

ഇൻഡസ്ട്രിയൽ ട്രെയിനിംഗ് ഇൻസ്റ്റിറ്റ്യൂട്ട്

**ചാക്ക, തിരുവനന്തപുരം
(കേരള സംസ്ഥാനം)**

നം.ബി5/155/2018

തീയതി, 31.01.2018

ഫോൺ. 0471 -2502612

പുനർദർശാസ് പരസ്യം

വ്യവസായ പരിശീലന ഇൻസ്റ്റിറ്റ്യൂട്ടിലെ മെക്കാനിക്
ഡീസൽ ട്രെയിലേക്ക് ഉപകരണം സംഭരണം ചെയ്യാൻ താല്പര്യമുള്ള
സ്ഥാപനങ്ങളിൽ നിന്നും മുദ്രവച്ച ദർശാസുകൾ ക്ഷണിക്കുന്നു.

ക്രമ നം	ദർശാസ് നമ്പർ, ഇനം	ദർശാസ് വിൽപ്പനയുടെ അവസാന തീയതി	ദർശാസ് സ്വീകരിക്കുന്നതിനുള്ള അവസാന തീയതി	ദർശാസ് തുറക്കുന്ന തീയതി	ദർശാസിന്റെ വില(GST) ഉൾപ്പെടെ			നിരതദ്രവ്യം
					ഒറിജിനൽ	ഡ്യൂപ്ലിക്കേറ്റ്		
1	2	3	4	5	6			7
1	B5/1/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	450		225	1500
2	B5/2/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	1120		560	5000
3	B5/3/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	1120		560	5000
4	B5/4/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	450		225	1800
5	B5/5/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	800		400	3100
6	B5/6/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	450		225	2000
7	B5/7/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	560		280	2400
8	B5/8/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	450		225	1800
9	B5/9/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	675		338	2900

ദർശാസ് വില പണമായിട്ടോ മണിയോർഡറായിട്ടോ മാത്രമേ സ്വീകരിക്കുകയുള്ളൂ. ദർശാസ് നമ്പർ, തീയതി എന്നിവ രേഖപ്പെടുത്തി മുദ്രവച്ച കവറുകൾ പ്രിൻസിപ്പാൾ, വ്യവസായിക പരിശീലന കേന്ദ്രം, ബീച്ച് റോഡ്, ചാക്ക, തിരുവനന്തപുരം - 695007 എന്ന വിലാസത്തിൽ അയയ്ക്കേണ്ടതാണ്. താമസിച്ച് ലഭിക്കുന്ന ദർശാസുകൾ പരിഗണിക്കുന്നതല്ല. ഒറിജിനൽ ദർശാസ് പ്രമാണത്തോടൊപ്പം മേൽ പറഞ്ഞ തുക നിരതദ്രവ്യമായും 200 രൂപ (ഇരുന്നൂറ് രൂപ മാത്രം) വിലയുള്ള കേരള സർക്കാർ മുദ്ര പത്രത്തിൽ പ്രാഥമിക കരാർ പത്രവും ഉണ്ടായിരിക്കേണ്ടതാണ്. ദർശാസ് തുറക്കുന്ന തീയതി മുതൽ മൂന്ന് മാസം വരെ വിലനിരക്ക് പ്രാബല്യത്തിൽ ഉണ്ടായിരിക്കണം. അല്ലാത്ത ദർശാസുകൾ യാതൊരു കാരണവശാലും പരിഗണിക്കുന്നതല്ല. കേരളത്തിന് പുറത്തുള്ള കമ്പനികൾക്ക് മുദ്രപത്രം ആവശ്യമുണ്ടെങ്കിൽ 225 രൂപ(200രൂപ മുദ്ര പത്രം, 25 രൂപ പോസ്റ്റൽ ചാർജ്) മണിയോർഡറായി അയച്ചുതന്നാൽ ഈ ആഫീസിൽ നിന്നും മുദ്രപത്രം വാങ്ങി അയച്ചുതരുന്നതാണ് (മണിയോർഡർ മാത്രമേ സ്വീകരിക്കുകയുള്ളൂ.) ദർശാസ് പ്രമാണം കൈമാറ്റം ചെയ്യുവാൻ പാടുള്ളതല്ല. വിശദവിവരങ്ങൾ www.itichackai.kerala.gov.in എന്ന വെബ്സൈറ്റിലൂടെയും

പ്രിൻസിപ്പാൾ 31/1/18

INDUSTRIAL TRAINING INSTITUTE

(KERALA STATE)

ITI Chakai, Beach Road,

Tvpm-695007

Phone: 0471-2502612

Dated, 31-1-2018.

