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22/2/23.

Buyer Added Bid Specific Terms and Conditions
(For Biding through GeM Portal)

1.	Only manufacturers or authorized dealers are entitled to quote their rates. The bidder should be having relevant Licence of Manufacturer/ Authorized Dealer and such a Registration should be valid as on the date of Bid submission. The manufacturer is required to submit documentary proof to this effect that he is actually a manufacturer. Authorised dealer shall submit documentary proof issued by the concerned manufacturer to this effect that he is a authorized dealer for the quoted item/ items. Manufacturer Authorisation Certificate/Form should be bid specific with OEM details such as name, designation, address, e-mail Id and Phone No. which is required to be furnished along with the bid. Specifications of the product/item should be certified by OEM.
2.	The Manufacturer should be in the business of manufacturing of similar equipments for a period not less than 3 Years.
3.	The bidder firm must have valid GST Registration Number. TDS on GST will be deducted as per rule.
4.	Bidder should have executed the orders of similar items successfully to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency of the State/Central Government in at least one financial year out of last three Financial Years. Proof Attach.
5.	A certificate for satisfactory supply of similar items to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency is required to be submitted by the bidder, failing which the Bid is liable to be rejected. The firms are required to submit documentary proof in this regard.
6.	The Average Annual Turnover of the firm/ bidder should be 2 Lakhs for the Bided / similar items in last three financial years and a certificate from CA should be attached with the bid.
7.	Net worth or turnover and installed capacity of the bidder (in case of manufacturer) should be equal to the value of the quantity Bided by the firm for the similar items. The firms are required to submit documentary proof in this regard.
8.	FOR:- The Rates should be inclusive of FOR desination anywhere in Haryana at consignee locations at the supplier's risk shall be inclusive of GST, Freight Charges & other taxes/duties etc.
9.	DELIVERY PERIOD:- 30 Days at ITIs from the date of placement of supply order.
10.	PAYMENT TERMS:- 90% payment will be made by the consignee ITIs within 30 days on receipt of duly inspected and accepted items by the constituted Inspection Committee at consignee destination. Remaining 10% payment will be made after successful working/installation/ demonstration of items at site within duration of 15 days. 100% payment towards petty tools/ equipments/ furniture shall be released after physical delivery and complete installation (if any) of the items in the Institute after due verification /checking and acceptance. Delay Payment does not have any Interest.
11.	WARRANTY:- As per applicable by the Manufacturers on manufactured goods or minimum three year complete.
12.	INSPECTION:- The inspection will be done by the ITI through its authorized representative at the firms premises before dispatch of material. In case, the material offered for inspection by the firm fails to meet the specifications stipulated in Bid/Order/Contract and the samples are rejected by the Inspecting Committee, the Identing Institute will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the ITI will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd and ffinal inspection also, the firm will be liable for penal action including forfeiture of EMD, risk purchase, debarring/ blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.

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Note:- All the annexure from 'Annexure 1 to 16' including annexures/Govt. orders/ notifications are applicable to this present Bid.

Other Terms & Conditions:-

1. Price Fall Clause:

Price fall clause will be as per condition no. 15 of "General Conditions of Supply" as available at **Annexure-9**. The same is that the price quoted in the Bid/quotation or approved in the Rate Contract for the stores shall not exceed in any way the lowest price at which the Biderquote for the supply the stores of identical description to DGS&D, New Delhi/ State Government Institutions/Undertakings/any other person during the delivery period/currency period of the rate contract. If, at any time during the delivery period/currency period, the successful Bider reduces the rates/sale price of the quoted stores to any person at the price lower than the price chargeable under the supply order/ rate contract, the Biders should forthwith notify such reduction and inform this office and the price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of the rates shall stand correspondingly reduced to that level. The successful Biders shall promptly notify the reduction of rates to this office as well as to the concerned Indenting Officer/ Consignees. The Bider shall also give a certificate on their bills that the rates charged by them are not in any way higher to those quoted by them to the DGS&D, New Delhi and other State Government etc., during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments.

2. **Penalty to firm on Delay in delivery:** In case of delay in delivery beyond the delivery period, a penalty amount @ 0.5% of price of supply order for one week (seven days) for the delay of first two weeks and @ 1.0 % per week for the delay of five weeks (35 days) upto a maximum cap of penalty of 6.0% for total delay of seven weeks (49 days) would be applicable for each indented item. Thereafter, DS&D, Haryana could cancel the order in consultation with indenting department and suitable action could be taken against the supplier firm as per DS&D, Haryana latest policy/ instructions. However, if, purchasing department opts, to accept the items beyond seven weeks (49 days) delay, 1.0% penalty per week would continue for any unjustified delay in delivery till the supply is completed.
- ii) In case of any complaint in the working of indented items during the warranty period, the firm shall attend the same within 48 hours from the time of logging of first complaint call by the concerned consignee/ Govt. ITI and the items must be repaired/ replaced within 72 hours thereafter. The complaint (s) would be logged by the concerned consignee/ Govt. ITI by email in order to keep the proper delivery records. Further in case of failure to repair/ replace faulty item (s) within 120 hours, penalty to the supplier @ Rs. 250/- per day per concerned consignee/ Govt ITI will be applicable from the day & time of lodging the complaint.
3. **Evaluation of Bids:** The procurement committee constituted under STRIVE shall evaluate the Bid with reference to technical requirements and various other commercial criteria given in the Bid Document. Further, the received price list of the asked items subject to the reasonability and comparability prevailing in market. Each item evaluated separately.
4. This BOQ bid is being floated on GeM Portal to call the competitive prices of the asked items, however supply order shall be released/placed by the ITI as per the actual latest requirement of the ITI subject to the reasonability of rates and complete satisfaction.
5. The quantity of items may be increased or decreased.
6. The Bid inviting authority/order placing 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.

