OFFICE OF THE PRINCIPAL GOVT I.T.I. RAJNANDGAON
DISTT. – RAJNANDGAON, CHHATTISGARH

Phone No. 07744,291837, E-mail – itirjnd@rediffmail.com

Tender No. – RAJNANDGAON/WB/VTIP/04/DEC 2013, Dated 20.12.2013

NOTICE INVITING TENDER

Principal, ITI Rajnandgaon, Chhattisgarh invites sealed tender from eligible bidders (Manufacturers, or their authorized dealer) for procurement of various Packages of Tools, Equipments & Machinery for Center of Excellence related to **"Electrical"** Sector under World Bank assisted Vocational Training Improvement Project (VTIP) in Shopping Mode.

The tender form (complete set of bidding documents along with the packages including details of Items with quantity for purchase) is available on the website **www.cgstate.gov.in**, from 21.12.2013 A complete set of bidding documents may be downloaded free of cost by any interested eligible bidder

The sealed tender should reach the Office of the **Principal, ITI RAJNANDGAON** Chhattisgarh on or before 23.01.2014 by 13.00 hours and will be opened on the same day at 14.00 hours. Any bid received after the deadline for submission of bids as prescribed above will be rejected and returned to the Bidder. The undersigned has all the rights pertaining to the tender.

Principal,
Govt. I.T.I. RAJNANDGAON

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Tender No. – RAJNANDGAO/WB/VTIP/04/DEC 2013 Dated 20.12.2013

World Bank Assisted Vocational Training Improvement Project

TERMS & CONDITIONS OF THE TENDER

Tender documents/Qualification requirements should be submitted in **Main envelope** as given below:

1. On the top of Main envelop mention Tender No., Due Date, all package nos. & names for which Bid are submitted.
2. Following documents should be kept inside the envelope :
    1. Covering letter for submission of Bid which should indicate -
        - Index for all the submitted documents for the tender
        - All particulars of Bidders viz address, phone No., e-mail, name of the authorized person(s), TIN/ TAN/ Service Tax No. etc. for correspondence.
        - Package Nos. & name for which Bid is submitted.
    2. Completely filled Form - "A" with signature & seal of authorized person which includes Earnest Money/ Bid security details - @ 3% of total tendered value.**Tender received without form "A" duly signed (As token of acceptance of tender conditions by the tenderer) will not be accepted.**
    3. Demand Draft/ Bank Guarantee (as given in the Performa Annexure-III) for earnest money/ bid security.
    4. All the pages of **Terms & Conditions of Tender** duly signed & stamped by the tenderer in token of his acceptance of tender conditions along with other documents.
    5. Valid certificates related to TIN / TAN / Service Tax No. etc. issued by competent Govt. authority pertaining to tender and latest VAT clearance certificate is compulsory.
    6. Undertaking for "After Sales Services" on letter head of bidder.
    7. **Affidavit in prescribed format as given in Annexure-V on non judicial stamp paper of Rs. 50/- certified by Notary.**
    8. Manufacturer's Company Profile showing its product range, turn over, web-address and certifications like ISO/ ISI etc. along with the documentary proof of such certificates if company/ products bear such certificate.
    9. All relevant particulars, illustrative catalogue/ broachers etc. which should indicate the products technical specifications for all packages/items which is submitted in the bid.
    10. Filled Manufacturer's Authorization Form as given in SECTION XII (Annexure-VI) for all the quoted items in original letter head.
    11. Package wise Commercial Bid in prescribed format (i.e. Annexure-I) should be submitted (separately for each package) in individual sealed envelope duly signed in hard copy along with the soft copy in CD (MS-Excel / PDF).
    12. On the top of each envelope of Commercial bid, bidder should clearly mention Tender No., Due Date, Package No. and Package Name with seal & sign of bidder.
3. Complete tender document must be duly singed, stamped, paged & indexed by the bidder. **Unsigned or unpaged bids shall be straightway rejected.**
4. The bid would be evaluated separately for each item.
5. A manufacturer or their authorized dealer can bid for a package(s). For each of the quoted items, appropriate documentary evidence for being a Manufacturer or their authorized dealer (Manufacturer's Authorization Form given in SECTION XII as Annexure-VI or latest dealership

certificate) must be submitted necessarily in original letter head. In absence of above the bid will be treated non-responsive & likely may be rejected.

6. If bided items are manufactured out of India then manufacturer's authorized distributor/agency for India may specially authorize a dealer who may participate in this tender. The relevant certificates in proof of such Authorizations and Manufacturing must be submitted.

7. The bid should be accompanied by Earnest Money/ bid security of @ 3% of total tendered value (for all packages) as part of the bid, in the form of Bank Draft/ Bank Guarantee of Nationalized Bank. Or Sheduel Bank, Bank Draft should be in favour of Principal, ITI Rajnandgaon payable at Rajnandgaon, Chhattisgarh. If the bidder deposits earnest money/ bid security in the form of Bank Guarantee, he/she shall furnish the same to the Principal, ITI Rajnandgaon for 3% of total tendered value through a bank guarantee by a nationalized bank in the prescribed Performa as Annexure-III. Earnest Money submitted in any other form will not be accepted and the tender will be rejected. Unsuccessful bidder's earnest money will be discharged/ returned as promptly as possible.

8. The bidder should submit the Manufacturer's Make/ Brand name being use for marketing and registration no. of Commercial Tax Department.

9. Prices shall be quoted in Indian Rupees only. All quoted rates should be for **new and unused** items unless and otherwise specified so.

10. The Technical specification of the Items given in the packages are as per the requirements of the curriculum of the related sectors/trades. Bidder may give equivalent / superior specification as manufactured along with the Technical details / catalogue / brochure etc.

11. Complete Tender Documents will be opened on the prescribed date and time in the presence of Bidders / representatives who choose to attend. The Bidders / representatives who are present shall sign a register evidencing their attendance.

12. The rates quoted by the bidder must be inclusive of all the charges (like – transportation, installation charges, delivery charges, inspection charges, training charges, charges for services, excise duty, customs duty etc.) except VAT. The VAT should be mentioned separately.

13. The tender matter including prices should be typed neatly; corrections/ overtyping in prices will not be accepted. However if correction/ overtyping is there, it should be attested by the tenderer with signature, date and their seal. Hand written and xerox tender will not be accepted.

14. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

15. Bids shall remain valid for 45 days after the deadline for submission of bids prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.

16. Tenderer should give all relevant particulars about every item, such as maker's name Country of Manufacture and Specifications and Price etc., "Specifications as given in catalogue" quoted in tender by the tenderer will not be accepted. Full specification must be written in tender positively and should also be supported by technical literature (Catalogue/ Broachers). Purchase Committee's approval/ decision will be final and binding.

17. Vague expression such as "complete with standard accessories" or "as per your specification" will not be accepted. The tenderers must specifically indicate all specification of the items and should mention clearly what item will be supplied under "accessories" with the Equipment/ Machinery in price schedule enclosed as Annexure-I. Any ambiguity or vagueness in tender for item concerned will be liable for rejection.

18. Makers stickers pasted on equipments/tools will not be accepted.

19. Catalogues/ brochures must be clear, specific and should reflect all the essential specifications of the products/ items, otherwise it will not be considered for comparison. It should be clearly indexed to reflect which item is related to which Catalogues/ brochures.

20. Supplies for any particular item in each package of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturers, for the same item of the package in the bid, will be treated as rejected.

