

राजस्थान-सरकार

तकनीकी शिक्षा निदेशालय राजस्थान, जोधपुर

W-6, गौरव पथ, रेजिडेन्सी रोड, जोधपुर (राज.)

फोन- 0291-2434271 फैक्स नं- 2430398

Visit us: www.dte.rajasthan.gov.in

e-mail ID: dte\_raj@yahoo.com

क्रमांक :- एफ.27(333)/ई-5/2017-18/18286

दिनांक :- 16-11-2017

-: अल्पकालीन ई-निविदा सूचना संख्या 01/2017-18 :-

राजस्थान के राज्यपाल महोदय की ओर से अधोहस्ताक्षरकर्ता द्वारा राज्य के विभिन्न राजकीय पोलिटेक्निक महाविद्यालयों में उपकरण, मशीनरी, स्टील फर्नीचर, लकड़ी फर्नीचर इत्यादि की आपूर्ति करने के लिए निर्धारित प्रपत्र में बोनाफाईड विनिर्माता/थोक विक्रेता/सोल वितरक/निर्माता/प्राधिकृत डीलर/डीलर/सोल विक्रय/ विपणन एजेंट से ई-टेंडरिंग प्रक्रिया के अंतर्गत रुपये 900.00 लाख की ऑन लाईन निविदाएं आमंत्रित की जाती है। निविदाएं में दी जाने वाली दरें दिनांक 31.3.2018 तक मान्य होगी :-

आईटम संख्या	निविदा का विवरण	अनुमानित मात्रा	अनुमानित लागत (लाखों में)	धरोहर राशि (₹)	निविदा शुल्क (अप्रतिदेय)	निविदा डाउनलोड प्रारम्भ की दिनांक व समय	निविदा अपलोड करने एवं निर्धारित शुल्क जमा करने की अन्तिम दिनांक व समय	तकनीकी निविदा खोलने की तिथि व समय
1	फिजिक्स, केमेस्ट्री		4.00	8000	200	5.12.2017 10.00 A. M.	21.12.2017 10.00 A. M.	22.12.2017 11.00 A. M.
2	क्रंकीट, मेटेरियल टेस्टिंग, पी.एच.ई., सोईल, सर्वे लेब, एप्लाइड लेब		45.00	90000	400	5.12.2017 10.00 A. M.	21.12.2017 10.00 A. M.	22.12.2017 11.00 A. M.
3	मेट्रो लोजी लेब		50.00	100000	400	5.12.2017 10.00 A. M.	22.12.2017 10.00 A. M.	23.12.2017 11.00 A. M.
4	ओटो मोबईल, आर.ए.सी. लेब		10.00	20000	400	5.12.2017 10.00 A. M.	22.12.2017 10.00 A. M.	23.12.2017 11.00 A. M.
5	आई. सी. , फ्लूड, वैल्विंग लेब		20.00	40000	400	5.12.2017 10.00 A. M.	22.12.2017 10.00 A. M.	23.12.2017 11.00 A. M.
6	कारपेन्ट्री, फिटिंग, वैल्विंग लेब		10.00	20000	400	5.12.2017 10.00 A. M.	22.12.2017 10.00 A. M.	23.12.2017 11.00 A. M.
7	डिजिटल माइक्रोप्रोफेसर लेब		45.00	90000	400	5.12.2017 10.00 A. M.	26.12.2017 10.00 A. M.	27.12.2017 11.00 A. M.
8	इलेक्ट्रॉनिक्स लेब		18.00	36000	400	5.12.2017 10.00 A. M.	26.12.2017 10.00 A. M.	27.12.2017 11.00 A. M.
9	इलेक्ट्रॉनिक्स वर्कशॉप		18.00	36000	400	5.12.2017 10.00 A. M.	26.12.2017 10.00 A. M.	27.12.2017 11.00 A. M.
10	इन्स्ट्रुमेंटेशन लेब		30.00	60000	400	5.12.2017 10.00 A. M.	26.12.2017 10.00 A. M.	27.12.2017 11.00 A. M.
11	पॉवर इलेक्ट्रॉनिक्स		30.00	60000	400	5.12.2017 10.00 A. M.	27.12.2017 10.00 A. M.	28.12.2017 11.00 A. M.
12	मेजरमेंट एण्ड इन्स्ट्रुमेंटेशन, मशीन लेब		9.00	18000	400	5.12.2017 10.00 A. M.	27.12.2017 10.00 A. M.	28.12.2017 11.00 A. M.

निविदा प्रपत्र अनुसार

आईटम संख्या	निविदा का विवरण	अनुमानित मात्रा	अनुमानित लागत (लाखों में)	धरोहर राशि (₹)	निविदा शुल्क (अप्रतिदेय)	निविदा डाउनलोड प्रारम्भ की दिनांक व समय	निविदा अपलोड करने एवं निर्धारित शुल्क जमा करने की अन्तिम दिनांक व समय	तकनीकी निविदा खोलने की तिथि व समय
13	इलेक्ट्रीकल वर्कशॉप		30.00	60000	400	5.12.2017 10.00 A. M.	27.12.2017 10.00 A. M.	28.12.2017 11.00 A. M.
14	इंगलिश लेंगवेज लेब		50.00	100000	400	5.12.2017 10.00 A. M.	28.12.2017 10.00 A. M.	29.12.2017 11.00 A. M.
15	स्टील फर्नीचर		50.00	110000	400	5.12.2017 10.00 A. M.	28.12.2017 10.00 A. M.	29.12.2017 11.00 A. M.
16	बुडन फर्नीचर		12.00	24000	400	5.12.2017 10.00 A. M.	28.12.2017 10.00 A. M.	29.12.2017 11.00 A. M.
17	मैकेनिकल ब्रॉच उपकरण		44.00	88000	400	5.12.2017 10.00 A. M.	28.12.2017 10.00 A. M.	29.12.2017 11.00 A. M.
18	सिविल ब्रॉच उपकरण		19.00	38000	400	5.12.2017 10.00 A. M.	01.01.2018 10.00 A. M.	02.01.2018 11.00 A. M.
19	इलेक्ट्रीकल ब्रॉच उपकरण		19.00	38000	400	5.12.2017 10.00 A. M.	01.01.2018 10.00 A. M.	02.01.2018 11.00 A. M.
20	डिजिटल लेब उपकरण		22.00	44000	400	5.12.2017 10.00 A. M.	01.01.2018 10.00 A. M.	02.01.2018 11.00 A. M.
21	कम्प्युनिकेशन लेब		100.00	200000	400	5.12.2017 10.00 A. M.	04.01.2018 10.00 A. M.	05.01.2018 11.00 A. M.
22	थर्मल, मशीन लेब		100.00	200000	400	5.12.2017 10.00 A. M.	04.01.2018 10.00 A. M.	05.01.2018 11.00 A. M.
23	कम्प्यूटर		100.00	200000	400	5.12.2017 10.00 A. M.	04.01.2018 10.00 A. M.	05.01.2018 11.00 A. M.
24	इलेक्ट्रोनिक्स ब्रॉच उपकरण		65.00	120000	400	5.12.2017 10.00 A. M.	04.01.2018 10.00 A. M.	05.01.2018 11.00 A. M.
			900.00	1800000				

- विभिन्न निविदाओं के संबंध में विस्तृत शर्तें एवं अन्य विवरण उपकरण के पूर्ण स्पेशिफिकेशन कार्यालय समय में वेब साईट [www.dte.rajasthan.gov.in](http://www.dte.rajasthan.gov.in), [www.dipronline.org](http://www.dipronline.org) एवं [www.sppp.rajasthan.gov.in](http://www.sppp.rajasthan.gov.in) (पोस्टल अधिनियम) पर देखा जा सकता है। निविदा प्रपत्र को वेब साईट [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) से डाउनलोड/अपलोड किया जा सकता है।
- ऑन लाईन निविदा प्रक्रिया में वे ही संवेदक भाग ले सकेंगे जिनके पास **Digital Signature Certificate** होने के साथ ही उक्त वेब साईट पर पंजीकृत होंगे।
- निविदा शुल्क व धरोहर राशि का पृथक पृथक डिमाण्ड ड्रॉफ्ट सहायक निदेशक, प्राविधिक शिक्षा निदेशालय राजस्थान, जोधपुर के नाम से देय होगा एवं ई-टेंडरिंग प्रक्रिया शुल्क के डिमाण्ड ड्रॉफ्ट राशि रुपये 1000/- का **M.D., R.I.S.L.** जयपुर के नाम से देय हो इस कार्यालय में निविदा खोलने के निर्धारित समय तक जमा करना अनिवार्य है। अन्यथा निविदा नहीं खोलने की पूर्ण जिम्मेवारी फर्म की होगी।
- किसी भी प्रकार के स्पष्टीकरण अथवा शुद्धिकरण की नवीनतम जानकारी हेतु निविदा प्रपत्र डाउनलोड करने वाले निविदादाता नियमित रूप से उक्त वेब साईट का अवलोकन करते रहे।
- उपकरण, मशीनरी, स्टील/लकड़ी फर्नीचर की आपूर्ति संबंधित संस्थानों में 50 दिवस में करनी होगी। अन्यथा नियमानुसार एल. डी. चार्जज की कटौति की जायेगी।
- निर्धारित तिथियों को राजकीय अवकाश होने निविदाएँ उसके अगले कार्य दिवस को उक्त निर्धारित समय पर खोली जायेगी।

