base/Channel Designed by considering all the safety standards Diagrammatic representation for the ease of connections Exclusive and Attractive Design Learning material CD/Lab manual 2 Year Warranty Technical Specifications Three Phase Synchronous Motor Type : Salient Pole Rating : 3 kw Voltage rating : 415V $\pm 10\%$ Speed : 1500 RPM Insulation : Class 'B' Excitation Voltage : 120V Exciter (DC Machine) Type : Shunt Rating : 3 HP Voltage Rating : 200V Speed : 1500 RPM (no load) Insulation : Class 'B' Analog Meters Used AC Ammeter (MI type) : 10A (1 Nos.) DC Ammeter (MC Type) : 2A (1 Nos.) AC Voltmeter (MI type) : 500V (1 Nos.) DC Voltmeter (MC Type) : 300V (1 Nos.)							


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	Wattmeter : 1500 - 0- 1500W (2 Nos.) MCB (TPN) : 10A Control Panel Dimensions (mm) : W 600 x D 450 x H 600								
105	Electric Iron 230 V AC 50 Hz Automatic Steam Iron 1200 W 150 ml water tank spray feature.		0	2	0	0	0	2	
106	Electric Mixer 230 V AC 50 Hz Heavy Duty motor 600 W Auto cut off to protect from overload. Three speed ISI marked		0	2	0	0	0	2	
107	Electric Heater 230 V, 1000 W, metal body ISI marked.		0	4	0	0	0	4	
108	Electric sandwich maker 800 W,operating voltage-220-240 Volt with Non stick heating plate.		0	2	0	0	0	2	
109	Electric Toaster 650watt, 2 Slice pop-up Toaster		0	2	0	0	0	2	
110	Drill Machine hammer 13mm 600W with kit		0	1	0	0	0	1	
111	Insulating mats Class A insulation, Dielectric strength 30 kv, Maximum voltage 3.3 kv AC, 240 v DC Anti skid surface Size: 1m×2m×2mmthick ISI Mark		0	10	0	0	0	10	
112	Semi Automatic Washing machine 6.5 Kg Capacity, fibre body transparent window, 5 star rating. Input power 220 V / 50 Hz,		0	1	0	0	0	1	
113	Fire Extinguisher CO2 type Fire Extinguisher 4.5 kg for electric fire, safe on high and		0	2	0	0	0	2	

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	low voltages,Ceasefire							
114	Electric Soldering Iron 40 W, 230 V, 50 Hz soldering iron ISI mark. With solder and flux.	0	4	0	0	0	4	
115	Electric Immersion heater 2000 W, 230 V, 50 Hz Immersion heater ISI Mark.	0	4	0	0	0	4	
116	Storage batteries 12 V, 100 AH Lead Acid	0	2	0	0	0	2	
117	Battery Charger 12 V, 10 A, lead acid battery charger	0	1	0	0	0	1	
118	Voltmeter M.I. Type Housed in bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Range 0-30V : 2 Nos., 0-300V-600V : 3 Nos.	0	5	0	0	0	5	
119	Ammeter M.I Type (Portable Type) Housed in Bakelite /Wooden case,150 mm Scale with antiparallex mirror & Knife edge pointer Range (0-1000) mA 2 Nos. (b)Range (0-5-10) A 2 Nos.	0	4	0	0	0	4	
120	Direct On Line Motor Starter (DOL Starter) 500 V, 16A, Relay Coil Rating 380V, 50Hz 7.9.11 A current overload setting, iron body.	0	2	0	0	0	2	
121	Fluorescent Tube Light Complete Set 4', 40W, 230 V with copper wound choke	0	5	0	0	0	5	


