

निविदा सम्बन्धी दस्तावेज निम्नानुसार अपलोड करावें।

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25	Technical Specification Annexure -H (original downloaded & (original uploaded otherwise bid should not be considered.)	
26	Annual Turnover Certificate from Chartered Accountant (Letter Head with seal, e-mail address, Mobile Number, Firm full address)	
27	Literature/Leaflets/Catalogue	
28	Authorization Certificate	

Signature of bidder with seal

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

निम्नांकित बिन्दुओं की पालना अवश्य ही करें :-

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

I/we have carefully read and understood above instruction

Signature of bidder with seal



Signature of bidder with seal

BID DOCUMENT FORM

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

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

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



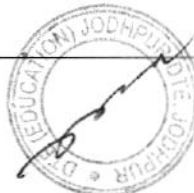
GOVERNMENT OF RAJASTHAN
DIRECTORATE OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR

Instruction to Bidders for Online Bidding (e-Tendering)

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

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

Signature of bidder with seal



The following documents must be attached with

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

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

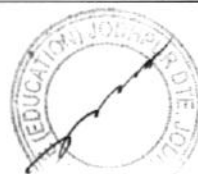
Signature of bidder with seal

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

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

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

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



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


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

I/we have carefully read and understood above instruction

Signature of bidder with seal

GENERAL CONDITIONS OF TENDER

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

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

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



Signature of tenderer with seal

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

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

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

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

It should contain details of price quoted in BOQ.

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

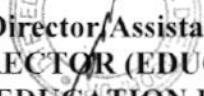
09. The tenderers shall quote F.O.R. destination prices only. indicating the Freight inclusive of unloading and stacking and Insurance charges in Financial/Price Bid/BOQ. They will also indicate the prevailing rates of G.S.T (exclusive) in the quoted prices. If the Financial/Price Bid/BOQ is not filled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



Signature of tenderer with seal

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

Enclosed : As Above


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

Signature of tenderer with seal

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

"CONDITIONS OF TENDER AND CONTRACT FOR OPEN TENDER"

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

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

Signature of bidder with seal



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

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

Signature of bidder with seal



in that behalf under this or otherwise.

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



Signature of tenderer with seal

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

27.1. **DELIVERY PERIOD**

The Tenderer whose tender is accepted shall arrange supplies within a period as mentioned below from the date of supply order-

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

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



Signature of tenderer with seal

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

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

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

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

As per circular No.F6(5)Finance/GF&AR/2008 date 24.07.2020 of Finance Department, Jaipur Rajasthan make arrangement of Bid Fee, RISL fee in single challan method on e-GRAS portal.

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



Signature of tenderer with seal

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

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

AGREEMENT AND SECURITY DEPOSIT (Performance Security) :-

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



Signature of tenderer with seal

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

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

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

- a. When any Terms and conditions of the contract is breached.
- b. When the Tenderers fails to make complete supply satisfactorily.
- c. Notice of reasonable time will be given in case of forfeiture of security deposit. The decision of the purchase officer in this regard shall be final.
- 30.4 The expenses of completing and stamping the agreement shall be paid by the tenderer and the department shall be : furnished free of charge with one executed stamped counter part of the agreement.

31. i. All goods must be sent freight paid through rail or goods transport. If goods are not sent freight to pay, the freight together with Departmental charge 5% of the freight will be recovered form the suppliers bills.
- ii. R.R. should be sent under registered cover through bank only.

32. INSURANCE

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



Signature of tenderer with seal

33. PAYMENTS :

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

35. RECOVERIES :

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

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

Signature of tenderer with seal



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



DIRECTOR (EDUCATION)
TECHNICAL EDUCATION RAJASTHAN
JODHPUR

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

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

SIGNATURE OF THE TENDERER
With seal and designation

COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF INTEREST

Any person participating in a procurement process shall –

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

CONFLICT OF INTEREST :

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

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

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

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

Signature of tenderer with seal



DECLARATION BY THE BIDDER REGARDING QUALIFICATIONS

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

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

Date :

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/ Authorized Dealer/ Dealers/ Sole Selling/
Marketing Agent in the Good/Stores/Equipments/Furniture's for which I/We have Tendered.
(STRIKE OFF WHICHEVER IS NOT APPLICABLE)

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



SIGNATURE OF THE TENDERER
With seal and designation

"G.S.T. DECLARATION"

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

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



SIGNATURE OF THE TENDERER
With seal and designation

PRICE CHARGING CERTIFICATE

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

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



FORMAT OF AFFIDAVIT

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

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

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

Place :

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

(ATTESTED BY FIRST CLASS MAGISTRATE OR NOTARY PUBLIC)



Signature of bidder with seal

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

From: M/s.

To,

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

Sub:- RTGS / NEFT Payments.

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

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



Signature of Bidder
with Stamp & Address

FORMAT OF AFFIDAVIT

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

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

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

Place :

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



ANNEXURE-L

Authorisation certificate to be submitted by Principal manufacturer

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

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

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

**Signature of Principal Manufacturer
with rubber stamp**



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

To,
{Tendering Authority}

.....

.....

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

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

Yours faithfully

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

(Authorized Signatory)

Name, Designation & Contact No.

Address: -----with seal



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

To,

Directorate of Technical Education

Jodhpur

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

Reference No.:

Sir,

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

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

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

Yours faithfully

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



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

ANNEXURE – M : PROPOSAL FORMAT FOR ORGANIZATION

Selection A: Organization Profile

i. Name of the Organization :

.....

ii. Registered Address :

.....

(Necessary fill Tel., Fax.,

.....

Email, Website, etc.

.....

iii. Legal Status

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

iv. Bank Details:

Bank Name	Account No.	Date of Opening Account

v. Details of the contract person

Name :

Designation :

Contact No. :

E-mail :

vi. Members Associated with the Organization

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

Selection B: Operational Background

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



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

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

Name of Staff	Position	Qualification	Working since

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

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

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

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

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

Thanking you.

Name of the Bidder:-

Authorized Signatory:-

Seal of the Organization:-

Date:

Place:



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

To,
{Tendering Authority},

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

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

Thanking you,

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



Signature of bidder with seal

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

To,
{Tendering Authority},

CERTIFICATE

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

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

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

Thanking You,

Name of the Bidder: -

Authorized Signatory: -

Seal of the Organization: -

with contract person Telephone Number, Mobile Number,
Email Address

Date:-

Place:-



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

To,
{Tendering Authority},
_____.

Reference:

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

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

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

Authorized Signatory:-

Name:

Designation:

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



Signature of bidder with seal

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

To,

Director (Education),

Directorate of Technical Education Rajasthan,

Jodhpur- 342011

Reference: -

Dear sir,

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

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

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

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

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

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

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

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

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

Date:

Authorized Signatory

Name:

Designation:



ANNEXURE "R"

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

Date:

Bid No. :

Alternative No. :

To :

We, the undersigned declare that :

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

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

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

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

We understand this Bid Securing Declaration shall expire if:-

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

Signed :-----

Name :-----

In the capacity of :-----

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

Dated on day of

Corporate Seal -----

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





Annexure "H"
e-Tender No. 03 Part 01 (2020-2021) MECHANICAL BRANCH & OTHER RELATED LAB ITEM

TECHNICAL SPECIFICATION

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

S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
1	Computerised VCR four stroke Multi fuel water cooled Engine Test Rig 5 h.p. Multi fuel four stroke Variable Compression Ratio Engine with computer controlled including data acquisition system, pressure pickups, charge amplifier and pc system and can analyze all performance and combustion parameter	1	0	0	0	0	0	1	


S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
2	Computerised Single Cylinder Four Stroke Diesel Engine Test Rig 5 hp Four Stroke Diesel Engine with Computer Controlled Including Data Acquisition System, Pressure Pick Ups, Charge Amplifier and Pc System	1	0	0	0	0	0	1	
3	Demo Board Of MPFI System	1	0	0	0	0	0	1	
4	EXHAUST GAS ANALYZER (FIVE GAS) having capablity of measuring exhaust gases CO ₂ , CO, HC, O ₂ , and Nox , With RS 232 Cable Interface	1	0	0	0	0	0	1	
5	Anemometer Digital (BATTERY OPERATED) To measure air velocity , Battery operated	2	0	0	0	0	0	2	
6	Smoke meter With inbuilt calibration check, with LED Remote Control , With RPM and Oil Temperature facility. Measurement Range 0 to 10 FSN, Detection Limit 0.002 FSN or 0.02 Mg/m ³ , Resolution 0.001 FSN or 0.01 Mg/m ³	1	0	0	0	0	0	1	
7	Equipment for heat transfer through composite wall Slab Material and Slab Size Cast Iron- 250 mm dia. & 20mm thick. Bakelite- 250 mm dia. & 15 mm thick Press Wood -250 mm dia. & 12 mm thick Heater -Nichrome wire	1	0	0	0	0	0	1	


S.No.	 Item with Full Specifications	Bikar	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Control panel Details PID Controller- 0-199.9° C Digital Temp. Indicator- 0-199.9° C, with multi-channel switch Temperature Sensors -RTD PT-100 type- 8Nos Energymeter- Digital type for power measurement								
8	Equipment for heat transfer in natural convection Test Section Diameter- 38 mm (approx) Length -500 mm (approx) Heater- Nichrome Wire Control panel Details PID Controller- 0-199.9° C Digital Temp. Indicator- 0-199.9°C, with multi-channel switch Temperature Sensors - RTD PT-100 type-8Nos Energymeter- Digital type for power measurement With standard make On/Off switch, Mains Indicator etc.	1	0	0	0	0	0	1	
9	Emmisivity measuring apparatus Test plate Diameter -160 mm (approx.) Black Plate Dia. -160 mm (approx.) Heater (2Nos.) -Nichrome Wire Heater Control panel Details Digital Voltmeter- 0-300 Volt Digital Ammeter- 0-2 Amps DPDT Selector switches- For Digital Voltmeter & Digital Ammeter	1	0	0	0	0	0	1	


