OFFICE OF THE PRINCIPAL GOVT I.T.I. BASTAR
DISTT. - BASTAR, CHHATTISGARH

Phone No. 07782-262510, E-mail – itibastar@rediffmail.com

TENDER NO.–BASTAR/WB/VTIP/JANUARY2014/**2912**/BASTAR, DATED- 03-01-2014

NOTICE INVITING TENDER

Principal, **ITI BASTAR**, 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 **"Industrial Automation** Sector **& upgrade trades Fitter, Electrician, Mechanic Motor Vehicle,Wireman"** 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 or www.itibastar.com** from **03 JANUARY 2014**. 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 BASTAR**, Chhattisgarh on or before **03 FEBRUARY 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. BASTAR
CHHATTISGARH

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TENDER NO.–BASTAR/WB/VTIP/JANUARY 2013/**2912**/ BASTAR, DATED- 03-01-2014

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 proforma 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.
    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 which is submitted in the bid.
    10. Filled Manufacturer's Authorization Form as given in SECTION XII (Annexure-VI) for all the quoted items.
    11. Package wise Commercial Bid in prescribed format (i.e. Annexure-I) should be submitted (separately for each package) in individual envelope along with the soft copy in CD (MS-Excel).
    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. Either 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) must be

submitted necessarily. 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. Bank Draft should be in favour of Principal, ITI **BASTAR** payable at **BASTAR**, 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 **BASTAR** for 3% of total tendered value through a bank guarantee by a nationalized bank in the prescribed proforma 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 **BASTAR** 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 **BASTAR** Chhattisgarh for an **amount of 5%** of the contract value through a Bank Guarantee by a nationalized bank, in the prescribed proforma 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 **BASTAR** 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 **BASTAR** 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.cg.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. BASTAR
Distt. BASTAR (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**
BASTAR, Distt.- BASTAR (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
BASTAR, Distt.- BASTAR (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/-

निविदाकर्ता द्वारा Bid के साथ दिये जाने वाला
शपथ–पत्र

निविदाकर्ता फर्म मेसर्स ..... की ओर से मुझे/हमें अधिकृत किया गया है और मैं/हम निम्नलिखित कथन शपथपूर्वक कहता हूँ/कहते हैं कि :–

1. मैंने/हमने निविदा की सारी शर्तें ध्यानपूर्वक पढ़ी हैं और उनसे सहमत हैं तथा उन्हें मानने के लिये वचनबद्ध हैं।
2. मेरे/हमारे द्वारा संलग्न किये गये सभी दस्तावेज सही है और उनमें किसी प्रकार की कांट–छांट नहीं किया गया है एवं गलत जानकारी नहीं दी गई है।
3. मेरे/हमारे द्वारा कामर्शियल बिड में सामग्रियों के लिये जो स्पेशिफिकेशन दिया गया है और उनके सपोर्ट में जो भी संबंधित दस्तावेज, कैटलॉग/ब्रोशर्स आदि संलग्न किये गये हैं उनमें लिखा विवरण निर्माता द्वारा जारी किया गया है एवं मूल रूप में हैं और उनमें कोई फेरबदल या कांट–छांट नहीं किया गया है।
4. मेरे/हमारे द्वारा निर्माता से मुझे/हमें जारी आथॉराइजेशन प्रमाण पत्र जो कि बिड के साथ संलग्न किये गये हैं वे सही एवं मूल रूप में हैं और उनमें कोई फेरबदल नहीं किया गया है।
5. मैं/हम दिये गये कयादेशानुसार सामग्रियों को निर्धारित समय सीमा में स्पेशिफिकेशन के अनुसार सप्लाई करने के लिये बाध्य हैं। देर होने या सामग्रियों के स्पेशिफिकेशन में अन्तर होने पर मुझे/हमें दिये गये कयादेश को निरस्त किया जा सकता है एवं शासन को होने वाले नुकसान की भरपाई मेरे/हमारे द्वारा की जायेगी।
6. मेरे/हमारे द्वारा दी गई जानकारी असत्य पाये जाने पर मुझे/हमें एवं हमारी फर्म को निविदा में भाग लेने से वंचित किया जा सकता है।

दिनांक .....