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7. All Items should be supplied with quality certificate. The ITI may get the items inspected by such person or persons, the competent authority/committee of ITI deems fit and to reject such of these items as in of the opinion do not come up to the specification. The decision of the competent authority/committee of ITI will be final in such cases. The rejected items will be returned on the bidder's cost.
8. The telephonic / return / e-mail complaints regarding fault / mal-functioning/ non-working etc. of the tool / machinery / furniture within warranty period will have to be attended within a week by the supplier & no any extra charges shall be paid to the firm in this regard.
9. In case supplied Items are found not as per specifications, then whole payment will be withheld and shall be released only after receipt of replacement items of desired specifications & quality.
10. Regarding Observation of warning signs of Collusion/Bid Rigging by the bidder firms in various Bidding processes issued by the State Government vide G.O. No. DS&D/Admin/CCI/EA-II/20211083-1283 dated 23.4.2021 will be applicable. (Annexure- 16).
11. Negotiation of Rates
Regarding negotiations of rates, policy issued by the State Government vide G.O. G.O. No.2/2/2010-4-IB-II dated 16.06.2014 (Annexure-5), G.O. No.2/2/2010-4-IB-II dated 09.02.2015 (Annexure-6) will be applicable/if applicable.

12. **Concession to MSMEs of State:**

The State Government has notified "Haryana State Public Procurement Policy for MSME - 2016" vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016 (Annexure-2) and amendment vide G.O. No. 2/2/2016-4IB-II dated 11.12.2019 (Annexure-8) and as amendment vide G.O. No. 2/2/2016-4IB-II dated 13.08.2021 (Annexure-7) which will be applicable in respect of concessions to Haryana based MSMEs and KVIs. For claiming the relevant concession/s like Bid Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof from Government authorities showing that they come under Haryana based manufacturing MSME/KVI units as the case may be e.g. *Entrepreneurs Memoranda in Haryana in bidder's name and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016.

*Note:- To claim the concessions/benefits under the above policy, the bidder is required to submit SSI Certificate/Manufacturing Entrepreneurs Memorandum (part-II) issued by the Industries Department Haryana in respect of the quoted item /Udhyog Aadhaar Memorandum (UAM)/Udhyam Registration of Haryana based manufacturing enterprises in respect of the quoted item (Ref. Industries & Commerce Department Haryana Memo No.TS/DS&D/11389-A Dated 03.07.2018) and further subject to fulfillment of eligibility criteria as provided in the said Policy of 2016 and amendments from time to time.

13. **Concession/benefits to Startups/First Generation Entrepreneurs of State:**

The State Government has notified "Concession/benefits in Public Procurement to Startups/First Generation Entrepreneurs of State" issued vide G.O. No. 2/2/2016-4I B-II dated 03.01.2019 (Annexure-3) (or as amended from time to time in this regard) which will be applicable in respect of concessions to Startups/First Generation Entrepreneurs of State. For claiming the relevant concession/s like Bid Fee, Earnest Money Deposit (EMD), Turnover, Exemption in respect of Past Performance & Experience, Purchase Preference and Performance Security, the bidders are required to submit the documentary proof as per the said policy.

14. In case of evidence of cartel formation by the bidder(s), the EMD is liable to be forfeited along with other actions as are permissible to Government like filing complaints with the Competition Commission of India and/ or other appropriate forums.
15. Grievance Redressal Mechanism for dealing with the representations/ complaints/ letters of the participating bidders/ firms shall be as per procurement guidelines of STRIVE.

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16. **Preference to Make in India:-**The public procurement in the State in reference to "Preference to make in India" shall be governed by Govt. Order No.02/08/2020-4IB-II dated 18.11.2020(Annexure-10)(or as amended from time to time in this regard)
17. **Restriction in Public procurement from bidders of certain Countries:-**The restriction on procurement from bidders from a Country or Countries on grounds of Defense of India or matters directly or indirectly related thereto including National Security shall be governed by Govt. Order No.02/09/2020-4IB-II dated 10.12.2020(Annexure-11)(or as amended from time to time in this regard).
18. **Blacklisting:-** The firm should not be blacklisted/debarred either in Government Departments/Agencies in State of Haryana or Central Government Departments/Agencies etc. as on the date of submission of the bid in the present Bid.
19. **Arbitration Clause:-**The Arbitration if any will be decided as per the provision contained at Sr. No.18 of "Schedule 'B' Conditions of Contract"
20. **Jurisdiction**
All disputes will be settled within the jurisdiction at JIND.
21. No Interest shall be payable on EMD amount, security amount and performance warranty amount.
22. Earnest Money/Security Deposited to this office in previous Bids will not be adjusted towards the present Bid and no request will be entertained in this regard.
23. The EMD will be forfeited, in case Bidder withdraws its Bid during the validity of bids OR the successful bidder, who fails to sign the contract agreement.
24. Bidder should give all relevant particulars about every item, such as maker's name, country of manufacture and specifications and brand/markaetc. Apart from this, the bidder should upload the Catalogue/information brochure of the items to be supplied where maker's/brand name, model no., detailed specifications, guarantee/ warrantee information etc. be mentioned.
25. Price: The Bidder shall quote composite price inclusive of Supply. Installation, Testing, Commissioning, Training, all taxes etc.The Price shall be quoted in Indian Rupees Only. The bidder will quote price of the item as per unit of measure where applicable such as per piece/per set.
26. While quoting rates of the different items in the BOQ, the bidder will refer detailed Technical specifications mentioned in the uploaded Specification/Bid Document. The firm must quote the prices of the items strictly as per the asked specifications and the items to be supplied should be of reputed/renowned brand.
27. Notwithstanding anything contained in the Bid,Principal Govt ITI, Jind reserves the right to accept or reject any Bid, and to cancel the bid process and reject the Bid, at any time, without thereby incurring any liability to the affected Bidder or Bidders and without any obligation to inform the participating/affected Bidder(s) the reason for suchdecision.
28. The bidder shall bound to comply all the rules/regulations/guidelines/instructions of the GeM for procurement of asked items mentioned in the bid.
29. Other terms & conditions as contained in various Annexure/ Documents being attached herewithwill form a part of thisBid.
30. Each item evaluted seperately.
31. F.O.R.:- The rates should be F.O.R. destination at supplier's risk.
32. GST: Inclusive.
33. Freight Charges: Inclusive.
34. Delivery Period & Installation: Delivery & Installation of complete material needs to be completed at all locations strictly with in 30 days of order. Failure to deliver stores with in the stipulated period shall result in forfeiture of EMD and vendor shall be blacklisted.
35. Payment: 90% payment will be released with in 15 days after physical delivery of inspected/accepted stores in physically good condition at consignee site. Remaining 10 %