S.No.	Item with Full Specifications	Bikar	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Variac- 0-230 V, 2 Amp, (2 Nos.) Digital Temp. Indicator - 0-199.9°C, with multi-channel Switch Temperature Sensors RTD PT-100 type-3Nos With standard make On/Off switch, Mains Indicator etc.								
10	Cut Off Machine Size 350mm approx, Bar Dia upto 65mm , Pipe Dia upto 130mm ,	2	0	0	0	0	0	2	
11	Buffing Machine Minimum spindle dia.=19 mm, mop size 2X150-200 mm dia. , motor 240v/1/50 minimum 0.75 kw, speed approximately=2800 RPM	1	0	0	0	0	0	1	
12	Lapping Machine Aluminium disc well dynamically balanced dia. Around 200 mm, 1 hp ac motor, and transmission by belt drive, and digital LED display of speed 100 to 1400 rpm, facility to provide for continuously variable through potentiometric knob, along with standard accessories	1	0	0	0	0	0	1	
13	CNC Lathe Machine Drive: Servo Motor 2 HP with VFD, Spindle speed 150 to 3000 RPM, Chuck Size 125 MM , Axes travel X Axis: 120 mm, Z axis: 280 mm.	1	0	0	0	0	0	1	
14	RAC Lab Air Conditioning Test Rig 1.5 tonnes refrigeration capacity, PC interface through RS232 port	1	0	0	0	0	0	1	


S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
15	Vapour Compressor Computer Control Test Rig 1.5 tonnes refrigeration capacity, PC interface through RS232 port,	1	0	0	0	0	0	1	
16	Refrigeration Charging Kit Compact	1	0	0	0	0	0	1	
17	Copper tube cutter Diameter upto 35 mm	2	0	0	0	0	0	2	
18	Universal Flaring Tool Diameter upto 35 mm	2	0	0	0	0	0	2	
19	Sling Psychrometers Temp Range 0-50 deg C	2	0	0	0	0	0	2	
20	Digital psychrometer Temp Range (-20 to 50 deg C)	2	0	0	0	0	0	2	
21	Digital Refrigeration leak detector Should detect all refrigerant gases, Like R-22, R-134, R-134A etc.	1	0	0	0	0	0	1	
22	Ice Plant Trainer capacity 0.5 Ton With all components	1	0	0	0	0	0	1	
23	Models and Cut Section Of Following Equipment ii) Harmetically sealed compressor (Rotary) Actual Cut Section Models		0	0	0	0	0		

S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
		1						1	
24	Models and Cut Section Of Following Equipment ii) Vane Type rotary Compressor Models	1	0	0	0	0	0	1	
25	Models and Cut Section Of Following Equipment ii) Blade Type rotary Compressor Models	1	0	0	0	0	0	1	
26	Models and Cut Section Of Following Equipment ii) Centrifugal Rotary Compressor Actual Cut Section Models	1	0	0	0	0	0	1	
27	Models and Cut Section Of Following Equipment ii) Harmentically sealed compressor (Reciprocating) Models	1	0	0	0	0	0	1	
28	Models and Cut Section Of Following Equipment ii) Automatic Expansion Valve Models	1	0	0	0	0	0	1	
29	Models and Cut Section Of Following Equipment ii) Thermostatic Expansion Valve Models	1	0	0	0	0	0	1	
30	Models and Cut Section Of Following Equipment ii) Solenoid Valve Models	1	0	0	0	0	0	1	
31	Models and Cut Section Of Following Equipment ii) Forced Draught Cooling Tower Models	1	0	0	0	0	0	1	


S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
32	Models and Cut Section Of Following Equipment ii) Induced Draught Cooling Tower Models	1	0	0	0	0	0	1	
33	WORK SHOP DOUBLE OPEN ENDED JAW SPANNER SET NO 6 TO 32	1	0	0	0	0	0	1	
34	BI HEXAGONAL RING SPANNER SET NO 6 TO 32	1	0	0	0	0	0	1	
35	SOCKET WRENCH SET WITH HANDLE T HANDLE EXT BARS AND UNIVERSAL JOINT 19 PC SOCKET 11-32 MM	1	0	0	0	0	0	1	
36	SCREW DRIVER KIT SPRING STEEL BLADE WITH MAGNETIC TIP WITH NEON BULB TESTER SET OF 8 PCS	1	0	0	0	0	0	1	
37	ARGON CYLINDER -7 CUBIC METER CAPACITY WITH GAS	1	0	0	0	0	0	1	
38	CO2 CYLINDER 30 KG CAPACITY WITH GAS	1	0	0	0	0	0	1	
39	VACCUM CLEANER WET AND DRY APPLICATION 1200 WATT, 25.5KPA DUST VOL- DRY 25L ,WET 22L , 3.5 CU METER PER MIN	1	0	0	0	0	0	1	
40	COMPLETE SET OF TAPS AND ROUND DIES IN METAL BOXES 6, 8, 10, 12, 14, 16, 18, MM	1	0	0	0	0	0	1	
41	PIPE VICE 0.5 INCH TO 2 INCH .5,.75,1,1.25,1.5,1.75,2.0	2	0	0	0	0	0	2	


S.No.	 Item with Full Specifications	Bikar	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
42	RECIPROCATING PUMP PR 100 LBS DISCHARGE 325 GLN/HR RPM 275 MOTOR 1 HP MOTOR RPM 440	1	0	0	0	0	0	1	
43	EXHAUST FAN 18" BLADE DIA .0.5 KW 900 RPM Drilling Machine Tool Kit Having Drill Sizes upto 18 MM	5	0	0	0	0	0	5	
44	Drill Machine Accomodate Drill Size Upto 18 MM	1	0	0	0	0	0	1	
45	Hammer Drill Concrete 50 MM	1	0	0	0	0	0	1	
46	HYDRAULIC BENCH Specifications • Hydraulic Bench of suitable size consisting of measuring tank and sump tank fitted with: • Pump set: self priming 1 HP, 1"dia pipe and flow control valves • Throats, venturimeter, orifice, Bernoulli tube all made of heavy duty transparent acrylic sheet • All the tanks & Table should be made of 18swg SS sheet • All parts should be coated with non-corrosive protection • Operation/Instruction manual Equipment should consist of various apparatus to perform following experiments:	0	0	1	0	0	0	1	

S.No.	 Item with Full Specifications	Bikar	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> • Bernoulli's theorem verification • Flow measurement by orifice meter and Venturimeter 								
47	Multi cylinder four stroke petrol new engine test rig with battery and Self starter <ol style="list-style-type: none"> 1) Make – Maruti Suzuki or equivalent 2) Engine type- new 4 stroke engine 3) Rated power – 7 Hp or More 4) No of cylinder- 03 no of cylinder 5) Rated speed 1500 rpm 6) Loading arrangement- hydraulic dynamometer or AC alternator with loading Rheostat or Electric Bulb Loading arrangement Measurements- <ol style="list-style-type: none"> 1) Fuel tank/ burette/3 way cock 2) Air tank/orifice plate/manometer 3) Temperature: Engine jacket cooling inlet / engine jacket cooling outlet Exhaust gas outlet and ambient Instrumentation- <ol style="list-style-type: none"> 1) Multipoint digital Temperature indicator for exhaust gases and water temperature with thermocouples 2) Cooling water engine jacket 3) Digital rpm indicator 4) Exhaust gas calorimeter 5) Gauge for oil pressure and calorimeter 	0	0	0	1	0	0	1	


S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Experimental Capabilities- BHP/IHP/SFC/BRAKE THERMAL EFFICIENCY/VOLUMETRIC EFFICIENCY/HEAT BALANCE SHEET / MECHANICAL EFFICIENCY/ NOTE- The equipment will be self contained in all respect including vibromounts/stop watch and lab manual etc.								
48	Cut-section working model of Synchronous mesh gear box 1) Gear box has 05 no of gears including reverse gear 2) Gear box must be driven by some electric motor having 0 to 100 rpm speed with speed controller Gear box must have synchronizers rings with dog-clutch and also has grease lubrication only	0	0	0	1	0	0	1	
49	Dial bore gauge : Size 50-160mm Least count 0.01 mm	0	0	0	2	0	0	2	
50	Dial Type Vernier Calliper : Range 0-150mm Least count 0.02mm	0	0	0	5	0	0	5	
51	CNC Machine (With Attachments) Main specifications: -Table size Max. job weight Axes travel ranges Longitudinal (table) Cross (saddle) Vertical (spindle)								
	mm Kg mm mm mm	0	0	0	0	1	0	1	
	420 X 125 20 200 125 200								


S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>Distance from spindle nose to table top mm 25-225</p> <p>Throat, spindle centerline to column mm 155</p> <p>Spindle:</p> <p>Spindle nose ISO 30</p> <p>Spindle motor kw 0.75</p> <p>Speed range (Infinitely variable) rpm 200-2000</p> <p>Type of drive AC servo motor</p> <p>Feed rates:</p> <p>Rapid traverse rate mm/min. 700</p> <p>Feed rate mm/min. 2-550</p> <p>Tools:</p> <p>Tool change Manual with CNC prompting</p> <p>No. of tools Nos. 8</p> <p>CNC System :</p> <p>Type SIEMENS 802C</p> <p>No. of axes 3</p> <p>Axes drives AC servo motor</p> <p>Resolution mm 0.001</p>								


S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Rapid traverse rate mm/min. 700 Manual Jogging One axes at a time in both direction Feed rate (incremental) mm 0.01,0.1								
52	Sheet Metal Cutting and Bending Machine CUTTING CAP. IN MS length x thickness 2540 x 2 mm DEPTH OF THROAT (MM) 62 mm STROKES PER MINUTE 50 mm TABLE HEIGHT M (M) 800 mm MAIN MOTOR 3 OVER ALL DIMENSIONS (APP.) LENGTH 3500 mm BREADTH 1700 mm HEIGHT 1400 mm	0	0	0	0	1	0	1	
53	Drilling M/c DRILL HEAD Drilling Capacity (in Steel / Cast Iron) 40/50 Drilling Depth 180 Taper Spindle Nose Socket MT-4	0	0	0	0	1	0	1	