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122	Star / Delta Starter 415V, 15A, 3 Phase	0	2	0	0	0	2	
123	Three phase induction motor 3 kW, insulation class B, speed 1450 rpm, 415V, 6.5A, ISI,	0	1	0	0	0	1	
124	Rotor Resistance Starter 415V, 15A, 3 Phase	0	2	0	0	0	2	
125	Basic Phone Trainer Color Black or Red, Flash, Redial, Pause, Speaker Phone, Ringer and speaker volume control, automatic gain control.	0	4	0	0	0	4	
126	Transformer oil testing kit Manual operated oil testing kit, single phase 240 v, AC 50 hz, 0 to 60 kv AC at 2kv/sec Display 3½ digit panel. Tripping time less than 20 sec. Controls HT ON, HT OFF, Increase and Decrease..	0	1	0	0	0	1	
127	High pressure Sodium vapour (HPSV) lamp complete set HPSV lamp comprising of powder coated die cast aluminum housing, electrochemically brightened and anodized stippled aluminum reflector, covered with suitably gasketed heat resistant and toughened glass, porcelain holder, integral control gear box having copper ballast, capacitor, electronic igniter prewired with PVC, insulated copper conductor up to terminal block, including making connection testing etc. as required. (With lamp) 1x150watt.	0	2	0	0	0	2	
128	High pressure Mercury vapour (HPMV) lamp complete set HPMV lamp comprising of powder coated die cast aluminum housing, electrochemically brightened and anodized stippled aluminum reflector, covered with suitably gasketed heat resistant and toughened glass, porcelain holder, integral control gear box having copper ballast, capacitor, prewired with PVC insulated	0	2	0	0	0	2	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	copper conductor up to terminal block, including making connection testing etc. as required. (With lamp) 1x125watt.							
129	Double fluorescent tube complete set Fitting with reflector,fabricated from CRCA sheet and finished with power coating/vitreous enamelled complete with accessories(low loss copper choke,starter,starter sheet)/electronic choke with terminal block duly prewired with copper conductor including making connection,testing etc as required (without tube) with power coated reflector 2X36 watts ,4 feet	0	2	0	0	0	2	
130	Refrigerator 180 Lit. 180 Lit. Operating voltage 180-220 V	0	0	1	0	0	1	
131	Inverter 1 KVA 850VA, Sine wave, ISI Mark with 120 AH Battery with trolley	0	0	4	0	0	4	
132	Washing Machine Semi Automatic Semiautomatic, 7.5 kg Capacity, 1200 rpm.	0	0	1	0	0	1	
133	Portable D.G. Unit 2.5 KV/3 Petrol Start, Kerosene or petrol run DG 1.4. KVA 220 V AC ISI Mark	0	0	1	0	0	1	
134	Maxwell's Inductance/Capacitance Bridge (Fix resistance & inducance branch with 10,100,1000,10000 ohms varrying resistor in two other branches,Variable capacitor & resistance parrallel connected in one branch, with Detector & operated for 250 volts)	0	0	1	0	0	1	
135	Anderson Shearing Bridge With complete arm resistors /Inductors & standard capacitor of 1.0 microfarrad with Detector & operated for 250 volts For	0	0	1	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	measurement of resistance 0.1 micro ohms to 0.1 ohms with standard resister, standard cell / battery Housed in bakelite /Wooden case ,with Detector.for measurement upto 1.00 K HZ .With complete arm resistors/ capacitors & detector & operated for 250 volts)							
136	Kelvin's Double Bridge For measurement of resistance 0.1 micro ohms to 0.1 ohms with standard resister, standard cell / battery Housed in bakelite /Wooden case ,with Detector.	0	0	1	0	0	1	
137	Wien's Bridge for Frequency measurement for measurement upto 1.00 K HZ .With complete arm resistors/ capacitors & detector & operated for 250 volts	0	0	1	0	0	1	
138	Dig. Ammeter (AC) 3-½ digits LED display with polarity indicator.Housed in bakelite /Wooden case,150 mm current range in three steps mili ampere,ampere,10 x ampere.	0	0	5	0	0	5	
139	Dig Voltmeter 3-½ digits LED display with polarity indicator.Housed in bakelite /Wooden case,150 mm.Voltage Range in Steps 75-150-300 V Current Range 5-10 Amp Accuracy +/-5%	0	0	5	0	0	5	
140	Dig Wattmeter (AC) 3-½ digits LED display with polarity indicator.Housed in bakelite /Wooden case,150 mm.Voltage Range 75-150-300 V Current Range 5-10 Amp Accuracy +/-5%	0	0	5	0	0	5	
141	C R O 10 MHz, Dual 1 beam oscilloscope, vertical deflection coeff-12, calibrated in steps 5 mv/cm to 20 V/cm, input impedance 1M ohm,	0	0	1	0	0	1	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 Input coupler DC AC GND Horizontal deflection bandwidth 10 MHz, Test Voltage 1.6 V, test Freq 50 Hz Equipped with probes, dust proof cover Instruction manual etc							
142	Trainer for transducer LVDT Range ± 50 mm or Total 100mm, Operating Frequency : 5KHz $\pm 5\%$ -0 Displacement Measurement on a mm Scale with fine motion control -1 Carrier Source (Internal) : 5KHz $\pm 5\%$, 1.5V (Nominal) -2 Built in $3\frac{1}{2}$ digit DVM for output reading -3 Transparent casing for proper viewing -4 IC based balanced demodulator circuit and power supply -5 220V $\pm 10\%$, 50Hz, Mains Operated	0	0	1	0	0	1	
143	Multimeters $4\frac{1}{2}$ digit LCD display, 7 functions 29 ranges, continuity, diode test facility, drop/splash/dust proof. Hand held true RMS response, Auto polarity, equipped with high voltage probe, d.c. current probe, carrying case & instructions manual D.C. Volt/AC Volt-200 mV – 1000V DC Amp/AC Amp-200 mA-10A Resistance 200 -20 Mega ohm Accuracy $\pm 0.5\%$	0	0	5	0	0	5	
144	Home Theater 5.1 dolby digital USB port, 1000 w peak compatible to computer DVD with remote	0	0	1	0	0	1	
145	L.C.D. Projector Multimedia Projector with wireless connectivity between PC and Projector, storage media port integrated	0	0	1	0	0	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Resolution: 1920X1080 Full HD, ANSI Lumen : 5000							
146	P.A.System (146 to 150) System operated with 12 volt battery & main AC supply.Two microphones harmonic distortion less than 3% Output 4.8 Watts & 16 Ohms	0	0	1	0	0	1	
147	Amplifier 100 W, Smic, 2 AUX I/P freq. Response be 50-15000Hz DB, tone control bass-10 db at 100 Hz Treble-10 db at 10 K Hz speaker O/P 4,8,16 Ohm 70 v & 100 V	0	0	1	0	0	1	
148	Microphone Freq. Response 50-16000 Hz sensitivity 1.6 mv/PA impedance 2590 Ohm	0	0	1	0	0	1	
149	FM Mike Dual VHF wireless Microphones Audio O/p 0-55 mv/1 kw, freq.response 50-15000 Hz Antenna telescopic AC 220-240 V ,effective long distance coverage of more than 150 feet under ideal working conditions,Each microphone operates with a 9V Dry Battery	0	0	2	0	0	2	
150	Speaker Column 80W (Max) power taps 30/20/10/5 w freq.response 150-10000 Hz SPL(1 W/1m) 95 db 2.0 Channel Tower Speakers	0	0	2	0	0	2	
151	Document Scanner A4/Legal Size Resolution (in dpi): 1200x1200,Speed (in PPM): NA,ADFCapacity: NA,Flat Bed Size: A4,Document Size: A4	0	0	1	0	0	1	
152	On-Line UPS With isolation transformer suitable for three phase AC Input and Single Phase Ac Output Floor Mounted Type	0	0	0	1	0	1	