21. Contracts will be awarded only for those items which have minimum 3 valid rates.

22. The bids will be examined to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are in order.

23. The decision of the Tender Committee will be final in the scrutiny of successful bidders.

24. The tenderer will have to submit samples on demand before the technical team at the purchaser end, in the prescribed time limit. In case the samples are not produced in the prescribed time it shall be open to the undersigned to forfeit Earnest Money Deposited by the tenderers. If the samples sent by the party are approved the same will be adjusted in regular supply and in the case of rejection, they will be returned back to the party at his cost.

25. Since this procurement is financed by a World Bank loan/ credit, bidders/ suppliers/ contractors are required to permit the bank to inspect their accounts and records and other documents related to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

26. The fact that the tenderer has signed the form “A” will mean that the tenderer has completely accepted Terms & Conditions of the tender and that the tenderer agrees to abide by these Terms & Conditions of the tender. No deviation from Terms & Conditions of the tender will be accepted under any circumstances. The Terms & Conditions of the tender and clause usually printed on the parties tenders or bills will not be binding on this department.

27. The contents of the form “A” should not be changed or amended otherwise will not be acceptable by this office.

28. The Principal, ITI Rajnandgaon Chhattisgarh reserves the right at the time of Contract award to increase or decrease the quantity of goods originally specified in the Packages without any change in unit price or other terms and conditions.

29. **Contracts for procurement of packages will be awarded as per the priority and availability of budget.** Suppliers has to deliver and complete the task of installation strictly as per the specification of ordered items within stipulated time otherwise above contract may be treated as canceled without any prior notice.

30. **Before executing the awarded contract** the Supplier shall furnish Performance Security to the The Principal, ITI Rajnandgaon Chhattisgarh for an **amount of 5%** of the contract value through a Bank Guarantee by a Nationalized Bank. Or Sheduel Bank,in the prescribed Performa as Annexure-IV, valid upto 60 days after the date of completion of performance obligations including warranty obligations. If the desired Performance Security is not deposited by the tenderer in the specific period, the Earnest Money already deposited with the tender shall be forfeited. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/ replaced material shall be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value shall be extended 60 days over and above the extended warranty period. In the event of any contract amendment, the Supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 60 days after the completion of performance obligations including warranty obligations.

31. If the Supplier fails to deliver any or all of the Goods or to perform the services within the stipulated delivery period(s) specified in the Contract, the Principal, ITI Rajnandgaon Chhattisgarh shall, without prejudice to its other remedies under the Contract, forfeit the Bid Security and the order is liable to cancel.

32. If the supplier/ dealer fails to supply the items as per the specifications, items will not be received by the consignee and supplier/ dealer has to return it back on his/ her own cost. The supplier / dealer may supply the items of higher specifications (due to manufacturing obligations) if accepted by consignee after examination and testing.

33. The one time extension in the delivery period may be granted at the discretion of the undersigned. The liquidated damage at a rate of 2% per month subject to a ceiling of 10% of the contract price of the full cost of the tool/equipment/machine is liable to be charged for the extension of the delivery period. Once the maximum is reached, the Purchaser may consider termination of the Contract. Equipment received after the delivery period or dispatched after the delivery period mentioned in the order will also be subjected to this liquidated damage. Power to extend delivery period would remain reserved with Principal, ITI Rajnandgaon Chhattisgarh.

34. Loading/ Unloading charges shall be borne by the supplier.

35. The undersigned may get, the items supplied by the successful tenderer, inspected on receipt of the same by such person or persons he deems fit and to reject such of these items as in his opinion do not come up to the specification. The decision of the under signed will be final in such cases. The rejected items will be returned on the tenderer's cost.

36. Warrantee/Guarantee should be for a period of 1 year minimum after delivery for the goods and its accessories. An undertaking shall be given by the bidder for "After Sales Services" (in case of authorized supplier/ dealer it should be given by the Manufacturer).

37. All the equipments shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit/ handling and storage at site till the time of installation/ commissioning. While packing all the materials, the limitations from the point of view of availability of railway wagon sizes, in India should be taken into account. The contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.

38. If any Machines/Equipments require training for users, then supplier/ dealer has to arrange such training program at the destinations free of cost. Installation and working trial is to be given at site at the expenses of supplier.

39. 100% payment will be released after the safe receipt of goods, as per the specifications given in purchase order & and after ensuring successful installation, commissioning and performance of supplied items etc.

40. It must be noted that normally all correspondence and transactions will be made only with the parties whose tenders have been accepted and not with anybody else.

41. The undersigned reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time without assigning any reason prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

42. At any time prior to the deadline for submission of bids, the Purchaser may modify the bidding documents by amendment. All prospective bidders who have purchased the bidding documents will be notified of the amendment by uploading in the website **www.cgstate.gov.in** or by E-mail or by fax and will be binding on them.

43. If any document given by the bidder is found fake/manipulated, then the entire EMD deposited by the bidder in the tender will be forfeited without assigning any reason and such bidder will not be entitled for future biddings.

44. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

The decision of the “Tender Committee” will be final & binding to all the bidders. Any dispute arising out of this tender or supply of any other matter will fall under the civil jurisdiction of Chhattisgarh High Court only.

Principal,
Govt. I.T.I. Rajnandgaon
Distt. Rajnandgaon (C.G.)

ANNEXURE-I

Note:- Give Bid Price Item-wise in the following Proforma only. Any deviation will not be accepted.

PRICE SCHEDULE

Package No. ....., Package Name. .....

Name of Bidder .....

(Amount in Rs)

Item Serial No.	Item Code	Specifications of items, which bidder offers	Name of accessories with specifications (if any)	Make/ Brand of Item	Manufacturer's Name	Catalogue / Brochure Page No. (as indexed by you)	Quantity of Item as per tender With unit	Cost per unit (Inclusive of all Charges) except VAT	VAT	Total value item wise (col. 9 + col. 10)	Total Value in Rs. (col. 8 x col. 11)
1	2	3	4	5	6	7	8	9	10	11	12
Total package Value (in words)											

Note:-

a. The bidding prices shall be for F.O.R. Destination.

b. Rates should be inclusive of all charges (such as charges for Inspection/ Demonstration/ Installation/ Commissioning/ Transportation/ Excise / Custom / Services charges etc. except VAT. VAT should be mentioned separately.

c. Conditional rates will not be accepted.

d. Comparison will be done item wise on the basis of total value as mentioned in column 11.

e. Rates will be finalized for purchase on the basis of individual items having 03 valid rates.

f. Specifications of the items which bidder offers as per the catalogue/ brochure/ Technical details etc. will be considered for comparison and selection. Incomplete details will not be considered for comparison.

g. Price Schedule given in other form will not be accepted and bid will be rejected.

ANNEXURE- II

FORM - A

(To be signed and returned along with the tender)

I/We (Full Name) ……..

Address ……..

……

have read the Terms and Conditions of the tender for the supply of various stores as per your tender notice for supply of Package of _____ for INDUSTRIAL TRAINING INSTITUTES ..... of Chhattisgarh under World Bank assisted VTIP Scheme in Shopping Mode due on _____ and I/we fully accept the Terms and Conditions of the Bid supplied to me / us with the Bidding Documents.