7. सशर्त निविदा स्वीकार नहीं होगी।
8. समस्त विवादों का न्यायिक क्षेत्र जोधपुर (राजस्थान) रहेगा।
9. राज्य में राजस्थान लोक उपापन पारदर्शिता अधिनियम-2012 व नियम-2013 प्रभावशील हैं। अतः निविदा पर उक्त अधिनियम व नियम के सभी प्रावधान प्रभावशील होंगे।
10. किसी भी निविदा को पूर्ण/आंशिक स्वीकार करने अथवा बिना कारण बताये अस्वीकृत करने के समस्त अधिकार विभाग के पास सुरक्षित रहेंगे। जिसके संबंध में फर्म से किसी प्रकार के प्राप्त पत्रों पर विचार नहीं किया जायेगा।
11. निविदा में दर्शाये आईटमों की मात्रा एवं आपूर्ति अवधि घटाई/बढ़ाई जाने के समस्त अधिकार विभाग के पास सुरक्षित रहेंगे। जिसके संबंध में फर्म से किसी प्रकार के प्राप्त पत्रों पर विचार नहीं किया जायेगा।
12. प्रत्येक उपकरण की दर एक ही अंकित (टेक्स/अन्य चार्जज जोडकर) करने में प्राथमिकता प्रदान करे।
13. निविदा के साथ दिये जाने वाले समस्त दस्तावेज पूर्ण रूप से भरे जायेंगे।
14. वेट/सीएसटी चुकता प्रमाण पत्र (31.3.2017 तक) संलग्न करें।
15. निविदा के साथ दिये जाने वाले दस्तावेजों के अनुसार पूर्ण भरे हुए एवं आवश्यकता अनुसार समस्त दस्तावेज संलग्न करें। अन्यथा निविदा खोलने के संबंध में विभाग द्वारा लिया गया निर्णय अन्तिम होगा।
16. अगर आपको क्रयादेश जारी किया जाता है तो क्रयादेश में वर्णित आपूर्ति अवधि में उपकरण इत्यादि की आपूर्ति करावें। अगर किन्ही परिस्थितियों के दृष्टिगत आप समयावधि में आपूर्ति नहीं कर सकते है 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 फर्नीचर की आपूर्ति करावें।
17. राजस्थान की लघु औद्योगिक इकाईयों जो निविदित आईटम के लिये पंजीकृत है, द्वारा Form EM-II उद्योग आधार मेमोरेण्डम & Annexure-II की प्रति प्रस्तुत करने पर धरोहर राशि अनुमानित लागत ½ % एवं निविदा शुल्क निर्धारित दर का 50 % देय होगा। इस संबंध में निविदा आईटम EM-II उद्योग आधार मेमोरेण्डम esa सम्मिलित होने के आशय का पृथक शपथ पत्र साथ में संलग्न करना अनिवार्य होगा।
18. डाक द्वारा विलम्ब के लिये विभाग जिम्मेवार नहीं होगा।
19. क्रय किये जाने वाले उपकरण, मशीनरी, स्टील फर्नीचर एवं लकड़ी फर्नीचर की आपूर्ति संबंधित राजकीय पोलिटेक्निक महाविद्यालय में निर्देशानुसार करनी होगी। इसके लिये अलग से भुगतान देय नहीं होगा।
20. उपकरण/मशीनरी निविदा से संबंधित एनेक्चर-एच में किसी भी आईटम में Sample required लिखा गया है उस आईटम से संबंधित सेम्पल निविदा शुल्क, धरोहर राशि एवं प्रोसेसिंग फीस डी. डी. के साथ जमा करवाना होगा। अन्यथा उस आईटम को Tender में CONSIDER नहीं किया जायेगा जिसकी पूर्व जिम्मेवारी फर्म की होगी।



निदेशक, तकनीकी शिक्षा,

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

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**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@yahoo.com)
4. Reference : e-Tender Notice No...../2017-18 Dated .....
5. The Processing fee of Rs. 1000/-, Bid fee and Bid Security (EMD) as per tender notice has been deposited vide separate demand drafts as per enclosed scanned copies.
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.- ..... /2017-18 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 of which has been signed with stamp by me/ us in token of my/our acceptance of the terms & condition mentioned therein) If any page of the tender document is inadvertently left without seal and signature, it will be deemed as signed and sealed.

**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 <a href="http://eproc.rajasthan.gov.in">http://eproc.rajasthan.gov.in</a> & 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: <a href="mailto:dte_raj@yahoo.com">dte_raj@yahoo.com</a>
3.	To participate in online Bids, Bidders will have to <b>possess</b> Digital Signature Certificate (type II or type III) as per information Technology Act-2000 using which they can sign their electronic bids, Bidder can <b>procure</b> 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: <a href="mailto:eproc@rajasthan.gov.in">eproc@rajasthan.gov.in</a> 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 mannul” available under “Downloads” section for further details about the e-tendering process.
7.	<b>RISL Processing fees is Rs. 1000.00[in addition to Bid form Fees &amp; Bid Security (EMD)] which are as per e-tender notice (refer circular no. 19/2011 dated 30.09.2011)</b>
8.	<b>Bid security (Earnest Money) and Bid fees (in the form of Bankers Cheque/ demand draft in favour of Assistant Director, Directorate of Technical Education Rajasthan, Jodhpur payable at Jodhpur) and processing fees (by way of Demand draft in favour of MD, RISL, Jaipur payable at Jaipur) to be submitted physically at the office of undersigned up to the stipulated time &amp; date of opening of Technical Bid, failing which the e-tender will not be admitted.</b>
9.	The following documents must be attached with <b>Technical Bid (First Cover in pdf) failing which Bid is liable to be rejected.</b> <ol style="list-style-type: none"> <li>a. Scanned copies of BC/DD’s of Bid fee, Processing fee &amp; Bid security (EMD).</li> <li>b. Scanned copies of Bid document form along with Conditions of tender (SR-16) &amp; Special Terms &amp; Conditions duly signed and sealed.</li> <li>c. G.S.T. registration certificate and G.S.T. declaration (as per Annexure F) .</li> <li>d. Instructions to bidders document duly signed &amp; sealed by the bidder</li> <li>e. Scanned copy of Power of attorney for authorised signatory to sign the tender document.</li> <li>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</li> <li>g. Price charging certificate as per (Annexure G).</li> <li>h. Declaration by the tenderer (SR 11). Annexure -E</li> <li>i. Scanned copy of PAN card.</li> <li>j. Annexure A, B, C &amp; D duly signed with seal.</li> </ol> <p style="text-align: center;"><b>Signature of bidder with seal</b></p>

	<p>k. Scanned copy of form Entrepreneurial Memorandum Part-II/ Udyog Aadhar and Annexure –I to avail benefit of EMD at reduced rate for SSI unit( If required). A separate affidavit (Annexure-K) 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 .</p> <p>l. Prescribed check list</p> <p>m. Format of RTGS/NEFT as per Annexure –J</p> <p>n. Any other documents which the bidder wants to submit and/ or any document as per tender.</p> <p>o. Certificate of Annual Turnover from Chartered Accountant.</p> <p>p. Authorization certificate in Annexure-L (if applicable)</p> <p><b><u>Note: The bidder must upload scanned copies of all the originally down loaded documents (Duly filled and seal-signed) of this tender only.</u></b></p> <p><b>Second cover (Financial/Price bid/BOQ-xls)</b> should contain details of price quoted in BOQ.</p> <p>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 &amp; RTPP Act 2012 will prevail in this regard.</p>
<b>10.</b>	Incomplete & conditional Bid in any respect will be rejected without any information.
<b>11.</b>	The Director ( <b>Education</b> ), Directorate of Technical Education Rajasthan, Jodhpur has reserve the right to reject all/ any part of Bid received from the firms/ Bidders without assigned any reason thereof.

**Director (Education)**

I/we have carefully read and understood above instruction

**Signature of bidder with seal**

.....  
**SPECIAL 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](http://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](http://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 BC/DD's of Bid fee, Processing fee & Bid security (EMD).
- 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. declaration (as per Annexure F) .
- 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 duly signed with seal.
- k. Scanned copy of form Entrepreneurial Memorandum Part-II/Udhyog Adhar and Annexure -I to avail benefit of EMD at reduced rate for SSI unit( If required). **A separate affidavit (Annexure-K) 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. (Format attached at annexure-K)**
- l. Prescribed check list

**Signature of tenderer with seal**

- m. Fomat 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. Authorisation certificate in Annexure-L (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.**

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](http://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 (whether inclusive or 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. The complete set of documents must be then furnished **duly digitally signed through DSC of bidders company** and submitted on [www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in) in time as per **checklist** provided with the tender document . The checklist along with relevant page nos. shall also be submitted with the tender.
- 13. 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.
- 14. 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)**
- 15. No conditional tenders shall be accepted and will be rejected summarily forthwith.
- 16. 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**

- 17. No refund of tender fee is claimable for tenders not accepted or forms not submitted.