S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No. variation" / as per Specification & write Make & Model
	No. of Spindle Speeds & Range (RPM) 6(55-665) No. of Spindle Feeds & Range (mm/rev.) 3(0.1 to 0.2) Drill Power 1.5 Kw. CAPACITY Drilling Radius : Maximum (A) 1050 Minimum (B) 375 Drilling Head Transverse (C) 675 DISTANCE BASE PLATE TO SPINDLE Maximum (P) 1000 Minimum (M) 225 Diameter of Column Sleeve (D) 255 WORKING SURFACE OF BASE PLATE Length x Width 900 x								

S.No.	Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
54	DIMENSIONS OF BASE PLATE								
	680								
	Length x Width x Height								
	1480 x 700 x 200								
	OTHER DETAILS								
55	Arm Elevating Motor								
	0.75 Kw								
	Standard Box Table (mm)								
	400 x 350 x 350								
56	Approximate Weight of Machine								
	1700 Kgs								
	Cut Section Models of Engine , clutch, gear box, differential, breaking and cooling systems for study purpose	0	0	0	0	1	0	1	
55	Air Compressor Model cut section (1.5 ton) mounted on wooden box	0	0	0	0	1	0	1	
	(a) Reciprocating hermetically sealed								
56	(b) Rotary type								
	Refrigeration test rig: Specification: 1.5 ton capacity test rig suitable for conducting exp. On a vapor	0	0	0	0	1	0	1	

S.No.	 Item with Full Specifications	Bikar	Kota	Pali	Alwar	S. Madhopur	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	compression refrigeration unit and to determine cop complete with suitable hermetically sealed compressor, air cooled condenser, necessary measuring devices for temperature and pressure at different points and energy meter, voltage stabilizer, provision for capillary tube and thermostatic expansion valve rotameter for measurement of refrigerant flow rate.								
57	Gas charging Cylinder with regulator cap. 2kg	0	0	0	0	1	0	1	
58	Gas charging Cylinder with regulator cap. 5kg	0	0	0	0	1	0	1	
59	Bench vice 6" or 1500 mm Jaw size heavy duty double rib fixed weight 25 KG approx	0	0	0	0	25	0	25	
60	Hexa Frame 12"	0	0	0	0	25	0	25	
61	Pistol Type hand drill machine 10 mm cap. Electric single phase 300 w.	0	0	0	0	1	0	1	
62	Bench Grinder double ended medium size 8" with fine and rough wheel	0	0	0	0	1	0	1	
63	TOOLS : Inch tap steel 2 meter	0	0	0	0	20	0	20	
64	TOOLS : Steel Foot Rule with marker	0	0	0	0	20	0	20	
65	TOOLS : Try Square	0	0	0	0	20	0	20	
66	TOOLS : Ball pan Hammer 300G with handle	0	0	0	0	20	0	20	

S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model														
67	TOOLS : Tennan Saw	0	0	0	0	20	0	20															
68	TOOLS : Three Angle File	0	0	0	0	20	0	20															
69	TOOLS : Mortise chisel	0	0	0	0	20	0	20															
70	CNC TRAINER MILLING MACHINE WITH STANDARD ACCESSORIES and CONTRELLOR <table><tr><th>Description</th><th>Specification</th></tr><tr><td>X/Y/Z axis Travel</td><td>X:230 mm Y:150mm Z:120mm</td></tr><tr><td>Table size</td><td>Length 350mm Width 135 mm</td></tr><tr><td>Load on table</td><td>15 kgs</td></tr><tr><td>Spindle nose to table top</td><td>185 mm</td></tr><tr><td>Spindle to column</td><td>130 mm</td></tr><tr><td>Spindle motor</td><td>0.75 kW</td></tr></table>	Description	Specification	X/Y/Z axis Travel	X:230 mm Y:150mm Z:120mm	Table size	Length 350mm Width 135 mm	Load on table	15 kgs	Spindle nose to table top	185 mm	Spindle to column	130 mm	Spindle motor	0.75 kW	0	0	0	0	0	1	1	
Description	Specification																						
X/Y/Z axis Travel	X:230 mm Y:150mm Z:120mm																						
Table size	Length 350mm Width 135 mm																						
Load on table	15 kgs																						
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Spindle to column	130 mm																						
Spindle motor	0.75 kW																						

S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
capacity									
Programmable spindle speed	150-4000 rpm								
Control system	PC based 3 axis continuous path								
TOOLING PACKAGE, compatible to run the machine									
ACCESSORIES FOR CNC MILLING									
6 Station Automation tool Changer	PNEUMATIC/HYDRAULIC Actuation								
Work Bench									
Tooling Package compatible to run the machine									
STANDARD UTILITIES REQUIRED TO RUN THE SETUP									
Suitable Stabilizer to run the machine									
Suitable Compressor to run the machine									
Latest Suitable Computer									
MANUAL IN SOFT COPY									
To Supply one (1) sets of the following:									
User Manual									
Maintenance Manual									

S.No.	 Item with Full Specifications	Bikaker	Kota	Pali	Alwar	S. Madhopour	Sri Ganganagar	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<div data-bbox="300 464 1220 592" style="border: 1px solid black; padding: 5px;"> *Provide detailed description/specification for every item. </div>								


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
71	CARPENTRY SHOP Carpentry /Fitting/Welding Wood turning lathe: bed length 4.5", height of centres 6.5", 30" distance between centres, 1 HP motor, tru chuck, live centre turning attachment	1	0	1	1	0	1	4	
72	FITTING SHOP Tap wrenches (Handles) 1" or 25mm with tap set 6 mm, 10, 13, 20, 25 mm Size, BSW	0	2	2	2	0	0	6	
73	WELDING SHOP Bench vice 6" or 150 mm (Jaw size) heavy duty double rib, fixed base app. Wt. approx 18 Kg., ..	8	8	0	8	8	8	40	
74	Shear machine shear upto 1/4" thick sheet.	1	1	1	1	1	1	06	
75	Cut Sectional Working clutch system with pressure plates of old CAR/JEEP AUTOMOBILE LAB/I. C. Engine Lab	0	0	0	0	1	0	1	
76	Cut Sectional Working gear box with differential of old Maruti 800	0	0	0	0	1	0	1	
77	Cut sectional model of actual gear box system Sliding mesh	0	0	0	0	1	0	1	
78	Cut sectional model of actual gear box system Constant Mesh	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
79	Cut sectional model of actual gear box system Synchro Mesh	0	0	0	0	1	0	1	
80	Propeller shaft wit universal joint of old LMV	0	0	0	0	1	0	1	
81	Working differential system with live axle, back plate and drum of old Jeep / LMV (cut sectional)	0	0	0	0	1	0	1	
82	Cut Sectional Working steering system of rack and pinion types of old LMV	0	0	0	0	1	0	1	
83	Cut Sectional Working steering system Worm and Worm wheel type	0	0	0	0	1	0	1	
84	Working braking system with stub axle, back plate, drum, master cylinder, wheel cylinder of old LMV	0	0	0	0	1	0	1	
85	Cut section model of mechanical braking system	0	0	0	0	1	0	1	
86	Working ignition system of 4 cylinder engine with switch, coil, distributor and spark plugs mounted on board.	0	0	0	0	1	0	1	
87	Cut sectional working system of petrol engine Automotive vehicle driven by electric motor, showing clutch system , gear box, universal joint and propeller shaft, differential, front and rear axle, steering system, fuel supply system, lightning	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	system, braking system and wheel arrangement.								
88	Double ended spanner set 6mm to 30mm set (8 pieces)	0	0	0	0	1	0	1	
89	Ring spanner set 6mm to 30mm set (8 pieces)	0	0	0	0	1	0	1	
90	Box spanner set 6mm to 30mm set (15 pieces)	1	0	0	0	1	0	2	
91	Working model of fuel supply system of diesel engine showing fuel injector pump and fuel injector for 4 cylinder set	0	0	0	0	1	0	1	
92	Bore gauge for measuring cylinder bore <ul style="list-style-type: none"> Range: 35-60 mm Dial type having range: 10 mm and graduation: 0.01 mm With 06 anvils (35, 40, 45, 50, 55, 60 mm sizes) Gage stem diameter: 08 mm Carbide ball contact point for durability Measuring depth: 150mm To be supplied in wooden/appropriate case	1	1	0	1	1	0	4	
93	Inside vernier caliper <ul style="list-style-type: none"> Range: 0-200 mm Least count: 0.02 mm Made of stainless steel 	0	0	0	0	1	0	1	
94	Cut section model of front actual suspension system of car	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
95	Cut section model of rear actual suspension system of car	0	0	0	0	1	0	1	
96	Cut section model of front actual suspension system of truck	0	0	0	0	1	0	1	
97	Cut section model of rear actual suspension system of truck	0	0	0	0	1	0	1	
98	Cut section power steering system	0	0	0	0	1	0	1	
99	I.C. Engine Illustrative, detailed, cut section, working models driven By suitable electric motor mounted on steel frame -Two stroke Petrol engine (Approx. height 16")	0	0	0	0	1	0	1	
100	Illustrative, detailed, cut section, working models driven By suitable electric motor mounted on steel frame -Four Stroke Diesel engine (Approx. height 16")	1	0	0	0	1	0	2	
101	Illustrative, detailed, cut section, working models driven By suitable electric motor mounted on steel frame -Four stroke Petrol engine (Approx. height 16")	1	0	0	0	1	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
102	Illustrative detailed, cut section models of actual components (mounted on steel base) - Zenith carburetor	1	0	0	0	1	0	2	
103	Illustrative detailed, cut section models of actual components (mounted on steel base) - S.U. carburetor	1	0	0	0	1	0	2	
104	Illustrative detailed, cut section models of actual components (mounted on steel base) - Solex carburetor	0	0	0	0	1	0	1	
105	Multi cylinder four stroke petrol engine Test rig. Specifications:- MULTI CYLINDER FOUR STROKE PETROL ENGINE TEST RIG, With battery and self starter Specifications:; 01. Make of Engine: Maruti Suzuki OR equivalent (with company manual) 02. Type of Engine : 4 Stroke engine 03. No of Cylinder : three , 04 Rated power : 7.0 HP or more, 05. Rated Speed: 1500 RPM, 06. Loading Arrangements: Hydraulic Dynamometer OR AC Alternator with Loading Rheostat OR Electrical bulb loading arrangement. MEASUREMENTS:; a) Fuel Intake: Fuel Tank/ Burette / 3- Way Cock,	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>b) Air Intake: Air Tank / Orifice Plate / Manometer, c) Temperature: Engine Jacket Cooling inlet / Engine Jacket Cooling Outlet,, Exhaust Gas Outlet and Ambient., INSTRUMENTATION:,, , a) Temperature: Multipoint Digital Temperature Indicator for exhaust gas and water temp., , with Thermocouples, , b) Cooling Water (Engine jacket) : Rotameter, , c) Speed : Digital RPM indicator, , d) Exhaust gas calorimeter , e) gauge for oil pressure and battery condition EXPERIMENTAL CAPABILITIES:,, , BHP / SFC / Brake Thermal Efficiency, Volumetric Efficiency / Heat Balance Sheet / Mechanical, , Efficiency / IHP measurement using MORSE TEST., NOTE: The equipment will be self-contained in all respect including vibromounts/stop watch/manual etc.,</p>								
106	<p>Single cylinder diesel engine Test rig Specifications:- SINGLE CYLINDER DIESEL ENGINE TEST RIG Specifications: 01. Make of Engine: Kirloskar, Water cooled (with company manual) 02. Type of Engine : 4 Stroke / Vertical 03. No of Cylinder : one</p>	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>04 Rated power : 5.0 HP 05. Rated Speed: 1500 RPM 06. Loading Arrangements: Rope brake dynamometer (Provision for cooling the drum using water) MEASUREMENTS: a) Fuel Intake: Fuel Tank/ Burette / 3- Way Cock b) Air Intake: Air Tank / Orifice Plate / Manometer c) Temperature: Engine Jacket Cooling inlet / Engine Jacket Cooling Outlet, d) Exhaust Gas Outlet and Ambient. INSTRUMENTATION: a) Temperature: Multipoint Digital Temperature Indicator with Thermocouples b) Cooling Water (Engine jacket) : Rotameter c) Speed : Digital RPM indicator d) Exhaust gas calorimeter EXPERIMENTAL CAPABILITIES: BHP / SFC / Brake Thermal Efficiency, Volumetric Efficiency / Heat Balance Sheet / Mechanical Efficiency / IHP measurement (With Device For Drawing P-V Diagram) . NOTE: The equipment will be self-contained in all respect including vibromounts/stop watch/manual etc.</p>								
107	Air Compressor Performance Test rig. Specifications:- Air Compressor test rig.	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>Equipment should be suitable to conduct performance test and to determine volumetric and isothermal efficiency of air compressor. It should consist of -</p> <p>A. Two cylinder, two stage air compressor, with following items mounted on it -</p> <ul style="list-style-type: none"> - Swinging field dynamometer - Air receiver pressure gauge - Air box with orifice on inlet - Temperature sensors at various inlet and outlet points - Spring balance - Starter for motors <p>B. Control panel having following items fixed on it</p> <ul style="list-style-type: none"> - Six channel temperature indicator - Mains on/off switch - Pressure indicators - Tachometers - Motor protection relay - U -tube manometer <p>Specifications:</p> <ul style="list-style-type: none"> - Two cylinder, two stage air compressor, self lubricated, fan cooled, with water cooled intercooler - 5 HP , 3 Phase, 50 Hz, 415 v motor, Starter - Non contact digital 4 digit speed measurement (0-9999 rpm, 220 v) - 6 channel digital temperature indicator with selector switch 0 -200 degree c. 								