हस्ताक्षर : .....

नाम : .....

धारित पद : .....

फर्म का नाम : .....
(सील सहित)

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 Industrial Training Institute
Bastar (C.G.)
Details of Proposed Procurement under Shopping Mode

Sl. No.	Package No.	Package Name	Remarks
1	53	Steel Rule,Divider Spring, Gauge imperial,Verniar caliper,Glass magnifying	
2	54	Try Squatr, Marking Block, Scriber block, Outside & Inside Divider Calliper, Pipe Cutter,Chisel, Pincer, Steel Tape	
3	55	File flate,File Knife edege,Crad File,Hand File,Drift copper,Soldring iron	
4	56	Hexa frame,Safety Gaggles,Dot Punch,punch figure, Centre punch	
5	57	Drill Machine bench, Forge Portable , Grinding machine ,Twist Drill metric , Motorised Bench Grinder	
6	58	Hammer smith, Tongs Flat, Fuller top, Anvil, Rake, Pocker,Leather apron, Mallet Hammer,Screw Driver	
7	59	Micromtetr, Set combination, Out Side Micrometer	
8	60	Pliers Combination , Iron Soldering, Blow lamp, Spanner white worth, Box Spanners set,Clamp,Wire stripper,Circlip plier	
9	61	Hand Reamer adjustable cover max, Scraper flat ,Chisel cold flate , Spanner, Allen key set	
10	62	Commpression Guage,Stone corrborandum, Fire Extinguisher, Tackometer,Jack hydrolic, Air break assembly , Valve spring , Puller set, Hot punch, Mallet hard wood	
11	63	Digital Multi Meter, A.C Voltmeter, Power Factor Meter, Tachometer, DC Power Supply, Oil Testing Kit, Earth Megger	
12	64	Current transfermer, Limit Switch , Load Bank , Electrical Machine Trainer, Stepper Motor, Single phase Transformer	
13	65	Inverter, Rheostar, Domestic Appliances, Relays, Megnet Horse shoe, Starters for 2 to 5 H.P. A.C Motors	
14	66	Diesel Generator set,Air Breaker	
15	67	Oscilloscope, functon Linear, Thyristor	
16	68	Computer Accessories	
17	69	Strain gauge, Load Cell	
18	70	Instractor Table, Glass door, Computer Table, Chair for Library	
19	71	D.C Compound, Capacitor Motor, Capacitor Motor, Star Delta Starter, D.O.L. Starter	

Principal
Industrial training Institute
Bastar Chhattisgarh

INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)

Schedule of Requirements

Package - 53

Steel Rule,Divider Spring, Gauge imperial,Verniar caliper,Glass magnifying

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Steel Rule 15 cm with metric graduation	34	34
2	U F/M	Steel Rule 30 cm to read metric	2	2
3	U F	Steel rule 60 cm to read metric	8	8
4	U M	Steel rule15 cm English & metric	34	34
5	U M	Divider Spring joint 150 mm	2	2
6	U M	Filler guage 20 Blade mertic	29	29
7	U F	Gauge imperial sheet	2	2
8	U M	Verniar caliper 250mm inside & outside and dept	1	1
9	U F	Glass magnifying 7cm	4	4

Principal
Industrial training Institute
Bastar Chhattisgarh

INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 54

Try Squatr, Marking Block, Scriber block, Outside & Inside Divider Calliper, Pipe Cutter,Chisel, Pincer, Steel Tape