18. 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.
19. The supply will be accepted only on working day in the office working hours.
20. 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 repaired/replaced FREE OF COST at Concerning Institute.
21. Quantity of items can be increased/decreased/cancelled. Department is competent to accept/refuse the Tender/Tenders without quoting any reason thereof.
22. **The Samples where ever mentioned in technical specification (Annexure-H) must be submitted in this Directorate alongwith physical submission of D.D. of EMD.**
23. **The Scanned copies of Catalogue/Literature and/or Authorisation Certificate (Duly seal-signed by the bidder) where ever demanded in technical specification (Annexure-H) must be uploaded alongwith the bid otherwise concerned items will not be considered for technical evaluation.**
24. **The Average Annual Turnover of the bidder for last three financial years (2014-15 to 2016-17) or any year of the last three year will be minimum Two times of the tender cost as per NIT but minimum Turnover of the bidder must be more than Rs. 20.00 Lacs. 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.**
25. **All applicable statutory deductions regarding GST, income tax etc. are to be made from the suppliers bill.**
26. All other Terms and conditions shall be as specified in the Rajasthan Transparency in Public Procurement Act, 2012, Rajasthan Transparency in Public Procurement Rule, 2013 and will prevail.

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](http://www.dte.rajasthan.gov.in) e-mail ID: [dte\\_raj @yahoo..com](mailto: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 charge 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 tenderer with seal**

8. **COMPARISON OF RATES** : Due to applicability of G.S.T. in place of V.A.T. the comparison of rates between firms of Rajasthan & out of Rajasthan will be made as per applicable rules (if any) made by the State Government up to the date of opening of financial Bid.
9. **PRICE PREFERENCE** : Price preference will be given to the goods produced or manufactured by industries of Rajasthan over goods produced or manufactured by industries outside Rajasthan as per purchase of stores (as per Finance Department Notification no. F1 (8)/FD/GF&AR/2011 dated 19.11.2015 or as per any amendment made by the State Government there after) Rules.
  - 9.1 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.
  - 9.2 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).
10. **VALIDITY** : Tenders shall be valid for a period of **90 days** from the date of opening of Tender.
11. 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
12. The contractor shall not assign or sublet his contract or any substantial part there of to any other agency.
- 13.1 **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.
- 13.2 The supply of articles marked with a struck/at serial number shall in addition, confirm strictly to the approved samples. 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.
- 14.1 **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 purchaser 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 officer in that behalf will be final and conclusive). The purchaser will be entitled to reject the said goods/stores/articles or such portion there of 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.

**Signature of tenderer with seal**

- or such portion there of as is rejection by the purchase officer, 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 in that behalf under this or otherwise.
- 14.2 In case of machinery and equipment also guarantee will be given as mentioned in clause (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.
- 14.3 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.
- 15.1 INSPECTION:** The purchase officer 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.
- 15.2 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.
- 16. SAMPLES:** Tender for articles marked within the schedule shall be accompanied by two 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.
17. Each samples 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.
18. Approved samples 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.
19. Samples 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**

20. 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.
21. **DRAWLS OF SAMPLES :** In case of tests, samples shall be drawn in four sets in the presence of tenderer or his authorized 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 fourth will be retained in the office for reference and record.
22. **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.
- 23.1 **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.
- 23.2 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 an 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.
24. 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's risk and on his account.
25. The tenderer shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of any loss and breakage or leakage or any shortage the tenderer 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.
26. 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.
27. Direct or Indirect canvassing on the part of the tenderer or his representative will be disqualification.
- 28.1. **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
			<b>50 Days</b>

- 28.2. 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**

- 28.3 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.
- 28.4 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 goods or services of the original contract.
- 29.1 EARNEST MONEY:** Tender shall be accompanied by an earnest money as mentioned in tender notice, without which tenders will not be considered. The amount should be deposited in either of the following forms in favour of **Assistant Director, Technical Education Rajasthan, Jodhpur.**
1. Cash through Treasury Challan deposited under head
    - 8443-Civil deposit**
    - 103-Security deposits**
  2. Bank Drafts/Bankers Cheques of the schedule Bank.
- 29.2 **REFUND OF EARNEST MONEY :** The Earnest Money of unsuccessful tenderes shall be refunded soon after a final acceptance of tender.
- 29.3 **PARTIAL EXEMPTION FROM EARNEST MONEY :-** Firms which are registered with Director of Industries. Rajasthan shall furnish the amount of earnest money in respect of items for which they are registered as such subject to their furnishing registration certificate in original or Self Attested Photostat copy issued from the Director of Industries, Rajasthan at the rate of 0.5 % of the estimated value of the tender shown in N.I.T.
- CLAUSE :-**
- i. Micro and Small Enterprises which have obtained an acknowledgement of EM-II/Udhyog Aadhar from the concerned District Industries Centre, shall make payment of earnest money @ 0.5% (Half Percent) of the value of the quantity offered for supply by them in respect of item(s) for which acknowledgement of EM-II/Udhyog Aadhar has been issued to them.
  - ii. Such Enterprises shall be required to pay security deposit @1% of the value of stores ordered to be supplied on furnishing of an attested copy of acknowledgement of EM-II/Udhyog Aadhar with an affidavit of Rs. 50/- non judicial stamp by enterprise in prescribed format. {vide FD Circular No. 24/2010 dated 19.10.2010}
- 29.4 The Central Government and Government of Rajasthan under taking need not furnish any amount of earnest money.
- 29.5 The earnest money/security deposit lying with the department/office in respect of other tenders awaiting approval or rejected or on account of contracts being completed will not be adjusted towards Earnest Money/Security Money for the fresh tenderer. The earnest money may however, be taken into consideration in case tenders are re-invited.

**Signature of tenderer with seal**

30. **FORFEITURE OF EARNEST MONEY** : the Earnest Money will be forfeited in the following cases :
- i. When tenderer withdrawls 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 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) :-**

- 31.1 i. Successful tenderer will have to execute an agreement in the **Form 17** (on non-judicial Stamp Paper of the value @ 0.25% of the purchase order amount (Minimum Rs 500/- and maximum Rs 25000/-) within a period of 15 days of issue of order and deposit security equal to 5% 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. The Earnest Money deposited at the time of tender will be adjusted towards security amount. The security money amount shall in no case be less than the earnest money.
  - iv. 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 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.
- 31.2 i. Firms 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 @ 1% of the estimated value of tender.
- ii. Central govt. & Govt. of Rajasthan under taking will exempted from furnishing security amount.

**31.3 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.
- 31.4 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.
32. i. All goods must be sent freight paid through rail or goods transport. If goods are 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.
- iii. In case supply is desired to be sent by the purchase officer by passenger train. the entire railway freight will be borne by the department.
- iv. Remittance charges on payment made shall be borne by the tenderer.

**33. 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**



**34. 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.
- 35.1 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.
- 35.2
- |  |              |
|--|--------------|
| a. Delay up to the one fourth period of the prescribed delivery period.          | <b>2.5 %</b> |
| b. Delay exceeding one fourth but not exceeding half of the prescribed period.   | <b>5.0 %</b> |
| c. Delay exceeding half but not exceeding three fourth of the prescribed period. | <b>7.5 %</b> |
| d. Delay exceeding three fourth of the prescribed period.                        | <b>10 %</b>  |
- 35.3 Fraction of a day reckoning period of delay in supplies shall be eliminated if it is less than half a day.
- 35.4 The maximum amount of liquidated damages shall be 10%.
- 35.5 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.
- 35.6 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.
- 36. 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.
37. Tenderers must make their **own** arrangement to obtain import license if necessary.

**Signature of tenderer with seal**

38. 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.
39. The purchase officer 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.
40. The tenderer shall furnish the following documents at the time of execution of agreement.
  - i. Attested copy of Partnership Deed in case of partnership firms.
  - ii. Registration No and Year of registration in case partnership firm is registered with register of firms.
  - iii. Address of residence and office telephone number in case of sale proprietorship.
  - iv. Registration issued by Registrar of companies in case of company.
41. 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.
42. 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 42) 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 DECLARATION  
BY THE BIDDER**

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 :

**Signature of Bidder with seal**

Place :

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/ Authorised 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/- vide FD Circular No. 24/2010 dated 19.10.210)

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)

**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	:	
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

**FORMAT OF AFFIDAVIT**

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

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...../2017-18 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

**Authorisation certificate to be submitted by Principal manufacturer**

It is certified that M/s..... (Name & address of tenderer) is our authorised Distributer/ Dealer. They are authorised to submit tender for ..... (Name of item) to Director (Training), 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 authorised 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 authorised Distributor/ Dealer the new authorised Distributor/Dealer will be responsible for guarantee and after sale-service. In case of failure we will be responsible for providing after sale service.

**Signature of Principal Manufacturer  
with rubber stamp**

**Note:-** This authorisation certificate should be typed & signed 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.

