

# **E-Tender | Supply of Tools, Equipment's and Machines for Deendayal ITC Satna (MP)**

***TENDER NO: DDITC/STRIVE/TEN/2023-24/ 02***

FOR THE YEAR

**2023-2024**

**OFFICE**

**Deendayal Industrial Training Centre**

Udyamita Vidyapeeth, Deendayal Parisar, Chitrakoot, Satna – 485334 (MP)

Mob - 9584508202, E-Mail: [udyamita@dri.org.in](mailto:udyamita@dri.org.in), Website: [www.dri.in/iti/](http://www.dri.in/iti/)

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[1]

Deendayal ITC under STRIVE scheme

1. **Tender Notice**

**Tender Notice**

OFFICE

**Deendayal Industrial Training Centre**

**Udyamita Vidyapeeth, Deendayal Parisar, Chitrakoot, Satna – 485334 (MP)**

**Invites online bids (Two bid system) from Manufacturers or Authorized  
dealers for Supply of Tools, Equipment's and Machines for**

**Deendayal ITC under STRIVE scheme as below:**

<b>Tender No</b>	<b>Description</b>	<b>Earnest Money Deposit</b>	<b>Bid Document Price</b>
<b>01</b>	<b>Tools &amp; Equipment's</b>	<b>INR 00</b>	<b>INR 00</b>

- Online bidding go through [https:// www.dri.org.in/iti/](https://www.dri.org.in/iti/) and online e-tenders are invited as per key dates from **Manufacturers or their Authorized Dealers for Supply of Tools, Equipment's and Machines for Deendayal ITC** under STRIVE scheme Tender document and other details are also available at the websites <https://www.dri.org.in/iti/>
- In all respect the soft copy And hardcopy of the Bids (Envelope-A, and Envelope-B) must be received at the office of the undersigned latest by **3:00 PM on 28.09.2023** and will be opened ONLINE Technical Tender (Envelope-A) on the same day.  
i.e. **28.09.2023 at 4:00 PM**. In the presence of such tendered or their authorized representatives as may be present.
- All corrigendum/ amendments/changes if any will only be issued and made available only on [https:// www.dri.org.in/it/](https://www.dri.org.in/it/)

**(RAJESH PRASAD TRIPATHI)**

**PRINCIPAL**

**Deendayal ITC under STRIVE scheme**

**e-Tender | Supply of Tools, Equipment's and Machines for  
Deendayal ITC Satna (MP) under STRIVE scheme**

**Key Dates and Time**

Sr. No	Task	Date & Time
1.	Opening date	21.09.2024, 12:00 HRS
2.	Submission of Soft & Hard Copy of Bids (Envelope A & Envelope B)	28.09.2023, 15:00 HRS
4.	Online Opening of the Technical Bids (Envelope– A)	28.09.2023, 16:00 HRS
5.	Online Opening of the Financial Bids (Envelope– B)	28.09.2023, 17:00 HRS

## **2. Tender Rules**

### **Scope of Tender**

The PRINCIPAL/SECRETARY, Deendayal ITC, Chitrakoot, Satna - 485334 (MP) (hereinafter referred as Tender Inviting Authority and/or Tender Acceptance Authority and/or Ordering Authority unless the context otherwise requires) Invites online bids (Two bid system) from Manufacturers or Authorized dealers for Supply of Tools, Equipment's and Machines for , Deendayal ITC, Chitrakoot, Satna - 485334 (MP) as below :

<b>Tender No</b>	<b>Description</b>	<b>Earnest Money Deposit</b>	<b>Bid Document Price</b>
<b>01</b>	<b>Tools &amp;Equipment's</b>	<b>INR 00</b>	<b>INR 00</b>

### **Eligibility Criterion**

The Tenderer should fulfill the following eligibility criteria:

- a) The Tenderer should be Manufacturer or Authorized Dealer having relevant Licence of Manufacturer/ Authorized Dealer and such a Registration should be valid as on the date of Tender submission.
- b) The Tenderer should have achieved annual turnover as follows (every FY) in the last three financial years.

<b>Tender No</b>	<b>Description</b>	<b>Minimum Annual Turnover</b>
<b>01</b>	<b>Tools &amp;Equipment's</b>	<b>50 Lakhs</b>

- c) The Tenderer (and tenderer's principal manufacturer, if tenderer is Authorized Dealer) should not be blacklisted either by the Tender Inviting Authority or by any State Government or by Government of India.
- d) The Manufacturer should be in the business of manufacturing of similar equipment for a period not less than 5 Years.
- e) The Tenderer must submit the Form –“A” on letterhead with signature & stamp. Annexure-1

### **Validity of Tender**

- a) The Tender will be valid for a period of 10 DAYS after the due date of submission of Tenders. A Tender valid for a shorter period shall be rejected by the Tender Inviting Authority as non-responsive
- b) In exceptional circumstances, prior to the expiration of the Tender validity, the Tender Inviting Authority may request the Tenderers to extend the Tender validity for further period as deemed fit. The request and the responses thereto shall be made in writing. A Tenderer may refuse the request without forfeiting its EMD. A Tenderer, agreeing to the request will not be required or permitted to modify its Tender.