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Try Squatr 10 cm blad	10	10
2	U F	Marking Table 91x91x122 cm	1	1
3	U M	Enginering Try Square 150 mm Knife edge blade	2	2
4	U M	Scriber block universal	2	2
5	U M	Marking Table 90* 60*90 cm hight	2	2
6	U M	Surface Plate 60*60 cm	2	2
7	U M	V block with clamp 75*38 mm set of pair	4	4
8	U M	Trey cleaning 45*30 cm	15	15
9	U E	Try Square 150 mm blade	4	4
10	U E	Outside & Inside Divider Calliper	01 No. each	01 No. each
11	U E	Tweezers 100 mm	4	4
12	U E	Snip Straight & Bent 150 mm	02 No. each	02 No. each
13	U E	D.E. Metrick Spanner	2	2
14	U E	Drill hand brace 0 to 100 mm	4	4
15	U E	Plane, smoothing cutters 50 mm	4	4
16	U E	Gauge, wire imperial	2	2
17	U E	Hand Vice 50 mm jaw	4	4
18	U E	Pipe Cutter to cut pipes upto 5 cm. dia	3	3
19	U E	Pipe Cutter to cut pipes above 5 cm dia	2	2
20	U E	Stock and Dies conduit	1	1
21	U E	Chisel 25 cm & 6 mm	2 No each	2 No each
22	U E	Gimlet 6 mm.	34	34
23	U E	Brawdal	34	34
24	U E	Scriber (Knurled centre position)	34	34
25	U E	Pincer 150 mm	30	30
26	U E	Steel Tape, 10 m length	34	34

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 55

File flate,File Knife edege,Crad File,Hand File,Drift copper,Soldring iron

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	File flat Second cut 25 cm	4	4
2	U F	File flat Smooth 25 cm	15	15
3	U F	File wrding 15 cm smooth	6	6
4	U F	File Knife edege 15 cm smooth	4	4
5	U F	File Cant saw 15 cm smooth	8	8
6	U F	File Feather edge 15 cm smooth	8	8
7	U F	File Square 15 cm Second cut	8	8
8	U F	File Trainguler 20 cm Second cut	8	8
9	U F	File Flat 30 cm Second cut	8	8
10	U F	File Flat 25 cm Bastard	8	8
11	U F	File Needle set of 12	1	1
12	U F	File Half round 25 cm Bastard	8	8
13	U F	File Half round 25 cm Second cut	4	4
14	U F	File round 30 cm Bastard	8	8
15	U F	File Hand 15 cm Second cut	12	12
16	U F	Crad File	11	11
17	U M	Hand File 20 cm Second cut	2	2
18	U M	File flat Bastard 35 cm	2	2
19	U M	File flat Second cut 25 cm	2	2
20	U M	File flat smooth 20 cm	2	2
21	U M	File flat safe egge 20 cm smooth	4	4
22	U M	File Trainguler 15 cm Second cut	2	2
23	U M	File half 20 cm Second cut	2	2
24	U M	File Square 30 cm rought	4	4
25	U M	Sneep striate size 250mm	2	2
26	U M	Drift copper 10mm dia * 50mm	4	4
27	U M	Lifter valve spring	1	1
28	U M	Tool Valve Grainding, suction type (consumable tool) Oil cane .5 litre	11	11
29	U M	Saldring iron 120 watts	2	2
30	U M	Soldring iron copper 225gm fire handing size 150mm to 200mm	4	4
31	U F	Half Round Second cut 15 cm	19	19
32	U E	File round 200 mm 2nd cut	1	1
33	U E	File flat 250 mm bastard	4	4

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 56

Hexa frame,Safety Gaggles,Dot Punch,punch figure, Centre punch

S.N.	ITI/ITEM Code No	Details of Specification	Nos.	Total
1	U F	Hacksaw frame Fixed 30 cm	10	10
2	U F	Safety Gaggles	34	34
3	U F	Dot Punch 10 cm	34	34
4	U M	Hacksaw frame for 30 cm blade	4	4
5	U M	Punch hollow set of 6 size 6,7,8,9,10.5 & 12	1	1
6	U M	punch figure set of 3mm	2	2
7	U M	Punch latter set of 3 mm	1	1
8	U M	Hand vice 37 mm	2	2
9	U M	Centre punch 10mm dai into 100mm	2	2
10	U M	Prick Punch 15mm	4	4
11	U F	Prick Punch 6mm	10	10