**CHECK LIST**

**List of required Schedules/documents to be submitted online duly signed/ digitally  
Signed by Authorized Signatory**

S. No.	Particulars as per specification	Description of required document	Details of documents to be uploaded by bidder along with relevant page Nos.
<b>(i) COVER – I : Details of Tender Fee/Bid Security/Tender Processing Fee etc. (.pdf)</b>			
01	Cost of Tender Document	Proof of depositing cost of tender specification documents (DD/ Banker's Cheque).	
02	Details of Bid security (EMD)/ Registration/ exemption certificate (EM-II)	Proof of depositing Bid Security (DD/Banker's Cheque/vendor Registration certificate / copy of EM-II with annexure H & affidavit	
03	Tender processing fee	Proof of depositing DD/ Banker's Cheque towards e- tender processing fee.	
04	Authorization of Digital Signature (if applicable)	Power of Attorney for authorized signatory to sign the tender document digitally	
05	<b>G.S.T.</b> Declaration (Annexure-F)	Yes/No	
06	VAT Registration Certificate	Yes/No	
07	Copy of PAN Card	Yes/No	
08	Bid document form duly signed & sealed	Yes/No	
09	Special conditions of tender	Yes/No	
10	Tender form SR-16	Yes/No	
11	Declaration regarding Bonafide dealer SR-11 (annexure-E)	Yes/No	
12	Annexure A, B, C, D,G,J	Yes/No	
13	Technical specifications in annexure-H	Yes/No	
14	Annual Turnover certificate from Chartered Accountant.	Yes/No	
15	Annexure - I&K for SSI Unit (if applicable)	Yes/No	
16	Authorisation of manufacturer (Annexure-L) (if applicable)	Yes/No	
<b>(iii) COVER – II : Financial/Price Bid/BOQ (.xls)</b>			
01	Price bid/BOQ	Details of Price quoted of the material offered in Price bid/ BOQ	

**Signature of tenderer with seal**





**Envelope "H"**

**e-Tender No. 1 Part 19 (2017-2018) ELECTRICAL BRANCH EQUIPMENT**

**TECHNICAL SPECIFICATION**

- 01.** The scanned copy of this annexure (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.
- 02.** The samples where-ever mentioned in specifications must be submitted in this Directorate along with physical submission of DD's of EMD etc, otherwise concerned item will not be considered for technical evaluation.
- 03.** Scanned Copies of Original Literature/Leaflets/Catalogue etc. must be enclosed in support of your Make and Specifications otherwise concerned items will not be considered for Technical Evaluation.
- 04.** The delivery period will be 50 Days.
- 05.** The Material will be Supplied F.O.R. at Principal Government Polytechnic College, as per order List.
- 06.** Authorization Certificate of manufacturer where-ever mentioned in specifications must be submitted in prescribed format (Annexure-L) otherwise concerned item will not be considered for Technical Evaluation.
- 07.** All the required literature/ leaflets/Catalogues, authorization certificates must be submitted with the tender. **For the all Items.**
- 08.** **All the material supplied should be new and no item can be supplied which is refurbished.**

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
1	A/D converter- 2/3 Bit simultaneous A/D converter	2	0	0	0	0	2	
2	8085 Microprocessor Training kit with LCD Display	1	0	0	0	0	1	
3	Digital earth resistance tester with accuracy $\pm 1.0\%$ 3 1/2 digital LCD display provided NiMh rechargeable cell, low battery indication, 0-2000 ohm auto range .	1	0	0	0	0	1	
4	<b>DISPLACEMENT MEASUREMENT TRAINER USING LVDT</b> <b>1. Input : LVDT based transducer Range 0 to 20 mm (+10 mm)</b> <b>2. Excitation source : Sine wave 2KHz to 5KHz, 0 to 3V amplitude</b> <b>3. Type : Spring loaded core type</b> <b>4. Configuration : Axial type</b> <b>5. Pitch : 1 mm</b> <b>6. Display : 3-1/2 digit calibrated mm in mV on multimeter</b> <b>7. CAL Adj. : Through single turn potentiometer</b> <b>8. Measurement : By 25mm Micrometer</b> <b>9. Power source : 230V +10%, 50Hz</b>	2	0	0	0	0	2	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p><b>10. All parts are soldered on TAGS on SINGLE PCB of size 15"x12" with complete circuit diagram SCREEN PRINTED in Multicolor.</b></p> <p><b>11. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</b></p> <p><b>12. The true value of component is printed on component side.</b></p> <p><b>13. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</b></p> <p><b>14. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</b></p>							
5	<p><b>Measurement of angular measurement using Capacitive transducer</b></p> <p><b>1. Input : Gang with a dial mounted on its shaft</b></p> <p><b>2. Transducer : Capacitance Angular sensor</b></p> <p><b>3. Displacement Range : 0 to 90°</b></p> <p><b>4. Excitation : 2V, 5Khz (approx.) sine wave</b></p> <p><b>5. Display : 3-1/2 digit Red Seven Segment Display</b></p> <p><b>6. Transducer balance : R &amp; C balance</b></p> <p><b>7. CAL ADJ. : Through single turn potentiometer</b></p>	1	0	0	0	0	1	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>8. Power source : 230V +10%, 50Hz</p> <p>9. All parts are soldered on single PCB of size 15"x12" with complete circuit diagram screen- printed.</p> <p>10. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>11. The true value of component is printed on component side.</p> <p>12. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>13. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
6	<p>Measurement of Temperature using Thermo Couple</p> <p>1. Power supply : 230V Ac, 50 Hz. Built in power supply</p> <p>2. Transducer : Thermocouple sensor with digital panel meter</p> <p>3. Transducer Type : Immersion Type Iron-Constantan probe in sheath with</p> <p>4. Transducer Range : 0° to 100°C.</p> <p>5. Comparison : by Mercury Thermometer</p>	1	0	0	0	0	1	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>6. Mercury thermometer and heater : 10 Watts</p> <p>7. Output : for Monitoring at all stages</p> <p>7. Output Display : 3 and ½ digits Digital Panel meter calibrated in °C.</p> <p>8. Test Points provided to measure voltages and observe waveforms at different point.</p> <p>9. All parts are soldered on TAGS on SINGLE PCB with complete circuit diagram SCREEN PRINTED.</p> <p>10. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>11. The true value of component is printed on component side.</p> <p>12. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>13. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
7	<p>Measurement of speed using magnetic transducer</p> <p>1. Power supply : 230V Ac, 50 Hz.</p> <p>2. Transducer Type : Magnetic pickup.</p> <p>3. Motor : 12V DC motor with 3000 RMP speed</p>	1	0	0	0	0	1	

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	<p>4. Arrangement : Motor mounted with wheel and magnetic pickup</p> <p>5. Motor Speed controller : provided to change the speed of motor.</p> <p>6. Measurement Range : 10000 RPM Max.</p> <p>7. Output Display : 4 digits Digital frequency Counter calibrated in R.P.M.</p> <p>8. All parts are soldered on single PCB of size 12"x 9" 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>							
8	Elect. Hand drill Machine Dia 12 MM 230 V 50Hz	2	0	0	0	0	2	
9	Trainer Kit for telephone circuit	1	0	0	0	0	1	
10	ELCB, SINGLE PHASE, 40A 250 volts 30-100mA double Pole (2P) as per IEC 61008	1	0	0	0	0	1	
11	Static Energy meter single phase AC,240V,50Hz, 5-20A	6	0	0	0	0	6	

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12	Fire Extinguisher 9.5 Ltr.(ABC Dry powder, Stored pressure IS13849)	2	0	0	0	0	2	
13	<b>TRANSFORMER OIL TESTING KIT</b> Adjustable Sphere gap type Transformer Oil BDV testing set as per IS test requirements, fast acting DC relay to cut-off HT, Input 1 phase 230 volt and output 0-80KV, both manual & auto variation HV transformer is air cooled epoxy moulded with centre tap grounded.	1	0	0	0	0	1	
14	<b>Laboratory D.C. Power Supply</b> 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	1	0	0	0	0	1	
15	CO <sub>2</sub> type Fire Extinguisher, 4.5 Kg, Class B & C fire with stand	0	4	0	0	0	4	
16	ELCB 240V, 50Hz, 10KA short ckt. With stand capacity, 25A, 2 pole & 30mA sensitivity	0	4	0	0	0	4	
17	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	0	2	0	0	0	2	
18	Sodium Vapour Lamp Fixture Laboratory type Working Model:-	0	2	0	0	0	2	



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	Complete Set with 125W Lamp Choke Coil, Holder, Capacitor body, 250V, 50Hz ,. working connection with Figure on wooden case with bakelite top.							
19	Mercury Vapour Lamp Fixture Laboratory type Working Model:- Complete Set with 125W Lamp Choke Coil, Holder, Capacitor Ignitor And body, 250V, 50Hz etc., working connection with Figure on wooden case with bakelite top.	0	2	0	0	0	2	
20	2 Wheeler auto electric circuit Diagram, With working model & Manual.	0	1	0	0	0	1	
21	4 Wheeler auto electric circuit Diagram, With working model & manual.	0	1	0	0	0	1	
22	Mercury Vapour Lamp Fixture Laboratory type Working Model:- Complete Set with 125W Lamp Choke Coil, Holder, Capacitor Ignitor And body, 250V, 50Hz etc, working connection with Figure on wooden case with bakelite top.	0	3	0	0	0	3	
23	Sodium Vapour Lamp Fixture Laboratory type Working Model:- Complete Set with 125W Lamp Choke Coil, Holder, Capacitor body, 250V, 50Hz , working connection with Figure on wooden case with bakelite top.	0	3	0	0	0	3	