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- will be released after satisfactory installation of the items at the consignee destination.
36. Inspection: The inspection will be done by the indenting department or his authorized representatives at the firm's premises before dispatch of material. In case, the material offered for inspection by the firm fails to meet the specifications stipulated in NIT/Order/Contract and the samples are rejected by the inspection committee, the indenting department will have the right to levy a penalty at 0.1% of the total order value. In case, the material offered for inspection fails during the 2nd inspection also, the indenting department will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd inspection also, the firm will be liable for penal action including forfeiture of EMD, risk purchase, debarring/blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.
 37. Warranty: 3 - year on site warranty from the date of installation.
 38. Bid Validity: Validity of prices should be for a period of one year from the date of bid opening.
 39. Only those Financial Bids will be Opened and evaluated which are found to fulfill all the eligibility and qualifying requirements of this tender.
 40. Make in India (MII Content): Minimum 50% local make in India content required. the bidder must upload a certificate from the OEM regarding the % of local content and the details of locations at which the local value addition is made.
 41. Besides terms & conditions recommended by the Department Technical Committee, DGS&D Haryana may incorporate Earnest Money Deposit (EMD), Performance Bank Guarantee (PBG), Security etc in tender as per DGS&D, Haryana rules/policy.

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Note:- Annexure 1-16 mentioned above may kindly be referred in the item specification document uploaded in pdf format
 Technical Bid format / Index for the Technical Bid documents

Sr. No.	Name of the document	Status of submission of proof (Yes/ No)	Remarks
1	All the documents submitted by the bidder as part of its Technical Bid are attested by the signing authority of the bidder.	Yes/ No	
2	An undertaking by the bidding firm in reference to acceptance of all the terms & conditions of the BID with all clauses and annexures.	Yes/ No	
3	Affidavit on Non Judicial Stamp Paper duly certified by the Notary stating that the firm [name of the firm] has not been blacklisted/debarred either in Government Departments/Agencies in state of Haryana or Central Government Departments/Agencies etc. as on the date with the submission of present Bid.	Yes/ No	
4	Only manufacturers / authorized dealers are entitled to quote their rates. The manufacturer/ authorized dealer is required to submit documentary proof to this effect that he/she is actually a manufacturer/authorized dealer.	Yes/ No	
5	The manufacturer/ authorized dealer should have executed the orders of similar items successfully to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency in at least one financial year out of last three Financial Years. The firms are required to submit documentary proof in this regard.	Yes/ No	
6	The bidder should have certificates for satisfactory supply of similar items to any State Govt. organization/ institution/ public sector undertaking/ Central Govt. agency is required to be submitted by the bidder, failing which the Bid is liable to be rejected. The firms are required to submit documentary proof in this regard.	Yes/ No	
7	The Average Annual Turnover of the firm/ bidder should be as per Bid requirement for the Bided / similar items during last three financial years and a certificate from CA should be attached with the bid.	Yes/ No	
8.	Net worth or turnover and installed capacity of the bidder (in case of manufacturer) should be equal of the value of the quantity Bided by the firm for the same items. The firms are required to submit documentary proof in this regard.	Yes/ No	
9	Acceptance of all the terms & conditions/clauses of the Bid and govt. instructions issued time to time with the Sign. and Stamp of the authorized person.	Yes/ No	
10	Other relevant documents attached	Yes/ No	

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Bank Details of the tenderer for e-payment:-

- a. Bank Account No.: 36435445281
- b. Bank Name.: State Bank of INDIA
- c. Branch Name.: Kaithal Road, Patiala Chowk, Jawahar Nagar
- d. IFSC Code.: SBIN0016671