### **Preparation and submission of Tender**

- a) The Tender should be Computerized and every correction and interlineations in the bid should be attested with full signature by the tenderer, failing which the bid will be treated as ineligible. Corrections done with correction fluid should also be duly attested.
- b) Bidder should give all relevant particulars about every item, such as maker's name, Country of Manufacture and Specifications and Price etc.

- c) Authorized dealer should submit the certificate from its manufacturer as proof topurchase supplied items from OEM.
- d) All documents/papers should be numbered, signed and sealed by the Tenderer on each page.
- e) The Tender is required to be prepared and submitted in two parts viz. 'Part A - Technical Bid' and 'Part B - Price Bid'.
- f) The **'Envelope of Part-A Technical Bid'** shall contain all essential documents for Technical Tender. Such documents attached as per Annexure-1 to (Online).
- g) The **'Envelope of Part-B- Financial Bid'** shall contain duly filled, stamped and signed Price Schedule in the format provided in Annexure – 3.
- h) The Online tenders as above should be submitted on [udyamita@dri.org.in](mailto:udyamita@dri.org.in) as per Scheduled date and time.
- i) Tender submitted or received after the closing date and time will not be considered and shallnot be considered.

## **Tender Prices**

**e-Tender | Supply of Tools, Equipment's and Machines for  
Deendayal ITC, Chitrakoot, Satna (MP)**

- a) Tender has been called for in the names of Items. The Tenderers should quote the rates for the Items mentioned in tool & equipment and machinery as mentioned in DGT trade details all motor will be off copper & all tools equipment and machinery of brands.
- b) The Tenderer should mention the name of manufacturer of the item being quoted.
- c) The rates should be quoted in format of Price Schedule shown in **Annexure-5. Rates quoted in any other format tender will be rejected.**
- d) Rates inclusive of Excise Duty, Customs duty, transportation, insurance, and any incidental charges, but exclusive of State VAT/CST should be quoted for each of the required item, separately on door delivery basis (FOR Destination, at Stores) as per format of Price Schedule given in Annexure – 5.
- e) Quoted rates are valid up to one year from the date of signing of contract agreement and shall be firm during the currency of the contract.

**Opening of Tenders**

- a) The Tenders shall be opened at the scheduled date, time and venue by the committee constituted by the Tender Inviting Authority. The Tenderers' representative may attend the Tender opening.  
Technical Bid & financial bid shall be opened Online and Physical copy submitted by post to address of **Deendayal Industrial Training Centre , Udyamita Vidyapeeth, Deendayal Parisar, Chitrakoot, Satna – 485334 (MP)**
- b) The date and time of opening of Price Bid shall be informed to all such Tenderers who qualify in technical Bid evaluation. The tenderer's representative may choose to attend the opening of Price Bid.
- c) In the event, the date of opening as above is declared government holiday; the tenders shall be opened at the same time on the next working day.

**Evaluation of Tenders**

- a) The purchase committee, constituted by the Tender Inviting Authority, shall evaluate the tender with reference to technical requirements and various other commercial criteria given in the Tender Document.
- b) Tendering agency reserved the right to cancel; disqualify any tender despite being of low rate, if not satisfied with the quality of products offered.

### Placement of Purchase Orders and Delivery Requirements

- a) The Tender Inviting Authority shall place individual Purchase Orders for supply of Items the period of 15 days from the date of award of contract with successful Tenderer (s). Tender Inviting Authority reserves the right to extend the validity of purchase order further by 01 months on the same rates and terms & conditions of the contract.
- b) The supplier should complete the supply at the **Deendayal Industrial Training Centre , Udyamita Vidyapeeth, Deendayal Parisar, Chitrakoot, Satna – 485334 (MP)** within 20 days from the date of issue of purchase order.
- c) If at any time the Tendered has, in the opinion of the Tender inviting authority, delayed the supply of Items due to one or more reasons related to force Majeure events such as riots, mutinies, wars, fire, storm, tempest or other exceptional events, the time for supplying the Items may be extended by the Tender inviting authority/ordering authority at its discretion for such period as may be considered reasonable. However such extension shall be considered only if a specific written request is made by the Tendered within 7 days from the occurrence of such event. The exceptional cause does not include scarcity of raw material, power cut and labour disputes.
- d) The undersigned reserves the rights for any changes/cancellation/rejection of any part or whole tender, without assigning any reason what so ever.
- e) **Warrantee/Guarantee should be for a period of minimum 5 year.**
- f) All consignment must be dispatched freight paid to concern ITI "To pay" Railway Receipt/Freight Receipts will not be accepted. Loading /Unloading charges shall be borne by the supplier.
- g) 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.
- h) The undersigned reserves the right to split up the order for supply of articles at tender for amongst more than one tender.