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 57

Drill Machine bench, Forge Portable , Grinding machine ,Twist Drill metric , Motorised Bench Grinder

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Drill machine bench sensitive 0-12 mm cap motorized with chuck & key	1	1
2	U F	Forge Portable hand blower 38 cm to 45 cm	1	1
3	U F	Grinding machine (general purpose) D.E. pedestal with 20 cm dia wheels rough & smooth with twist drill grinding attchtment	1	1
4	U M	Twist Drill metric 1 mm step 3 mm to 12 mm	1	1
5	U E	Motorised Bench Grinder	1	1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 58

Hammer smith, Tongs Flat, Fuller top, Anvil, Rake, Pocker,Leather apron, Mallet Hammer,Screw Driver

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Hammer smith	2	2
2	U F	Tongs Roving 350 mm	2	2
3	U F	Tongs Flat 350 mm	2	2
4	U F	Smith square 45 cm into 30 cm	1	1
5	U F	Cold set rodded 25x200 mm	2	2
6	U F	Hot set rodded 25x200 mm	1	1
7	U F	Swage top & bottom 12 m / 19 each	1	1
8	U F	Flatters (rodded) 55 mm square	2	2
9	U F	Fuller top & bottom 6mm 9mm (pair)	2	2
10	U F	Anvil 50 kg	1	1
11	U F	Anvil stand	2	2
12	U F	Shovel	2	2
13	U F	Trammer 30 cm	1	1
14	U F	Rake	2	2
15	U F	Pocker	2	2
16	U F	Leather apron	2	2
17	U F/M	Mallet Hammer (Woodan)	2	2
18	U F	Snips straight 25cm	2	2
19	U F/M	Setting Hammer	2	2
20	U F	Plinishing Hammer	2	2
21	U F	Snip Bent 25cm	2	2
22	U F	Stake hatchet	2	2
23	U F	Stake grooving	2	2
24	U M	Ball Peen hammer 0.7 kg	32	32
25	U M	Screw Driver 30 cm * 9 mm blade	4	4
26	U M	Screw Driver 20 cm * 9 mm blade	6	6
27	U M	Philips head Screw Driver set of 5 Pcs. 100 mm to 300 mm size	6	6
28	U M	Hammer Ball peen .5 kg	2	2
29	U M	Hammer capper 1 kg with handle	2	2
30	U M	Screw Driver 15cm blade	4	4
31	U M	Hammer plainshing	4	4
32	U M	Trammel 30 cm	2	2
33	U E	Hammer Exeter Type 0.40 kg	4	4

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 59
Micromtetr, Set combination, Out Side Micrometer

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Micromtetr 0-2.5 mm out side	3	3
2	U F/M	Micromtetr 25-50 mm out side	6	6
3	U F/M	Micromtetr 0-25 mm out side	1	1
4	U F/M	Micromtetr 50-75 mm out side	1	1
5	U F	Set combination 30 cm	2	2
6	U M	Micromtetr outside 75-100mm	2	2
7	U M	Micromtetr inside 50-75 mm and 150 mm to 25mm to 50mm with extation rod.	1	1
8	U E	Out Side Micrometer 0 to 25 mm	1	1
9	IABW-46	Micrometer 50 - 75 mm Outside	4	4

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 60

Pliers Combination , Iron Soldering, Blow lamp, Spanner white worth, Box Spanners set,Clamp,Wire stripper,Circlip plier