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Sr. No.	Name of Item	Specification	Qty	Trade
1	Air Bag Simulator	<ol style="list-style-type: none"> 1. Driver Co Driver Air Bags. Material of Air Bag-Nylon 6.6 yarn in the denier range 420 to 840. 2. Air Bag module (ECU) crash sensor, diagnostic unit, air bag opens at 10 mph or more. Seat Belts tensile strength 4000 lbs or more. width 47 mm approx. 3. Webbing, retractors, buckles, tongues, pillar loop, Harness. Material of Seat Belt:- Nylon filament yarn or high tensile polyester Filament yarn three-Point Belt Restraint System Seat Belt should have high strength tenacity upto 10 gm/den. 4. Should have Excellent resistance to abrasion. 5. Melting point of sheet belt should be around 260 ° C. 6. Required :- Airbag Simulator Easy Resetting Type and Working With Ecu Controlled Components. Trolley Type. Adjustable Seat. Seat Belt With Pre Tensioner .Steering Wheel -schematic Drawing Printed on Board With. Ecu Wiring Harness, Relay, Ecu , Board Contactors, Passenger Airbag ,Driver Airbag . Crash Simulation With Sensor, Inflator, fault Multimeter Points ,Toggle Switch, Driver Seat Belt -one Opened Airbag Connected to Compressor (Compressor Not Provided) obd Point With Scanning Facility for Air Bag. 7. Power Source :- electric. 8. Voltage - 230 V , Single phase. 9. Automation Grade :- Semi automatic. 10. Installation on site and provided training/demonstration to concern. Required for training module. 	1 Pc	MMV
2	Air Conditioning Service unit car	<ol style="list-style-type: none"> 1. Suitable for R134A. Recovery with vacuum pump automatic drain stop after recovery. 2. Technical Specification:- Weight 95 kg (Including Gas Tank) Height 1016.0 mm Width 485.0 mm Depth 609.6.0 mm Switches Heavy Duty Control Panel LCD with Digital keypad Weight Range 50 grams to 30 kg Pressure Gauges Specific to Refrigerant Valves Quarter Turn Italian Type Compressor Hermetic (1/5) Vacuum Pump Double Stage. Compressor for pressure Cooling Fan 230 V AC, High Speed Charging Hoses 6 ft. Standard. Specific to Operation Refrigerant Tank 10 kg Standard Power Source 230 VAC. 3. Wheels Rubberized Coaster Type. 4. Fast Recovery of Refrigerant. 5. In-built pressure leak Test System (Optional). 6. Separates Oil, Moisture, Acid & other contamination from recovered Refrigerant. 7. Double Stage Recycling of Recovered Refrigerant. 8. Double stage vacuum pump ensure maximum and efficient vacuuming of the system. 9. Digital weight display of Recovered /Charged Refrigerant. 10. Auto-cut on vacuuming & recovery. 11. Auto-cut on required charged refrigerant. 12. Refrigerant charging by pressure difference. 13. Air Purge on a Click of the button. 14. Built-in Oil Charging. 15. Built-in system's oil catch bottle with measurement marking. 16. Refillable refrigerant tank. 17. Scale measurement ±2.5 grams for accurate measurement. 18. Double sided powder coated, heavy duty sheet metal chassis. 19. No bay Space required. 20. Supply with all required accessories. 	1 Pc	MMV

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		21. Installation on site and provide training/demo to concern. Required for training module. fitted on suitable stand/frame work and operational.		
3	Diesel Engine CRDI-4 Stroke For Dismantling and Assembling with Swiveling Stand	<ol style="list-style-type: none"> 1. Latest 4 Stroke 4 cylinder turbo charged BS-VI CRDI Engine more than 1200cc, 94 Bhp or more. 2. Inline engine, valve 16 No. with ECM, BCM and sensors wiring fuel feed cooling system instrument cluster. 3. a) Bore:- 70-90 mm. b) Stroke:- 80-110 mm. c) Displacement:- 1186 1493 cc, d) Compression Ratio:- 16-22:1. e) Maximum Power:- 70-110 HP at 2200-4000 RPM, f) Valve Gear:- 4 per cylinder, g) DOHC ignition and fuel supply system-CRDI. h) Cooling System:- Water Cooling. i) Fuel tank:- 10 litre including fuel gauge. j) Engine head:- Aluminium Alloy/Cast Iron Block. 4. All parts well mounted on M.S. 40 mm Square pipes Heavy duty Frame painted with dico paint. 5. The model should be made with two stand setups wherein one stand should be mounted with which can be rotated 360 degrees on the stand, so that's lowly rotating the handle provided the engine can be rotated and lock and any position and angle to enable the students to assemble or dismantle the engine. 6. New Engine for Training specially made for training purpose. Installation on site and provide training/demo to concern. 	2 Pc	MMV & Mechanic Diesel
4	Four Stroke Petrol Engine With CNG Setup Working Condition	<ol style="list-style-type: none"> 1. Engine specifications : Latest BS-VI 4 stroke. 2. Fuel Type: petrol & CNG. 3. Fuel Injection system : MPFI. 4. Engine Displacement :1200 CC, 80Bhp or more. 16 Valve. inline engine. 5. Cycle: Four Stroke. 6. No. of Cylinder: 4. 7. Engine should be supplied with ECM, ignition switch with keys , all sensors (Coolant) temperature sensor ,Mass Air Flow sensor, Manifold absolute pressure sensor, camshaft sensor, Fuel temperature sensor. Fuel pressure sensor. Exhaust temperature sensor, boost pressure throttle position sensor etc.), wiring, fuel feed system, Air intake and exhaust system, cooling system, engine starting system and charging system, radiator with cooling fan, Air filter assy.,fuels box . fuel pump and filter, lubricant system with compatible battery & instrument cluster with CNG/Petrol selection switch on pannel. 8. Insrument cluster should display fuel level. Battery charge indicator, Engine oil pressure indicator. Engine RPM Gauge etc. Fuel tank capacity minimum 10 ltr. CNG tank/cylinder with pressure gauge of capacity minimum 7 Kg etc. Engine accessories silencer, new battery with clamp and wire mesh/perforated sheet - safety gaurds for radiator and silencer. 9. All parts well mounted on M.S. C-Channel & Angle Heavy duty frame. 10. New Engine for training specially made for training purpose. Installation on site and provide training/demo to concern. 	1 Pc	MMV
5	MPFI Petrol Engine With Swiveling Stand Alog with	<ol style="list-style-type: none"> 1. Latest 4 Stroke 4 cylinder. BS VI engine. MPFI in running condition 1500cc. 2. BHP 100 or more. Valve 16. inline engine with ECM, BCM and all sensors wiring fuel feedsystem cooling system instrument cluster. 	1 Pc	MMV