**e-Tender | Supply of Tools, Equipment's and Machines for  
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- a) The Tender inviting authority may ask for samples and demonstration of any particular item quoted by the bidders. The bidders shall have to submit samples and give Demonstration 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 bidder. 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.
- b) The Items including its packing (packaging), to be supplied, shall be of the best quality and shall comply with the specifications given in the Tender Document.
- c) All Items should be supplied with quality certificate. The undersigned may get the items inspected 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 undersigned will be final in such cases. The rejected items will be returned on the bidder's cost.
- d) If any of the Items supplied by the tenderer, found to be 'Not of Standard Quality' after the delivery, the tenderer should supply the whole Item quantity again irrespective of consumption of that particular. The balance stock, if any, should be taken back within 7 days by the supplier at his/her own cost otherwise the authority will destroy it and no claim in this regard shall be entertained.
- e) **Guarantee Certificate:** - The Bidder will have to submit the GUARANTEE CERTIFICATE as per Annexure – 4
- f) **Warranty/Guarantee should be for a period of minimum 5 year.**

**Payment Terms**

- a) The 50% payment will be released on placing order, 50% payment dispatch and remaining successful complete verification of goods and supply. However, if supplied Items are found not as per specifications, then whole payment will be withheld and shall be released only after receipt of replacement of Items which were found not of standard quality.

**Settlement of Disputes**

- a) In the event of any dispute arising out of the tender or orders such dispute would be subject to the jurisdiction of Courts of Kanpur Nagar Uttar Pradesh nearest to the place of Tender Inviting Authority.

**Publishing of N.I.T.**

For the Tenders processed using the e-Procurement System, the Detailed Notice and terms and conditions of tender shall be published only on the e-Procurement System. The bidders can view the Detailed Notice, Terms & Conditions of tender document and the time schedule for all the Tenders processed using the e-Procurement System on the website

<https://www.dri.org.in/iti/>

**Key Dates and time**

The Bidders are strictly advised to follow the time schedule (Key Dates and time) of the tender for their side of tasks and responsibilities to participate in the tender, as all the stages of each tender are locked before the start time and date and after the end time and date for the relevant stage of the tender as set by the concerned Department Official.

**Downloading of the Tender Documents**

The tender documents can be downloaded online from the website <https://www.dri.org.in/iti/>.

**Preparation of Bids and Submission of Online Bids by the Bidders**

The Bidders have to prepare their Bids online, and submit the same by Email.

**e-Tender | Supply of Tools, Equipment's and Machines for  
Deendayal ITC, Chitrakoot, Satna (MP)**

**Opening of Tender**

The concerned Department Official receiving the tender or his duly authorized person shall open the online.

**For any further queries, bidders may kindly contact**

For more details, please contact on working days within working hours (10:30 to 17:30) ,

Mob. 9584508202

E-tendering Helpdesk at **Deendayal ITC, Chitrakoot, Satna (MP)**

Tel. No. 9584508202

E-mail:- [udyamita@dri.org.in](mailto:udyamita@dri.org.in)

## FORMAT OF COVERING LETTER

Ref No: .....

Date: .....

To,

**The Principal/Secretary**

**Deendayal ITC, Chitrakoot**

**Satna, (MP)**

**Sub: Submission of Supply of Tools & Equipment for. Deendayal ITC under STRIVE scheme , Tender  
SPN No. DITC/STRIVE/TEN/2023-24/02**

Dear Sir,

As per terms & conditions of the tender following documents are submitted as under:

1. Form "A" Enclosure No. ....
2. Other Testimonials .....

We have quoted rates for items (Number of quoted item to be mentioned) in the Tenders as stated below:

<b>Tender No</b>	<b>Total Item in Tender Enquiry</b>	<b>No of Item Quoted</b>
<b>01</b>		

The entire item is quoted with brand name & full specification. The technical detail as desired  
is submitted in prescribed format as per enclosed Annexure

<b>Authorized Signatory</b> <b>Name &amp; Signature with Seal</b>	
<b>Date</b>	

**Annexure-1****FORM – A**

(To be signed and returned along with the tender)

Ref No: .....

Date: .....

To,

**The Principal/Secretary**  
**Deendayal ITC, Chitrakoot**  
**Satna, (MP)**

**Sub: Submission of Supply of Tools & Equipment for. Deendayal ITC under STRIVE scheme, Tender**  
**SPN No. DITC/STRIVE/TEN/2023-24/02**

Dear Sir,

I/We

<b>Name of Authorized Signatory</b>	
<b>Name of Bidder</b>	
<b>Address of Bidder</b>	
<b>Phone</b>	
<b>e-Mail</b>	

Have read the Tender rules for the supply of various goods as per Tender notice to the Deendayal ITC, Chitrakoot, Satna (MP) I/We accept all rules for Tender. I qualify the eligibility criteria of tender documents.

<b>Authorized Signatory</b> <b>Name &amp; Signature with Seal</b>	
<b>Date</b>	

## **MANUFACTURERS' AUTHORIZATION FORM**

Ref No: .....