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F/M	Pliers combination 15 cm	12	12
2	U F	Soldering Iron 350 gm	2	2
3	U F	Blow Lamp 0.55 liters	2	2
4	U E/M	Blow Lamp 0.5 ltr	5	5
5	U F	Spanner white worth D.E. - 6-26 mm set of 10 pcs.	6	6
6	U F	Spanner adjustable 15cm	4	4
7	U F	Interchangeal tereacheet Socket set with a 12mm driver. Sized. 10-32 mm set of 18 socket & attachments.	1	1
8	U F	Box Spanners set of 6-2.5mm set of 8 with tommy bar.	1	1
9	U F	Clamp toolmaker 5cm and 7.5 cm set of 2	2	2
10	U F	Clamp " C" 5cm	2	2
11	U F	Clamp "C" 10cm	2	2
12	U F	Stone Corborandun 15cm into 5cm into 5cm into 4	2	2
13	U F	Can oil 0.5 lifre	1	1
14	U M	Spanner D.E. set of 12 pcs. (10mm to 32mm)	33	33
15	U M	Ring Spanner 12 Pcs. 10mm to 32 mm set	4	4
16	U M	Morse socket MT- 0-1, 1-2 and 2-3	2	2
17	U E	Crimping Tool	2 sets	2 sets
18	U E/ IAB-BW 67	Wire stripper 20 cm	6 Nos	6 Nos
19	U E	Melting Pot	1 No	1 No
20	U E	Ladel	1No	1No
21	IAAELE-71	Conduit die set complet 1/2", 1" 1 1/4" On set	01set	01 set
22	U W	Spanner Set of 6 18x19, 20x22, 21x23, 24x27, 25x27, 30x32 Double ended	2 set	2 set
23	U M	Circlip plier External & internal 115 mm & 200mm	7	7

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 61

Hand Reamer adjustable cover max, Scraper flat ,Chisel cold flate , Spanner, Allen key set

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U F	Hand Reamer adjustable cover max 9,12,18 mm set of 3	2 set	2 set
2	U F	hand Reamer taper4-9mm set of 6 OR 4-7 mm set of 4	2 set	2 set
3	U F	Reamer parallel 12-16mm set of 5	1 set	1 set
4	U F	Scraper flat 15cm	13	13
5	U F	Scraper 3 conor 15cm	13	13
6	U F	Scraper half round 15cm	3	3
7	U F	Chisel cold 9mm cross cut 9mm diamond.x 200 mm Length	12	12
8	U F	Chisel cold flat 200x19 mm	16	16
9	U F	Chisel cold 9mm round noze x 200 mm.	16	16
10	U F	Extractor stud EZY - out .	1	1
11	U M	Chisel cold flat 19 mm x 200 mm	2	2
12	U M	Chisel cross cut 200 mm x 6 mm	2	2
13	U M	Spanner double ended set of 12 metric sizes 6 to 32 mm	2	2
14	U M	Spanner double enede Half - set of 7 metric sizes 6 to 17mm	2	2
15	U M	Double Open ended ignition set of 5 (0 to 9 mm)	8	8
16	U M	Spanner adjustable 20 cm	1	1
17	U M	Spanner Ring off-set set of 6 (SAE)	2	2
18	U M	Spanner Socket 6 mm to 32mm socket complete set	2	2
19	U M	Double open enden tappet Spanner.	2	2
20	U M	Allen key set of 12 size of 2 mm to 14mm	7	7

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 62

Commpression Guage,Stone corrborandum, Fire Extinguisher, Tackometer,Jack hydrolic, Air break assembly , Valve spring , Puller set, Hot punch, Mallet hard wood