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24	Working model of Table fan with fault finding facility in electrical work shop & manual	0	3	0	0	0	3	
25	Working model of Water cooler 200 liter with fault finding facility in electrical work shop & manual	0	1	0	0	0	1	
26	Transformer Oil Testing Set:- Adjustable Sphere gap type Transformer Oil BDV testing set as per IS test requirements, fast acting DC relay to cut-off HT, Input 1 phase 230 volt and output 0-80KV, both manual & auto variation HV transformer is air cooled epoxy moulded with centre tap grounded.	0	1	0	0	0	1	
27	Maxwell's bridge Training board for measurement of inductance & capacitance in lab with accessories and manual	0	2	0	0	0	2	
28	Variable capacitor Continuously variable (0-1000)mf 250volt	0	2	0	0	0	2	
29	Power factor meter (Analog) Dynamometer type, eddy current damping, 50 Hz 20 amp 300volt p.f. Range 0.5 lag, unity 0.5 lead. Wooden/ebonite case.	0	1	0	0	0	1	
30	Strain gauge trainer with Bourdon tube Strain gauge Transducer Trainer	0	1	0	0	0	1	

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	<b>Metallic bonded Strain Gauge : (350 ohm) : 4 Nos</b> <b>Gauge Factor : 2.1</b> <b>Max. bearable weight 500 gms</b> <b>Cantilever Material : Stainless Steel</b> <b>Cantilever Width : 2.5cm</b> <b>Cantilever Thickness : 016 cm</b> <b>Cantilever Length : 20cm</b> <b>Bridge Configuration : Full Bridge</b> <b>Display : 3½ Digits LED</b> <b>Test Point : 8 Nos</b> <b>Power Requirement : 220V ±10%, 50/60Hz, provide temp. compensation</b> <b>Accessories : Mains Cord, Manual, Standard weight.</b>							
31	Slip ring induction motor starter for 230/400V,3-phase,50Hz,5HP,7.5Amp with all accessories	0	1	0	0	0	1	
32	Three point starter for 230V, 5HP, 21.5Amp 1450 rpm DC compound motor	0	1	0	0	0	1	
33	Three point starter for 230V, 6KW, 11.3 Amp, 2800 rpm DC shunt motor	0	1	0	0	0	1	

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34	Three phase auto transformer of 440V/0-440V, 5KVA, 50Hz for practical purposes	0	1	0	0	0	1	
35	Working model of 3-point dc compound motor starter:-Three-point starter Demonstration Model with wooden case (with glass cover) for DC shunt motor with complete protection accessories.	0	1	0	0	0	1	
36	Working model of 4-point dc compound motor starter:- FOUR – POINT starter Demonstration Model with wooden case (with glass cover) for DC shunt motor with complete protection accessories.	0	1	0	0	0	1	
37	<p>Working model of 3-phase induction motor</p> <p>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</p> <p>The experimental setup should have following features: Panel comes with full descriptive Mimic diagram for comprehensive</p>	0	1	0	0	0	1	

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	<p>learning Powder coated panels for safety purpose.Ensure full Safety of operator by using BS-10 terminal, Earthling and MCBs/Fuse protection.</p> <p>Systems embedded with latest digital metering</p> <p>Designed by considering all the safety precautions</p> <p>Provided with digital Tachometer</p> <p>Complete Exp. Manual.</p> <p>Motor Specification's Type : Squirrel Cage 3Ph IM mounted on a M.S. channel base</p> <p>Rating : 3HP, 4 Pole, 50 Hz, 415 V</p> <p>RPM : 1440 ( Full Load) with automatic star delta starter.</p> <p>Digital Meter Specification:-</p> <p>Microcontroller based Accurate &amp; Reliable design</p> <p>AC Voltmeter</p> <p>Voltage : 0 - 500V</p> <p>AC Ammeter</p> <p>Current : (0 – 5 )Amps</p> <p>Single Phase Watt Meter(2 Nos) : 0-1000 Watt</p>							
38	Working model of 1-phase induction motor :- One-fourth Cut	0	1	0	0	0	1	

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	sectional cast iron models for demonstration purpose of 1.0 KW 1-Ø squirrel cage induction motor in which all parts of the motor must be visible							
39	Working model of DC shunt motor:One-fourth Cut sectional cast iron models for demonstration purpose of 3.0 KW DC Shunt motor in which all parts of the motor must be visible	0	1	0	0	0	1	
40	Digital ammeter AC/DC of following ranges 0-1 Amp, 0-2 Amp, 0-5 Amp, 0-10 Amp	0	1	0	0	0	1	
41	Digital Voltmeter AC/DC following ranges 0-50V, 0-100V, 0-250V, 0-500V,	0	1	0	0	0	1	
42	Digital multi meter 3 1/2 Digit with features of ac/dc voltage, current, resistance, capacitance, diode, buzzer ,temp. & frequency testing	0	4	0	0	0	4	
43	Experimental Setup for Starting of synchronous motor and plotting V-curves Type:SI, Winding: Auto Sy., KW: 3, ISS: 325, Speed: 1500rpm, Field Volt:230, Volt: 200V, Field amp: 1.1 Amp:4.5 Exciter: DC shunt motor. plotting of V-curve at no load, lagging load and leading load.	0	1	0	0	0	1	

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	The above exp. Set up must be fixed on Bakelite sheet panel type. Accessories like T.P., Voltmeter, Ammeter, brass contacts, with manual.							
44	Bourden Tube Piezo resistive Transducer Trainer Board for Pressure measurement of 0-30 kg/cm <sup>2</sup> with accessories	0	0	2	0	0	2	
45	Calibration of wattmeter using crompton potentiometer (C.R.) Complete experimental setup With All Accessories and manual. Wattmeter UPF 5/10A, 150/300/600V – 1 Pcs. Wattmeter LPF 5/10A, 150/300/600V – 1 Pcs. C.R. crompton potentiometer (C.R.)- 1 Pcs	0	0	1	0	0	1	
46	Washing Machine, 6.5 Kg. Digital Sensi logic, 4 water level, 8 wash program memory back up, auto balancing.	0	0	1	0	0	1	
47	ROOM HEATER (FAN TYPE) Number of Heat Settings 2 (i.e. 1000W,2000W), Fan Type, 50 Hz, 230 V. Aesthetic Design (Portable, Light Weight and Carrying Handle Made Up of Non-heating Material), 2 Speed Motors, Air Inlet.	0	0	1	0	0	1	
48	Ceiling Fan (48")	0	0	2	0	0	2	

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49	Winding Machine hand driven with indicator	0	0	5	0	0	5	
50	Room Cooler Desert Fan 105W, 250V ,5star rating Pump 35W, 250V ISI marked, Body Size 36"x37"x37" 20 Gauge Metal Sheet Body, Semi exhaust fan, Motor	0	0	1	0	0	1	
51	Digital multi-meter Digit Resolution 6.5 VDC accuracy 0.0035 reading+0.0005% range Measurements Volt, Amps, Ohms, Frequency, Period, Continuity, diode test, Capacitance, Temperature	0	0	0	1	0	1	
52	CRO (Storage) Analog Bandwidth 200MHz Sample Rate 2GS/s Record length 2.5K-points Analog channels 4	0	0	0	1	0	1	
53	DC Power Supplies Linear Regulation Up to 72 V Output Voltage	0	0	0	1	0	1	



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	<b>0.05% Basic Voltage Accuracy</b> <b>0.2% Basic Current Accuracy</b> <b>10 mV / 10 mA</b> <b>Programming Resolution</b> <b>Less than 3 mVp-p</b> <b>Ripple and Noise</b> <b>Output voltage 18V-72V</b> <b>Output current 1.5A-6A</b>							
54	<b>MEASUREMENT OF DISPLACEMENT USING POTENTIOMETRIC TRANSDUCER.</b> <b>Power supply : 203 V Ac, 50Hz.</b> <b>Transducer : Potentiometric. Range : + 50 mm.</b> <b>Measurement method : By making.</b> <b>Moving action : Axial.</b> <b>Excitation Voltage : 0 to 5 V DC.</b> <b>Output Display : 3 and 1/2 digits Digital Panel meter calibrated in mm. All</b> <b>Parts are soldered on SINGLE PCB of size 12"x9" with</b>	0	0	0	1	0	1	