I/We also undertake to permit the World Bank to inspect our accounts and records and other documents related to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

It is further noted that if any manipulation is found at any stage, the tender/ Contract / Supply order shall be rejected and the Principal, ITI ....., Chhattisgarh may take any action against me/us, as she/he deems appropriate.

Details of Earnest Money/bid security in the form of DD/BG (@ 03% of the total tendered value for the package(s) for which bid is submitted) :

(a) DD/BG no. ----------

(b) Value Rs. ----------

(c) Name of Bank ----------

Date: ……..

Signature
(Name & full Address of the firm)

ANNEXURE- III

EARNEST MONEY / BID SECURITY FORM

To: **The Principal, Industrial Training Institute**

_____,

Distt.-_____ Chhattisgarh

WHEREAS ..... (Name of Supplier) hereinafter called "the Bidder" has undertaken, in pursuance of Tender No. ..... dated ..... 20..... to bid in the said tender.

AND WHEREAS it has been stipulated by you in the said Tender notification that the Supplier shall furnish you with a Bank Guarantee by a nationalized bank for the sum specified therein as Earnest Money/ Bid Security for compliance with the Bidders obligations in accordance with the Tender terms and conditions.

AND WHEREAS we have agreed to give the Bidder a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of ..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Terms and Conditions and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

.....

.....

.....

Date.....20.....

Address:.....

.....

.....

.....

(Signature of the Bank)

Note: The bank guarantee (submitted by Indian Bidder) should be executed on stamp paper in accordance with stamp Act. The stamp paper should be in the name of executing bank.

ANNEXURE- IV

PERFORMANCE SECURITY FORM

To. The Principal, Industrial Training Institute

_____,

Distt.-_____ Chhattisgarh

WHEREAS..... (Name of Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract (Notification of Award) No. ..... dated..... 20..... to supply..... (Description of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a nationalized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

.....

.....

.....

Date.....20.....

Address:.....

.....

.....

Note: The Bank Guarantee [submitted by Indian Supplier] should be executed on stamp paper in accordance with stamp paper act. The stamp paper should be in the name of executing bank.

ANNEXURE- V

On Non Judicial Stamp Paper of Rs. 50/-

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2- ej@gekj }kjk lyXu fd; x; lHkh nLrkot lgh g vkj mue fdlh idkj dh dkV&NkV ugh fd;k x;k g ,o xyr tkudkjh ugh nh xb gA

3- ej@gekj }kjk dkef'k;y fcM e lkefx;k d fy; tk Lif'kfQd'ku fn;k x;k g vkj mud lkV e tk Hkh lcf/kr nLrkot] dVykx@ck'kl vkfn lyXu fd; x; g mue fy[kk fooj.k fuekrk }kjk tkjh fd;k x;k g ,o ey :i e g vkj mue dkb Qjcny ;k dkV&NkV ugh fd;k x;k gA

4- ej@gekj }kjk fuekrk l e>@ge tkjh vkFkkjkbt'ku iek.k i= tk fd fcM d lkFk lyXu fd; x; g o lgh ,o ey :i e g vkj mue dkb Qjcny ugh fd;k x;k gA

5- e@ge fn; x; d;kn'kkulkj lkefx;k dk fu/kkfjr le; lhek e Lif'kfQd'ku d vulkj llykb dju d fy; ck/; gA nj gku ;k lkefx;k d Lif'kfQd'ku e vUrj gku ij e>@ge fn; x; d;kn'k dk fujLr fd;k tk ldrk g ,o 'kklu dk gku oky udlku dh Hkjikb ej@gekj }kjk dh tk;xhA

6- ej@gekj }kjk nh xb tkudkjh vlR; ik; tku ij e>@ge ,o gekjh Qe dk fufonk e Hkkx yu l ofpr fd;k tk ldrk gA

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ANNEXURE- VI

SECTION XII

MANUFACTURERS' AUTHORIZATION FORM*****

No. _____ Dated

To

Principal / Head of the Institution
Government ITIs
Under Directorate of Employment & Training
Chhattisgarh

Dear Sir:

Tender no _____ Dated _____

We _____ who are established and reputable manufacturers of *(name and description of goods offered)* having factories at _____ (*address of factory)* do hereby authorize M/s _____ *(Name and address of Agent)* to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB.

No company or firm or individual other than M/s _____ are authorized to bid, and conclude the contract for the above goods manufactured by us, against this specific Tender. *(This para should be deleted in simple items where manufacturers sell the product through different stockists.)*

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

* Modify this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No.4 **(DET 50,ITI 16)**

Precision Mechanical Measuring Instruments

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 16	Vernier caliper (0mm– 150mm)	2

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No- 03 (DET 40, ITI 14)

Volt Meter, Ammeter, Wattmeter, Energy Meter

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT14	Ammeter AC 0 – 25 A With 6" Dial	5
2	BBBT14	Ammeter DC 0 – 5 – 10 – 15 A multi range With 6" Dial	3
3	BBBT14	Ammeter M I , 0 – 1 A With 6" Dial	6
4	BBBT14	Ammeter M.I. 0 – 5 – 10 – 15 A With 6" Dial	5
5	BBBT14	Ammeter MC 0 – 500 mA With 6" Dial	2
6	BBBT14	Ammeter MC 0 – 25 A With 6" Dial	2
7	BBBT14	Ammeter MI type, Rectangular shape, flush mounting,size106x84mm, multi range, 0-5-10 A. With 6" Dial	24
8	BBBT14	DC & AC Ammeter 0-10 mA With 6" Dial	4
9	BBBT14	DC & AC Ammeter 0-100mA With 6" Dial	4
10	BBBT14	DC & AC Ammeter 0-50 micro A With 6" Dial	4
11	BBBT14	DC & AC Ammeter 0-600mA With 6" Dial	4
12	BBBT14	DC & AC Voltmeter 0-12 volt With 6" Dial	8 each
13	BBBT14	DC & AC Voltmeter 0-50 volt With 6" Dial	8 each
14	BBBT14	DC & AC Voltmeter 0-500 volt With 6" Dial	8 each
15	BBBT14	Energy meter 1KW DC	2
16	BBBT14	Energy meter 3 phase 4 wire 5 A (Induction Type)	2
17	BBBT14	Energy meter 3 phase 4 wire, 20 A 400 V.	2
18	BBBT14	Energy meter AC 5A 250V (Induction Type)	2
19	BBBT14	Energy meter single phase 40 A 230 V.	2
20	BBBT14	Milli voltmeter center zero (100 – 0 – 100 mV)	1
21	BBBT14	Power Factor meter Single phase Analog type,5Amp.,220V	2
22	BBBT14	Power Factor Three Phase Analog type	1
23	BBBT14	Voltmeter AC 0 – 150 – 300 – 600 V With 6" Dial	6
24	BBBT14	Voltmeter DC 0 – 150 – 300 – 600 V With 6" Dial	3
25	BBBT14	Voltmeter MC type AC, Rectangular shape, flush mounting, size 106x 84mm, multi range, 0-150-300 V. With 6" Dial	18
26	BBBT14	Watt meter 3 phase 2 element 5A With 6" Dial	10
27	BBBT14	Watt meter single phase 1 KW 50HZ With 6" Dial	3
28	BBBT14	Watt meter single phase 230 V, 3 KW. With 6" Dial	6
29	BBBT14	Watt meter single phase, single element (Flush mounting type) multi Range: 0-750-1500 Watt. rectangular shape. With 6" Dial	24
30	BBBT14	Wattmeter 3 phase 400 V, 2 elements 5A. 50HZ With 6" Dial	10
31	BBBT14	VAR meter 1 KVAR 250 Volt 4 Amp.	1