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U M	Commpression Guage to read 1706 kg /Sq.cm	2	2
2	U M	Vaccumm gauge 0 to 75 cm	2	2
3	U M	Stone corrborandum 15*53.75 rough & smooth	4	4
4	U M	Cyling dial gauge	1	1
5	U M	Torque wrench (0 to 675 kg-meter) set of 3	1	1
6	U M	Filling jig for adjastable piston ring gap	1	1
7	U M	Fire Extinguisher	4	4
8	U M	Fire bracket with strend	2	2
9	U M	Tackometer	1	1
10	U M	Jack hydrolic HI-lift type (trolly type)	4	4
11	U M	Tester Sparking plug' NEON type	1	1
12	U M	Wheel aligment guage magnetic type with turn table	1	1
13	U M	Sectionised engine gear box and differential montued on chassis	1	1
14	U M	Break assembly master sylender wheel cylinder and servo	2	2
15	U M	Vaccum asseted hydraulics brake assembly with vacuum booster	2	2
16	U M	Air break assembly	2	2
17	U M	Break liner riveting machine	2	2
18	U M	Cluteches, different type such as cone type disc type diapharm type etc.	2	2
19	U M	Axle gear boxes steering boxes fount axle, axle assembly independent front wheel pspring assembly. Synchromesh gear box assembly, live front axle assembly transfer case.	2	2
20	U M	Full Floating axle and semifloating axle assembly	2	2
21	U M	Steering assembly - rack and pinion type	2	2
22	U M	Steering assembly - power type	2	2
23	U M	Valve spring compression	2	2
24	U M	Corborator Reapair Tool Kit	1	1
25	U M	Puller set stearing wheel	1	1
26	U M	Puller set universal bearing And bushes	1	1
27	U M	Hot punch	2	2
28	U M	Valve key inserter	2	2
29	U M	Wall charts (driving instrucsion)	2	2
30	U M	Connecting rod aligment Fixture	2	2
31	U E	Scissors blade 150 mm	4	4
32	U E	Chisel Cold flat 12 mm	2	2
33	U E	Mallet hard wood 0.50 kg	4	4

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 63

Digital Multi Meter, A.C Voltmeter, Power Factor Meter, Tachometer, DC Power Supply, Oil Testing Kit, Earth Megger

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U E	Digital Multi Meter	6	6
2	U E	A.C. Voltmeter M.I. 0-500 V A.C.	1	1
3	U E	Milli Voltmeter centre zero 100-0-100 m volt	1	1
4	U E	D.C. Milliammeter 0-500 m A	1	1
5	U E	Ammter MC 05 A, 0-25 A	01 each	01 each
6	U E	A.C Ammeter M.I. 0-5A, 0-25 A	01 each	01 each
7	U E	Kilo Wattmeter 0-1-3 Kw	1	1
8	U E	A.C Energy Meter, Single phase 5amp. Three Phase 15 amp	01 each	01 each
9	U E	Power Factor Meter	1	1
10	U E	Frequency Meter	1	1
11	U E	Tachometer with watch	1	1
12	U E	Tong Tester/ Clamp Meter 0-100 amp. AC	1	1
13	U E	Megger 500 Volts	1	1
14	U E	Knife Switch DPDT fitted with fuse terminals 16 amp	4	4
15	U E	Knife Switch TPDT fitted with fuse terminals 16 amp	4	4
16	U E	DC Power Supply	1	1
17	U E/W	Flux meter	2	2
18	U E	Laboratory Type Induction Coil	1	1
19	U E	Oil Testing Kit	1	1
20	U E	Ohm Meter; Series Type & Shunt Type	2 No each	2 No each
21	U E	Hydrometer	1 set	1 set
22	U W	Multi Meter	2	2
23	U W	Tachometer digital type (0-600 RPM)	1	1
24	U W	Earth Megger	2	2
25	U W	Single Phase K.W. H. Meter analog 5A 250 A.C	2	2
26	U W	Single Phase K.W. H. Meter Digital 5A 250 A.C	2	2
27	U W	3Phase KW Meter 15 A 440 V	1	1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 64

Current transfermer, Limit Switch , Load Bank , Electrical Machine Trainer, Stepper Motor, Single phase Transformer