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	- Complete with pressure gauge, control and protection switches, indicator, speed measurement, temperature measurement all on control panel.								
108	Illustrative detailed cut section Working Model of Fuel Injection pump and Fuel injector of 6 cylinder TATA/ Leyland engine	1	0	0	0	1	0	2	
109	TECHOMETER DIGITAL Display 5 digits large LCD Range: 5 - 19,999 RPM Accuracy: $\pm 0.05\%$ 1 digit Memory : Last Value, Max. Value, Min. Value Range Selection: Auto Accessories: Carrying case, Cone adapter and operation manual book	0	0	0	0	2	0	2	
110	Cut section of Actual MPFI System of Four Wheeler	0	0	1	1	1	0	3	
111	Actual electrical feed pump	0	0	0	0	1	0	1	
112	Actual Mechanical feed pump	0	0	0	0	1	0	1	
113	Frost free 165 ltr.Domestic refrigerator REFRIGERATION & AIR CONDITIONING LAB/THERMAL LAB	1	1	1	1	1	0	5	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>Refrigeration test rig.</p> <p>Specifications:- Refrigeration test rig.</p> <p>1.5 ton capacity test rig suitable for conducting experiments on a vapors compression refrigeration unit and to determine its COP.</p> <p>Complete with suitable hermetically sealed compressor, air-cooled condensers, necessary measuring devices for temperature and pressure at different points and energy meter, voltage stabilizer.</p> <p>Provision for capillary tube and thermostatic expansion valve, rotameter for measurement of refrigerant flow rate.</p>	0	0	0	0	1	0	1	
114	<p>Air conditioning test rig.</p> <p>Specifications:- Air conditioning test rig</p> <p>1.5 ton capacity test rig suitable for conducting experiment on a vapor compression air conditioning unit to determine COP and to perform psychometric calculations.</p> <p>Complete with suitable hermetically sealed compressor, air-cooled condenser, necessary measuring devices for temperature and pressure at different points and energy meter, voltage stabilizer.</p> <p>With humidity measuring device, pilot tube for air velocity measurement in air duct.</p>	0	0	0	0	1	0	1	
115	<p>Vacuum pump</p> <p>Single stage vacuum pump</p> <p>Flow rates - 128 ltr. per min.</p> <p>Vacuum - 5 Pascal</p>	0	1	1	0	1	0	3	
116									