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	Special Tools for Dismantling and Assembling	<p>a) Engine Type- 4 cylinder Naturally aspirated Petrol. b) Bore:- 70-95 mm, c) Stroke:- 72-110 mm. d) Displacement- 1000-1200 CC. e) Compression ratio:- 8-16:1, f) Maximum Power - 50-80 HP at 3200-6000 RPM. g) valve Gear - 4 per cylinder. h) Fuel Supply System:- MPFI type. i) Ignition System:- Spark Ignition. j) Coolin System:- Water Cooling with reserve tank. k) Fuel tank- 10 ltr including fuel gauge.</p> <p>3. Real and operating MPFI petrol engine illustration the structure and working Process engine management - circuit diagram and internal diagram the ECU with Part listing and mapping should be painted on to color printed board Base.</p> <p>4. Test point should be provide on the printed base so that different Voltage/ current resitance values etc. Can tested understood using a multimeter.</p> <p>5. Automobile matter should be fitted on the training module along with the printed circuit diagram.</p> <p>6. Engine speed , temperature , fuel pressure , charging, Light etc.</p> <p>7. The training model should be fitted with diagnose stick (DLC) for universal automobile decoder scan tool to read fault codes. clear fault codes and read data steam.</p> <p>8. Fault setting switch bank should be provided to induce fault in the training module to set Demonstrate and diagnose the line break grounding short circuit , improper contact or open circuit faults can be induced user can adjust the number of types of fault. .</p> <p>9. User can adjust the no and type of fault set the line break grounding short circuit, improper contact or open circuit fault can be induced.</p> <p>10. Good working condition, engine should be provided with fuel tank and battery.</p> <p>11. Throatal control should be provided on the module to accelerator.</p> <p>12. The Training module should be fabricated using steel pipe. spray painted.</p> <p>13. The interior setup should be provided with caster wheels the brakes for easy movement of the same.</p> <p>14. The module should be equiped with colour circuit diagram of engine management system and its external connection and parts , so that the trainees can easily identify the wiring connection to the defferent sensor and actuators.</p> <p>15. Fault setting switch bank should be provide along with the engine so that the trainees can create troubles and check the reaction of the engine and diagnose the problem and rectify.</p>		
6	Transfer case With Stand for Dismantling and Assembling	<p>1. To show the gear mechanisim of forward and reverse speeds, used in four-wheel drive vehicle.</p> <p>2. Car gear box . 5 forward and 1 reverse gear full metal body (cast iron and alloy steel).</p> <p>3. All working parts should be clearly displayed by proper cut-sectioning.</p> <p>4. The painting should be carried out in such a way that different colour should be used for different component such as idenification of sectioned area Etc.</p> <p>5. All the hardware and gear should be stable electroplated.</p> <p>6. The entire model should be mounted on sturdy iron stand with lockable caster wheels.</p> <p>7. Display board displaying complete transfer case specification with torque and clearance.</p>	1 Pc	MMV

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7	Two Post Car Lift Capacity 4000 Kg	<ol style="list-style-type: none"> 1. Hydraulic Type with mechanical arms locking. 2. Min. Lifting Height 117 mm. 3. Max. Lifting Height 1800 mm. 4. Lifting. Capacity 4000 Kg. Lifting time- 40 to 70 second. 5. Overall height 2844 mm. 6. Overall width 3419 mm. 7. Width between the columns 2799 mm. 8. Short arm length 712 to 1051 mm. 9. Long arm length 922 to 1462 mm. 10. Electro Mechanical Universal adaptor. 11. Motor Power:- 4 HP. With copper winding. 12. Channel Material: Mild Steel. 13. Installation on site and provide training/demo to concern. 	1 Pc	MMV
8	Ultrasonic Injection Cleaning Equipment	<ol style="list-style-type: none"> 1. Power supply: AC220V~50/60Hz. 2. Input power of main unit: 200W. 3. Ultrasonic cleaner power: 60W. 4. Pressure: 0~7 Bar 5. Accuracy of tube : ± 2%. 6. RPM range: 0~9999 rpm. step: 10 rpm. 7. PW range: 0.1~30ms. step: 0.1ms. 8. Timing: 1-30 min. 9. LED Display. 10. LED Background light. 11. Membrane keypad. 12. Top-supply fuel distributor. 13. Installation on site and provided training/demo to concern. 14. Minimum 1000 ML SS tank with Lid SS Stand. 15. Functions:- a) Direct flush. b) Reverse flush. c) Ultrasonic Cleaning. d) On-vehicle Cleaning. e) Electronic drain. 	1 Pc	MMV
9	Wheel Alignment Machine Computerized 3D optional	<ol style="list-style-type: none"> 1. Computerised 3 D Wheel aligner High Resolution Scientific imaging Dual Camera. 2. Structure:- Electronics. 3. Power supply- 230 v single phase. 4. Load Capacity - 4 Ton. 5. Included angle- Camber , Castor. Toe in toe out, king pin inclination. 6. Automation:- Automatic. 7. Waterproof. Targets Real time data reading 10"-24" Wheel brackets. Rotary plates. steering lock. brake pedal lock. rotary plate arresting spacers. wheel stopers. hydraulic lifting base to lift vehicle. 8. Metal based. should be working in sunlight. 9. Complete with all accessories. 10. With inbuilt PC and laser jet colour printer for A4 Size printing. 11. Installation on site and provide training/demo to concern. 	1 Pc	MMV
10	Wheel Balancing Machine	<ol style="list-style-type: none"> 1. Laser point positioning for striking weights it more precise to balance wheels. 2. Equipped with the LED light. it can open automatically during operating. Make it easier for paste the wheel weight. 3. Equipped with a foot brake. ensure stick the wheel weight more precisely. 4. Low balancing speed with 140 RPM; accuracy±1g; second time mounting on precision less or equal to 5 g. 5. The balance shaft can be idling, without requirement for the tyre weight. can self-test for the zero-axial. high degree of precision. 6. With 255 tooth of the electro-optical raster. can make the test data more precise. 7. Compare with the plastic measuring instrument. the aluminum 	1 Pc	MMV