Date: .....

To,

**The Principal/Secretary  
Deendayal ITC  
Chitrakoot, Satna (MP)**

Dear Sir,

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 Tender Published by you.

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 competent person. This **AUTHORIZATION FORM** should be notarized. It should be attached in the bid.

## PRICE SCHEDULE

*(To be fill in prescribed Excel format only & same to be upload for Price Bid, should be submit Separate Sheet for each Tender)*

Tender SPN NO	DITC/STRIVE/TEN/2023-24/02
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S.No	Item Code	Name & Specification of Item	Make	Price for each unit (in Rs.)					Total Unit price inclusive of all(Rs. in figures)	Total unit price inclusive of all (Rs. in words)
				Unit Price Including Excise/ Custom Duty (if any)	Service Tax (if any)	Inland transportation, insurance, Installation and other local costs incidental to delivery	Total price inclusive of a+b+c (Rs. in figure)	Sales Tax/VAT/CST/ GST (if any)		
				(a)	(b)	(c)	(a+b+c)=d	(e)	(d+e)	(f)

<b>Authorized Signatory</b> <b>Name &amp; Signature with Seal</b>	
<b>Date</b>	

**GUARANTEE CERTIFICATE**

(On the original letter head of the manufacturer)

Ref No: .....

Date: .....

To,

**The Principal/Secretary  
Deendayal ITC  
Chitrakoot, Satna (MP)**

**Sub: Submission of Supply of Tools & Equipment for. Deendayal ITC under STRIVE scheme Tender  
SPN No. DITC/STRIVE/TEN/2023-24/02**

**Ref: Your S.O.NO ..... Dated placed on our Authorized Dealer**

M/s .....

Dear Sir,

With reference to the above, this is to certify that the following item has been supplied by  
our Authorized Dealer M/s .....

SN	Item Name & Description	QTY
1		
2		

We further certify that the material supplied as above has been duly pre inspected by us and have been found to be in conformity with specification as per the terms & conditions of the supply order.

They are hereby guaranteed for a period of 05 YEARS from the date of receipt at respective ITI; against any material defects, manufacturing defects (Including assembly installation, commissioning as applicable) and bad workmanship.

In case of any defect, we guarantee to replace the same immediately without at any cost.

Seal & Signature of Dealer	Seal & Signature of Manufacturer
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## CHECK LIST ENVELOPE – A

SN	Documents	Submitted Y/N	Page No
1.	Duly filled Checklist as per format given in Annexure – 6.		
2.	Covering Letter duly signed & stamped on letter head.		
3.	Form – A duly signed & stamped on letter head		
4.	Self-attested copy firm registration Certificate		
5.	Self-attested copy of registration in Commercial/sales tax department and itsTIN number.		
6.	Item Wise Authorization Certificate in case of Authorized Dealer Annexure – 2.		
7.	Self-attested copy of relevant Licence for Manufacturing/Selling and distribution (whichever appropriate) of the product quoted duly approved bythe Licensing authority for each schedule of product quoted as per specification in the tender.		

<b>Authorized Signatory</b>	
<b>Name &amp; Signature with Seal</b>	
<b>Date</b>	

**Tender No.-DITC/STRIVE/TEN/2023-24/02**

## LIST OF TOOLS AND EQUIPMENT

### MECHANIC MOTOR VEHICLE (1+1) (for Batch of 24 Candidates)

S No.	Name of the Tools & Equipment	Specification	Quantity
<b>A. TRAINEES TOOL KIT</b>			
1.	Allen Key set of 12 pieces	2mm to 14mm	12+1 nos.
2.	Calliper inside with spring	15 cm	12+1 nos.
3.	Callipers outside with spring	15 cm	12+1 nos.
4.	Center Punch.	10 mm. Dia. x 100 mm	12+1 nos.
5.	Dividers with spring	15 cm	12+1 nos.
6.	Electrician Screw Driver	250mm	12+1 nos.
7.	Hammer ball peen with handle	0.5 kg	12+1 nos.
8.	Hands file for Second cut flat	20 cm.	12+1 nos.
9.	Philips Screw Driver set of 5 pieces	100 mm to 300 mm	12+1 nos.
10.	Pliers combination	20 cm.	12+1 nos.
11.	Screw driver Blade	20cm.X 9mm.	12+1 nos.
12.	Screw driver Blade	30 cm. X 9 mm.	12+1 nos.
13.	Scriber	15 cm	12+1 nos.
14.	Spanner D.E. set of 12 pieces	6mm to 32mm	12+1 nos.
15.	Spanner, ring set of 12	6 to 32 mm. (metric)	12+1 nos.
16.	Spanners socket with speed handle, T-bar, ratchet and universal set of 28 pieces with box	up to 32 mm	12+1 nos.
17.	Steel rule	30 cm inch and metric	12+1 nos.
18.	Steel tool box with lock and key (folding type)	400x200x150 mm	12+1 nos.
19.	Wire cutter and stripper		12+1 nos.
<b>B. INSTRUMENTS AND GENERAL SHOP OUTFIT - For 2 (1+1) units no additional items are required</b>			
<b>TOOLS &amp; EQUIPMENT</b>			
20.	Adjustable spanner (pipe wrench)	350 mm	2 nos.
21.	AC alternator slip ring puller	Variable	1 no.
22.	Air blow gun with standard accessories	Trigger operated with interchangeable nozzles	1 no.
23.	Ammeter DC with external shunt	300A/ 60A	4 nos.
24.	Air ratchet	with standard accessories	2 nos.
25.	Air impact wrench	with standard accessories.	2 nos.
26.	Anvil with Stand	50 Kgs	1 no.
27.	Auto Electrical test bench	For checking Dynamo, Alternator & Starter. With minimum 2HP AC Motor, Digital Voltmeter & ammeter.	1 no.