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No - 06 (DET 59, ITI 21)

Bench Vices, Machine Vice, Pipe bending machine, Pipe Cutter

S. N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT21	Bench vice 150 mm Jaw	4
2	BBBT21	Hand vice 50mm jaw	17
3	BBBT21	Bench Vice 50 mm jaw	10

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No - 07 **(DET 64, ITI 22)**

Power Supply

S.N.	Code No.	Details of Specification from DET	M-3	Total Quantity
1	2	3		4
1	BBBT	Power Supplies 0-12 volts/1 A	8	8
2	BBBT	Power Supplies 0-6 volts/1 A	8	8

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No- 08 (DET 00,ITI 38)

Electrical Items

S.N.	Code No.	Details of Specification	Quantity	Total
1	2	3	4	4
1	**BBBT38**	**Steel Measuring Tape 100cm**	**68**	**68**
2	**BBBT38**	**Steel Rule 300mm**	**85**	**85**
3	**BBBT38**	**Knife double blade electrician 100mm**	**44**	**44**
4	**BBBT38**	**Scriber 150mm x 4mm**	**85**	**85**
5	**BBBT38**	**Heat sink plier 200 mm**	**17**	**17**
6	**BBBT38**	**Plier round nose 100 mm**	**26**	**26**
7	**BBBT38**	**Soldering Iron 25 Watt**	**40**	**40**
8	**BBBT38**	**DeSoldering Pump**	**5**	**5**
9	**BBBT38**	**Plier flat nose 150 mm**	**9**	**9**
10	**BBBT38**	**Side cutting plier 150mm.**	**6**	**6**
11	**BBBT38**	**Tweezer 100 mm**	**5**	**5**
12	**BBBT38**	**Stainless Steel wire Gauge (SWG) (Imperial)**	**7**	**7**
13	**BBBT38**	**Soldering Iron 65 watt, Pencil bit**	**48**	**48**

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No- 09-A (DET 00,ITI 39)

Drill Machines

S.N.	Code No.	Drill Machines	Total Quantity
1	2	3	4
1	**BBBT39**	**Electric Drill machine pillar Type 0 to 12mm capacity 600 Watt to 1000 Watt**	**4**
2	**BBBT39**	**Drill SS twist block 2 mm – 12 mm bit (set)**	**2**
3	**BBBT39**	**Motorised, Bench Grinder Bench 3Φ,1-hp motor both ended with grinding stone**	**3**
4	**BBBT39**	**bench Drill machine up to 12mm,3Φ,1-hp motor**	**1**

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Package No- 11 **(DET 00,ITI**

Mechanical Tools

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT42	Tenon Saw 250mm	68
2	BBBT42	Firmer chisel wood 12mm	53
3	BBBT42	Try square 150 mm	31
4	BBBT42	Blow lamp 1500ml capacity.	11
5	BBBT42	Mallet hard wood 0.5 Kg.	27
6	BBBT42	Plain smooth (Teak wood).width 50 mm cutting blade	14
7	BBBT42	Grease Gun (medium size) 2 kg	10
8	BBBT42	Grease Gun (small size) 1.5 kg	6
9	BBBT42	Hacksaw frame 150 mm. (Solid Frame fixed type)	17
10	BBBT42	Hacksaw frame 200 mm (Solid Frame Adjustable type)	32

11	**BBBT42**	**Bench vice 100 mm jaw.**	**21**
12	**BBBT42**	**Pipe vice 100 mm jaws**	**6**
13	**BBBT42**	**Pipe cutter 1/2" to 3" dia.**	**8**
14	**BBBT42**	**Melting pot Capacity 1 Ltr.**	**7**
15	**BBBT42**	**firmer Chisel wood 25 mm x 6mm**	**10**
16	**BBBT42**	**firmer Chisel wood 19 mm x 6 mm**	**10**
17	**BBBT42**	**Oil Cane 1/2 Ltr.**	**28**
18	**BBBT42**	**Hacksaw frame 300 mm (Solid Frame Adjustable type)**	**17**
19	**BBBT42**	**Plum bob (Brass) 200gms**	**14**
20	**BBBT42**	**Bench Vice150 mm jaw**	**10**
21	**BBBT42**	**Feeler Gauge Stainless steel Std Size 26 Blades**	**4**
22	**BBBT42**	**Gimlet 6mm**	**8**

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Package No- 12 (DET 00,ITI 43)

Meter Items

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT 43**	**Multimeter Digital 3.5 Digit, Battery Voltage 0-9 Volt, manual range selection**	**18**
2	**BBBT 43**	**Earth fault locater, 110-220V, Model Input Voltage 1-8: 19-40 (min-max) VDC; 9-16: 72-250(min-max) VDC; Burden Input 1-8: 0.32VA (1.8kΩ)@24 VDC**	**5**
3	**BBBT 43**	**Magnetic flux meter,Range 500 to 1.999×10^{8} kilo maxwell**	**1**
4	**BBBT 43**	**Watt meter single phase, single element (Flush mounting type) multi Range: 0-750-1500 Watt. rectangular shape. With 6" Dial**	**10**
5	**BBBT 43**	**Watt meter 0-1000 W with 6" Dial**	**3**
6	**BBBT 43**	**Tong tester (0 to 50 A, 0 – 100 A multi range)**	**3**
7	**BBBT 43**	**Oil testing kit. 11-132 KV Range Power Supply 220V AC. 50HZ, 1 phase, Voltage 0-60 K A Resolution 1 KV**	**1**

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Package No- 13 (DET 00,ITI 44)

Voltage Stabilizer/Power Supplies Items

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 44	**Power Supplies 0-30 volts/2 A DC**	8

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Package No - 14 (DET 00, ITI 45)

Signal Generator/Oscilators/CRO

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT	AF Oscilators,16Hz to 2KHz	4
2	BBBT	RF Oscillators,0.5 to 300 MHz	4

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Package No- 15 **(DET 00,ITI 46)**

Crimping Tools variable

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 46	**Crimping tool variable, (Hydrolic) Crimping Size 16-300 mm2, No of Dies-11, Size of Dies-16/25/35/50/70/95/150/185/240/300, Presure ton-15 ton, Max-stroke-22, Wait KG-8000**	2

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Package No - 16 **(DET 00, ITI 47)**

LCD Projector/Charts of different engines/CD (Rewrittable)