No.B5/155/2018

RE TENDER NOTICE

Sealed competitive tenders are invited from approved firms/companies/traders for the supply of Training Materials for Mechanic Diesel Trade at Industrial Training Institute, in Chackai, Tvpm. The details are given below.

SI No	Tender No & Items	Last Date & time of sale of Tender	Last Date and Time of receipt of sealed Tender	Date and time of opening sealed Tender	Cost of Form(including 12% GST)		Earnest Money Deposit
1	2	3	4	5	6		7
1	B5/1/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	450	225	1500
2	B5/2/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	1120	560	5000
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9	B5/9/2018	23/2/2018 4 PM	24/2/2018 11 AM	24/2/2018 2 PM	675	338	2900

The cost of the Tender Forms will be accepted only by Cash or Money Order. The Tender should be super scribed with Tender number and date addressed to **The Principal, Govt:ITI Chackai,Beach Road Tvpm-695007**. Late Tenders will not be accepted. The above mentioned amount should be enclosed as Earnest Money Deposit. There must be a Validity period of three months from the date of opening the Tenders. Otherwise the Tenders will be summarily rejected. The tenders in original should be accompanied with preliminary agreement in Kerala Stamp Paper worth Rs.200/-(Rupees Two Hundred only), Otherwise the Tender will not be considered. The Stamp Paper will be forwarded to the firms outside Kerala if required by remitting Rs.225/-(Rupees Two Hundred and Twenty Five Only) separate by Money Order (Rs25/- is intended to cover postage and incidental expenses). Detailed specification of items required can be obtained from the office of the undersigned during office hours. The details are available in the website www.itichackai.keralagov.in

Principal

P(1)

MECH: DIESEL (2017-18, AFFILIATION)

MEASURING INSTRUMENT -TENDER No B5/1/2018

SL No	SI No in the syll	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	137	Surface gauge with dial test indicator plunger type i.e. 0.01 mm	Surface gauge with dial test indicator- plunger type, Least count- 0.01 mm Solid base, with all accessories. (Mitutoyo or Equivalent make)	7	
2	142	Telescope gauge	Telescope gauge -With measuring head and accessories (Mitutoyo or Equivalent make)	8	
3	150	Tyre pressure gauge with holding nipple	Tyre pressure gauge- with holding nipple Dial type, Branded	4	
4	156	vernier caliper 0-300 mm with least count 0.02mm	Vernier caliper- A 300 with inside and depth measurement with all accessories in a box. Graduations engraved on both in mm & inches ,inside outside & depth, Least count 0.02mm (Mitutoyo	7	
5	18	Spring tension tester	Spring tension tester- Bench type	1	
TOTAL					

595800

928000

304300

1828100

MECH: DIESEL (2017-18, AFFILIATION)

WORKSHOP INSTRUMENTS B5/2/2019

SL No	SI No in the syllabus	Item Description	Recommended specification	Total Quantity	Name of consignee
1	2	Air blow gun with standard accessories	Air blow gun- With trigger operated, and nozzles	2	
2	3	Air impact wrench with standard accessories	Air impact wrench- Medium duty type with pressure regulator & filter, coil type flexible pipelines, suitable sockets (9mm to 27mm), pipe connectors and all other accessories.	8	
3	4	Air ratchet with standard accessories	Air ratchet -Medium duty type with pressure regulator & filter, coil type flexible pipelines, suitable sockets, pipe connectors and all other accessories.	8	
4	12	Belt Tensioner gauge	Belt Tensioner Gauge- Medium duty type. With all accessories.	2	
5	25	Compression testing gauge suitable for diesel Engine with standard accessories	Compression testing gauge -suitable for Diesel engine. With different sizes of connectors Suitable for different engines (minimum 4 different types) and pressure holding facility	3	
6	26	Connecting rod alignment fixture	Connecting rod alignment fixture -with base All accessories, checking, bent, twist, offset, precision ground surface, connecting rod without piston v-block, bent and twist indicator, bending bar with aligner. New,	2	
7	28	Cylinder bore gauge capacity 20 to 160 mm	Cylinder bore gauge- capacity 20 to 160 mm With measuring head, extension rods, and all accessories. Least count 0.01mm Calibration certificate from NABL approved lab in original to be produced along	6	
8	29	Cylinder liner- Dry & wet liner, press fit & slidefit liner	Cylinder liner- Dry liners (4 nos) & wet liner (4 nos) in a set LCV type, New, Genuine parts	2	
9	32	Dial gauge type 1 Gr. A (complete with clamping devices and with magnetic)	Dial gauge- type 1 Gr. A (complete with clamping devices and stand) International standard, Least count 0.01mm with all accessories. Calibration certificate from NABL approved lab in original to be	8	
10	42	Engineers stethoscope	Engineers stethoscope- Hand held type, With all accessories.	2	
11	52	Fuel feed pump for Diesel	Fuel feed pump- Plunger type Diesel pump. Genuine parts, New. (MICO or Equivalent make)	1	
12	54	Fuel injection pump dismantling tool kit /Universal Vice	Fuel injection pump dismantling tool kit -Universal Vice universal vice,holder spanner, screw driver, spring locking plates, governor weight remover etc in one set for inline jerk and rotary pumps.	2	
13	57	Glow plug tester	Glow plug tester -Power input 8.5-15 Volt Max. current 80 Ampere	4	
14	73	Injector - Multi hole type, Pintle type	Injector - Multi hole type, Pintle type multi spray nozzle and pintle nozzle injector of CRDI Engine (QTY in sets)	6	
15	105	Radiator cut section-cross flow	Radiator cut section-cross flow LCV type, Genuine parts, new	2	
16	106	Radiator cut section-down flow	Radiator cut section-down flow LCV type, Genuine parts, new	2	
17	107	Radiator pressure cap	Radiator pressure cap- LCV type, Genuine parts, new	3	
18	120	Solid Parallels in pairs (Different size) in Metric	Solid Parallels -in pairs (Different size) in Metric Steel made with wing nut holding. 5mm-20mm (4 different sizes)	4	
19	128	Spark plug spanner 14mm x 18mm x Size	Spark plug spanner- 14mm x 18mm x Size With handle.	4	
20	129	Starter motor axial type, pre-engagement type & Co-axial	Starter motor- axial type, pre-engagement type & Co- axial type with all accessories, Genuine parts, New (EACH)	2	
21	133	Straight edge gauge 2 ft.	Straight edge gauge -2 feet. Stainless steel, 5mm thick	4	

