

**Directorate of Employment and Training, Chhattisgarh, Naya Raipur**  
**Purchasing of Tools, Equipments and Machineries As per Tender(F.Y. - 2016-17)**

**Bill of Quantities**

**GROUP - 4 (DIESEL RELATED EQUIPMENT & MACHINERY)**

Code No.	S.No.	Description of Item as per Tool List	TOTAL QTY.
ELE32	1	Grease Gun (7000 psi pressure 28 stro.,lenth 3/4")	11
DM 35	2	Car Jet washer with Standard accessories-( high pressure water hose & Nozzel) Max input Power: 90-500KW Size: 1500 x 785 x 530 mm	13
DM 44	3	Compressin testing gauge suitable for diesel Engine with standard accessries-Easy reading 2-1/2" diameter rubber covered ,gauge features-colour coded quadrupal calibration with o-300 psi ,21 kg/cm,21 bar & 2100 kpa.	26
DM 45	4	Connecting rod alignment fixtrue with all attachments.	13
DM 71	5	Fuel feed pump Plunger Type ,Double Acting for Diesel Engine (Mahindra jeep )	13
DM 72	6	Fuel injection pump (Diesal) inline (4 & 6 cylender)	13
DM 73	7	Fuel injection pump dismantling tool kit (inline pump) /Universal vice	13
DM 74	8	Fuel injection pump VE pump / Distributor fuel rotary pump (DPC) pumps/ along with specia tools and accessories	13
DM 78	9	Grease Gun pressure type-Aluminium Head with air bleeder & bulk loader ,capacity-500 gm.	26
DM 79	10	Grease Gun heavy duty trolley type 10 kg capacity	13
DM 92	11	Injector - Multi hole type & Pintle type diesel engine.	52
DM 93	12	Injector Cleaning Unit ultrasonic cleaning machine,tank capacity:2 L,with timer,heater&power regulate with drainage	13
DM 94	13	Injector testing set ( Hand Operated) For Nozzel size-P,R,S & T,Pressure Gauge-0-400 bar.,connecting threthread size-M12x1.5,M14x1.5	13
DM 114	14	Piston ring compressor - for larger pistons (100-160mm diameter). Length is 80mm (approx 3.15"). For easy insertion of piston into cylinder bore and even compression over full ring length. Ratchet mechanism. Complete with 6mm L-key.	26
DM 115	15	Piston Ring Expander and remover-Piston Ring Pliers Auto Repair Installer Expander Professional 100-160mm1. Special steel,2. Nickel-plated,3. for removing and mounting rings	26
DM 116	16	Piston Ring groove Cleaner For the removal of carbon deposits from piston ring grooves. Suitable for piston sizes from 51mm to 127mm.,Complete with three six-blade cutters. Cutter 1 1/16"-5/64"-3/32"-1/8"-5/32"-3/16", Cutter 2 -2.0/2.5/3.0/4.0/4.5mm & 1/4", Cutter 3-1.2/1.5/1.8/2.8/5.0/5.5mm.	13
DM 124	17	Radiator cut section cross flow for LMV.	13
DM 125	18	Radiator cut section Down flow for HMV.	13
DM 126	19	Radiator pressure cap for LMV jeep.	26
DM 146	20	Spark lighter -Igniting welding blowpipe & cutting blowpipe.	26
DM 147	21	Spark plug spanner 14 mm X 18 mm Size	26
DM 148	22	Starter motor axial type re-engagement type & Co-Axial Type (Each) 12 vlt	13

Code No.	S.No.	Description of Item as per Tool List	TOTAL QTY.
DM 154	23	Set of 5 stud extractors, 5 cone bits and a tap wench 831.1 (for use with the 4 smaller extractors only) Supplied in a plastic case BP.102 (204 x 122 x 52 mm)	26
DM 158	24	Tandem master cylinder with booster-Brake Vacuum Booster ( single & tandem, 6~11" working diameter) , Brake Master Cylinder (Dia. 19 ~ 27) , Brake Fluid Reservoir (w/wo alarming unit) Brake Vacuum Booster with Master Cylinder	52
DM 161	25	Telescope gauge Set 6 Pc-Spring loaded, self centering plungers,Twist-knob for measurement locking, Includes vinyl case,Range (ft.) 5/16 in. to 6 in.	52
DM 168	26	Turbocharger cut sectional view Clogged air filter causing higher vacuum at turbo. Blocked turbo drain tube causing oil to build up behind turbo seal for H MV. Oil in sump too high and covering drain outlet causing oil to back up in the drain tube. <del>Excessive crank case pressure due to breather fault causing blow by</del>	13
DM 169	27	Tyre pressure gauge with holding nipple (0-20 LBS)	26
DM 170	28	Universal puller for removing pulleys, bearing- 3PC BEARING PULLER SET- Sizes: 3", 4" And 6",Chrome Plated, Reversible Drop Forged Legs For Internal Or External Pulling	13
DM 173	29	Valve Lifter Reversible Jaw Adaptor for multi-valve Engine,Capacity-45-145 mm,throated clearance 250mm big window jaw adaptor.	13
DM 177	30	Water pump for dismantling assembling (centrifugal Type.) for LMV jeep diesel Engine.	52
DM 182	31	Automotive exhaust 5 gas analyzer (petrol & Diesa) - Measuring range: - CO <sub>2</sub> : 0 to 20 % vol,CO : 0 to 10 % vol, hc : 0 to 20000 ppm vol n Hexane, O <sub>2</sub> : 0 to 22 % vol, NO : 0 to 5000 ppm, O 0 to 9.999, Engine Speed 400 to 600 rpm, Oil Temp.- 30C to 125C (approx)	13
DM 184	32	Diesal Engine - CRDI - 4 Stroke for Dismanting and assembling with swiveling stand	13
DM 185	33	Diesal Engine (Running condition) Staionary type -Singal Cylinder,5 HP ,1500 RPM, Water cooled ,Vertical Type ,	13
DM 197	34	Spring tension tester CAPACITY: 200 lbf /100 kgf /1000 N DIGITAL FORCE & TRAVEL DISPLAY PRECISION HANDWHEEL DRIVE	13
DM 198	35	Tin smiths bench folder 600 X 1.6 mm Press Brake Style: Box & Pan Brake Maximum Mild Steel Capacity (mm): 1.60 Maximum Mild Steel Capacity (Gauge): 16 Machine Type: Bench Box and Pan Brake Capacity In Mild Steel: 16 Gauge Bending Length: 48-1/4 Maximum Depth of Box: 4 Finger Width (Inch): 5 at 2In Maximum Beam Lift (Inch): 1-1/4	13
DM 199	36	Trolley type portable air compressor single cylinder with 45 liters capacity Air Tank, along with accessories & with working pressure 6.5 kg/sq cm	13
DM 202	37	Working Condition of Diesal Engine-CRDI-4 stroke Engine Assemble with fault simulation board	13