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT47	**LCD Projector with screen,** TECHNICAL SPECIFICATION: LCD Projector Specification (1)General- Aspect Ratio 4:3 (Native) 16:9, Brightness (ANSI Lumens) 4500 ANSI Lumens, Contrast Ratio 1000:1, Display Type 0.8'' polysilicon TFT LCD x 3,Resolution (Native) xGA (1024 x 768),Video Compatibility NTSC,PAL,SECAM, Projection Lens F=1.7-2.6, F=21.3, Number of colors 16.77 Million Colors., (2) Connectivity- Inputs- 2 x RGB D- Sub 15 pin, 5 x BNC,1 x Composite,1 x s-vedio,1 x HDMI, 2 x RCA Audio,1 x stereo Mini Jack, Outputs- 1 x RGB D-Sub 15 pin,1 x Stereo Mini Jack.,Audio- 1 x 7W Mono Speaker, Control- 1 x RS-232C,1 x RJ-45 LAN, Split screen- Split screen feature to be present., (3) Operation-Power Supply- 100-120V/200-240V/50-60Hz., Power Consumption- 390W (Normal), 323W (Eco mode), 10W (Time network Monitoring), 0.4W (Standby), (4) Projection Lens- Lamp Type, 275W UHE, Lens Shift-Horizontal: +/- 50%,Vertical : +/-10%,Optical Zoom -1.8:1 (5) Screen Specification- Screen: 12 feet x 9 feet (With stand on both side).	1
2	BBBT47	**Overhead Projector (Visualizer Type) with screen-**nominal projection area 285 x 285 mm, power supply 220 VAC ±25%, 47 to 53 Hz, minimum screen output 3000 lumen, resolving power of lens 6 lines per mm at the centre and 2 lines per mm at the corner. **Features** • low-noise cooling blower Accessories • carrying case with locking arrangement • techistoscope adapter, **Accessories-** • carrying case with locking arrangement • techistoscope adapter	1

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Package No - 17 (DET 00, ITI 49)

Die set/Micrometer

S.N.	Code No.	Details of Specification	Total Quantit
1	2	3	4
1	BBBT 49	Micrometer 0-25mm,(Digital)	7
2	BBBT 49	Micrometer 0-25mm,(Analog)	7

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Package No - 18 (DET 00, ITI 52)

3-phase induction motor (squirrel cage) 3hp

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 52	**3-phase induction motor (squirrel cage) 3hp, 4 pole, RPM 1440**	1

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Package No- 19 **(DET 00, ITI 53)**

Varnish baking oven

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT53**	**Varnish baking oven, cap.45×45×45 cm, 1 phase, 230 Volt, 50HZ, 2000Watt, Tray type**	**1**

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Package No - 20 (DET 00, ITI 54)

Book shelf (Glass panel)

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT 54**	**Book shelf (Glass panel) , size 5.5' X 2.5' X 1.5' Four rack glass penal with lock.**	**6**

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Package No- 21 **(DET 00,ITI 55)**

Ladder (Full Height)

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 55	ledder Alluminium made, Self supported Size (closed 10' and Extened 25') Capacity 150KG	1

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Package No - 22 (DET 00,ITI 56)

U shape /Bar magnet

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT 56**	**U shape/Bar megnet 100mm**	**17**

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Package No - 23 **(DET 00, ITI 57)**

Winding gun

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT 57	**Winding gun for moter winding up to 1HP with 5 Digital Revolution**	2

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Package No - 24 **(DET 00, ITI 58)**

SPLIT A.C.

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT 58**	**Split Air Conditioner 1.5 ton Cap.Rating 5 Star**	3

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PackageNo - 01 **(DET38, ITI 12)**

Circuit breaker

S.N.	Code No.	Details of Specification	Total
1	2	3	4
1	BBBT12	**Air circuit breaker Power rating 5 KVA,Operating Voltage11KV**	1
2	BBBT12	**Oil circuit breaker Power rating 5 KVA,Operating Voltage11KV**	1
3	BBBT12	**VCB Power rating 5 KVA,Operating Voltage11 KV**	1
4	BBBT12	**MCB 230-400 V ac,100A**	1

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Package No - 02 **(DET 39, ITI 13)**

SF6 Circuit breaker

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT13	SF6 circuit breaker,Power rating 5 KVA,Operating Voltage11KV	1

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Package No - 05 (DET 54, ITI 19)

Coil Winding Machine

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**BBBT 19**	**Coil winding machine (Celling Fan) with Adjustable Frame with Counter.**	**1**

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Package No- 10-A (DET 00,ITI 40)

Transformers

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	BBBT40	Auto Transformer, continuous variation, single phase, flush mounting type, 0- 270 V, 5 A.	7
2	BBBT40	Transformer three phase 2.5 KVA 400/ 230V 50 Hz delta and star oil cooled	4
3	BBBT40	Current transformer Ratio50/5,Rated burden 5.00VA,System Voltage 400V	3

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SUMMARY

S.No.	DET/ITI	Package No.	Package Name
1	38/12	1	Circuit breaker
2	39/13	2	SF6 Circuit breaker
3	40/14	3	Volt Meter, Ammeter, Wattmeter, Energy Meter
4	50/16	4	Precision Mechanical Measuring Instruments
5	54/19	5	Coil Winding Machine
6	59/21	6	Vices, Pipe bending machine
7	64/22	7	Power Supply
8	00/38	8	Electrical Items
9	00/39	9-A	Drill Machines
10	00/40	10-A	Transformers
11	00/42	11	Mechanical Tools
12	00/43	12	Meter Items
13	00/44	13	Voltage Stabilizer/Power Supplies Items
14	00/45	14	Signal Generator/Oscilators/CRO
15	00/46	15	Crimping Tools variable
16	00/47	16	LCD Projector/Charts of different engines/CD (Rewrittable)
17	00/48	17	Die set/Micrometer
18	00/52	18	3-phase induction motor (squirrel cage) 3hp
19	00/53	19	Varnish baking oven
20	00/54	20	Book shelf (Glass panel)
21	00/55	21	Ladder (Full Height)
22	00/56	22	U shape /Bar magnet
23	00/57	23	Winding gun
24	00/58	24	Split A.C.

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Package25 **(DET- 35, ITI 10)**

Microprocessor & Bridges

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT10	Microprocessor Trainer kit , Basic 8085 CPU 8 Bit, Micro Processer memory of 64 KB, Ram 8K/32K, Rom 8KB, Timer 16 Bit	1

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Package No 26 **(DET - 37, ITI 11)**

Electronic Trainer Kit

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT11**	**IC Trainer (Digital) ; Input: 1 Phase 220 VAC 50 Hz; Switches : Power ON Switch, Data Switch (High/ Low Logic); Power Supply 0-12V 500mAmp; Voltage Input 0-15 VDC**	**1**

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Package No 27 **(DET- 38, ITI 12)**

Circuit breaker

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT12	SF6 circuit breaker 5KVA, Operating voltage 11 KV	1
2	EAT12	Oil circuit breaker 5 KVA. Operating voltage 11KV	1
3	EAT12	MCB 100 Amp. 500 V	1

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Package No 28 (DET - 39, ITI 13)

SF6 Circuit breaker

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT13**	**SF6 circuit breaker 5KVA, Operating voltage 11 KV 50HZ Rated Normal Current 630 A. Short Circait Braking Current 20KA (Symmetrical)**	**1**

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Package No 29 **(DET - 40, ITI 14)**

Volt Meter, Ammeter, Wattmeter, Energy Meter

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT14	Ammeter AC, 0 –1 A . With 6" Dial	2
2	EAT14	Ammeter M.I. 0 – 5 – 10 – 15 A With 6" Dial	10
3	EAT14	Ammeter MI type, Rectangular shape, flush	8
4	EAT14	Ammeter MI, 0-2 A. With 6" Dial	4
5	EAT14	Energy meter 3 phase 4 wire, 20 A 400 V.	6
6	EAT14	Energy meter single phase 40 A 230 V.	6
7	EAT14	Voltmeter 0-150-300- 600 V. With 6" Dial	4
8	EAT14	Voltmeter M.I. 0 – 150 – 300 – 600 V With 6" Dial	4
9	EAT14	Voltmeter MC type AC, Rectangular shape, flush mounting, size	16
10	EAT14	Watt meter single phase 1 KW With 6" Dial	2
11	EAT14	Watt meter single phase 230 V, 3 KW. With 6" Dial	6
12	EAT14	Watt meter single phase, single element (Flush mounting type)	10
13	EAT14	Wattmeter 3 phase 400 V, 2 elements 3/5 KW.With 6" Dial	6