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U E	Current Transformer (CT) 0 to 5 amp.	1	1
2	U E	Potential Transformer (PT) 0 to 110 V	1	1
3	U E	Growler inside	1	1
4	U E	Contactor & auxiliary contacts 3 phase, 440 Volt, 16 amp	1 each	1 each
5	U E	Contactor & auxiliary contacts 3 phase, 440 Volt, 32 amp	1 each	1 each
6	U E	Limit Switch	1	1
7	U E	Rotary Switch 16 A	1	1
8	U E	Load Bank 5 KW (Lamp/heater Type)	1	1
9	U E	Brake Test arrangement with two spring balance 0 to 25 kg rating	1	1
10	U E	Electrical Machine Trainer – Suitable for demonstrating the construction and functioning of different types of DC machines and AC machines (single phase and three phase). Should be fitted with friction brake arrangement, dynamo meter, instrument panel and power supply units Motor-Generator (AC to DC) consisting of :	1	1
11	UE	Stepper Motor with Digital Controller	1	1
12	UE	Shaded Pole Motor	1	1
13	UE	Single phase Transformer, core type, air cooled Three phase transformer, shell type oil cooled Variable Auto Transformer	1each	1 each

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 65

erter, Rheostar, Domestic Appliances, Relays, Megnet Horse shoe, Starters for 2 to 5 H.P. A.C Mot

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U E	Inverter- 1 KVA with 12 V Battery, Input- 12 volt DC, Output- 220 volt AC	1	1
2	U E	Voltage Stabiliser, Input: 150 – 230 volt AC, Output: 220 volt AC	1	1
3	U E	Rheostat 0 -1 Ohm, 5 Amp 0 -10 Ohm, 5 Amp 0- 25 Ohm, 1 Amp 0- 300 Ohm, 1 Amp	01 No. each	01 No. each
4	U E	Domestic Appliances – a. Electric Hot Plate 1500 watt b. Electric Kettle, 100 watts c. Electric Iron 1200 watts d. Immersion Heater 500/100/2000 watt e. A.C. Fan f. Geyser (Storage type) 15 ltr minimum g. Mixture & Grinder	01 No. each	01 No. each
5	U E	Relays- a. Cut out b. Reverse current c. Over current d. Over load e. Under voltage	01 No. each	01 No. each
6	U E	Starters for 2 to 5 H.P. A.C Motors- a. Resistance type starter b. Direct on line Starter c. Star Delta Starter- manual, semi-automatic and d. Auto Transformer type	01 No. each	01 No. each
7	U E	Bath Impregnating	1	1
8	IAAEL E - 74	Megnet Horse shoe	4	4
9	U E	Wheat Stone Bridge with galvanometer & battery	1	1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 66
Diesel Generator set,Air Breaker

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U E	Diesel Generator Set with change over switch, over current breaker and water-cooled with armature, star-delta connections 5 KVA	1	1
2	U E	Air Circuit Breaker 5 KVA	1	1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 67
oscilloscope, functon Linear, Thyristor

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U E	Oscilloscope Dual Trace,30 MHZ	1	1
2	U E	Function Generator Discrete Component Trainer	1	1
3	U E	Linear I.C.Trainer	1	1
4	U E	Digital I.C.Trainer	1	1
5	U E	Thyristor/IGBT controlled D.C. motor drive with tacho-generator feedback arrangement, 1 HP	1	1
6	U E	Thyristor/IGBT controlled A.C. motor drive with VVVF control , 3 Phase, 2 HP	1	1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 68
Computer Accessories

S.N.	ITI/ITEM Code No.	Details of Specification	Bastar (B)	Bastar (A)	Total
1	IABCA-2 IABPRO-31 IAAPLC-31	Colour printer (inkjet/Laser With 1200dpi 32 MB RAM	8 4	4	16
2	IABCA-8	INTERNET CABLE , WIRE STRIPPER, CRIMPINGTOOL	4		4
3	IABCA-9	Antivirus for standalone and network (latest version) with Licence	4		4
4	Iabca-10	PC Diagnostic software (latest Version) With Licence	1		1
5	U W	UPS 500 V A with battery 230 V	1		1

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 69
Strain gauge, Load Cell

S.N.	ITI/ITEM Code No.	Details of Specification	Bastar (B)	Bastar (A)	Total
1	IABPRO-36	Strain gauge with signal Conditioning	2		2
2	IABPRO-37	Load Cell With Signal	2		2

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package - 70

Instractor Table, Glass door Cabinate for Library, Computer Table, Computer Chair Steel Almirah, Bench, Office Table & Chair Lockers etc.