S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	Motor - 1/3 HP								
117	Models of Compressor Cut section working models of following actual compressors (1.5 ton), (mounted on wooden base) Reciprocating open type	0	0	0	0	1	0	1	
118	Models of Compressor Cut section working models of following actual compressors (1.5 ton), (mounted on wooden base) Reciprocating hermetically sealed	0	0	0	0	1	0	1	
119	Models of Compressor Cut section working models of following actual compressors (1.5 ton), (mounted on wooden base) Rotary Type	0	0	0	1	1	0	2	
120	Illustrative, detailed, cut section models of actual components (mounted on wooden base) Automatic expansion valve 1/4"	0	0	0	0	1	0	1	
121	Illustrative, detailed, cut section models of actual components (mounted on wooden base) Thermostatic expansion valve 1/4"	0	0	0	1	1	0	2	
122	Tools & accessories for refrigeration lab Tube cutter (02nos), spring bender(02nos), mechanical bender(02nos), flaring tools(02nos), swaging tool, pinch of tools, wrenches, cutting plier(02nos), nose plier(02nos), screw driver6",8",12"(2"), gold smith hack saw (02nos,) Vice(02nos), smooth files (02nos), copper tube rolls of 6mm.	0	0	0	0	2	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	9mm,12mm dia 5m length each. Blow lamp (02nos)								
123	Gas charging unit With -Gas charging cylinder -Compound gauges(2) -Hand shut off valves, -Dehydrator -Connector 4 ways -Storage gas cylinder -Ampere meter 0-10A -Volt meter 0-300 V -Switch and 3 pin plug with wiring -Mounted on sun mica coated board and installed on a two wheel trolley.	0	0	1	0	1	0	1	
124	soldering and brazing complete units	1	1	1	1	1	0	5	
125	Ice plant tutor Ice production Capacity: 25 kg in a day of 24 hrs, after attaining brine temperature of -5 deg C, ice cans will be loaded Number of ice cans: 4 nos Ice qty per can: 0.6 kg Ice production per batch: 2.4 kg Compressor: Hermetically sealed. Emerson/ Tecumseh/Danfoss	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p> Condenser: Finned copper tube Forced convection air cooled Condenser fan: Axial flow type Evaporator: coiled evaporator immersed in brine. Drier/filter: Provided, Molecular sieve type Expansion device: Capillary tube Insulation: 65 mm thick, Polyurethane foam (PUF) Primary Refrigerant: R 134a Temperature: Temperature indicator with 6 no. of selector points provided Pressure: 2 Nos. for suction and discharge Brine Thermostat: Provided Supply: 230 Volts, 50 Hz, 1 phase. Input power: 400 Watts Rated current: 3.0 Amps Stirrer Motor: Provided Energy-meter: For compressor provided Outer body: 1.2 mm thick CRCA Brine Tank: made of stainless steel Size: 860 x 600 x 1165 mm (L x D x H) </p>								
126	Cut section model of Filter Drier mounted on iron frame	1	0	1	1	1	0	4	
127	Model of compressor relay mounted on iron frame	0	0	1	0	1	0	2	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
128	Sling Psychrometer Dry bulb/Wet bulb temp.- (-5to +50 ⁰ C) Relative Humidity- 10 to 100%, for dry bulb temperature between(-1 to 38 ⁰ c) Operating Conditions:- -5 to +50 °C , 10 to 100% RH, 1ATM±10%	0	0	0	0	5	0	5	
129	Digital Hygrometer Thermometer Humidity Meter With LCD Display	0	0	0	0	5	0	5	
130	THERMAL LAB Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Cochran Boiler (10 x 10 x 30)	0	0	0	0	1	0	1	
131	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Babcock-Will Cox boiler (40 x10 x 24)	0	0	0	0	1	0	1	
132	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Lancashire Boiler (45 x 12 x 10)	0	0	0	0	1	0	1	
133	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Lamont Boiler (12 x 12 x 18)	1	0	0	0	1	0	2	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
134	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Benson boiler (12 x 12 x 18)	1	0	0	0	1	0	2	
135	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Schmidt hmtmann boiler(12 x 12 x 18)	1	1	1	1	1	0	5	
136	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Economizer (10 x 8 x 18)	0	0	0	0	1	0	1	
137	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Air Preheater (10 x 8 x 18)	0	0	0	0	1	0	1	
138	Illustrative detailed cut section models of iron/steel following.: (Approx. size - length x width x height) (In Inches) Super Heater (10 x 8 x 18)	0	0	0	0	1	0	1	
139	Working Model of Parsons reaction steam turbine (dia 6") (Metallic, with transparent window, nozzle for steam)	1	1	0	0	1	0	3	
140	Illustrative detailed cut section models of cooling tower of iron/steel following.: -Natural Draught Cooling Tower (12x12x18)inch	1	0	0	0	1	0	2	
141	Illustrative detailed cut section models of cooling tower of iron/steel following.: Forced Draught Cooling Tower (12x12x18)inch	1	0	0	0	1	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
142	Cut section models(metallic) mounted on suitable wooden frame steam stop valve	0	0	0	0	1	0	1	
143	Cut section models(metallic) mounted on suitable wooden frame water level indicator	0	0	0	0	1	0	1	
144	Cut section models(metallic) mounted on suitable wooden frame -Spring loaded Safety Valve	0	0	0	1	1	0	2	
145	Cut section models(metallic) mounted on suitable wooden frame feed check valve	0	0	0	0	1	0	1	
146	Cut section models(metallic) mounted on suitable wooden frame Mechanical Type Pressure Gauge	0	0	0	0	1	0	1	
147	Cut section models(metallic) mounted on suitable wooden frame dead weight safety valve	0	0	0	0	1	0	1	
148	Cut section models(metallic) mounted on suitable wooden frame surface condenser	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
149	Cut section models(metallic) mounted on suitable wooden frame -jet condenser	1	1	0	0	1	0	3	
150	Cut section models(metallic) mounted on suitable wooden frame Edwards air pump (wet type)	1	1	1	1	1	0	5	
151	<p>Hydraulic Bench FLUID MECHANICS/WELDING LAB</p> <p>Specifications:- Hydraulic Bench of suitable size consisting of measuring tank and sump tank fitted with:</p> <ul style="list-style-type: none"> - Pump set - self priming 1 HP , 1"dia pipe and flow control valves, - Throats, venturimeter, orifice, Bernoulli tube all made of heavy duty transparent acrylic sheet - All the tanks & Table should be made of 18swg SS sheet - All parts should be coated with non-corrosive protection - Operation/Instruction manual <p>Equipment should consist of various apparatus to perform following experiments:</p> <ol style="list-style-type: none"> 1. Bernoulli's theorem verification 2. Impact of jet 3. Flow measurement by orifice meter and venturimeter 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>4. Pipe friction(four pipes of different materials with at least four piezometer in each pipe) 5. Orifice and mouthpiece 6. Notch</p>								
152	<p>Reciprocating pump test rig Specifications:- Reciprocating Pump test rig: The rig should be capable of conducting performance test on reciprocating pump.</p> <ul style="list-style-type: none"> - Pump - single acting, single cylinder, speed - 250 rpm, Air vessels at suction and delivery sides - Drive - 1 HP D.C. Motor with Thirstier controlled 1D.C. for variable speed - Sump Tank - Flow Measurement-using measuring tank with piezometer - Stop watch-Electronic - Pressure gauge-Bourdon type at suction and delivery sides - Control panel-RPM measurement- rpm indicator with proximity sensor, Energy measurement-electronic meter, MCB- for overload protection, Standard Make- On/Off Switch, - Tank 18SWG SS Sheet - All the metallic parts should be coated with non-corrosive protection - Operation/ Instructions manual 	0	0	0	0	1	0	1	
153	<p>Pelton wheel test rig Specifications:- Pelton Turbine test rig</p>	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>Self contained closed circuit Pelton Turbine test rig suitable for conducting performance test</p> <ul style="list-style-type: none"> -Pelton wheels- speed 750-1000 RPM, power 1KW Turbine consist of gun metal buckets, transparent window, spear and nozzle, hand wheel arrangement, bearing pedestal, rotor shaft all mounted on sturdy base plate. -Rope brake arrangement with 200 mm drum. -Suitable pressure gauges, dead weights and spring balances. -Mono-block centrifugal pump to supply water 600 lpm at suitable head coupled to 3 phase 440 volts ISI 5 HP, 1440 RPM motor with suitable semiautomatic star-delta starter, switch and energy meter. ---Suitable 18SWG SS storage tank, piping, foot valve, gate valve, 65mm venturimeter, double column differential manometer/pressure gauge on control panel. -All metal fittings should be coated with non-corrosive protection. - Electronic stop watch, digital tachometer - Operations/Instruction manual 								
154	<p>Francis turbine test rig.</p> <p>Specifications:- Francis Turbine test rig</p> <p>Closed circuit Francis Turbine test rig suitable for conducting performance test.</p> <ul style="list-style-type: none"> -Francis Turbin- speed 1500 RPM, power 1 KW, Turbine consist of spiral casing, GM Aero file guide vanes, GM runner, brake drum on bearing pedestal, rotor shaft, hand wheel guide 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>vane control all mounted on sturdy base plate. -Transparent window made of thick perplex tube to be provided between casing and draft tube to view flow at exit. -Rope brake dynamometer arrangement -Suitable pressure gauges, dead weights and spring balances. - Suitable mono-block pump to supply water of suitable discharge at 15m head coupled to 3 phase 440 volts ISI 7.5 HP, 1440 RPM motor with suitable semiautomatic star-delta starter, switch and energy meter. -Suitable 18 SWG SS storage tank, piping, foot valve, gate valve, venturimeter, double column differential manometer/ pressure gauge on control panel. -All metal fittings should be coated with non-corrosive protection. - Electronic stop watch, digital tachometer - Operations/Instruction manual</p>								
155	<p>Illustrative models of (All metallic, mounted on iron frame.) - runner of Pelton turbine (10" - 12" Dia)</p>	0	0	0	0	1	0	1	
156	<p>Illustrative models of (All metallic, mounted on iron frame.) - Runner of Francis turbine (10" - 12" Dia)</p>	0	0	0	1	1	0	2	
157	<p>Illustrative models of (All metallic, mounted on iron frame.) - Runner of Kaplan Turbine (10" - 12" Dia)</p>	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
158	Illustrative models of (All metallic, mounted on iron frame.) - Impeller of centrifugal pump (6" Dia)	0	0	0	0	1	0	1	
159	Cut section model of following 1 HP pump - submersible	1	1	1	1	1	0	5	
160	Cut section model of following 1 HP pump -- jet pump	1	1	1	1	1	0	5	
161	Cut section model of following 1 HP pump - deep well pump	1	1	1	1	1	0	5	
162	Bourdon Tube pressure gauge (range 0-300psi)	1	1	1	1	1	0	5	
163	WELDING LAB MIG Welding Machine Specifications;- MIG Welding Equipment Specifications: Power source 6.2 KVA Welding current- 300-400 Amp Arc voltage - 18-50 v Cooling - Forced air cooled power - 415 V, 3 Phase, 50 Hz Accessories -Copper cable 400 Amp with earth clamp and lugs -- 01 set - Hand screen - 01	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	- CO ₂ Heater and core assembly - 01 - Input cable 5 Mt. long - 01 - CO ₂ flow calibrated regulator -01 - MS wire spools of 1.2 mm and 0.8 mm each of 12.5 kg. weight (Approx.) - 02 Nos. - 27 Kg. CO ₂ cylinder (Approx.-Height 5 ft., dia 8 inch, newly manufactured with testing certificate) - Spares - gas nozzle - 01 - nozzle insulator -01 - liner assembly 1.2 mm- 01 - liner assembly 0.8 mm- 01 Accessories: Wire feed rate – 2.5 m/min Shielded medium- argon+CO ₂								
164	Spot Welding Machine Specifications:- . Spot welding machine With all standard accessories and tools rating at 50% duty cycle - 10 KVA power supply - 415 V, 3 Phase, 50 Hz Throat clearance - 180 mm Water supply – 2.5 ltr. per min. Clamping force -128 kgf	0	0	0	0	1	0	1	
165	Oxy Acetylene Gas Welding Equipment Specifications:- Oxy acetylene gas welding apparatus with accessories - acetylene cylinder fitted with two stage pressure regulator	0	0	0	0	1	0	1	