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22	134	Straight edge gauge 4 ft.	Straight edge gauge -4 feet .Stainless steel, 5mm thick	4
23	135	Stud extractor set of 3	Stud extractor -set of 3 With handle. Ezy out type	4
24	136	Stud remover with socket handle	Stud remover -with socket handle With all accessories.	2
25	139	Tandem master cylinder with booster	Tandem master cylinder -with booster LCV type with operating mechanism. Genuine parts, New.	4
26	146	Timing lighter	Timing lighter - DC three lead type.	3
27	151	Universal puller for removing pulleys, bearings	Universal puller- for removing pulleys, bearings 3 leg type, max: spread, 250mm and 350mm	1
28	153	Vacuum gauge to read 0 to 760 mm of Hg.	Vacuum gauge -to read 0 to 760 mm of Hg. With all accessories	2
29	154	Valve Lifter	Valve Lifter -C- type	1
30	155	Valve spring compressor universal.	Valve spring compressor- universal. Overhead valve spring compressor	2
31	157	Vice grip pliers	Vice grip pliers	2

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MECH: DIESEL (2017-18, AFFILIATION)

P-3

HAND TOOLS BS/3/2018

Sl. No	Sl No in the	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	1	Allen Key set of 12 pieces (2mm to 14mm)	Allen Key set -set of 12 pieces (2mm to 14mm) Hexagonal key, complete set. Chrome Vanadium steel made.	8	I. T. I. Chackai
2	2	Caliper inside 15 cm Spring	caliper inside-15 cm Spring type ,steel made with Hardened tips	9	
3	3	p	Calipers outside- 15 cm spring type, steel made With Hardened tips	9	
4	5	Dividers 15 cm Spring	Dividers- 15 cm Spring type, steel made With Hardened tips	10	
5	6	Electrician Screw Driver 250mm	Electrician Screw Driver- 250mm length, blade dia5mm, tip diamension 5 x 0.8mm , Plastic handle and flat tip	12	
6	9	Philips Screw Driver set of 5 pieces (100 mm to 300 mm)	Philips Screw Driver- set of 5 pieces (100 mm to 300 mm), plastic handle,in step of 50mm.	9	
7	13	Scriber 15 cm	Scriber- 15 cm Hardened steel. IS 844-1979	8	
8	16	Spanners socket with speed handle, T-bar, ratchet and universal upto	Spanners socket -with speed handle, T-bar, ratchet and universal upto 32 mm, with box CRV steel, complete set in a	12	
9	17	Steel rule 30 cm inch and metric	Steel rule -30 cm inch and metric Stainless Steel made with Engraved readings. GRADE 304	8	
10	19	Wire cutter and stripper	Wire cutter and stripper - Two jaw type,With insulated handle IS 5087-1969	12	
11	1	Adjustable spanner (pipe wrench 350 mm)	Adjustable spanner- (pipe wrench 350 mm) Steel made with parallel jaws. IS 4003 (1)1978	3	
12	5	Allen Key set of 12 pieces (2mm to 14mm)	Allen Key- set of 12 pieces (2mm to 14mm) Hexagonal key, complete set.Chrome Vanadium steel made. IS 3082-1988	4	
13	7	Angle plate adjustable 250x150x175	Angle plate- Adjustable 250x150x175 With angle setting facility. Stain less steel made.	2	
14	8	Angle plate size 200x100x200mm	Angle plate- Size 200x100x200mm Solid 90°angled type, Stain less steel made.	4	
15	13	Blow Lamp 1 litre	Blow Lamp- 1 litre Kerosene, refillable type.	4	