S.No.	Item with Full Specifications						Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Rating Of UPS :10 KVA Indicative Back-up[time: 60 Minutes												
153	Software : Antivirus multiuser with three yr licence						0	0	0	20	0	20	
154	(Multiusers) Software : MATLAB And simulink institute multiuser						0	0	0	1	0	1	
155	Tri-Band Wireless Router <ul style="list-style-type: none"> Wireless Type: 802.11 ac/n/g/a/b Wireless Speed: Up to 5334 Mbps Wireless Frequency: Tri-band (2.4 & Dual 5 GHz) Wired Connectivity: 4x LAN, 1x WAN gigabit Ethernet ports USB Port(s): 1x USB 3.0, 1x USB 2.0 Tri-band with the latest 802.11ac 4x4 technology for up to 5334 Mbps throughput Built-in access to WTFast Gamers Private Network (GPN) delivers low, stable ping times AiProtection Powered by Trend Micro provides multi-stage vulnerability protection and prevention With nodes and other complete accessorie 						0	0	0	1	0	1	
156	DISPLACEMENT MEASURMENT TRAINER USING LVDT Input: LVDT based transducer Range 0 to 20 mm (± 10 mm) Excitation source: Sine wave 2 KHz to 5 KHz ,output in mm displacement and output voltage						0	0	0	2	0	2	
157	Measurement of angular displacement measurement using capacitive transducer						0	0	0	2	0	2	
158	STRAIN GAUGE Power Supply : 230 V AC 50hz.						0	0	0	2	0	2	
159	CRO Digital storage type CRO Frequency atleast 400 mhz, dual chanel						0	0	0	2	0	2	


S.No.	Item with Full Specifications		Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	dual trace								
160	Earth tester Digital, earth resistance 2-5 ohm, earth V 0-300 V AC Measuring frequency 8-20 hz		0	0	0	1	0	1	
161	Kelvin Double Bridge For measurement of low resistance , range .02 microohm -11 micro ohm		0	0	0	2	0	2	
162	Current Transformer CT Ratio 100 / 5amp accuracy class .05		0	0	0	2	0	2	
163	Potential transformer PT Ratio 400V/110V accuracy class .05		0	0	0	2	0	2	
164	DC Potentiometer 230 V 50hz Ac Supply coarse Adjustment & fine Adjustment		0	0	0	2	0	2	
165	Thermister Rated Zero power resistance R 25 : 2.252 Kilo ohm nominal, temperature coefficient @ 25 °C : -4.4%/ °C Maximum Operating temperature 150°C Thermister NTC Type 10 kilo ohm		0	0	0	10	0	10	
166	Electronic Voltmeter 01 milivolt -05 milivolt, 10 volt-15 volt-100 volt frequency 20 kilo hz-100 kilo, 100megaohm $\pm 5\%$ Accuracy $\pm 2\%$ of indicated value from 1/10 of fullscale to fullscale.		0	0	0	4	0	4	
167	Wein bridge Wein bridge kit, inbuilt power supply 12 volt, 250 mili amp.		0	0	0	2	0	2	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
168	Elec. Hand drill Machine Dia 12 MM 230 V 50 Hz Wolf make	0	0	0	2	0	2	
169	Trainer Kit for telephone circuit	0	0	0	1	0	1	
170	Watt meter UPF 1500 W, 5 A 96 x 96 mm Panel mounting	0	0	0	1	0	1	
171	Electric Hand Zig Saw M/C 700 watt D-watt/Bosch	0	0	0	1	0	1	
172	Wire Stripper up to 9 mm ²	0	0	0	1	0	1	
173	Crimping Hand tool up to 16 mm ²	0	0	0	1	0	1	
174	<p>3 ¾ Digit Digital Multimeter with USB Interface</p> <p>3¾ Digital Multimeter with USB Interface shall have following specifications;</p> <ul style="list-style-type: none"> • USB interface can connect to computer • Large LCD analog bar graph display. • Unit symbol display • Metallic screen board with strong antimagnetic and anti-interferential function • Auto power off and alarm when stopped used after 15 minutes. <p>Full function protection anti-high voltage circuit design</p> <ul style="list-style-type: none"> • Software to acquire the reading into the PC. • Different functions can be controlled by PC. • Technical Specification <p>Function, Range, Accuracy</p> <ul style="list-style-type: none"> • DC Voltage 400mV/4V/40V/400V/1000V ±(0.5%+4) • AC Voltage 400mV/4V/40V/400V/750V ±(0.8%+10) • DC Current 400uA/4000uA 	0	0	0	0	5	5	