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	<b>Complete circuit Diagram SCREEN PRINTED. Standard Accessories</b>							
55	<b>Tool kit containing 10 mm Impact drill + 100 pcs accessories</b>  <b>Main Unit, Combination Plier, Nylon Plugs, Concrete Drill Bits, Utility Knife, Wood Drill Bits, Wrench, Hammer, Spirit Level, Screwdriver Bits, Screws, Screw Driver Set. Total 100 Pc Accessories</b>	0	0	0	3	0	3	
56	<b>Digital Techo Meter</b> <b>Portable, battery operated, 4 Digit, LED, 1-9999 rpm, contact Type.</b>	0	0	0	2	0	2	
57	<b>CLAMP ON METER 3</b> <b>AC current 41.99 to 1000 Amp, 3 ranges (50 to 60hz, basic accuracy ±1.5% rdg ±5 dgt, DC voltage 419.9mv to 600 v, 5 ranges, basic accuracy ±1.3 % rdg ± 4 dgt, Ac Voltage 4.199V to 600V, 4 ranges (50 to 500Hz average rectified ), basic accuracy ±2.3% rdg ±8 dgt, Resistance 419.9 ohm to 41.99 M ohm 6 ranges. , basic accuracy ±2.0</b>	0	0	0	1	0	1	

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	% rdg $\pm 4$ dgt. Display LCD Max 4199 dgt, display refresh rate 2.5 times/s, 1 time/3 seconds							
58	Desk Type Analog Ammeter 0-1-2-5-10A, Accuracy $0.5\pm 1\%$	0	0	0	2	0	2	
59	Desk Type Digital Ammeter 0-1-2-5-10A, Accuracy $0.5\pm 1\%$ Auxiliary supply 230V AC $\pm 10\%$	0	0	0	2	0	2	
60	Desk Type Analog Voltmeter 0-150-300-600V, Accuracy $0.5\pm 1\%$	0	0	0	2	0	2	
61	Desk Type Digital Voltmeter 0-150-300-600V, Accuracy $0.5\pm 1\%$ Auxiliary supply 230V AC $\pm 10\%$	0	0	0	2	0	2	
62	Desk Type Analog Wattmeter 0-5-10AMP, 0-150-300-600-1000V, Accuracy $0.5\pm 1\%$	0	0	0	2	0	2	
63	Electrical Kettle 1100 W Plastic Body 0.5 Lit Capacity Beautiful aesthetics	0	0	0	0	2	2	

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	<b>2 utility / travel cup</b> <b>utility spoon</b> <b>concealed heating element for easy cleaning</b> <b>convenient spout</b> <b>auto shut off</b> <b>dry boil safe</b>							
64	<b>3 ¾ Digit Digital Multimeter with USB Interface</b> <b>3¾ Digital Multimeter with USB Interface shall have following specifications;</b> <ul style="list-style-type: none"> <li>• <b>USB interface can connect to computer</b></li> <li>• <b>Large LCD analog bar graph display.</b></li> <li>• <b>Unit symbol display</b></li> <li>• <b>Metallic screen board with strong antimagnetic and anti-interferential function</b></li> <li>• <b>Auto power off and alarm when stopped used after 15 minutes.</b></li> </ul> <b>Full function protection anti-high voltage circuit design</b> <ul style="list-style-type: none"> <li>• <b>Software to acquire the reading into the PC.</b></li> <li>• <b>Different functions can be controlled by PC.</b></li> <li>• <b>Technical Specification</b></li> </ul>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>	

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	<p><b>o Function Range Accuracy</b></p> <p><b>o DC Voltage 400mV/4V/40V/400V/1000V ±(0.5%+4)</b></p> <p><b>o AC Voltage 400mV/4V/40V/400V/750V ±(0.8%+10)</b></p> <p><b>o DC Current 400uA/4000uA /40mA/400mA/4A/10A ±(0.10%+10)</b></p> <p><b>o AC Current 400uA/4000uA /40mA/400mA/4A/10A ±(1.5%+10)</b></p> <p><b>o Resistance 400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ ±(0.8%+4)</b></p> <p><b>o Frequency 4Hz/40Hz/400Hz/4kHz/40kHz/400kHz/4MHz/30MHz ±(0.1%+4)</b></p> <p><b>o Capacitance 50nF/500nF/5uF/50uF/100uF ±(3.5%+8)</b></p> <p><b>o Temperature (-20 ~ 1000)°C ±(1.0%+5)</b></p> <p><b>• 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.</b></p> <p><b>• Frequency /duty cycle(0.1%~99.9%),</b></p> <p><b>• Input impedance 10MΩ</b></p> <p><b>• Sampling rate 3 times/s</b></p>							

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	<ul style="list-style-type: none"> <li>• AC Frequency response (40-400)Hz</li> <li>• Operation way Auto range</li> <li>• Max. display 3999</li> <li>• LCD Size 70×50mm</li> <li>• Power 3V (1.5V×2)</li> </ul>							
65	Electric mixer juicer 230V AC/50 Hz with Heavy duty motor, 800 to 850 W, 90 min. rating, class I double insulated RPM 18000 , 1 blender Jar , Juicer attachment without load Three speed with incher Universal Heavy duty motor,	0	0	0	0	1	1	
66	<b>Water cooler</b> <b>Compressor : Reciprocating</b> <b>Cooling Capacity (Ltr /hr) : 80</b> <b>Number of Faucets : 2</b> <b>Rated current (amp ) : 4.8</b> <b>Refrigerant : R-22</b> <b>Total storage capacity : 150</b> <b>Type : Storage MAKE :- USHA, VOLTAS, BLUE STAR OR EQUIVELENT</b>	0	0	0	0	2	2	
67	Transformer oil testing kit	0	0	0	0	1	1	

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	Adjustable Sphere gap type Transformer Oil BDV testing set as per IS test requirements, fast acting DC relay to cut-off HT, Input 1 phase 230 volt and output 0-80KV, both manual & auto variation. HV transformer is air cooled epoxy moulded with centre tap grounded.							
68	<b>3 Phase power Measurement</b> 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 – 2 Pcs. Analogue Voltmeter - 1no Analogue Ammeter - 1nos 3 phase loading arrangement. 3KW MCB, TPN for control circuit protection provided in the panel	0	0	0	0	1	1	
69	<b>Meggar</b> <b>Features</b> <ul style="list-style-type: none"> <li>• Checks new installations for proper insulation</li> <li>• Checks existing installations and motor windings for breakdowns in insulation</li> </ul>	0	0	0	0	1	1	





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71	<p><b>Calibration of dynamometer type wattmeter</b>  <b>Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:-</b>  <b>Wattmeter UPF 5/10A, 150/300/600V – 1 Pcs.</b>  <b>Digital Wattmeter for reference – 1 Pcs.</b>  <b>Analogue Voltmeter - 1no MECO/KEW MAKE</b>  <b>Analogue Ammeter - 1nos MECO/KEW MAKE</b>  <b>1 phase bulb loading arrangement of 1.5 KW</b>  <b>MCB for control circuit protection provided in the panel</b></p>	0	0	0	0	2	2	
72	<p><b>Calibration of induction type energy meter.</b>  <b>Conventional method of meter testing bench is by Phantom Load and Phase Shifting Transformer.</b>  <b>It consist of nicely powder coated M.S. fabricated box with 4 feet x 2 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:-</b>  <b>(a) Voltmeter</b>  <b>(b) Ammeter</b></p>	0	0	0	0	2	2	

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	(c) <b>ISI Marked Energy meter</b> (d) <b>Continuously variable Auto Transformer.</b> (e) <b>Phantom Load.</b> (f) <b>Stop Watch / Stop Clock.</b> (g) <b>Power factor meter.</b> (h) <b>Control circuit with protections.</b> (i) <b>Rheostat 10 A /10 Ohm</b> <b>Phase shifting Transformer for Testing of Energy meter at different power Factor meters.</b>							
73	<b>Measurement of power in 3-phase circuits by two wattmeter method</b> <b>Complete experimental setup nicely mounted on Bakelite Sheet with MS cubical for easy mounted on the working bench. Comprising of the following:-</b> <b>Wattmeter UPF 5/10A, 150/300/600V – 2 Pcs.</b> <b>Analogue Voltmeter - 1no, MECO/KEW MAKE</b> <b>Analogue Ammeter - 1nos, MECO/KEW MAKE</b> <b>3 phase loading arrangement of 3KW</b> <b>MCB, TPN for control circuit protection provided in the panel</b>	0	0	0	0	2	2	

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74	<b>Whetstone bridge</b> 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 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. 6. Standard Accessories : 1. A Training Manual. 2. Connecting Patch cords.	0	0	0	0	2	2	
75	<b>Calibration of ammeter and voltmeter measurement of resistance by D.C. potentiometer</b> 1. High precision DC slide wire potentiometer (round dial type) with coarse and fine potentiometers and terminal for inserting patch	0	0	0	0	2	2	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>ords , 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.</p> <p>4. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>5. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
76	Measurement of turn ratio of current transform and potential transformer.	0	0	0	0	2	2	
77	<p>Potentiometer</p> <p>1. The complete circuit of Potentiometric displacement measurement is printed on single PCB.</p> <p>2. Study of characteristics of Potentiometric transducer.</p> <p>3. Complete Circuit is screen printed on the PCB.</p> <p>4. All parts are soldered on single pin tag for easy replacement.</p>	0	0	0	0	3	3	