S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>with key (approx. height - 3 ft., dia - 9 inch) (Gas Filled) - oxygen cylinder fitted with two stage pressure regulator with key (approx. height - 5 ft., dia - 9 inch) (Gas Filled) certified with govt. authority - Cylinders fitted on wheeled trolley - Hose pipe, Welding torch, Cutting torch, lighter all fittings with ISI mark</p>								
166	<p>Arc welding transformer Specifications:- Arc welding transformer Set consists of copper wound transformer fitted on steel frame covered with MS sheet mounted on rubber caster wheel Specifications: open circuit voltage - 110 v Arc voltage - 24 -44v Welding current - 30-200 Amp Welding current control - steeples regulator winding - copper Cooling -forced air power - 415 V, 3 Phase, 50 Hz supplied with copper (600 Amp)welding and earth cable (5 meter each), lugs, Electrode holder</p>	0	0	0	0	2	0	2	
167	<p>Electronic single phase arc welding transformer Specification: Single phase 220/230 V, 50Hz, Current rating 30-60A</p>	0	0	0	0	2	0	2	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
168	Arc welding transformer set consist of copper wound transformer fitted on steel frame cover with M.S. sheet Open circuit voltage -110V Arc Voltage -24-44V Welding current 30-200A Power -230V, 1 phase 50Hz forced air cooled	0	0	0	0	2	0	2	
169	Universal (Horizontal Milling Machine) MACHINE SHOP Specifications:- Milling machine (horizontal) Universal milling machine with built in coolant tank at the base . Standard accessories: - Electric Motor - Arbor - Set of requisite tools - Coolant system (Separate Pump and Motor) - Machine lamp - Instruction and operation manual Specifications: Table clamping area 800 x 225 mm Over all size 1100 x 225 mm Table traverse Longitudinal (power/manual) 490 mm/500mm Transverse (manual 200 mm	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p> Vertical (manual) 350 mm Milling arbor ISO 40x25.4 mm Power operated feed and speed Speed range 50-1225 rpm Swivel of table 45° Degrees Distance Spindle centre to table surface (min.)- 50 mm Spindle centre to lower face of over arm 125 mm Power Spindle motor 2 HP Feed Motor 1HP Special Accessories- Universal dividing head - 01 Vertical milling head - 01 Universal machine wise - 01 Rotary table - 01 - The machine shall incorporate all safety and interlocking devices to protect against all possible operation and machinery failure - Electrical equipments i.e. motor & control gears suitable for operation on 415v, 3 Phase, 50 Hz, A/c supply with overload protection & single phase preventer </p>								
170	Capstan Lathe Specifications: CAPSTAN LATHE Capstan lathe with all standard accessories	0	0	1	0	1	0	2	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>Specifications:</p> <p>Swing over bed 300mm</p> <p>Max. dia of bar (to feed) 25 mm</p> <p>Height of Centre 150 mm</p> <p>Overall length of bed 1275mm</p> <p>(minimum)</p> <p>Bed width 180 mm</p> <p>MAIN SPINDLE</p> <p>- Spindle flange dia 75 mm</p> <p>- Spindle hole dia 35 mm</p> <p>- Spindle speeds 12 Nos.</p> <p>- Range of Spindle speeds RPM 50-1500</p> <p>TURRET</p> <p>Hex. turret size 160 mm F x F</p> <p>No. of turret stations 6 Nos.</p> <p>Dia of holes in turret 25 mm</p> <p>Distance from spindle nose to turret face (Max) 400 mm</p> <p>CROSS SLIDE</p> <p>Cross slide travel (Manual) 200 mm</p> <p>FEEDS Range of turret slide feeds mm/rev. 0.07 to 1.00</p> <p>Saddle feeds Manual</p> <p>GENERAL</p> <p>Main Motor Kw 1.5, 1440 rpm</p> <p>Coolant Pump Motor Kw 0.11, 2800 rpm</p>								





S. N.	Item with Full Specifications 	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>Standard Accessories</p> <ul style="list-style-type: none"> - Automatic mechanical indexing turret head with six tool head station 1 No. - Bar feeding unit with weights 1 No. - Collet chuck 1 No. - Round collet size metric upto 25 mm - Hexagon collet size metric upto 20 mm - Square collet size metric upto 15 mm - Coolant unit with coolant pump motor along with complete fittings 1 No. - 150 mm dia 3 jaw self centering chuck with back plate 1 No. - Indexing square tool post 1 No. - Electrical complete with 2 HP motor and control panel 1 No. - Rear tool post 1 No. - Rear splash guard 1 No. - Set of services tools 1 Set - Instruction Manual 1 No. <p>Optional Accessories</p> <ul style="list-style-type: none"> - Straight turning tool holder 2 Nos. - Angular turning tool holder 2 Nos. - Boring tool 25 mm shank 1 Nos. - Throw away carbide tool tips 10 Nos. each for above tool holders 								

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>contd.....</p> <ul style="list-style-type: none"> - Tap holders 2 Nos. - Dia holders 2 Nos. - Drill holder/socket 1 Nos. - Boring bar/extension holder 1 Nos. <p>- Emergency stop switch shall be provided at convenient point</p> <p>- The machine shall incorporate all safety devices to protect against all possible operation and machinery failure</p> <p>- Electrical equipments i.e. motor & control gears suitable for operation on 415v, 3 Phase, 50 Hz, A/c supply with overload protection & single phase preventer</p> <p>- Following inter locks shall be provided to prevent the machines from operating in the event of</p> <ul style="list-style-type: none"> - Faulty sequence of operation - Fluctuation of supply voltage - Resumption of power supply after power failure - Non positioning of safety guards 								
171	<p>Shaping Machine</p> <p>Specifications:- Shaping Machine</p> <p>All geared Shaping machine with standard accessories</p> <p>- Swiveling box type table with variable automatic feeds on horizontal traverse.</p>	0	0	1	0	5	0	6	


S. N.	Item with Full Specifications 	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> - Graduated tool slide swiveling 60 degrees either ways - Four speed gear box with automatic lubrication - Start/stop facility with push button switches - Instruction and operation manual Standard Accessories <ul style="list-style-type: none"> - Safety guards & covers - Swiveling vice with handle - Pulleys, V-belts - Crank handle, Ram Handle - Set of standard cutting tools - Set of maintenance tools - Lubrication system Specifications working capacity system <ul style="list-style-type: none"> - Length of Stroke - 350 mm - Length of ram without tool slide - 650mm - Tool Slide Traverse - 125 mm - Length of cross slide - 600 mm - Width of cross slide - 300 mm - Horizontal traverse of the table - 450 mm - Vertical traverse of the table - 350 mm - Top Clamping surface of the table - 300x225 mm - Maximum distance from table to Ram - 225 mm - Minimum distance from table to Ram - 15 mm - Tool holder size - 25 x 12 mm 								

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <ul style="list-style-type: none"> - Swivel vice jaw width 155mm - Opening of jaws of the vice 200 mm - H.P. & RPM. of Motor- 1-1440, 415v, 3 Phase, with starter and over load protection - Emergency stop switch shall be provided at convenient point - The machine shall incorporate all safety devices to protect against all possible operation and machinery failure - Electrical equipments i.e. motor & control gears suitable for operation on 415v, 3 Phase, 50 Hz, A/C supply with overload protection & single phase preventer - Following inter locks shall be provided to prevent the machines from operating in the event of <ul style="list-style-type: none"> - Faulty sequence of operation - Fluctuation of supply voltage - Resumption of power supply after power failure - Non positioning of safety guards 								
172	Precision bench type drilling Machine Specifications:- Precision Bench Type Drilling Machine No. of spindle ----- 01 Spindle travel ----- 125 mm Drilling capacity ----- 13 mm Max. distance between spindle & work table 300 m m/570 mm working surface table-----325x 125	0	0	0	0	2	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>mm Motor-----0.5 HP, 3-ø, AC, 410 V with reversing switch, No. of speed ----- 04 Provided with coolant pump ----- 25 Liter/min Standard Accessories: Machine vice of 100 mm jaw size V- belts, pulleys Drill chuck with arbor and key Drill drift Oil can Set of service tools Operation and instruction manual - Machine shall incorporate all safety devices</p>								
173	<p>Slotting Machine Specifications:-Slotting Machine All geared Slotting machine with all standard accessories and tools. Specifications: mm Max. Stroke 150 mm Speed adjustment three speed (all geared)</p> <p>Table Travel Right-Left 200 mm Forward - Backward 100 mm Up - Down 250 mm</p>	0	0	0	0	2	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>Electrical Motor 1 HP, 415v, 3 Phase, with starter and overload protection Rotary table should also be provided. machine should incorporate cooling system and all standard accessories, safety devices and interlocking devices. All tools required for general maintenance of machine should be provided service manual.</p>								
174	<p>Buffing Machine Heavy duty with buffing wheels of size 4" & 6" mounted on both ends Motor - 0.5 HP, 2800 rpm, 415 v, 3 Phase with starter</p>	0	0	0	0	1	0	1	
175	<p>Lapping Machine Machine should be designed for rough and fine polishing and lapping of metallurgical specimens -Machine consists of two polishing discs mounted on sturdy steel vibration free frame. Dia meter of discs - 200 mm - Specimen holder with weights - Water faucets for cooling specimen 02 Nos.</p>	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	- Arrangements for varying the rpm of motor-motor - 0.5 HP, 1440 rpm, 220v , Single Phase								
176	CNC Lathe Trainer Main specification: - Main machine a. Height of centers 100 mm b. Distance between centers 310 mm c. Swing over bed 150 mm d. Swing over cross slide 75 mm e. Travel of cross slide 75 mm f. Max. Turning dia. 45 mm g. Max. Turning length 150 mm h. Longitudinal traverse 180 mm - Head stock a. Hole through main spindle 16 mm b. Spindle taper 2 MT c. Type of drive AC servo motor d. Speed range 50-3000 rpm e. Motor power 0.75 kw - Tail stock a. Sleeve diameter 22 mm b. Stroke 35 mm c. Taper 1 MT - Feed a. Type of drive for both axis AC servo motors b. Resolution 0.001 mm	0	0	1	0	1	0	2	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <p>c. Rapid traverse rate 700 mm/min</p> <p>d. Programmable feed rate 1-700 mm/min</p> <p>- CNC system</p> <p>a. No. of axis 2</p> <p>- Operation and training manual 1</p> <p>Standard accessories:</p> <ul style="list-style-type: none"> - One set of hand tools for normal operation - One instruction cum programming manual - Standard colour : double colour (white and blue) - Electrical : 3 phase, 415 V+/- 10%, 50Hz,+/-3%, AC supply - MPG - Panel AC for CNC system and drive - Test pieces <p>Special accessories</p> <ul style="list-style-type: none"> - Clamping plate dia 90 mm with four chucking grooves and 2 clamps - Live centre MT1 - 3 jaws self centering chucks, dia 80 mm with scroll 2x3 jaws and - Operating key - Machine light - External Turning tool neutral with one insert - Boring tool with one insert - External thread cutting tool with one insert for 1.5 mm 								