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		<p>automatic measuring instrument not easy to deform and measurement more accurate.</p> <p>8. Standard 40mm lead screw, all the common balancer accessories can be used. It can apply to 1"-28" wheel rim, the balance shaft length 300mm, also applies to special tyres.</p> <p>9. This machine has power adapter, avoiding the various disadvantages of voltage instability.</p> <p>10. Equip 19" HD monitor with clear display and wonderful sense.</p> <p>11. Equipped with the tool box, beautiful and useful.</p> <p>12. With standard USB interface. It is convenient to upgrade the newer software.</p> <p>13. On site installation should be provided</p> <p>14. Wheel Width:- 1.5"-20".</p> <p>15. Rim Diameter:- 1.0" - 28".</p> <p>16. max. Wheel Weight:- 75 Kg.</p> <p>17. Max. Wheel Diameter:- 1180 mm.</p> <p>18. Balancing Speed:- 140 RPM.</p> <p>19. Balancing Precision:- $\pm 1g$.</p> <p>20. Second time mounting precision:- $\leq 5g$</p> <p>22. Power :- 100-230V 1ph.</p> <p>23. Motor Power:- 90 watt.</p> <p>24. Rated Power:- 138 watt.</p> <p>25. Cycle time:- 7s.</p> <p>26. Noise:- <70db.</p>		
11	Injector Testing Set	<p>1. Material - forged by high-quality cast iron, sturdy cast-iron body.</p> <p>2. Plastic fuel cup to contain the fuel.</p> <p>3. Cup capacity :- 0.8 L.</p> <p>4. With a stainless pressure gauge.</p> <p>5. Measuring value range from 0-600 bar/ 0-8000 psi.</p> <p>6. Max test pressure up to 60MPa. (100 mm Dial, 3/8" BSP thread.).</p> <p>7. Capable of accomplishing proper injection nozzle opening pressure test, leakage test, chattering test.</p> <p>8. Inspection of spray pattern, and Atomization.</p> <p>9. Injector pop tester kit is equipped with 60MPa pressure gauge, handle, high-pressure pipes, A and B type with m.m. size nuts (12 X 1.5) and (14 X 1.5) for connections, cup with a 5-micron filter, piston/element, and delivery valve.</p> <p>10. Three-way stop valve guarded the safety.</p>	1 Pc	MMV
12	Cut Section of 6 Cylinder Diesel Engine in Moving Condition to Show Movement of Internal Parts	<p>1. Full-size original six-cylinder, four strokes used Diesel engine.</p> <p>2. Parts and Accessories:- a) Five Cylinders, b) Cylinder Head, c) Inlet and Exhaust Manifolds, d) Fuel Pump, e) Oil Pump, f) Water Pump, g) Fuel Filter, h) Fuel Injection Pump, i) Injectors, j) Self-Starter, k) Dynamo.</p> <p>3. Sectioned to show the internal constructional details of the engine.</p> <p>4. A.F.H.P. 220/230V A.C. Motor is coupled through a Reduction drive unit to the engine by which the Model can be demonstrated at a very low speed of about 15 to 20 rpm.</p> <p>5. By running the engine, the working of individual parts and accessories like Crankshaft, Camshaft, Connecting rod, Pistons, Valves, different pumps, etc can be demonstrated.</p> <p>6. Glowing LEDs any other light as per firing order with cooling system instrument cluster.</p> <p>7. All electronic parts fitted in proper way.</p> <p>8. New Latest Engine for Advance Training</p> <p>9. This model is provided up to Flywheel and the complete engine is mounted on a sturdy iron frame.</p>	2 Pc	MMV & Mechanic Diesel