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	<p>5. Typical ICs are provided on sockets to provide a facility to check similar other ICs.</p> <p>6. Explanation, Observation, Alignment and adjustment of Internal and External controls is possible at a glance due to single PCB.</p> <p>7. Easy identification of different parts of Potentiometric transducer at a glance.</p> <p>8. Easy measurement of Voltages and Observation of waveforms at any point. Also typical voltages and waveforms are provided.</p> <p>9. A manual having Practical details is provided with the trainer.</p> <p>10. The whole circuit of Potentiometric transducer displacement measurement is explained section wise in detail in the manual.</p> <p>1. Power supply : 230V Ac, 50 Hz.</p> <p>2. Transducer : Resistive.</p> <p>3. Range : 0 to 270 degree.</p> <p>4. Moving action : Angular movement by rotating shaft of Potentiometric</p> <p>5. Excitation Voltage : 5 V DC.</p> <p>6. Maximum capacity : 110% of rated capacity.</p> <p>7. Output Display : 3 and ½ digits Digital Panel meter</p>							

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	<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>							
78	<p><b>DISPLACEMENT MEASUREMENT TRAINER USING LVDT</b></p> <p>Range <math>\pm 50</math> mm or Total 100mm</p> <p>Sensitivity : 25mV/mm (typical)</p> <p>Operating Frequency : 5KHz <math>\pm 5\%</math></p> <ul style="list-style-type: none"> <li>- Displacement Measurement on a mm Scale with fine motion control</li> <li>- Carrier Source (Internal) : 5KHz <math>\pm 5\%</math>, 1.5V (Nominal)</li> <li>- Built in 3½ digit DVM for output reading</li> <li>- Transparent casing for proper viewing</li> </ul>	0	0	0	0	3	3	

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	<ul style="list-style-type: none"> <li>- IC based balanced demodulator circuit and power supply</li> <li>- Complete experimental set-up for measurement of displacement</li> </ul> <p><b>220V ± 10%, 50Hz, Mains Operated</b>  <b>Make Osaw, KEW, AE, NOVA, Mars, Scientec, Ansuman, HEM, Secom, HTC, Metravi or Equivalent Make</b></p>							
79	<p><b>Measurement of angular measurement using Capacitive transducer</b></p> <ol style="list-style-type: none"> <li>1. Input : Gang with a dial mounted on its shaft</li> <li>2. Transducer : Capacitance Angular sensor</li> <li>3. Displacement Range : 0 to 90°</li> <li>4 . Excitation : 2V, 5Khz (approx.) sine wave</li> <li>5. Display : 3-1/2 digit Red Seven Segment Display</li> <li>6. Transducer balance : R &amp; C balance</li> <li>7. CAL ADJ. : Through single turn potentiometer</li> <li>8. Power source : 230V +10%, 50Hz</li> <li>9. All parts are soldered on single PCB of size 15''x12'' with complete circuit diagram screen- printed.</li> <li>10. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</li> </ol>	0	0	0	0	3	3	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>11. The true value of component is printed on component side.</p> <p>12. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>13. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
80	<p>Measurement of Temperature using Thermo Couple</p> <p>1. Power supply : 230V Ac, 50 Hz. Built in power supply</p> <p>2. Transducer : Thermocouple sensor with digital panel meter</p> <p>3. Transducer Type : Immersion Type Iron-Constantan probe in sheath with</p> <p>4. Transducer Range : 0° to 100°C.</p> <p>5. Comparison : by Mercury Thermometer</p> <p>6. Mercury thermometer and heater : 10 Watts</p> <p>7. Output : for Monitoring at all stages</p> <p>7. Output Display : 3 and ½ digits Digital Panel meter calibrated in °C.</p> <p>8. Test Points provided to measure voltages and observe waveforms</p>	0	0	0	0	3	3	



S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>at different point.</p> <p>9. All parts are soldered on TAGS on SINGLE PCB with complete circuit diagram SCREEN PRINTED.</p> <p>10. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>11. The true value of component is printed on component side.</p> <p>12. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>13. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
81	<p>Measurement of Temperature using Thermistor</p> <p>1. Power supply : 230V Ac, 50 Hz.</p> <p>2. Transducer : Thermistor sensor Probe- NTC-type.</p> <p>3. Transducer Range : 0 to 100° C.</p> <p>4. Measurement Range : 0 to 70° C.</p> <p>5. Output Display : 3 and ½ digits Digital Panel meter calibrated in °C.</p> <p>6. All parts are soldered on TAGS on SINGLE PCB of size 12"x9" with complete circuit diagram SCREEN PRINTED.</p>	0	0	0	0	3	3	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>7. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>8. The true value of component is printed on component side.</p> <p>9. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>10. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
82	<p>Measurement of Temperature using RTD</p> <p>1. Power Supply : Built in power supply</p> <p>1. Temperature Source : Electric Kettle.</p> <p>2. Source Measurement : Glass bead mercury thermometer.</p> <p>3. Transducer : RTD with digital panel meter</p> <p>4. Measurement Range : 0 to 100°C.</p> <p>5. Comparison : by Mercury Thermometer</p> <p>6. Heating process : 10W Heater</p> <p>7. output available for control &amp; monitoring,</p> <p>8. Test pins for monitoring at all stages</p> <p>9. Excitation Voltage : DC voltage provided.</p> <p>10. Output Display : 3 and ½ digits Digital Panel meter</p>	0	0	0	0	3	3	

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>calibrated in °C.</p> <p>11. All parts are soldered on SINGLE PCB of size 12"x9" with complete circuit diagram SCREEN PRINTED.</p> <p>12. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</p> <p>13. The true value of component is printed on component side.</p> <p>14. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>15. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							
83	<p><b>STRAIN GAUGE</b></p> <p>1. Power supply : 230V Ac, 50 Hz. Built in Power supply.</p> <p>2. Transducer : Strain gauge with load cell.</p> <p>3. Transducer type : Cu-Ni alloy with special grade polyamide film backing material.</p> <p>4. Transducer compensation : Temperature compensated.</p> <p>5. Strain gauge Resistance : 360 + 10 ohms.</p>	0	0	0	0	5	5	

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	<p>6. Strain gauge Dimension : 6 mm length x 2.4 mm width with base 12.5mm x 4.3 mm and gauge factor 2.1 approx.</p> <p>7. Range : 10 Kgs.</p> <p>8. Circuit configuration : Fully active full bridge.</p> <p>9. Excitation : D.C. supply provided.</p> <p>10. Strain Input : Different loads.</p> <p>11. Maximum capacity : 120% of rated capacity.</p> <p>12. Display : 3 and ½ digits multimeter calibrated in Kg.</p> <p>13. All parts are soldered on TAGS on SINGLE PCB with complete circuit diagram Screen printed.</p> <p>14. Standard Accessories : 1. A Manual having practicals. 2. Patch Cords.</p> <p>15. The true value of component is printed on component side.</p> <p>16. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</p> <p>17. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</p>							

S.No	Item Name & Technical Specification	Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
84	<p><b>Measurement of speed using magnetic transducer</b></p> <ol style="list-style-type: none"> <li>1. Power supply : 230V Ac, 50 Hz.</li> <li>2. Transducer Type : Magnetic pickup.</li> <li>3. Motor : 12V DC motor with 3000 RMP speed</li> <li>4. Arrangement : Motor mounted with wheel and magnetic pickup</li> <li>5. Motor Speed controller : provided to change the speed of motor.</li> <li>6. Measurement Range : 10000 RPM Max.</li> <li>7. Output Display : 4 digits Digital frequency Counter calibrated in R.P.M.</li> <li>8. All parts are soldered on single PCB of size 12"x 9" with complete circuit diagram Screen Printed.</li> <li>9. Standard Accessories : 1. A Manual having practical 2. Patch Cords.</li> <li>10. The true value of component is printed on component side.</li> <li>11. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement</li> <li>12. The acrylic cover is fitted on PCB to safeguard parts. It has holes for alignment and repair.</li> </ol>	0	0	0	0	3	3	

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85	<p><b>30MHZ DUAL TRACE ANALOG OSCILLOSCOPE shall have following features;</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>30MHz Dual Channel</b></li> <li><input type="checkbox"/> <b>High Sensitivity 1Mv/DIV</b></li> <li><input type="checkbox"/> <b>5mV/div Sensitivity on Both Channels</b></li> <li><input type="checkbox"/> <b>CH1 &amp; CH2 Independent Channels</b></li> <li><input type="checkbox"/> <b>CH1 Signal Output</b></li> <li><input type="checkbox"/> <b>Two waveforms in different frequency can be observed via alternative</b></li> <li><input type="checkbox"/> <b>trigger function</b></li> <li><input type="checkbox"/> <b>High-speed sweep</b></li> <li><input type="checkbox"/> <b>Algebraic Addition and Subtraction</b></li> <li><input type="checkbox"/> <b>X-Y Operation</b></li> <li><input type="checkbox"/> <b>0.2µs/div to 0.5s/div Time Base(Uncal. upto 20ns)</b></li> <li><input type="checkbox"/> <b>Z Modulation TTL Level</b></li> <li><input type="checkbox"/> <b>8 x 10 cm Display</b></li> </ul>	0	0	0	0	3	3	