S.No.	Item with Full Specifications 	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>/40mA/400mA/4A/10A±(0.10%+10)</p> <ul style="list-style-type: none"> • AC Current 400uA/4000uA /40mA/400mA/4A/10A ±(1.5%+10) • Resistance 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ ±(0.8%+4) • Frequency 4Hz/40Hz/400Hz/4kHz/40kHz/400kHz/4MHz/30MHz±(0.1%+4) • Capacitance 50nF/500nF/5uF/50uF/100uF ±(3.5%+8) • Temperature (-20 ~ 1000)°C ±(1.0%+5) <p>• Special Function such as Diode test, Low battery indication, Continuity buzzer, Data hold, Auto power off, Bar graph display, RS232 / USB interface jack, Function protection, Shockproof protection shall be there.</p> <ul style="list-style-type: none"> • Frequency /duty cycle(0.1%~99.9%), • Input impedance 10MΩ • Sampling rate 3 times/s • AC Frequency response (40-400)Hz • Operation way Auto range • Max. display 3999 • LCD Size 70×50mm • Power 3V (1.5V×2) 							
175	<p>Electric mixer juicer</p> <ul style="list-style-type: none"> - 750 W motor - Incredible range of 12000 - 18000 RPM - Shock proof ABS body - Overload protection mechanism - 60 minutes rating 	0	0	0	0	1	1	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
176	<p>- 3 speed with pulse - 3 jars 5 blades</p> <p>Transformer oil testing kit</p> <p>The motorized (Automatic) Oil Insulation test Kit is intended to be used for testing of Dielectric strength of insulating oils used in transformers & circuit breakers. The kit comprises of following:-</p> <ul style="list-style-type: none"> <input type="checkbox"/> A control unit with a HT-transformer operates on mains voltage of 220 Volts. <input type="checkbox"/> A robust & sturdy motorized variac is provided to increase the voltage from 0 to 60 KV. <input type="checkbox"/> Zero start facility is provided for safety. <input type="checkbox"/> The HV chamber with interlocking to ensure operator safety. <input type="checkbox"/> Digital volt meter for reading 0 to 60 KV. <input type="checkbox"/> Over voltage protection. <input type="checkbox"/> Very fast tripping at dielectric breakdown. <input type="checkbox"/> Automatic Motorized oil BDV with rate of rise of 0.5KV/5KV / Sec <input type="checkbox"/> Push button's for control. <input type="checkbox"/> A testing transformer of 600 VA capacity for output 60 KV with 2 terminal bushings to support the testing cell with studs mounted on top of transformer. <input type="checkbox"/> Oil testing cell has mushroom cell, dimensions & gap in accordance with IS specifications with a gauge to calibrate the gap. <p>3 Phase power Measurement</p> <p>Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:-</p> <p>Wattmeter UPF 5/10A, 150/300/600V – 2 Pcs.</p>							
177	<p>3 Phase power Measurement</p> <p>Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:-</p> <p>Wattmeter UPF 5/10A, 150/300/600V – 2 Pcs.</p>	0	0	0	0	1	1	





S.No.	Item with Full Specifications		Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Analogue Voltmeter - 1no Analogue Ammeter - 1no 3 phase loading arrangement. 3KW MCB, TPN for control circuit protection provided in the panel								
178	Calibration of ammeter and voltmeter. Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:- Ammeter analog 5A MI – 1 Pcs. Digital Ammeter for reference – 1 Pcs. Voltmeter analog 300 V MI – 1 Pcs. Digital Voltmeter for reference – 1 Pcs. 1 phase bulb loading arrangement.1KW MCB for control circuit protection provided in the panel		0	0	0	0	2	2	
179	Calibration of dynamometer type wattmeter Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:- Wattmeter UPF 5/10A, 150/300/600V – 1 Pcs. Digital Wattmeter for reference – 1 Pcs. Analogue Voltmeter - 1no Analogue Ammeter - 1no 1 phase bulb loading arrangement.1KW MCB for control circuit protection provided in the panel		0	0	0	0	2	2	
180	Calibration of induction type energy meter. Conventional method of meter testing bench is by Phantom Load and Phase Shifting Transformer. It consist of nicely powder coated M.S. fabricated box with 4 feet x 2		0	0	0	0	2	2	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>feet x 6 inches with duly marked termination with the help of Screen printed and also back door of the panel will have lock facility for safety of panel. All the necessary accessories such as:-</p> <p>(a) Voltmeter (b) Ammeter (c) ISI Marked Energy meter (d) Continuously variable Auto Transformer. (e) Phantom Load. (f) Stop Watch / Stop Clock. (g) Power factor meter. (h) Control circuit with protections. (i) Rheostat 10 A /10 Ohm</p> <p>Phase shifting Transformer for Testing of Energy meter at different power Factor meters.</p>							
181	<p>Measurement of power in 3-phase circuits by two wattmeter method Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:-</p> <p>Wattmeter UPF 5/10A, 150/300/600V – 2 Pcs. Analogue Voltmeter - 1no Analogue Ammeter - 1nos 3 phase loading arrangement.1KW MCB, TPN for control circuit protection provided in the panel</p>	0	0	0	0	2	2	
182	<p>Whitstone bridge</p> <p>1. Power supply requirement : 230V AC, 50 Hz. 2. Built in IC based regulated Power supply - 5 V DC/200 mA. 3. Ammeter 0-20mA</p>	0	0	0	0	2	2	