28.	Battery –charger	Capable to charge batteries from 5AH – 150AH.	2 nos.
29.	Blow Lamp	1 litre	2 nos.
30.	Belt Tensioner gauge		1 no.
31.	Car Jet washer with standard accessories	Minimum 3 Phase 1HP 1400RPM Motor, 3 Reciprocating Plungers with pressure regulator & gauge. 8m Water hose with pressure adjustable brass nozzle.	1 no.
32.	Chain Pulley Block capacity with tripod stand	3 ton	1 no.
33.	Chisel flat	10 cm	4 nos.
34.	Circlip pliers Expanding and contracting	15cm and 20cm	4 each
35.	Cleaning tray	45x30 cm.	4 nos.
36.	Compression testing gauge	suitable for diesel Engine with standard accessories	2 nos.
37.	Copper bit soldering iron	0.25 Kg	2 nos.
38.	Cylinder bore gauge capacity	20 to 160 mm	1 no.
39.	Cylinder liner- Dry & wet liner, press fit & slide fit liner		1 each (consumable)
40.	Depth micrometer	0-25mm	1 no.
41.	Dial gauge type 1 Gr. A (complete with clamping devices and with magnetic stand)		1 no.
42.	Different type of Engine Bearing model	10 Different types on board	1 set
43.	Different type of piston model	5 Different Types on board	1 set
44.	Drift Punch Copper	15 Cm	2 nos.
45.	Drill twist (various sizes)	1.5 mm to 8 mm by 0.5mm	4 nos.
46.	Electric Soldering Iron	230 V 60 watts 230 V 25 watts	2 each
47.	Electric testing screw driver		4 nos.
48.	Engineer's square	Blade size 15 cm	4 nos.
49.	Engineers stethoscope		1 no.
50.	Feeler gauge 20 blades (metric)		4 nos.
51.	File flat , bastard	20 cm	4 nos.
52.	File, half round ,second cut	20 cm	4 nos.
53.	File, Square second cut	20 cm	4 nos.
54.	File, Square round	30 cm	4 nos.
55.	File, triangular , second cut	15 cm	4 nos.
56.	Files assorted sizes and types including safe edge file (20 No's)		2 each
57.	Flat File , second cut	25 cm	4 nos.
58.	Flat File , bastard	35 cm	4 nos.
59.	Fuel feed pump for Diesel	Hand operated Plunger Type	1 no.
60.	Fuel injection pump (Diesel) inline	4/6 cylinders RSV Mechanical Pneumatic Governor Type.	1 no.

61.	Fuel injection pump VE pump / Distributor fuel rotary pump (DPC) pumps / along with special tools and accessories		1 each
62.	Grease Gun		2 nos.
63.	Grease Gun heavy duty trolley type	10 kg capacity	1 no.
64.	Growler		2 nos.
65.	Hacksaw frame	adjustable 20-30 cm	12 nos.
66.	Hammer Ball Peen	0.75 Kg	4 nos.
67.	Hammer Chipping	0.25 Kg	5 nos.
68.	Hammer copper with handle	1 Kg	4 nos.
69.	Hammer Mallet		4 nos.
70.	Hammer Plastic		4 nos.
71.	Hand operated crimping tool/wire	(i) up to 4mm (ii) up to 10mm	2 each
72.	Hand vice	Up to 37 mm	2 nos.
73.	Hollow Punch set of seven pieces	6mm to 15mm	2 sets
74.	Injector – Multi hole type, Pintle type		4 each
75.	Injector testing set	(Hand tester)	1 no.
76.	Insulated Screw driver	20 cm x 9mm blade	4 nos.
77.	Insulated Screw driver	30 cm x 9mm blade	4 nos.
78.	Lifting jack screw	3 ton, 5ton & 20 Ton	1 each
79.	Magneto spanner set with 8 spanners		1 set
80.	Magnifying glass	75mm	2 nos.
81.	Multimeter digital	LCD Display	5 nos.
82.	Oil can	0.5/0.25 liter capacity	4 nos.
83.	Automotive oil pump for dismantling and assembling.		2 nos.
84.	Outside micrometer	0 to 25 mm	2 nos.
85.	Outside micrometer	25 to 50 mm	2 nos.
86.	Outside micrometer	50 to 75 mm	1 no.
87.	Outside micrometer	75 to 100 mm	1 no.
88.	Philips Screw Driver set of 5 pieces (pozidrivandtorx drive)	100 mm to 300 mm	2 nos.
89.	Piston ring compressor		2 nos.
90.	Piston Ring expander and remover.		2 nos.
91.	Piston Ring groove cleaner.		1 no.
92.	Pliers flat nose	15 cm	2 nos.
93.	Pliers round nose	15 cm	2 nos.
94.	Pliers side cutting	15 cm	2 nos.
95.	Portable electric drill Machine	Upto 10mm (heavy duty)	1 no.
96.	Prick Punch	15 cm	4 nos.
97.	Punch Letter 4mm (Number)		2 sets