S.N.	ITI/ITEM Code No.	Details of Specification	Bastar (B)	Bastar (A)	Upgrade trade	Total
1	COE+ UE	Instructor Table 5'x3'x 30"	6	4	2	12
2	COE+ UE	Rewalving Instractor Chair (standard size)	8	4	4	16
3	COE STR. UE	Metal Rack 5'x100 cmx150 cmx45 cm	12	6	4	22
4	COE STR.+ UE	Steel Almirah 2.5 m x 1.20mx0.5 m	19	13	4	36
5	COE	Excutve Table Big Size 8'x5'	2			2
6	COE	Exiucative Chair Big Size Standard (with arms)	2			2
7	COE	Office Chair with arms	8			8
8	COE	Office Table 6'x4'x30"	8			8
9	COE LIB.	Glass door Cabinate for Library 2.5 m x 1.20 m x 0.5 m	12			12
10	COE	Computer Table for Office (standard size)	6			6
11	COE	Computer Chair for Office (standard size)	6			6
12	COE LIB.	Long size Table for Library 8'x5'	4			4
13	COE LIB.	Chair for Library / p.v.c. Type	16			16
14	COE	Office Bench for Peon 8' x 20" x 18"	4			4
15	UE	Lockers with 16 drawers (standard size)			2	2

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INDUSTRIAL TRAINING INSTITUTE BASTAR (C.G.)
Schedule of Requirements
Package -71

D.C Compound, Capacitor Motor, Capacitor Motor, Star Delta Starter, D.O.L. Starter

S.N.	ITI/ITEM Code No.	Details of Specification	Nos.	Total
1	U W	D.C Compound (3 H.P. 250 V with 3 Point Starterand field regulator (Laboratory Type)	1	1
2	U W	D.C Shunt Motor (3H.P 250 V with 3 Point Starter and speed regulator (Laboratory Type)	1	1
3	U W	D.C. Series Motor with 2 Point Starter	1	1
4	U W	Capacitor Motor (1/4 H.P. Single Phase 250 V)	1	1
5	U W	Split Phase Motor (1/4 H.P. Single Phase 250 V)	1	1
6	U W	Squirrel Cage Induction Motor 5 H.P. 400 V with Star delta Startor	1	1
7	U W	Manual Star delta Starter	1	1
8	U W	Semi automatic Star Delta Starter	1	1
9	U W	Automatic Star Delta Starter	1	1
10	U W	Automatic Reverse forward Stater	1	1
11	U W	Single Phasing Preventer (41sv)	3	3
12	U W	D.O.L. Starter	1	1
13	U W	Starter 1 Phase	1	1
14	U W	2 KVA Alternator with 3 Phase induction Motor	1	1
15	U W	5 H.P. Slipring induction Motor with rotor resistance Starter	1	1
16	U W	M.G. Set Consisting of Squirrel Cage induction Motor 5 H.P. 400 V Cycle with directly Coupled Compound generator 3 K.W. 250 V with built in panel board Consisting of	1 set	1 set
		(1) 3 Phase air Circuit Breakers		
		(2) Star delta Starter (Contact Type 8 Point) & Automatic Type		
		(3) D.C. Circuit Breaker		
		(4) Suitable Voltmeter on A.C. 8 D.C. Side 0 to 500 v		
		(5) Sunk Field regulators		
		(6) Suitable line ammeters on A.C. and D.C. Side 0 to 10 amp.		
		(7) Field Circuit ammeter 10 amp.		
		(8) Indicating Lamps on Both the Side (AC& DC)		

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