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>4. The true value of component is printed on component side. 5. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement 6. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair. 7. All parts are soldered on single pin TAGS on single PCB of size 12" x 9" with complete circuit diagram Screen printed in multi colour. 8. Standard Accessories : 1. A Training Manual. 2. Connecting Patch cords.</p>							
183	<p>Calibration of ammeter and voltmeter measurement of resistance by D.C. potentiometer</p> <p>1. High precision DC slide wire potentiometer (round dial type) with coarse and fine potentiometers and terminal for inserting patch cords, duly cased in a wooden casing</p> <p>2. DC source</p> <p>3. Ammeter, Voltmeter and galvanometer mounted on the different wooden casing with variable resistances and resistance network on it</p> <p>Standard cell electronic type</p> <p>3. The true value of component is printed on component side. 4. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement 5. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>	0	0	0	0	2	2	
184	<p>measurement of turn ratio of current transform and potential transformer.</p>	0	0	0	0	2	2	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
185	<div data-bbox="1032 177 1234 384" data-label="Image"> </div> <p>Trainers: 1. Potentiometer</p> <ol style="list-style-type: none"> 1. The complete circuit of Potentiometric displacement measurement is printed on single PCB. 2. Study of characteristics of Potentiometric transducer. 3. Complete Circuit is screen printed on the PCB. 4. All parts are soldered on single pin tag for easy replacement. 5. Typical ICs are provided on sockets to provide a facility to check similar other ICs. 6. Explanation, Observation, Alignment and adjustment of Internal and External controls is possible at a glance due to single PCB. 7. Easy identification of different parts of Potentiometric transducer at a glance. 8. Easy measurement of Voltages and Observation of waveforms at any point. Also typical voltages and waveforms are provided. 9. A manual having Practical details is provided with the trainer. 10. The whole circuit of Potentiometric transducer displacement measurement is explained section wise in detail in the manual. <p>1. Power supply : 230V Ac, 50 Hz. 2. Transducer : Resistive. 3. Range : 0 to 270 degree. 4. Moving action : Angular movement by rotating shaft of Potentiometric 5. Excitation Voltage : 5 V DC. 6. Maximum capacity : 110% of rated capacity. 7. Output Display : 3 and ½ digits Digital Panel meter</p>	0	0	0	0	3	3	


S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>calibrated in degree.</p> <p>8. All parts are soldered on TAGS on SINGLE PCB with complete circuit diagram SCREEN PRINTED.</p> <p>9. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>10. The true value of component is printed on component side.</p> <p>11. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>12. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
186	<p>Function Generator</p> <p>3Mhz, 100MSa/s DDS Function generator with USB interface shall have following specifications;</p> <ul style="list-style-type: none"> • Direct Digital Synthesis [DDS] technology. • VFD florescent display Interface. • Fully key operation, continuously adjust with adjusting knob. • With password protected calibration. • USB Interface. • Software to control the function generator remotely. • Output characteristics - Waveform characteristics • Waveform types: 16 kinds of waveforms including sine, square, ramp, exponent, logarithm, noise & so on. • Waveform length: 1024 points • Sampling rate: 100 MSa/s • Waveform amplitude resolution: 8 bits • Sinewave harmonic distortion: (1Vpp) • $\leq -40\text{dBc}$ ($<1\text{MHz}$) $\leq -35\text{dBc}$ ($\geq 1\text{MHz}$) • Sinewave total distortion: (20Hz to 20kHz, 20Vpp) $\leq 1\%$ 	0	0	0	0	3	3	


S.No.	Item with Full Specifications 	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> • Rising/Falling edge time of square: $\leq 35\text{ns}$ Overshoot: $\leq 10\%$ • Duty cycle of square: 1% to 99% • Ramp wave symmetry: 0% to 100% • Frequency characteristics Frequency range: Sinewave: 40mHz to 3MHz Others: 40mHz to 1MHz • Frequency resolution: 40mHz • Frequency accuracy: $\pm(2 \times 10^{-5} + 40\text{mHz})$ • Amplitude characteristics (Auto-attenuation, offset 0Vdc) • Amplitude range: frequency $\leq 8\text{MHz}$: 0~10Vpp(50Ωload) 0~20Vpp(open-circuit load) • frequency $> 8\text{MHz}$: 0~9Vpp(50Ωload) 0~18Vpp(open-circuit load) • Amplitude resolution: 20mVpp(Amplitude $> 2\text{Vpp}$); 2mVpp(Amplitude $\leq 2\text{Vpp}$) • Amplitude accuracy(1kHz, $> 5\text{mVrms}$): $\pm(1\%$ of setting + 2mVrms) • Amplitude flatness(Sinewave, compared to 1MHz, 5Vpp): $\pm 10\%$ • Output impedance: 50Ω • Offset characteristics (0 dB attenuation, 0Vpp amplitude) Offset range: $\pm 5\text{Vdc}$(50Ωload) $\pm 10\text{Vdc}$(open-circuit load) , Resolution: 30mVdc • Offset accuracy: $\pm(1\%$ of setting value + 30mVdc) • Frequency sweeping characteristics : Sweeping range: Start & end frequency can be set arbitrarily. • Sweeping time: 50ms to 500s Sweeping mode: linearity, logarithm 							