98.	Radiator cut section-cross flow	Radiator with sectioned side tanks, radiator core.	1 no.
99.	Radiator cut section-down flow	Radiator with sectioned upper & lower tanks, radiator core and cap.	1 no.
100.	Radiator pressure cap	LMV	2 nos.
101.	Scraper Triangular	25 cm	2 nos.
102.	Scriber	15 cm	2 nos.
103.	Scriber with scribing black		2 nos.
	universal		
104.	Set of stock and dies -Metric		2 sets
105.	Sheet Metal Gauge		2 nos.
106.	Spanner T. flocks for screwing up and up-screwing inaccessible		2 nos.
107.	Spanner, adjustable	15cm	2 nos.
108.	Spark plug spanner 14mm x 18mm x Size	Long bit for Alto/800	2 nos.
109.	Starter motor axial type, pre- engagement type & Co-axial type		1 each
110.	Steel measuring tape in a case	10 meter	2 nos.
111.	Steel rule 15 cm inch and metric		4 nos.
112.	Straight edge gauge 2 ft.		2 nos.
113.	Stud extractor set of 3		2sets
114.	Stud remover with socket handle		1 no.
115.	Surface gauge with dial test indicator plunger type	0.01 mm	4 nos.
116.	Tachometer (Counting type)		1 no.
117.	Tandem master cylinder with booster		4 nos.
118.	Thermostat		2 nos.
119.	Thread pitch gauge Metric		2 nos.
120.	Timing lighter		2 nos.
121.	Torque wrenches	5-35 Nm, 12-68 Nm & 50-225 Nm	1 each
122.	Turbocharger cut sectional view	Latest WGT type to show turbine, impeller and compressor wheels.	1 no.
123.	Tyre pressure gauge with holding nipple		2 nos.
124.	Universal puller for removing pulleys, bearings		1 no.
125.	V' Block 75 x 38 mm pair with Clamps		2 nos.
126.	Vacuum gauge	0 to 760 mm of Hg.	2 nos.

127.	Valve Lifter		1 no.
128.	Valve spring compressor universal		1 no.
129.	Vernier calliper	0-300 mm with least count 0.02mm	4 nos.
130.	Vice grip pliers		2 nos.
131.	Automotive Water pump for dismantling and assembling		4 nos.
132.	Wire Gauge (metric )		2 nos.
133.	Work bench	250 x 120 x 60 cm with 4 vices 12cm Jaw	4 nos.
134.	Working model of Air Brake Assembly	Two brake drums, vehicular air compressor driven by suitable Electric Motor, air dryer, brake chamber . stop light, different valves, air pressure gauges. With all accessories.	1 no.
135.	Alternator assembly used for LMV	Alternator (>50 Amp)	1 no.
136.	Carburetor – Solex, Mikun for dismantling and assembling	Solex, Mikun for dismantling and assembling	1 Each
137.	Chain Pulley Block-3 ton capacity with tripod stand	3 ton capacity with tripod Stand	1 no.
138.	Cut section Model of Mock layout of a motor car –electrical system working model	Wiring with parts and accessories of a car to be arranged according to the electrical circuit of a car. Working of Self-starter, Alternator, Wiper Motor, Horn, lighting system, sparks from plug to be shown with Distributor & battery. Should be mounted on suitable table	1 no.
139.	Cut section models of shock absorbers		1 no.
140.	Cut section of cross ply and radial tyres		1 no.
141.	Cut section working model of automatic transmission Gear box	Sectioned to show the internal mechanism of forward and reverse speeds.	1 no.
142.	Cut section working model of centrifugal clutch assembly.	Centrifugal Clutch sectioned to show the internal details	1 no.
143.	Cut section working model of Diaphragm clutch assembly.	Diaphragm Clutch sectioned to show the internal details	1 no.