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Package No 30 **(DET - 52, ITI 18)**

Oscilators / Function Generator

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**ELA18**	**AC Bridge. Maesurment Type : AC 4 leads differential , Resistance; Number of Input : 1, Measurment Unit : Ω, K; Resistance Range 2 mΩ to 2 MΩ; Reading Rate : 10 Reading per second.**	**2**

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Package No 31 **(DET - 54, ITI 19)**

Coil Winding Machine

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**ELA19**	**Coil winding machine (Power tools) with Adjustable Frame. With counter**	**4**

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Package No 33 **(DET- 68, ITI 23)**

Computer Peripherals

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	**4**
1	**EAT23**	**SMPS. 3 Output 220 Watt unit 240 V, AC Supply**	**4**

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Package No-34 (DET-00, ITI 38)

Electrical Items

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT38	Earth Leakage Circuit Breaker for Water Lifting Pump(FHR) 1H.P. 250 V, 25 Amp,1/3 sec Triping time	4
2	EAT38	Steel Measuring Tape 100cm	102
3	EAT38	Steel Rule 300mm	102
4	EAT38	Knife double blade electrician 100mm	75
5	EAT38	Scriber 150mm x 4mm	85
7	EAT38	Tweezer 100 mm	9
8	EAT38	Soldering Iron 65 watt, Pencil bit	8
9	EAT38	Screw driver 100 mm.	5
10	EAT38	Screw Driver Kit (Set of six blades with common insulated handle with neon tester)	10
11	EAT38	Wire stripper 200mm	8
12	EAT38	Soldering Gun 100Watt	6
13	EAT38	Soldering Iron 250 watt.	8
14	EAT38	Voltage sensor (pencil type)/ Electronic Tester	2
15	EAT38	Soldering Iron 125 watt.	8
16	EAT38	Rubber Globes pair. Upto 33 KV	16
17	EAT38	Soldering Iron 75 watt.	4

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Centre Of Excelence-Electrical Sector

Package No-35 **(DET-00, ITI 39)**

Drill Machines

S.N.	Code No.	Details of Specification	Total
1	2	3	4
1	**EAT39**	**hand Drill machine0 to 6mm capacity**	**8**
2	**EAT39**	**Drill SS twist block 2 mm – 12 mm**	**5**
3	**EAT39**	**Motorised, Bench Grinder Bench 3Φ,1-hp motor both ended with grinding stone Size 8"**	**2**
4	**EAT39**	**Electric Drill machine Portable o- 6 mm capacity. 550 Watt**	**4**
5	**EAT39**	**Electric Drill machinePortable o-12 mm capacity. 800 Watt**	**2**

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Centre Of Excelence-Electrical Sector

Package No-36 (DET-00, ITI 40)			
Transformers			
S.N.	**Code No.**	**Details of Specification**	**Total Quantity**
1	2	3	4
1	**EAT 40**	**Auto Transformer, continuous variation, single phase, flush mounting type, 0- 270 V, 5 A.**	**12**
2	**EAT 40**	**Current transformer 50/5 Rated Burden 5.00 VA System Voltage 500V**	**4**
3	**EAT 40**	**Transformer 3-ǿ, 5 KVA, oil cooled, fitted with safety/protection devices.**	**4**
4	**EAT 40**	**Transformer 3-ǿ, 10 KVA, oil cooled, fitted with safety/protection devices.**	**2**
5	**EAT40**	**Auto Transformer Three Phase Input 230V , Output 0-270 V**	**4**

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Package No-37 (DET-00, ITI 41)

Home Appliances

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT41**	**Microwave Oven with Grill Cap. 17 Ltr. Power Wave**	**2**
2	**EAT41**	**Electric Iron (Automatic) 750 W**	**2**
3	**EAT41**	**Electric Iron Thermostatic with Steam 750 Watt**	**2**
4	**EAT41**	**Electric Iron Thermostatic with Steam (Light Weight) 750 watt**	**2**
5	**EAT41**	**Geyser Thermostatic 2Kw, 20 Ltr Cap.**	**2**
6	**EAT41**	**Dish Washer No of Place setting-12 Inside Material-Stainless Steel**	**2**
7	**EAT41**	**Blender 150W Stainless Steel Blade**	**2**
8	**EAT41**	**Washing Machine (Semi Automatic) Cap.6.2 Kg.**	**2**
9	**EAT41**	**Washing Machine (Fully Automatic) Cap.7.2 Kg.**	**2**
10	**EAT41**	**Kitchen Fan Sweep 300 mm, 75Watt**	**2**
11	**EAT41**	**Automatic Water Level Controller Desert Cooler 200W**	**4**
12	**EAT41**	**Toaster 600 Watt**	**2**

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Centre Of Excelence-Electrical Sector

Package No- 38 **(DET-00, ITI 42)**

Mechanical Tools

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT42	Tenon Saw 250mm	102
2	EAT42	Firmer chisel wood 12mm	97
3	EAT42	Blow lamp 1500 ml	4
4	EAT42	Grease Gun (medium size) 2 kg	6
5	EAT42	Grease Gun (small size) 1.5 kg	8
6	EAT42	Hacksaw frame 200 mm. (Solid Frame fixed type)	24
7	EAT42	Bench vice 100 mm jaw.	8
8	EAT42	Melting pot Cap 1Ltr	2
9	EAT42	Oil Cane 1/2 Ltr.	24
10	EAT42	Hacksaw frame 300 mm (Solid Frame Adjustable type)	16
11	EAT42	Gimlet 6mm	92
12	EAT42	Plier round Nose 100 mm.	8
13	EAT42	Allen key. Set of 10 (1/16, 5/64, 3/32, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8)" Box Packing.	2
14	EAT42	Screw Driver heavy duty 200mm insulated thick stem	7
15	EAT42	Snip curved 200 mm.	6
16	EAT42	Spanner Kit (Double Ended). Set of 12 (08mm to 19mm)	6

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Package No-39 (DET-00, ITI 43)

Meter Items

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT43**	**Earth fault locater, 110-220V Model Input Voltage 1-8: 19-40 (min-max) VDC; 9-16: 72-250(min-max) VDC;**	**6**
2	**EAT43**	**Watt meter single phase, single element (Flush mounting type) multi Range: 0-750-1500 Watt. rectangular shape.**	**2**
3	**EAT43**	**Tong tester (0 to 50 A, 0 – 100 A multi range)**	**8**
4	**EAT43**	**Wheat Stone Bridge(Complet with Galvanometer & Battery)**	**3**
5	**EAT43**	**Megger 500 V,**	**6**
6	**EAT43**	**Voltmeter 0- 600 V. With 6" Dial**	**4**
7	**EAT43**	**Megger 2500 V**	**3**
8	**EAT43**	**Earth Resistance tester Range 20 to 2000Ω, Earth Voltage: 0-200V**	**6**
9	**EAT43**	**Oil testing kit. 11-132 KV Range Input voltage 220/230 V , Out put Voltage 0-50,0-60, 0-100 KV**	**2**
10	**EAT43**	**Frequency Meter(digital)**	**4**
11	**EAT43**	**Frequency Meter (Anolog) 55 to 65 HZ**	**4**