S.No.	Item with Full Specifications 	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> • Sync output characteristics : Waveform characteristics: Square, edge time $\leq 20\text{nS}$ • Amplitude characteristics: TTL, CMOS compatible, low level $< 0.3\text{V}$, high level $> 4\text{V}$ • Programmable interface : USB device interface, with operation guide that is provided in the CD. • Power condition Voltage: AC 100 to 240V, Frequency: 45 to 65Hz, Power consumption: $\leq 20\text{VA}$ • Environment conditions Temperature: 0 to 40°C, Humidity: $\leq 80\%$ • Operation characteristics Fully key operation, continuously adjust with adjusting knob. • Display VFD fluorescence display screen • Dimension 297 mm×212 mm×102 mm Weight: 2 kg • Surface-mount technology, large scale integrated circuit, high reliability, long service life. • Software features: PC is able to send commands through USB interface to realize remotely control along with the pre-written applications generally written with SCPI commands. Software having the 7 different block, as follows : <ul style="list-style-type: none"> • Function : Containing tone, functions, sine, square, ramp, arbitrary, Num., Symmetry, Duty Cycle, • Sweep : Containing Start, stop, time, mode, lin., log., parameter. • Port : Containing output ON / OFF. • Command : commands can be given to function generator for remote operation. • Receive : for display the function generator command status. • Value : different value can be set for the device, remotely. 							

S.No.	Item with Full Specifications	Jodhpur	Kota	Pali	Alwar	S. Madhopour	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model																		
	Unit : different units like Mhz, Vrms, Vdc, degree, mVrm, mvdc etc can be set, remotely.																									
187	<div>Analog Multimeter Big size</div> <div>Analog Multimeter</div> <div>Features</div> <div><div><input type="checkbox"/> Multi-color analog display with mirrored scale</div><div><input type="checkbox"/> High-impact thermoplastic case</div><div><input type="checkbox"/> Low cost, multi-function</div><div><input type="checkbox"/> Audible continuity</div><div><input type="checkbox"/> Battery test</div><div><input type="checkbox"/> Built-in stand</div><div><input type="checkbox"/> Low-cost analog</div><div><input type="checkbox"/> High-impact thermoplastic case</div><div><input type="checkbox"/> Decibel measurement</div><div><input type="checkbox"/> CAT II 600V</div><div><input type="checkbox"/> 2-year warranty</div></div> <table><tr><td></td><td>Range & Resolution</td><td>Accuracy</td></tr><tr><td>AC Voltage</td><td>10 / 50 / 250 / 500 V</td><td>±4.0% Full Scale</td></tr><tr><td>DC Voltage</td><td>10 / 50 / 250 / 500 V</td><td>±3.0% Full Scale</td></tr><tr><td>DC Current</td><td>500µ / 50m / 250m A</td><td>±3.0% Full Scale</td></tr><tr><td>Resistance</td><td>1 M Ω Full Scale 5 k Ω Mid Scale</td><td>±3.0% Arc Length</td></tr><tr><td>Decibels</td><td>-20 to +56dB</td><td>-</td></tr></table>		Range & Resolution	Accuracy	AC Voltage	10 / 50 / 250 / 500 V	±4.0% Full Scale	DC Voltage	10 / 50 / 250 / 500 V	±3.0% Full Scale	DC Current	500µ / 50m / 250m A	±3.0% Full Scale	Resistance	1 M Ω Full Scale 5 k Ω Mid Scale	±3.0% Arc Length	Decibels	-20 to +56dB	-	0	0	0	0	5	5	
	Range & Resolution	Accuracy																								
AC Voltage	10 / 50 / 250 / 500 V	±4.0% Full Scale																								
DC Voltage	10 / 50 / 250 / 500 V	±3.0% Full Scale																								
DC Current	500µ / 50m / 250m A	±3.0% Full Scale																								
Resistance	1 M Ω Full Scale 5 k Ω Mid Scale	±3.0% Arc Length																								
Decibels	-20 to +56dB	-																								


S.No.	Item with Full Specifications								Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
					Jodhpur	Kota	Pali	Alwar	
	Battery Test	-	-						


S.N.	Name of Item		Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
188	Laboratory D.C. Power Supply Electrical Machine Lab / Measurement & Instrumentation Laboratory Output: D.C fixed 230 volt, 50 A and variable 0-250 Volt, 50 Amp +/-5% on full Load ,Thyristor based fully controlled power supply with balanced Load on Input side , INPUT: 415 V, 3 Phase A.C. 50Hz Ammeter, Voltmeter, indicators & protective devices		0	0	0	0	0	1	1	
189	THREE PHASE Squirrel Cage INDUCTION MOTOR The experimental setup should perform following experiments: Study of the Running and Reversing of Squirrel Cage Induction Motor Study of the No Load Test in a Squirrel Cage Induction Motor Study of the Block Rotor Test in a Squirrel Cage Induction Motor Study and Measurement of Slip in a Squirrel Cage Induction Motor Study of Speed-Torque Characteristics of Squirrel Cage Induction Motor The experimental setup should have following features: Panel comes with full descriptive Mimic diagram for comprehensive learning Powder coated panels for safety purpose.Ensure full Safety of operator by using BS-10 terminal, Earthling and MCBs/Fuse protection. Systems embedded with latest digital metering Designed by considering all the safety precautions		0	0	0	1	0	0	1	