144.	Cut section working model of	Single plate Clutch sectioned to show	1 no.
	Single plate clutch assembly	the internal details	
145.	Demonstration board of electronic Ignition system, ignition coil	With HT coil, HT wires, Spark Plugs, ignition switch, coil, distributor, battery, and wiring.	1 no.
146.	Demonstration board of MPFI system	With injectors, rail, inlet manifold, throttle body, distributor, ECU, purge valve, sensor, crank pulley, fuel tank module.	1 no.
147.	Disk brake in working condition with caliper assembly with all parts	Exhibiting Brake disc, Caliper assembly, tandem master cylinder, brake hoses, oil bottle, pedal, etc.	1 no.
148.	Drum brake assembly in Working Condition	Brake drum, tandem master cylinder, oil container, brake hose, brake pedal.	1 no.
149.	Front axle (Rzeppa Joint) with stand for Dismantling and assembly	Rzeppa joint of LMV.	1 no.
150.	Full floating axle and semi-floating axle assembly	Drum & axle casing should be with all components in working condition.	1 no.
151.	Functional/experiment model of different type of sensors.	With Different type of sensors like Throttle Position Sensor, Manifold Absolute Pressure Sensor, Engine Coolant Temperature Sensor, Vehicle Speed Sensor, Oxygen Sensor, Crankshaft Position Sensor, Camshaft Position Sensor, Intake Air Temperature Sensor, Mass Air Flow Sensor, Knock Sensor with ECU.	1 no.
152.	Steering assembly – 1. Rack & pinion 2. Worm & roller 3. Recirculating ball 4. Power steering 5. Electric Assisted Power Steering	1. Rack & Pinion with steering wheel, column, tie rod end. 2. Worm & Roller steering assembly with drop arm. 3. Recirculating Ball steering with pitman shaft and drop Arm. 4. Hydraulic working power steering with steering wheel, column, flow pipe, hydraulic pump, oil reservoir. 5. Electric Assisted Power Steering with Rack and pinion, Electric Motor	1 each

		and Motor Control Module	
153.	Synchronous Gear box with stand for Dismantling and assembly	Gearbox with 5 Forward & 1 Reverse Gear	1 no.
154.	Tandem master cylinder with booster	Working model	1 no.
155.	Tubed tyre of car, trucks & motorcycle		1 each
156.	Tubeless tyre of cars & trucks		1 each
157.	Tyre& split rim wheel assembly		1 no.
158.	Working Model of power windows	Showing parts like door, glass with motor and its gear arrangement and operating switch.	1 no.
159.	Working model of torque converter	Model of LMV	1 no.
<b>GENERAL SHOP OUTFIT</b>			
160.	Air conditioned CRDI Vehicle in running condition -LMV	New vehicle with CRDI engine, 04 strokes, 04 cylinders, BS-IV, fitted with air condition.	1 no.
161.	Arbor press hand operated	2 ton capacity	1 no.
162.	Automotive exhaust 5 gas analyser (petrol & Diesel) and Diesel Smokemeter(Optional)	Exhaust 5 Gas Analyzer Petrol ARAI approved to check CO, CO <sub>2</sub> , O <sub>2</sub> , and HC& NO. Diesel Smoke Meter ARAI approved.	1 no.
163.	Diesel Engine – CRDI - 4 strokefor Dismantling and Assembling with Swiveling Stand.	Latest 4 Stroke 4 cylinder turbo charged CRDI Engine, 800-1600cc, in running condition, with ECM, BCM, and all sensors, wiring, fuel feed & cooling system & instrument cluster.	1 no.
164.	Diesel engine (Running condition) Stationary type single cylinder	Single Cylinder, OH valves, fuel tank with handle, fuel feed, water cooling, oil pump.	1 no.
165.	Hydraulic jack HI-LIFT type	3 ton capacity, and 5 Ton capacity	1 each
166.	Multi Scan Tool To scan Engine, ABS & EBD, AT, SRS, Body Control and immobilizer	Should perform automotive sensor simulation test specially designed to diagnose and simulate vehicle sensor faults for sensors like MAP sensor,	1 no.
		Intake air temperature sensor, TP sensor etc.	



167.	Spring tension tester	Manually operated with analogue display.	1 no.
168.	Trolley type portable air compressor	Belt driven compressor along with accessories	1 no.
169.	Working Condition of Diesel Engine – CRDI - 4 stroke Engine, Assembly with fault simulation board	Latest 4 Stroke 4 cylinder turbo charged CRDI Engine, with ECM, BCM and sensors, wiring, fuel feed, cooling system& instrument cluster. Fault setting bank for minimum 8 sensors and with diagnostic socket & Scanner to read the faults. Engine management circuit diagram to be printed on the panel board.	1 no.
170.	Cut section of 4/6 cylinder diesel engine in moving condition to show movement of internal parts	6 cylinder diesel engine in working condition to show movement of internal parts	1 no.
171.	Diesel Engine six Cylinder in running condition	Latest Diesel Engine CRDI 4 Stroke 6 Cylinders, Turbocharged Engine in running condition. All sensors, wiring, fuel feed, cooling system & instrument cluster	1 no.
172.	Air bag simulator	Driver & Co Driver Air Bags, Seat belts with front seats, crash sensors, air bag ECU, Wiring Harness	1 no.
173.	Air conditioning service Unit (Car)	Suitable for R134A. Recovery with vacuum pump, automatic drain & stop after recovery.	1 no.
174.	Four stroke petrol engine with CNG setup-working condition	Latest 4 Stroke 3/4 cylinder MPFI Engine in running condition 800- 1600cc with ECM, BCM and all sensors, wiring, fuel feed system, cooling system& instrument cluster with CNG/ Petrol selection switch on Panel.	1 no.
175.	Heavy Commercial vehicle	Fitted with Latest 06 cylinder CRDI diesel engine with all parts and	1 no.
		accessories. (without body on frame)	