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13	Tyre Changer machine	<ol style="list-style-type: none"> 1. Motorised Pneumatic type rim clamping facility and bead breaking facility with air inflating device. 2. Automation Grade :- semi-Automatic. 3. Operating Pressure - 6 to 8 bar. 4. Power - 1 HP. 5. Power supply - 230 V AC . 50 Hz, Single phase. 6. Rim clamping capacity inside - 305 to 533 mm. 7. Rim clamping capacity outside - 254 to 457 mm. 8. Maximum wheel diameter - 930 mm. 9. Maximum wheel width - 76 to 305 mm. 10. Four jaws self centering chuck. 11. Horizontal moving arms. 12. Should be suitable for Car and LCV Tyres. 13. Wheel rim size - 10 inches to 21 inches. 14. Pneumatically operated twins cylinders for firm clamping. 15. Alloy wheel plastic protector for jaws should be provided. 16. Installation on site and provided training/demo to concern. 	1 Pc	MMV
14	Compressor Unit	<ol style="list-style-type: none"> 1. Motor:- 2 Hp (IS 12615 : 2011) 2. RPM:- 1440. 3. Phase:- 3 Phase. 4. Winding:- Copper winding suitable for Pressure 8 bar Delivery 50 lpm. 5. Reservoir capacity:- 24 Litres or more 6. Required:- 20 Meter Air Pipe made of Hybrid polymer 7. Supplied with air valve and auto cut system. 8. Supplied with pressure relief valve. 9. Air Pressure gauge:- 0-500 psi. 10. Compressor Tank Painted & mounted on wheels 11. Material of Tank:- Carbon Steel. 12. Weight:- 100-125 Kgs. 	1 Pc	Fitter
15	3 Furrow disc Plough with scrapper syk	<ol style="list-style-type: none"> 1. Rolled tubular frame with heavy section thickness. 2. Frame construction must provides high trash clearance 3. Side draft and thrust must controlled by fully floating furrow wheel. 4. Heavy-duty bearing to support the discs. 5. 660mm (26inches) furrow disc made from heavy boron steel (6mm thick). 6. Adjustable cross shaft supports in adjusting the cutting width and centralizing the implement 7. Possibility of upgrading 2 furrow and 3 furrow versions respectively 8. No. of Bottom 3 Discs 9. Length: 1800mm, width: 1120mm, height: 1120mm 10. Cutting Width per disc: 280mm 11. Disc Diameter: 660mm 12. Weight: 360kg 	1 Pc	Tractor Mechanic

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16	Lifting Jack Screw type 3 ton Capacity	<ol style="list-style-type: none"> 1. Lifting Capacity: 03Ton 2. Gear Worm Ratio: 8:1 3. Total Height of Body: 120mm (Approx) 4. Base Diameter: 105 mm (Approx) 5. Thickness Of Base: 09mm (Approx) 6. Spindle Diameter: 20mm and 40mm (Approx) 7. Maximum Travel of Screw Jack: 105mm (Approx) 8. Body Diameter: 75mm (Approx) 9. Drive Sleeve diameter: 90mm (Approx) 10. Drive Sleeve Thickness: 20mm (Approx) 11. Body Material: Ductile Cast Iron 12. Lifting Screw Material: Cold Drawn Steel Provided with suitable Tommy Bar: 12mm (Approx) 13. It should hold load without back driving in absence of vibration. 14. Drive Sleeve should be supported on anti friction tapered roller. 15. Drive Sleeve internal thread and Spindle External threads should be Square Type 	2 Pc	Tractor Mechanic
17	Portable Oil Monitoring Indicator	<ol style="list-style-type: none"> 1. Consists of two components <ol style="list-style-type: none"> i. Magnetic Continuous Sensor and ii. Digital Display Gauge 2. Meter Type : Digital 3. Material: Stainless Steel 4. Dial Size: 52mm 5. Measuring Range: 0-100% 6. Magnetic Sensing 7. Mounting Orientation: Top 8. Battery : 12V/DC 9. Operating Temp: -40 to 80 C 10. Probe Length: 700mm (Approx) 11. Sensor linear resolution of 10mm i.e. it monitors changes of level every 10mm. 12. Standard Resolution 10mm 13. Optional for Greater Accuracy: 5mm 14. Length of Probe: Max 70cm 15. Indicator Gauge: Dial gauge type, panel-front mounted Supply voltage of 12 or 24V/DC. 16. Display is 0 to 100 Percent 17. Should Be Suitable for Water, Diesel, Oil, in tank up to height 900mm (Approx) 	1 Pc	Tractor Mechanic
18	Rear Axle assembly gear box steering box assembly of the diesel engine	<ol style="list-style-type: none"> 1. Cast Iron .M.S. Steel. Alloy Steel 2. Surface Finish Galvanized 3. Rear Axle, Gear Box, and Steering Gear box Whole Assembly of a approximate 35 HP of Any Tractor (Old or New) 4. Rear Axle Assembly:- a) Rear axle housing, b) Rear axle both half shaft, c) supporting bearing, d) without wheel tyres 5. Gear Box Assembly:- a) constant mesh type gear box, b) forward and reverse gear c) gear change mechanism with change lever should be provided d) handle on input shaft of gear box should be provided 6. Steering gear box assembly:- a) mechanical type, b) steering wheel and steering shaft should be faced, c) steering gear box assembly should be up to drop arm and so further part attached 7. All parts and Assembly should be mounted on a 60x60mm square pipe M.S. Frame 8. Well finished and powder coated 9. All parts of assembly should be in moving condition 10. Good Working Condition item should be used 	1 Set	Tractor Mechanic