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	pitch Pc based two axis CNC system command type absolute. Interpolation linear And circular programming G code, M code, F code, T code.								
177	<p>Hydraulic Power Hack Saw Machine</p> <p>Specifications:</p> <ul style="list-style-type: none"> - Capacity to cut round bar up to 100 mm dia. - Capacity to cut square section 100x100 mm - Length of stroke 138 mm (5.5") blade size 500 mm x 38 mm - Motor 1.5 KW(2 HP), 415V 3 phase, 50hz, 1440 rpm <p>Standard Accessories:</p> <p>The supply shall include all the standard accessories which are required to make machine fully operational on site including the following:-</p> <ul style="list-style-type: none"> - Starter. 01 No. - Pulley. One Set. Starter Plate 01 No. - Length Gauge. One Set - Bolts. One Set - Coolant pump. One Set <p>Machine should be robust and rigid in construction</p> <ul style="list-style-type: none"> -Lifting of for return stroke must be hydraulically. -Frame shall be raised automatically on completion of cut and thereby stopping the machine 	0	0	0	0	2	0	2	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> - At least two cutting speeds shall be provided with help of V-belt and pulley - Mechanical coolant pump with tank shall be provided for continuous flow of coolant - Complete lubrication system of machine shall be provided. - Machine shall incorporate all safety devices and control system - Following inter locks shall be provided to prevent the machines from operating in the event of <ul style="list-style-type: none"> - Faulty sequence of operation - Fluctuation of supply voltage - Resumption of power supply after power failure - Non-positioning of safety guards 								
178	HSS Gear cutter (involute) Pressure Angle $14\frac{1}{2}^{\circ}$ 14 DP Bore size 1" (25.4m m)	0	0	0	0	2	0	2	
179	HSS Gear cutter (involute) Pressure Angle $14\frac{1}{2}^{\circ}$ 16 DP Bore size 1" (25.4m m)	0	0	0	0	2	0	2	
180	HSS Gear cutter (involute) Pressure Angle $14\frac{1}{2}^{\circ}$ 12 DP Bore size 1" (25.4m m)	0	0	0	0	2	0	2	
181	HSS side & face cutter 3"x $\frac{1}{2}$ " 1" bore size	2	2	2	2	2	0	10	




S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
182	HSS side & face cutter 2½" x ½" x1" Bore size	2	2	2	2	2	0	10	
183	Helical slab milling cutter (bore dia. 25.4mm) width 2", o.d.2"	2	2	2	2	2	0	10	
184	Helical slab milling cutter (bore dia. 25.4mm) width 3", o.d.2"	2	2	2	2	2	0	10	
185	Helical slab milling cutter (bore dia. 25.4mm) width 4", o.d. 2"	2	2	2	2	2	0	10	
186	Grinder with rough and smooth wheels (8" dia.) 1HP, 2800 rpm, 415 V, 3 Phase, 50Hzs	0	0	0	0	3	0	3	
187	Tool & cutter grinder with standard accessories model UTC-250TM distance between centers 480 mm , swing 250 mm	0	0	0	0	1	0	1	
188	Double Ended Spanner set 6-32 mm	0	0	0	0	1	0	1	
189	Universal Surface Gauge Steel base 12"size with marker	0	0	2	2	2	0	6	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
190	Vernier caliper mono block with lower screw lock stainless steel 200mm x 0.001 mm least count digital	2	2	2	2	2	0	10	
191	Micrometer (0-25 mm range) L.C. 0.001 mm (out side) Chrome plated digital	2	2	2	2	2	0	10	
192	Vee- block, 3" x 2½" x 1¼" with magnetic base	3	3	3	3	5	0	17	
193	Ring spanner drop forged chrome plated set 6-32 mm(12 pieces)	0	0	0	0	1	0	1	
194	CENTRE LATHE Technical Specification Length of bed 1200mm Height of Centers 175 Swing over bed 350 Swing over slide 190 Width of Bed 242 Spindle bore 40 Spindle nose L-Type Spindle Speed No. 8 RPM 60-1025 Cross slide Travel 180 Motor 1.5Kw Accessories Three jaw self centering chuck	0	0	0	0	10	0	10	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 Taper turning attachment Splash guard Coolant pump with sump Chip tray Compound slide with four way tool holder								
195	CENTRE LATHE WITH HYDRAULIC COPYING ATTACHMENT Technical Specification Length of bed 1200mm Height of Centers 175 Swing over bed 350 Swing over slide 190 Width of Bed 242 Spindle bore 40 Spindle nose L-Type Spindle Speed No. 8 RPM 60-1025 Cross slide Travel 180 Motor 1.5Kw Accessories Three jaw self centering chuck Taper turning attachment Splash guard Coolant pump with sump Chip tray Compound slide with four way tool holder	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
196	 <p>Surface Grinding Machine Working Surface of Table: 225x450 mm Maximum height from table to grinding wheel: 275mm Vertical feed least count: 0.01mm Micro feed least count: 0.002mm Cross feed least count: 0.05mm Spindle speed: 2800 rpm Size of grinding wheel (Dia. x Width x Bore): 200x13x31.75 mm Magnetic chuck recommended: 200x450 mm Electric motor recommended: 1HP-2800rpm STANDARD ACCESSORIES: * Balancing Stand & Mandrel * Diamond Dressor * Lubrication Pump * Tool Kit * One Grinding Wheel with Flange OPTIONAL ACCESSORIES: * Permanent Magnetic Chuck * Coolant Equipments * Machine Lamp (230v AC) * Wheel Flange Unit</p>	0	0	0	1	1	0	2	
197	<p>Centre less Grinding Machine with coolant pump Grinding range (dia.): 2-100mm Max. length in through feed grinding: 220 mm Grinding wheel size: 350x100x127 mm Grinding wheel rpm: 2000 Max. Regulating wheel size: 230x100x76.2mm Regulating wheel speed (immediately variable): 20-200 rpm</p>	1	1	1	1	1	0	5	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 Swivel of regulating wheel head in horizontal plane for taper correction/ taper grinding and vertical plane for through feed grinding: $\pm 1.5^0$ Hydraulic dresser Swivel of grinding and regulating wheel dresser: $\pm 5^0$ Grinding wheel motor power: 7.5HP Regulating wheel motor power: 1HP								
198	Honing machine ID range: 5-55mm Hon component upto 75mm Honing length 150mm maximum Multi stone Spindle speed: 500-1200 rpm max. Spindle motor: 1HP Overall dimensions :960x1060x1170mm Weight:240 kg. Manual stroking	0	0	1	1	1	0	3	
199	Vernier Caliper - Type Dial caliper Metrology Lab <ul style="list-style-type: none"> Range: 0-200 mm Least count: 0.02 mm Made of stainless steel Carbide tipped jaws for OD and ID measurement Titanium coating on sliding surface Depth bar: Provided To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	

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200	Vernier Caliper Long Calipers <ul style="list-style-type: none"> • Range: 0-300mm. • Least count: 0.02 mm • Jaw length: not less than 75 mm • Carbide tipped jaws for OD and ID measurement • Titanium coating on sliding surface • Depth bar: Provided • To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
201	Vernier Caliper Offset calipers <ul style="list-style-type: none"> • Range: 0-300mm. • Resolution: 0.01 mm • Digital type (origin set, zero setting, power on/off, display in inch/metric) • With depth bar • Main jaw can slide up or down • Carbide tipped jaws for OD and ID measurement • To be supplied in wooden/appropriate case 	1	1	1	1	1	0	5	
202	Micrometer Digital type, outside <ul style="list-style-type: none"> • Range: 0-25mm • Resolution: 0.001 mm • Function: Zero set, on/off, mm/inch • Carbide-tipped measuring faces • Ratchet stop • To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications		Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
203	Micrometer outside <ul style="list-style-type: none">• Range:0-25mm• Graduation: 0.01 mm• Carbide-tipped measuring faces• Positive locking clamp and ratchet stop• To be supplied in wooden/appropriate case	0	0	0	0	1	0	1		
204	Micrometer outside <ul style="list-style-type: none">• Range: 0-150mm• Resolution: 0.001mm• Carbide tipped spindle face• Interchangeable anvils of size 0, 25, 50, 75, 100, 125 mm• To be supplied with setting standards for each range• To be supplied in wooden/appropriate case	1	0	0	0	1	0	2		
205	Micrometer screw thread <ul style="list-style-type: none">• Range: 0-25mm, with suitable measuring tips for V-55° and 60°• Resolution: 0.01mm• Digital output with button for on/off, set, mm/inch, automatic power off• Ratchet stop• SPC cable of minimum 2 m length• To be supplied in wooden/appropriate case	0	0	1	1	1	0	3		
206	Micrometer Sheet metal <ul style="list-style-type: none">• Range: 0-25mm	1	1	1	1	1	0	5		