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Package No- 40 **(DET-00, ITI 44)**

Voltage Stabilizer/Power Supplies Items

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	5
1	**EAT44**	AutomaticVoltage Stabilizer 1KVA	**4**
2	**EAT44**	Bettery Charger input 230V output 0-35V	**2**
3	**EAT44**	UPS ON Line 5KVA	**4**
4	**EAT44**	UPS Off Line 0.5 KVA	**4**
5	**EAT44**	Inverter 1KVA(MOSFET Tech.)	**4**
6	**EAT44**	Lead Acid Battery 60 AH 12 V	**2**

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Package No - 41 **(DET-00, ITI 45)**

Signal Generator/Oscilators/CRO

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT45**	**Signal Genrator upto 20 MHz**	**4**
2	**EAT45**	**CRO 20MHz, 2-Channel,4-Trace**	**4**

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Govt.I.T.I. Rajnandgaon

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Package No - 42 (DET-00, ITI 46)

Crimping Tools variable

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT46**	**Crimping tool variable, (Hydrolic) Crimping Size 16-300 mm2, No of Dies-11, Size of Dies-16/25/35/50/70/95/150/185/240/300, Presure ton-15 ton, Max-stroke-22, Wait KG-8000**	**5**

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Centre Of Excelence-Electrical Sector

Package No - 43 **(DET- 00, ITI 48)**

Writing white Board

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT48**	**Writing white Board (8x6) feets Standard**	**8**

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Centre Of Excelence-Electrical Sector

Package No - 44 **DET-00, ITI**

Die set/Micrometer

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT49**	**Die set (3,4,5,6,7,8,9,10,12,)mm, set of 9.**	**5**

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Package No - 45 (DET-00, ITI 50)

Transister Tester/IC Tester/LCR Meter

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT50**	**Transister Tester, DC Voltage Range 0-5, 50 Volts; DC Current Range 50mA, Mode Switch: NPN,VOM,PNP; Test Switch: ICEO,ICBO, βCAL,READ β, pwr ICBO, pwr ICEO; Batteries: 4 size AA, 1 size C; Case: Highly Polished Black Bakelite**	**4**
2	**EAT50**	**IC Tester; Test a wide range of Anolog IC's such as ADC, DAC, OpAmp, 555, Transister Arrays, Anolog Switches, Waveform Generator, Line Drivers, Voltages Regulators. Supply Input Voltage : 230 VAC Display: 16x2 Backlite LCD display.**	**4**
3	**EAT50**	**LCR Meter, Maesurment Parameters: Z,Y,Ɵ,R,X,G,B,L,C,Q,D; Measurment Circuit Model: Series and Parallel; Test Frequency 120 Hz,**	**4**

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Package No - 46 **(DET-00, ITI 51)**

Fire Extingguisher CO2 type

S.N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	**EAT51**	**Fire Extingguisher CO2 type 5 Kg.**	**2**

ITI RAJNANDGAON

S.No.	DET/ITI	Package No.	Package Name
1	35/10	25	Microprocessor & Bridges
2	37/11	26	Electronic Trainer Kit
3	38/12	27	Circuit breaker
4	39/13	28	SF6 Circuit breaker
5	40/14	29	Volt Meter, Ammeter, Wattmeter, Energy Meter
6	52/18	30	Oscilators / Function Generator
7	54/19	31	Coil Winding Machine
8	59/21	32	Vices, Pipe bending machine
9	68/23	33	Computer Peripherals
10	00/38	34-A	Electrical Items
11	00/39	35	Drill Machines
12	00/40	36	Transformers
13	00/41	37	Home Appliances
14	00/42	38	Mechanical Tools
15	00/43	39-A	Meter Items
16	00//44	40-A	Voltage Stabilizer/Power Supplies Items
17	00/45	41	Signal Generator/Oscilators/CRO
18	00/46	42	Crimping Tools variable
19	00/48	43	Writing white Board
20	00/49	44	Die set/Micrometer
21	00/50	45	Transister Tester/IC Tester/LCR Meter
22	00/51	46	Fire Extingguisher CO2 type

Office Of The Principal

Govt.I.T.I. Rajnandgaon

Centre Of Excelence-Electrical Sector

Package No 32 (DET - 59, ITI 21)

Bench Vices, Machine Vice, Pipe bending machine, Pipe Cutter

S. N.	Code No.	Details of Specification	Total Quantity
1	2	3	4
1	EAT-3, EAT-5	Hand vice 50mm jaw	20
2	ELA21	Pipe cutter .Size-1/2" to 3" dia	4

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 1 **ITI Package - 1**

Hydraulic and Servo Hydraulic trainer

S.N.	Code No.	Details of Specification	Total
1	IAB179, U530. UIM288, NIM288, UIM287, NIM287	Hydraulic trainer kit with power pack – consists of cylinders, different types of directional control valves, pressure control valves and Non-return valve , one-way flow control valve, pilot operated non-return valve with accessories for construction and	1

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ITI Rajnandgaon

Schedule of Requirements

DET Package - 3 **ITI Package 2**

Hydraulic Items

S.N.	Code No.	Details of Specification	Total
4	PMB 334. U522, UIM275	Hydraulic actuators - Consisting of linear and rotary actuator. Power pack of 20 bar capacity with 3 phase electric motor 0.5 HP capacity, pump etc.	1

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 5 **ITI Package3**

Valves / Valve positioners

S.N.	Code No.	Details of Specification	Total
2	U524, UIM277, NIM277	Valve positioners, booster relays, gland packing etc.	**1**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 6 **ITI Package4**

Hydraulic & Pnumatic Items

S.N.	Code No.	Details of Specification	Total
4	U522, PMB333, UIM275, NIM275	**Pneumatic actuators** 1. Multi Spring Short height Field reversible Pneumatic Actuator Action : Proportionsl. Travel : 20 mm Type : Diaphragm (Nylon impregnated Neoprene Rubber)/(75 X 100 mm) Air Pressure : 3-15 PSI Input air pressure	**1**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 8 **ITI Package6**

Welding Transformer

S.N.	Code No.	Details of Specification	TOTAL
2	RAC101, PDB 161, PMB 82, U349, PMA199, UFIT180, UW57, NFIT180, NW57	Transformer welding set 300 amps- continuous welding current, with all accessories and electrode holder	1

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 12 **ITI Package7**

Temprature calibrator & pyrometer

S.N.	Code No.	Details of Specification	Total
4	IMA69, IM246, UIM258, U510	Radiation pyrometer, Temparature Range : -32 to 600□C Accuracy : □1% of reading or □1□C whichever is greater Repeatability : □ □0.5% or □ □1□C whichever is greater Emissivity : 0.1 to 1.0 by 0.01 D : S : 30 : 1 Response time : □ 0.5 Sec Sighting :	**1**

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ITI Rajnandgaon

Schedule of Requirements

DET Package - 13 **ITI Package8**

Heat exchanger and Temprature Trainers

S.N.	Code No.	Details of Specification	Total
7	U512	Experiment set-up for measuring and controlling of temperature, consisting of measuring, controlling, Indicating, Recording and Final control elements, complete closed loop system	**2**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 15 **ITI Package9**