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		<p>11. Fully Floating assembly should consist of following components:</p> <p>12. Rear Axle Rear Axle assembly</p> <p>13. Gear box assembly</p> <p>14. Steering Box assembly</p> <p>15. Brake Shoe</p> <p>16. Should be mounted on suitable metal frame, paint finish</p> <p>17. Parts catalogue suitable sketch on Vinyl Board</p> <p>Brand New Suitable for Any 40 to 60 HP tractor .</p> <p>Without reduction gear Rear axle assembly. Gear box with high low function. steering box manual type.</p> <p>Complete system fitted on wheel stand with accessories.</p>		
19	Spring Tension Tester	<p>1. Max Diameter of Work piece < 500mm</p> <p>2. Mass Scope of Work piece < 900kg</p> <p>3. Type Compression Tension Machine Max capacity < 1000KN</p> <p>4. Accuracy Grade: 1</p> <p>5. Load Way: Electronic Load</p> <p>6. Loading Method: Static Load</p> <p>7. Display: Digital</p> <p>8. Control: Computer Control</p> <p>9. Weight: 0-100Kg</p> <p>10. Test Speed 0-300mm/Min</p> <p>11. Power Source: AC 220V</p> <p>12. Specification 480*400*460mm Dimension</p> <p>13. Test Load Type: 10n</p> <p>14. Minimum Display Load: 0.001n</p> <p>15. Single Bit: Kgf, Lbf, N</p> <p>16. Test Travel: 65mm</p>	1 Pc	Tractor Mechanic
20	Vacuum Gauge to read 0 to 760 mm of Hg	<p>1. Material - Stainless Steel</p> <p>2. Gauge type - Glycerine filled bordon tube type</p> <p>3. Display type - Analog</p> <p>4. Dial size - 100 mm (approx.)</p> <p>5. Range - -760 mm hg to 0 and - 30 InHg to 0</p> <p>6. Connection - 3/8 inch BSP</p> <p>7. Accuracy $\pm 1.6\%$</p> <p>8. Suitable leak Proof connection to gauge</p> <p>9. Should be provided with suitable Nipples and hoses to check vacume in different size engines</p>	2 Pc	Tractor Mechanic
21	Injector Multi Hole Type	<p>1. Should consists of two injectors Multi hole (4holes) Single Hole Pintle Type</p> <p>2. Set should consist of 4 Injector</p> <p>3. Parts catalogue suitable sketch on Vinyl Board</p> <p>4. Material : Alloy Steel</p> <p>5. Fuel injector made from carbon steel and nitrided.</p> <p>6. Tractor Multi hole.</p> <p>7. Used in tractors.</p>	4 Pc	Tractor Mechanic
22	Automotive exhaust 5 Gas analyser Petrol Diesel or Diesel Smoke Meter	<p>1. Power Supply:- 230 Volt AC, Single Phase, 50 Hz.</p> <p>2. Battery:- 12 volt DC $\pm 2\%$.</p> <p>3. Power:- 300W AC/100 W DC (Without Heater).</p> <p>4. Measures Smoke Opacity of diesel vehicle in percentage - 0-99.9%.</p> <p>5. Resolution:- 0.10%.</p> <p>6. K-Value - 0-9.99m⁻¹, Resolution - 0.1m⁻¹, Linearity - $\pm 0.1m^{-1}$, Repeatability - $\pm 0.1m^{-1}$, Zero and span Drift - $\pm 0.1m^{-1}$.</p>	2 Pc	MMV & Mechanic Diesel

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		<p>7. Response time - Physical < 0.4 seconds, Electrical < 1 millisecond.</p> <p>8. Warm up time @ 20 C and above < 7 seconds.</p> <p>9. Engine RPM (Battery based) - 400 - 9990 RPM. Resolution - 10 RPM.</p> <p>10. Oil Temperature - 0 to 150 °C, Operating Temperature - 0 to 50 °C.</p> <p>11. Smoke measuring cell Length - 215 mm (430 mm Folded Length).</p> <p>12. Measurement Principal:- Partial flow, Optics based on folded Geometry.</p> <p>13. Suitable for free acceleration test.</p> <p>14. Engine RPM Measurement - Vibration Sensor based and battery based.</p> <p>15. Engine Oil Temperature Measurement - Operates on 230 VAC and 12 VDC.</p> <p>16. Portable Compact and light weight Design suitable for road test using vehicle battery.</p> <p>17. Low and High voltage indication for battery operation.</p> <p>18. Automatic zero and span calibration.</p> <p>19. Automatic pressure regulation and moisture separation.</p> <p>20. Hand held menu driven LCD remote control unit.</p> <p>21. Pass/Fail indication and emission limit in print out.</p> <p>22. Vehicle No. , Vehicle specification, operator name and test data in printout. 23. Rs-232 C serial port FPR PC interface.</p> <p>24. Accelerometer based RPM measurement.</p> <p>25. Display 4 digit LED.</p> <p>26. Compatible for diesel Vehicle.</p> <p>27. The Engine RPM allows the easy measurement of RPM.</p> <p>28. Installation on site and provide demo or training to concern.</p>		
23	Air Ratchet with Standard Accessories	<p>1. Tightening torque max.:- 35.2 nm.</p> <p>2. Dimension:- 236 mm x 62 mm.</p> <p>3. Air connection inlet:- 1/4".</p> <p>4. RPM:- 240.</p> <p>5. Forward and reverse single stage switch.</p> <p>6. Working Pressure 6.3 bar.</p> <p>7. Cold Insulated handle.</p> <p>8. Sound pressure level - 87.5 dBA.</p> <p>9. Hose diameter:- 10 mm.</p> <p>10. Output Square:- 1/2 inch.</p> <p>11. Material:- Alloy Steel.</p> <p>12. Suitable adaptor to connect air hose.</p>	2 Pc	Mechanic Diesel
24	Fuel Injection Pump VE pump/Distributor fuel rotary pump(DPC) pumps/along with special tool and accessories	<p>1. Material:- Mild Steel, alloy Steel.</p> <p>2. Injection Pressure:- >2000 PSI.</p> <p>3. Used in small trucks and cars.</p> <p>4. Suitable for 4-cylinder engine.</p> <p>5. Fuel:- Diesel, attached with governor.</p> <p>6. Along with special tools and accessories.</p> <p>7. It should not be a cut section but supplied complete assembly.</p> <p>8. Figure and Diagram is indicative FIP of any 4-cylinder diesel engine can be procured.</p> <p>9. Mounted on a wooden base and painted.</p> <p>10. VE pump with all parts such as cam shaft, plunger, barrel, control lever, fuel cut off valve, holder, delivery valve and spring, pump body etc.</p> <p>11. Assembly should be new.</p>	1 Pc	Mechanic Diesel

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