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	 <ul style="list-style-type: none"> • Graduation: 0.01mm • Throat: 50 mm • Dial reading model • Spherical anvil and flat spindle • Carbide measuring faces • Ratchet stop • To be supplied in wooden/appropriate case 								
207	Spline Micrometer <ul style="list-style-type: none"> • Digital type • Range: 0-25mm • Resolution: 0.001mm, • Anvil/Spindle: diameter = 3 mm and length = 10 mm • Carbide-tipped measuring faces • To be supplied in wooden/appropriate case 	1	1	1	1	1	0	5	
208	Disk Micrometer <ul style="list-style-type: none"> • Digital type • Range: 0-25mm • Resolution: 0.001mm • Measuring disc diameter: 20mm and 0.7 mm edge thickness • To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
209	Groove Micrometer <ul style="list-style-type: none"> • Range Outside: 0-25mm, • Range Inside: 1.6-26.5mm • Graduation: 0.01mm 	1	1	1	1	1	0	5	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> Two graduations for inside and outside measurement Flanged spindle for measuring width depth & location of groove inside/outside bores and tubes, Flange diameter: minimum 12 mm Non-rotating spindle type having two directional ratchet stop To be supplied in wooden/appropriate case 								
210	Indicating Micrometer <ul style="list-style-type: none"> Range: 0.25mm, Indicating graduation : 0.001mm Indicating range: 0.06 mm Retractable anvil Carbide tipped measuring faces To be supplied in wooden/appropriate case 	0	0	1	0	1	0	2	
211	Inside Micrometer <ul style="list-style-type: none"> Digital type Range: 5-30 mm Resolution: 0.001mm Carbide tipped measuring faces Ratchet stop and Locking clamp for positive locking of spindle To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
212	Inside Micrometer <ul style="list-style-type: none"> Tubular inside micrometer Range: 50-150 mm 	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> Set of 04 pieces (50-75 mm, 75-100 mm, 100-125 mm, 125-150 mm) Graduation: 0.01 mm With Carbide tipped measuring faces Supplied with a key wrench for zero adjustment To be supplied in wooden/appropriate case 								
213	Sine bar <ul style="list-style-type: none"> Nominal size: 200 mm, tolerance ± 4 micrometer Roller diameter: 20 mm Main body and supporting rollers of steel Conforming to IS 5359-1987 (reaffirmed 1998) To be supplied in wooden/appropriate case 	0	1	0	0	1	0	2	
214	Depth micrometer Digital type <ul style="list-style-type: none"> Range: 0-150 mm Resolution: 0.001mm Graduation: 0.01 mm Rod diameter: 4mm Rods: 06 in number in increments of 25 mm Has a locking clamp & ratchet Carbide tipped measuring faces Basic size: Minimum 100 mm size and width 15 mm To be supplied in wooden/appropriate case 	0	0	0	1	1	0	2	
215	Depth gauge <ul style="list-style-type: none"> Digital type Range: 0-300 mm 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> Resolution: 0.01 mm Digital output with button for on/off, set, mm/inch, automatic power off Base and measuring faces are hardened and micro lapped To be supplied in wooden/appropriate case 								
216	Dial depth gauge <ul style="list-style-type: none"> Range: 0-200 mm Dial reading : 0.01mm Spindle stroke: 10mm With 5 rods (10, 20, 30, 30, 100 mm) Basic size: Minimum 60 mm size and width 15 mm Should be capable of measuring the depth of holes, narrow grooves and steps Base and measuring faces are hardened and micro lapped To be supplied in wooden/appropriate case 	0	0	1	0	1	0	2	
217	Vernier Height Gauge <ul style="list-style-type: none"> Range: 0-300mm Graduation: 0.02mm Main scale adjustment : 15 mm made of stainless steel and chrome finished scales Carbide tipped scriber with clamp Holding bar for test indicator : 50 mm With magnifier 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> • minimum weight : 3 kg • To be supplied in wooden/appropriate case 								
218	Dial Height Gauge with counter <ul style="list-style-type: none"> • Range:0-300mm • Graduation: 0.01mm • Driving wheel for easy coarse feeding • Up and down digital counters • Holding bar for test indicator : 50 mm • Carbide tipped scriber with clamp • minimum weight : 4 kg • To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
219	Vernier Height Gauge <ul style="list-style-type: none"> • Range: 0-600 mm • Graduation: 0.02 mm • Main scale adjustment: 25 mm • made of stainless steel and chrome finished scales • Carbide tipped scriber with clamp • Holding bar for test indicator : 50 mm • With magnifier • Minimum weight : 7 kg • To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
220	Bevel Protractor <ul style="list-style-type: none"> • Blade size: 300 mm • Dial: 1° 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> Minimum reading: 5 minutes (0°-90°-0°) To be supplied with attachment for height gauge & acute angle and suitable magnifying glass To be supplied in wooden/appropriate case 								
221	Slip Gauge <ul style="list-style-type: none"> Slip gauge set Made of alloy steel 1 mm base block set consisting of 47 blocks To be supplied in following sizes [{Size 1.005, Qty. 01 piece}; {Size 1.01-1.09, Qty. 09 piece, step of 0.01}; {Size 1.1-1.9, Qty. 09 piece, step of 0.1}; {Size 1-24, Qty. 24 piece, step of 1}; {Size 25-100, Qty. 04 piece, step of 25}] To be supplied with inspection certificate To be supplied in wooden/appropriate case 	0	0	1	1	1	0	3	
222	Bore Gauge <ul style="list-style-type: none"> Range: 35-60 mm Dial type having range: 10 mm and graduation: 0.01 mm With 06 anvils (35, 40, 45, 50, 55, 60 mm sizes) Gage stem diameter: 08 mm Carbide ball contact point for durability Measuring depth: 150mm To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
223	Bore Gauge (for small holes) <ul style="list-style-type: none"> Dial type Range: 0.95-1.55 mm Graduation: 0.01 mm With 06 anvils (35, 40, 45, 50, 55, 60 mm sizes) Gauge stem diameter: 08 mm Carbide ball contact point for durability Measuring depth: 150mm To be supplied with 06 anvils and 01 needles Minimum probe depth: 10 mm To be supplied in wooden/appropriate case 	1	1	0	1	1	0	4	
224	Telescoping Gauge Set <ul style="list-style-type: none"> Range: 8-150 mm Set having gauge of sizes: 8-12.7 mm, 12.7-19 mm, 19-32 mm, 32-54 mm, 54-90 mm, 90-150 mm Used for measurement of bore diameter and groove width Spring loaded plunger expands within the hole Having a knurled clamp for holding the measurement and subsequent measurement with a micrometer To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
225	Dial Indicator <ul style="list-style-type: none"> Digital type Minimum range: 12 mm Resolution: 0.01 mm 	0	0	0	0	1	0	1	


S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 <ul style="list-style-type: none"> Accuracy: 0.02 mm Stem diameter: 08 mm Facilities of origin set, zeroset, power on/off, mm Supplied with spindle lifting lever Back with screw mount To be supplied in wooden/appropriate case 								
226	Dial Indicator <ul style="list-style-type: none"> Range: 1mm Graduation: 0.001 mm Dial Reading: 0-100 Measuring Force: 1.5N or less With lug back, suitable bezel, bezel clamp and limit hand To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
227	Dial Test Indicator <ul style="list-style-type: none"> For measurement of narrow or deep portions Horizontal type Range: 0.2mm Graduation: 0.002mm Dial Reading: 0-100-0 Stem diameter: 08 mm Carbide contact point of 2mm diameter To be supplied in wooden/appropriate case 	1	0	0	1	1	0	3	
228	Combination set <ul style="list-style-type: none"> Blade size: 300 mm 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> Graduation on blade: 0.5 mm on front and 1 mm on back Square head: 45° and 90° setting, length minimum 110 mm, hardened centre head protractor head: range 0-180°, hardened To be supplied in wooden/appropriate case 								
229	Surface Plate <ul style="list-style-type: none"> Material: Granite Dimensions: 2' x 2' Shop grade and 3" high Weight: 200 kg To be supplied with calibration/test certificate To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
230	Dial stand with magnetic base <ul style="list-style-type: none"> To hold dial indicator Applicable holding Stem diameter: 6 mm, 8mm, 9.5 mm and suitable rigid base With mechanical locking system On/Off switch for instant mounting and dismounting To be supplied in wooden/appropriate case 	0	0	0	0	1	0	1	
231	Flexible Dial stand <ul style="list-style-type: none"> To hold dial test indicator Applicable holding Stem diameter: 6 mm, 8mm, 9.5 mm and suitable rigid base 	0	0	0	0	1	0	1	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<ul style="list-style-type: none"> • With mechanical locking system • On/Off switch for instant mounting and dismounting • To be supplied in wooden/appropriate case 								
232	Digital protractor <ul style="list-style-type: none"> • For measuring inclination • Range: 360° • Resolution: 0.1° • Accuracy: 0.1° Level $\pm 10^{\circ}$, Plumb $\pm 10^{\circ}$, Maximum error $\pm 0.2^{\circ}$ • Measurement generated by an electronic gravity sensor • Machined aluminum frame • Reading hold button • To be supplied in wooden/appropriate case 	0	0	1	0	1	0	2	
233	Feeler gauge <ul style="list-style-type: none"> • Made of hardened alloy steel and tempered • Range: 0.03mm to 1.0 mm having suitable increments so as to accommodate at-least 30 leaves • Blade length: 100 mm • To be supplied in wooden/appropriate case 	1	1	1	1	1	0	5	
234	Electronic comparator <ul style="list-style-type: none"> • To compare specimen according to their dimensions • Range: ± 3 to ± 1000 micrometer • Magnification: 50-16000 • Repeatability: 0.02 micrometer • Contact point: standard ruby ball 	1	1	1	1	1	0	5	

S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
235	Pneumatic comparator <ul style="list-style-type: none"> Bench top low pressure comparator Consisting of hand pump, lead screw, reverse valve, relieve valve and output interface. It features high sealing, stable pressure generating and simple operation. Suitable for laboratory and fieldwork. It provides pressure measurement for calibrating pressure (differential pressure) transmitter, precision pressure gauge, general pressure gauge and other pressure instruments. Pressure Range: (-0.98 ~ 60) bar Stability: 0.05% F.S Working Media: Air Output Interface: M20×1.5 Female Dimensions (L×W×H): 325mm×210mm×170mm Weight: 4.5Kg 	1	1	1	1	1	0	5	
236	Gear tooth vernier caliper <ul style="list-style-type: none"> Digital gear tooth caliper Range: M1-25 mm Resolution: 0.01 mm Horizontal and vertical range: 100mm To be supplied in wooden/appropriate case 	1	0	1	1	1	0	4	
237	Metallurgical/Optical Microscope Head: Trinocular inclined at 45 Degrees Rotatable by 360 Degrees Objectives: Flat Field M4x, M10x, M40x Spring Loaded	0	0	0	1	1	0	2	



S. N.	Item with Full Specifications	Jhunjhunu	Pratapgarh	Baran	Dholpur	Bundi	Jaisalmer	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	 Eyepieces: WF 10x & WF 20x Reflected Illumination: 3W LED with Intensity Control. 110V/220V Option Scientific Professional 3 Mega Pix Camera, Optical Adaptor and Software 7 Level Of Magnification 40x, 80x 100x, 200x, 400x., 800x With ISO Confirmation certificate.								

Terms & Condition :-

1. F. O. R. Principal Government Polytechnic College, Bundi/Jhunjhunu/Pratapgarh/Baran/Jaisalmer/Dholpur/Bikaner / Kota/Pali/Alwar / S.Madhopour/ Sri Ganganagar
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