S.N.	Name of Item	Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p> Provided with digital Tachometer Complete Exp. Manual. Motor Specification's Type : Squirrel Cage 3Ph IM mounted on a M.S. channel base Rating : 3HP, 4 Pole, 50 Hz, 415 V RPM : 1440 (Full Load) with Digital Meter Specification:- Microcontroller based Accurate & Reliable design AC Voltmeter Voltage : 0 - 500V AC Ammeter Current : (0 – 5)Amps Single Phase Watt Meter(2 Nos) : 0-1000 Watt With suitable DOL starter </p>								
190	<p>SINGLE PHASE INDUCTION MOTOR Capacitor start and run motor The experimental setup should have following features: Panel comes with full descriptive Mimic diagram for comprehensive learning Powder coated panels for safety purpose. Ensure full Safety of operator by using BS-10 terminal, Earthling and MCBs/Fuse protection. Motor Specification's Induction Motor Type : Capacitor start and run motor Phase : Single Rating: 0.5 HP Voltage rating : 230 V</p>	1	1	1	1	1	1	6	

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	 <p>Digital Meter Specification:- Microcontroller based Accurate & Reliable design AC Voltmeter Voltage : 0 - 300V AC Ammeter Current : (0 – 1)Amps Single Phase Watt Meter : 0-500 Watt</p>								
191	Star Delta Starter (Manual) 5 HP Three Phase Suitable for 3-phase induction motor, 5 HP, 440V, 50Hz.	1	0	0	1	0	2	4	
192	Knife Edge Switches DPDT Quick Break Knife Switch 230V, copper blade 15A	1	1	0	0	0	0	2	
193	Knife Edge Switches TPST Quick Break Knife Switch 440V, copper blade 15A	1	1	0	0	0	0	2	
194	Rotor Resistance Starter for 3HP, 400 V, 3Ph, with interlocking and protections	2	0	0	0	0	1	3	
195	Different type of rheostat single barrel All Electrical hardware is bright chrome plated of Brass Temp. rise 200 deg. Cent. (i) 350 ohm, 1.5 Amp (ii) 300 ohm, 1.7 Amp (iii) 150 ohm, 1.5 Amp (iv) 500 ohm. 1 Amp (v) 85 ohm , 2.3 Amp (vi) 50 ohm , 5 Amp.	9	9	0	9	9	9	45	

S.N.	Name of Item	Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	(vii) 30 ohm , 5 Amp. (3 each)								
196	Stop Watch Analog Least count 0.01 Sec	0	0	0	1	1	1	3	
197	SCHERING BRIDGE Kit The board consists of the following built-in parts : Schering Bridge circuit with arms values. ± 12 VDC at 100 mA, IC Regulated Power Supply internally connected. 1KHz Sinewave oscillator having output 0-15 Vpp. Audio amplifier and speaker for null detector. Three unknown value of capacitors selectable by a band switch. Potentiometer for balancing the bridge. Band switch to select one from six different values of resistance. Adequate no. of other Electronic Components. Mains ON/OFF switch, Fuse & Jewel light. The unit is operative on 230V $\pm 10\%$ at 50Hz AC Mains	0	0	0	1	0	0	1	
198	ANDERSON BRIDGE Kit The board consists of the following built-in parts : Anderson Bridge circuit with arms values. Potentiometer for varying one arm. Three different value inductances. Potentiometer with calibrated dial. Five capacitors selected by a band switch. Audio Amplifier with its IC regulated Power Supply. One KHz Sine Wave Oscillator with its IC regulated Power Supply. Speaker.* The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.	0	0	0	1	0	0	1	
199	3-Phase induction motor Rating : 3HP, 4 Pole, 50 Hz, 415 V	1	1	0	1	1	1	5	

S.N.	Name of Item		Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	RPM : 1440 (Full Load) with automatic star delta starter.With 6 Terminals brought out for star Delta connection									
200	Digital Wattmeter lab desk stand type 0-5/10Amp., 0-150/300/500V		4	4	1	4	4	4	21	
201	Screw Drivers (Set) ELECTRICAL WORK SHOP 3" to 18" 8 piece		4 Set	4 Set	0	0	4 Set	4 Set	16 Set	
202	Electric Sandwich maker 230V, 750W		5	5	0	0	5	2	17	
203	Ceiling Fan 230V, 60W, 1200mm, Sweep Colour,Cu winding Double ball bearing		0	0	0	0	0	6	6	
204	Digital Techometer, Non-Contact Type 0-19,999 RPM ,with all accessories & carrying case		2	2	0	0	2	2	8	
205	Mercury Vapour Lamp Fixture Laboratory type Study Kit Model Complete Set with 125W Lamp Choke Coil, Holder, Capacitor body, 250V, 50Hz		4	4	0	4	4	2	18	
206	ELCB 40A 250 volts 30-100mA double Pole (2P) as per IEC 61008		0	0	2	0	0	2	4	