176.	MPFI petrol engine with swiveling stand along with special tools for dismantling and assembling	Latest 4 Stroke 3/4 cylinder MPFI Engine in running condition 800- 1600cc with ECM, BCM and all sensors, wiring, fuel feed system, cooling system & instrument cluster.	1 no.
177.	Petrol Engine(2-stroke) Motor Cycle/Scooter along with special tools and accessories (Optional) * If not available in market video demonstration may be used to explain working.	Cut Section of 2 Stroke 2 W Engine Single Cylinder	1 no.
178.	Transfer case with stand for Dismantling and assembly.	To show the gear mechanism of forward and reverse speeds.	1 no.
179.	Tube/ tyre vulcanizing machine	220 V , Heater Capacity 400W x 2 With different types of Die &Mould	1 no.
180.	Two post car lift – capacity 4000 kg	Hydraulic Type with Mechanical Arms Locking.	1 no.
181.	Tyre Changer Machine	Motorized Pneumatic Type, Rim clamping facility, and bead breaking facility with air inflating device.	1 no.
182.	Ultrasonic Injection cleaning equipment	Flow analysis & spray pattern test, leak test, auto programming mode, ultrasonic test with timer, Min 500 ML Lit SS Tank with Lid, SS Stand.	1 no.
183.	Wheel alignment Machine – computerized 3D (Optional)	Latest machine for four wheel alignment. With connected camera , IR Lighting Source min. 8mm, Reflector metal based, should work in sunlight	1 no.
184.	Wheel balancing machine	For wheel balancing of LMV. Motor 0.5 HP Shaft Diameter min 38mm. Hardened flange assy. Balancing catch nut of metal.	1 no.
185.	Working Condition of Petrol MPFI Engine Assembly with fault simulation board	Latest 4 Stroke 3/4 cylinder MPFI in running condition,800-1600cc with ECM, BCM and all sensors, wiring, fuel	1 no.

		feed system, cooling system & instrument cluster with Fault setting bank for minimum 6 sensors with diagnostic socket & Scanner to read the faults. Engine management circuit diagram to be printed on the panel board.	
<b>CONSUMABLE</b>			
186.	Battery		As required
187.	Brake fluids		As required
188.	Chalk, Prussian blue		As required
189.	Chemical compound for fasteners		As required
190.	Diesel		As required
191.	Different type gasket material		As required
192.	Different type of oil seal		As required
193.	Drill Twist (assorted)		As required
194.	Emery paper	36–60 grit , 80–120	As required
195.	Engine oil & Engine coolant		As required
196.	Gear oils		As required
197.	Hacksaw blade (consumable)		As required
198.	Holders, lamp teakwood boards, plug sockets,		As required
199.	Hydrometer		5 nos.
200.	Lapping abrasives		As required
201.	Petrol		As required
202.	Power steering oil		As required
203.	Radiator Coolants		As required
204.	Safety glasses		As required
205.	Steel wire Brush	50mmx150mm	5 nos.
<b>CLASS ROOM FURNITURE FOR TRADE THEORY</b>			
206.	Instructor's table and Chair	Steel	1 set
207.	Students chairs with writing pads		24 nos.
208.	White board size	1200mm X 900 mm	1 no.
209.	Instructors lap top with latest configuration pre-loaded with operating system and MS Office package.		1 no.
210.	LCD projector with screen.		1 no.
211.	Trainees locker	6½ ' x 3' x 1½'	1 set each (optional)
<b>TOOLS &amp; EQUIPMENTS FOR ENGINEERING DRAWING HALL</b>			
212.	Drawing board	(700mm x500 mm) IS: 1444	24 +1 nos.
213.	Mini drafter		24 +1 nos.
214.	Set square	celluloid 45° (250 X 1.5 mm)	24 +1 nos.
215.	Stool for trainees		24 +1 nos.
216.	Cupboard (big)		1 no.
217.	White Board	8ft. x 4ft.	1 no.

218.	Trainer's Table		1 no.
219.	Trainer's Chair		1 no.
220.	Draughtsman drawing instrument box		24 +1 nos.
221.	Draughtsman table		24 +1 nos.

**(Rajesh Prasad Tripathi)**

**PRINCIPAL/SECRETARY**  
Deendayal ITC under STRIVE