Thermocouples & Thermometers

S.N.	Code No.	Details of Specification	Total
3	PMB 301, U501, NIM249	Mercury in glass thermometer	**6**
14	U504	Mercury in steel remote indicating thermometers	**1**
15	U508, UIM256, NIM256	Vapour pressure thermometer	**2**
16	U503	Stem and dial type bimetallic thermometer (various ranges)	**3**
21	PMB 302, U502, UIM250, U509, NIM250	Alcohol in glass thermometer	**1**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 41 **Package15**

Pressure Gauge

S.N.	Code No.	Details of Specification	Total
15	U488, UIM222, NIM222	Diaphragm type pressure gauges of various ranges	2

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 50 ITI Package16

Precision Mechanical Measuring Instruments

S.N.	Code No.	Details of Specification	Total
18	PDB115, CE115, U343,	Vernier caliper (0mm– 150mm)	1
32	UFIT90, UIM92, NMT91, NFIT90, NIM92	Vernier bevel protractor with 150 mmblade	2
33	UFIT89, UIM56, NMT90, NFIT89, NIM56	Vernier height gauges 30 cm.	2

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 51 **ITI Package17**

(Surface Plate-V Block-Angle Plate-Universal Scribing Block)

S.N.	Code No.	Details of Specification	Total
36	RAC294, IAB7, PMB192, IAA161, U698, U377,	V block pair with clamp 75x38 mm.	4
41	UFIT24, UDM21, UIM21, NDM21, NFIT24, NIM21	Universal scribing block 25 cm	4

Office of the Principal

ITI Rajnandgaon

Schedule of Requirements

DET Package - 92 **ITI Package 28**

Instructor Furniture

S.N.	Code No.	Details of Specification	TOTAL
1	PMBF1, ITBF1, ELEF1, U601, UFIT109, UDM101, UELE156, UW78, ULIB57, UCOPA18, UDMC44, NDM101, NMM101, NELE156, NFIT109, NW78	Instructor table 1200 x 760 x 760 mm.	**2**
2	PMBF2, ITBF1, ELEF1, U602, U436, UFIT110, UW80, UELE157, UDM111, UDMC45, ULIB58, UCOPA18, NDM111, NELE157, NFIT110, NW80	Instructor chair Size : 570 x 580 x 880	**2**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 93 **ITI Package 29**

Steel Furniture

S.N.	Code No.	Details of Specification	Total
1	PMBF6, ITBF7, ELEF6, PDBF5, U193, U672, U726, UFIT107, UW84, UDM92, UDM12, UDCM12, UCOPA17, NDM92, NMT255, NMM92, NFIT107, NW84	Trainees Steel locker with eight compartments (H 1800 x W 900 x D 380 mm)	**2**
2	PMBF7, ITBF8, ELEF7, PDBF9, U673, U732, U137m UIM302, ULIB62, UIM303, UFIT106, UDM99, UELE155, UFIT108, UELE160, UW77, UDM94, UFIT131, NDM99, NMM99, NELE155, NIM302, NIM303, NFIT106	Steel almirah 1980x900x450mm. Made of 22 Gauge CR Sheet.	**2**
10	NDM93, NELE160, NMM93, NFIT108, NFIT131, NW77	Metal rack 180*150*45 cm	**2**

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 102 **ITI Package 32**

DE Spanner, Ring Spanner, Plier, Wrenches, Chisel, Hammer, Punch

S.N.	Code No.	Details of Specification	Total
27	NMT268, NDM8, NMM8, NELE2, NDCM8, NFIT61, NIM66	Combination plier 150 mm	1
55	NIM32, NFIT11	Hammer ball pein 450 gm. With handle	4
56	NFIT12	Hammer ball pein 220 gm. With handle	17
67	NW7, NFIT79	Chisel cold flat 19 x 200 mm	8
81	NFIT190	Chiping Hammer	2

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 103 **ITI Package 33**

Cylinder Gauge, Telescopic Gauge, Filler gauge, Ring gauge, Slip gauge

S.N.	Code No.	Details of Specification	Total
3	NMT101, NFIT150	Slip gauge metric set of 87 pcs.	1
12	NMT115, NELE60, NFIT92, NIM59, NFIT144	Standard Wire gauge set	1
17	NFIT154	Telescopic gauge up to 150 mm set	1
18	NFIT153	Plug gauge single three ended 5-55 by 5 mm set of 11 pcs.	1

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 104 **ITI Package 34**

Screw Driver, Punch, Steel rule, Scraper, Engineer Square, Calipers

S.N.	Code No.	Details of Specification	Total
9	NMT14, NDM3, NMM3, NIM46, NFIT8	Punch center 100 x 10 mm	2
23	NDM4, NMM4, NDCM4, NIM1, NFIT1	Steel rule 15 cm english & metric graduation	2
24	NELE12, NMT1, NDM13, NMM16, NFIT19, NW20	Steel rule 30 cm english & metric graduation	4
36	NELE19, NMM23, NDM20, NFIT7, NW18	Scriber 150 mm x 0.4 mm (Knurled center position)	17
53	NIM13, NFIT2	Try square hardend blade 100 mm	4
68	NFIT16	Hacksaw frame fixed 30 cm	2

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 106 **ITI Package 35**

Welding Related Item

S.N.	Code No.	Details of Specification	Total
8	NMT209, NFIT191, NW1	Welding gloves pair (leather)	2
9	NMT210, NFIT195	Goggles (4A) for gas welding	1
18	NFIT194	Welding torch Es 5 to 10 nozzels	1
20	NFIT197, NW51	Tip cleaner set	10

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 107 **ITI Package 36**

Miscellinius Item

S.N.	Code No.	Details of Specification	Total
1	NMM55, NFIT17, NW5, NIM18	Safety goggles	10
23	NMT67, NFIT68, NIM82	Magnifying glass 75 mm	1
66	NFIT156, NIM50	Sine bar 125 mm	1
76	NFIT135, NW2	Leather apron	1

Office of the Principal
ITI Rajnandgaon

Schedule of Requirements

DET Package - 112 **ITI Package 37**

Micrometers

S.N.	Code No.	Details of Specification	Total
14	NMT96, NDM48, NMM49, NFIT84, NIM55	Micrometer 25-50 outside	**1**
19	NMT96, NDM47, NMM50, NELE34, NFIT83, NIM54	Micrometer out side 0-25mm	**2**

Principal Industrial Training Institute

Rajnandgaon

Details of Proposed Procurement under Shopping Mode

DET Package No.	ITI Package No.	Package Name
1	1	Hydraulic and Servo Hydraulic trainer
3	2	Hydraulic Items
5	3	Valves / Valve positioners
6	4	Hydraulic & Pnumatic Items
8	6	Welding Transformer
12	7	Temprature calibrator & pyrometer
13	8	Heat exchanger and Temprature Trainers
15	9	Thermocouples & Thermometers
41	15	Pressure Gauge
50	16	Precision Mechanical Measuring Instruments
51	17	Surface Plate-V Block-Angle Plate
92	28	Instructor Furniture
93	29	Steel Furniture
102	32	DE Spanner, Ring Spanner, Plier, Wrenches, Chisel, Hammer, Punch
103	33	Cylinder Gauge, Telescopic Gauge, Filler gauge, Ring gauge, Slip gauge
104	34	Screw Driver, Punch, Steel rule, Scraper, Engineer Square, Calipers
106	35	Welding Related Item
107	36	Miscellinius Item
112	37	Micrometers