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	<input type="checkbox"/> TV signal synchronous function, TV Triggering Frame (V) & Line (H) <input type="checkbox"/> Line Trigger <input type="checkbox"/> ALT Triggering The technical specification shall include ; Sensitivity CH1: 5mV/DIV. ~20V/DIV ±3%, CH2: 5mV/DIV. ~20V/DIV ±3% Trimming Ratio 2.5:1 Rise Time 11.8ns Bandwidth(-3dB) DC:0~30MHz AC:10Hz~30MHz Input Impedance 1MW ±3%,30 pF ±5pF Max. Input Voltage 400V pk Trigger Sensitivity Int 1 div., Ext 0.3V Ext. Trigger Input Impedance 1MW 30pF Ext. Trigger Max. Input Voltage 400Vpk Trigger Sources Int, Line, Ext Trigger Mode Norm, AUTO, TV Sweep Time 0.5s / DIV ~0.2ms / DIV ±3% Trimming Ratio 2.5:1							

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	<b>Sensitivity 0.2V/DIV~0.5V/DIV</b> <b>Bandwidth(-3dB) DC: 0~1MHz AC: 10Hz~1MHz</b> <b>Waveform Symmetric Square Wave Range 0.2V p-p±2%,</b> <b>Frequency1kHz ±2%</b> <b>Display Area 8 x 10 DIV 1DIV=10mm</b> <b>Accelerating Voltage 2000V</b> <b>Display Color Green</b> <b>Voltage Range 220V-240V 110V-127V</b> <b>Frequency 60Hz ±2Hz 50Hz ±2Hz</b> <b>Power Consumption 30W</b> <b>Weight 6.5kg</b> <b>Dimensions (H x W x D) 190 x 130 x270mm</b>							
86	<b>Function Generator</b> <b>3Mhz, 100Msa/s DDS Function generator with USB interface shall have following specifications;</b> <ul style="list-style-type: none"> <li>• <b>Direct Digital Synthesis [DDS] technology.</b></li> <li>• <b>VFD florescent display Interface.</b></li> </ul>	0	0	0	0	3	3	



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	<ul style="list-style-type: none"> <li>• Fully key operation, continuously adjust with adjusting knob.</li> <li>• With password protected calibration.</li> <li>• USB Interface.</li> <li>• Software to control the function generator remotely.</li> <li>• Output characteristics - Waveform characteristics</li> <li>• Waveform types: 16 kinds of waveforms including sine, square, ramp, exponent, logarithm, noise &amp; so on.</li> <li>• Waveform length: 1024 points</li> <li>• Sampling rate: 100 MSa/s</li> <li>• Waveform amplitude resolution: 8 bits</li> <li>• Sinewave harmonic distortion: (1Vpp)</li> <li>• <math>\leq -40\text{dBc}</math> (<math>&lt; 1\text{MHz}</math>) <math>\leq -35\text{dBc}</math> (<math>\geq 1\text{MHz}</math>)</li> <li>• Sinewave total distortion: (20Hz to 20kHz, 20Vpp) <math>\leq 1\%</math></li> <li>• Rising/Falling edge time of square: <math>\leq 35\text{ns}</math> Overshoot: <math>\leq 10\%</math></li> <li>• Duty cycle of square: 1% to 99%</li> <li>• Ramp wave symmetry: 0% to 100%</li> <li>• Frequency characteristics Frequency range: Sinewave: 40mHz to 3MHz Others: 40mHz to 1MHz</li> </ul>							

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	<ul style="list-style-type: none"> <li>• <b>Frequency resolution: 40mHz</b></li> <li>• <b>Frequency accuracy: <math>\pm(2 \times 10^{-5} + 40\text{mHz})</math></b></li> <li>• <b>Amplitude characteristics (Auto-attenuation, offset 0Vdc)</b></li> <li>• <b>Amplitude range: frequency <math>\leq 8\text{MHz}</math> : <math>0 \sim 10\text{Vpp}(50\Omega\text{load})</math> <math>0 \sim 20\text{Vpp}(\text{open-circuit load})</math></b></li> <li>• <b>frequency <math>&gt; 8\text{MHz}</math> : <math>0 \sim 9\text{Vpp}(50\Omega\text{load})</math> <math>0 \sim 18\text{Vpp}(\text{open-circuit load})</math></b></li> <li>• <b>Amplitude resolution: <math>20\text{mVpp}(\text{Amplitude} &gt; 2\text{Vpp});</math> <math>2\text{mVpp}(\text{Amplitude} \leq 2\text{Vpp})</math></b></li> <li>• <b>Amplitude accuracy(<math>1\text{kHz}, &gt; 5\text{mVrms}</math>): <math>\pm(1\%</math> of setting + <math>2\text{mVrms}</math>)</b></li> <li>• <b>Amplitude flatness(Sinewave, compared to <math>1\text{MHz}, 5\text{Vpp}</math>): <math>\pm 10\%</math></b></li> <li>• <b>Output impedance: <math>50\Omega</math></b></li> <li>• <b>Offset characteristics (0 dB attenuation, <math>0\text{Vpp}</math> amplitude) Offset range: <math>\pm 5\text{Vdc}(50\Omega\text{load})</math> <math>\pm 10\text{Vdc}(\text{open-circuit load})</math> , Resolution: <math>30\text{mVdc}</math></b></li> <li>• <b>Offset accuracy: <math>\pm(1\%</math> of setting value + <math>30\text{mVdc}</math>)</b></li> <li>• <b>Frequency sweeping characteristics : Sweeping range: Start &amp;</b></li> </ul>							

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	<p>end frequency can be set arbitrarily.</p> <ul style="list-style-type: none"> <li>• Sweeping time: 50ms to 500s Sweeping mode: linearity, logarithm</li> <li>• Sync output characteristics : Waveform characteristics: Square, edge time<math>\leq 20\text{nS}</math></li> <li>• Amplitude characteristics: TTL, CMOS compatible, low level <math>&lt; 0.3\text{V}</math>, high level <math>&gt; 4\text{V}</math></li> <li>• Programmable interface : USB device interface, with operation guide that is provided in the CD.</li> <li>• Power condition Voltage: AC 100 to 240V, Frequency: 45 to 65Hz, Power consumption: <math>\leq 20\text{VA}</math></li> <li>• Environment conditions Temperature: 0 to 40°C, Humidity: <math>\leq 80\%</math></li> <li>• Operation characteristics Fully key operation, continuously adjust with adjusting knob.</li> <li>• Display VFD fluorescence display screen</li> <li>• Dimension 297 mm<math>\times</math>212 mm<math>\times</math>102 mm Weight: 2 kg</li> <li>• Surface-mount technology, large scale integrated circuit, high reliability, long service life.</li> </ul>							

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	<ul style="list-style-type: none"> <li>• <b>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 :</b></li> <li>• <b>Function : Containing tone, functions, sine, square, ramp, arbitrary, Num., Symmetry, Duty Cycle,</b></li> <li>• <b>Sweep : Containing Start, stop, time, mode, lin., log., parameter.</b></li> <li>• <b>Port : Containing output ON / OFF.</b></li> <li>• <b>Command : commands can be given to function generator for remote operation.</b></li> <li>• <b>Receive : for display the function generator command status.</b></li> <li>• <b>Value : different value can be set for the device, remotely.</b></li> </ul> <p><b>Unit : different units like Mhz, Vrms, Vdc, degree, mVrm, mvdc etc can be set, remotely.</b></p>							
87	<p><b>Analog Multimeter Big size</b>  <b>Analog Multimeter</b>  <b>Features</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Multi-color analog display with mirrored scale</b></li> <li><input type="checkbox"/> <b>High-impact thermoplastic case</b></li> </ul>	0	0	0	0	5	5	

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	<input type="checkbox"/> <b>Low cost, multi-function</b> <input type="checkbox"/> <b>Audible continuity</b> <input type="checkbox"/> <b>Battery test</b> <input type="checkbox"/> <b>Built-in stand</b> <input type="checkbox"/> <b>Low-cost analog</b> <input type="checkbox"/> <b>High-impact thermoplastic case</b> <input type="checkbox"/> <b>Decibel measurement</b> <input type="checkbox"/> <b>CAT II 600V</b> <input type="checkbox"/> <b>2-year warranty</b> <table border="1" data-bbox="281 922 1066 1331"> <thead> <tr> <th></th> <th>Range &amp; Resolution</th> <th>Accuracy</th> </tr> </thead> <tbody> <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 rowspan="2">Resistance</td> <td>1 M Ω Full Scale</td> <td rowspan="2">±3.0% Arc Length</td> </tr> <tr> <td>5 k Ω Mid Scale</td> </tr> </tbody> </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	±3.0% Arc Length	5 k Ω Mid Scale							
	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	±3.0% Arc Length																						
	5 k Ω Mid Scale																							

S.No	Item Name & Technical Specification			Alwar	Jodhpur	Bharatpur	Bikaner	Swai madhopur	Total Qty.	(*) Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Battery Test	-	-							

**Terms & Condition :-**

1. F. O. R. Principal, Government Polytechnic College, Alwar/Bharatpur/Bikane/Jodhpur.
2. Delivery Period 50 days