S.N.	Name of Item		Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
207	Desert Cooler Fan 150W, 250V ,Pump 35W, 250V ISI marked, Body Size 36"x37"x37" 20 Gauge Metal Sheet Body, Semi exhaust fan, Motor should be Orient,		1	1	1	1	1	1	6	
208	Room Cooler Unbreakable Plastic Body, Tower Model, Sweep 400 mm, Fan 170 watt, water Level Indicator , water tank capacity approximately 22 Litre, 3-speed regulator, Pump 35 watt.		1	1	1	1	1	1	6	
209	Battery Charger Battery Charger 5/10 Amp, For charging of 12 V, 120 AH Lead Acid Battery with ammeter, voltmeter fuses and regulator.		0	0	1	0	1	1	3	
210	Storage Battery, Lead Acid Type 12V 150 Ah , Exide		1	1	0	1	1	1	5	
211	Semi Automatic Washing Machine, 2 Wash Programs, Buzzer, castor (wheel), 330W powerful wash motor,140w spin motor 10min spin dry timer 6.2kg Capacity 230V ISI marked		1	1	0	0	0	1	3	
212	Refrigerator 180 ltr,1/3 HP motor 5 star rating		1	1	1	0	1	1	5	
213	Automatic Coil Winding Machine 230V, 50Hz with Digital Counter auto cutoff complete with motor & accessories		1	1	1	1	1	1	6	
214	Water Cooler Capacity (minimum 40 Lit.) FLA-1.2 230V, 0.4A RPM-1360 9W Fan Motor		1	1	1	1	1	1	6	
215	Megger Analog		0	2	0	1	0	0	3	

S.N.	Name of Item							Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Hand hold 500 v megger insulation testing up to 1000 Mega Ohm, Alkaline Battery with leather case, connecting leads, Instruction manual etc								
216	Digital Megger Continue 500 v megger insulation testing up to 1000 Mega Ohm, Alkaline Battery with leather case, connecting leads, Instruction manual etc	2	2	2	2	2	2	12	
217	Tong Tester/Clamp Meter (3-3/4 Digits, LCD, Data Hold, 23mm Jaw Size, AC/DC Voltage, AC/DC Current up to 400A, Resistance, Capacitance, Temperature, Frequency Diode & Continuity Test). Data Hold Facility. Built-in Non Contact Voltage Detector. Low Battery and Over Range Indication. Display: 3-3/4 Digits 3999 Counts Backlit LCD. Confirms to CAT III 600V. Clamp Jaw Dia: 30mm. DC Voltage : 0 - 400mV/40/400/600V. Accuracy : $\pm 0.8\%$. AC Voltage : 0 - 400mV/40/400/600V. Accuracy : $\pm 1.5\%$. DC Current : 0 - 40/400A. Accuracy : $\pm 2.5\%$.	2	2	2	2	2	2	12	
218	Rheostat 500 ohm-1A, 150 ohm-1.5 A, 350 ohm-1.5 A, 100 ohm, 2 A (2 each)	0	1	0	0	0	3	4	
219	Voltmeter (MC type) lab desk stand type 0-5V, 0-10 V, 0-50 V, 0-150 V, 0-250 V (4 each)	20	20	0	20	20	20	100	
220	Ammeter (MC type) lab desk stand type 0-100mA, 0-500 mA, 0-1 Amp, 0-2 Amp, 0-5 Amp (4 each)	20	20	0	20	20	20	100	
221	Voltmeter (MI type) lab desk stand type 0-30V, 0-60V, 0-150V, 0-300V, 0-600V (4 each)	20	20	0	20	20	20	100	
222	Ammeter (MI type) lab desk stand type	20	20	0	20	20	20	100	

S.N.	Name of Item	Bundi	Jhunjhunu	Pratapgarh	Baran	Dholpur	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	0-500mA, 0-1A, 0-5A, 0-10A,0-20A (4 each)								
223	Dc Power Supply 5Amp, 0-30 V, with step variation of 5 volts	2	2	0	2	2	2	10	
224	Wattmeter lab desk stand type Range 125-250-500 V, 5-10 Amp : 4 Nos. Range 125-250-500 V, 1- 2 Amp : 4 Nos Range 25-50-100 V, 5-10 Amp : 4 Nos.	0	3	0	2	0	6	11	
225	Static Energy Meter, 1 phase Industrial grade, 0-30 A, 250 V, 50 Hz Accuracy +/- 1% ISI Mark, 1 phase	5	5	0	5	5	5	25	
226	Static Energy Meter three Phase 3-phase, 4 wire, Industrial grade, 50 Hz, 0-30A Amp, 440 V, Accuracy +/- 1% ISI Mark	2	2	0	2	2	2	10	
227	Stop Watch Analog Least count 0.01 Sec	2	2	0	2	2	2	10	
228	Automatic Iron 750 W, 230V	0	0	0	4	0	0	4	
229	Bearing Puller	0	0	0	2	0	0	2	
230	Pully Puller	0	0	0	2	0	0	2	
231	Transformer 1 KVA, 230/230 V 50 Hz double wound Air Cooled Transformer With 50% & 86.6% tapping on primary & secondary, All tapping brought in terminal box and	1	1	0	1	0	0	3	

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	marked								
232	Auto Transfer INPUT: 230 V OUTPUT: 0-270 V Continuous variable , 8 Amp	4	0	0	0	0	0	4	
233	Fire Point/Flash Point Test Kit	1	1	1	1	1	1	6	
234	Rotor Resistance Starter 3HP, 400 V, 3Ph, with interlocking and protections	0	1	0	0	0	1	2	

Terms & Condition :-

1. F. O. R. Principal Government Polytechnic College, Bundi/Jhunjhunu/Pratapgarh/Baran/Jaisalmer/Dholpur/ Jodhpur/Kota/Pali/Alwar/ S.Madhopur
2. Delivery up to 20.03.2021
3. GST Extra -----%

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