16	14	Caliper inside 15 cm Spring	Caliper- inside 15 cm Spring With Hardened tips	8	
17	15	Calipers outside 15 cm spring	Calipers- outside 15 cm spring With Hardened tips	8	
18	18	Chisel 10 cm flat	Chisel -10 cm flat Octagonal stock, 60° cutting angle IS 402-1990	8	
19	19	Chisels cross cut 200 mm X 6mm	Chisel -cross cut 200 mm X 6mm Octagonal stock	8	
20	21	Clamps C 100mm	Clamps C- 100mm With suitable handle. IS 9181-1988	4	
21	22	Clamps C 150mm	Clamps C- 150mm With suitable handle. IS 9181-1988	4	
22	23	Clamps C 200mm	Clamps C -200mm With suitable handle. IS 9181-1988	4	
23	27	Copper bit soldering iron 0.25 Kg	Copper bit soldering iron -0.25 Kg With suitable handle.	8	
24	31	Depth micrometer 0-25mm	Depth micrometer -0-25mm Analog type, Least count 0.01mm, with all accessories in a box calibration certificate	8	
25	35	Dividers 15 cm Spring	Dividers -15 cm Spring type, steel made With Hardened tips	8	
26	36	Drift Punch Copper 15 Cm	Drift Punch -Copper 15 Cm with dia 10mm	6	
27	37	Drill point angle gauge	Drill point angle gauge -With metric system units.	2	
28	38	Drill twist 1.5 mm to 15 mm (various sizes) by 0.5 mm	Drill Twist -(assorted) (Consumables) HSS made straight shank, 0.5mm step	4	

29	39	Electric Soldering Iron 230 V 60 watts 230 V 25 watts	Electric Soldering Iron- 230 V 60, watts 230 V 25 watts With insulated handle and suitable stand. (one each)	4
30	40	Electric testing screw driver	Electric testing screw driver- With neon bulb indicator, flat tip. IS 5579-1985	8
31	41	Engineer's square 15 cm. Blade	Engineer's square- 15 cm. Blade Stainless steel made.	8
32	43	Feeler gauge 20 blades (metric)	Feeler gauge- 20 blades (metric) Selective type with scratch and wear resistant blades.	5
33	44	File flat 20 cm bastard	File flat- 20 cm bastard, Hardened Steel, Plastic Handle	8
34	46	File, Square 20 cm second cut	File-, Square 20 cm second cut, Hardened Steel, Plastic Handle	8
35	47	File, Square 30 cm round	File-, Square 30 cm round, Hardened Steel, Plastic Handle	7
36	48	File, triangular 15 cm second cut	File-, triangular 15 cm second cut, Hardened Steel, Plastic Handle	8
37	49	Files assorted sizes and types including safe edge file (20 Nos)	Files- assorted sizes and types including safe edge file (20 Nos) Flat file, hand file, round file, half round file, square file,	4
38	50	Flat File 25 cm second cut	File -flat 25 cm second cut, Hardened Steel, Plastic Handle	8
39	51	Flat File 35 cm bastard	File -flat 35 cm bastard, Hardened Steel, Plastic Handle	8
40	56	Gloves for Welding (Leather and Asbestos)	Gloves- for Welding (Leather and Asbestos) 1 SET EACH	10
41	59	Grease Gun	Grease Gun- Medium type, 1000ml	4
42	62	Hacksaw frame adjustable 20-30 cm	Hacksaw frame- adjustable 20-30 cm Hand type, with handle and attachments of blades.	16
43	63	Hammer Ball Peen 0.75 Kg	Hammer ball peen -0.75 kg Forged steel, handle. IS 841-1983	8
44	64	Hammer Chipping 0.25 Kg	Hammer ball peen- 0.25 kg Forged steel, handle.	10
45	65	Hammer copper 1 Kg with handle	Hammer copper- 1 Kg, Two faced type, handle	8
46	66	Hammer Mallet	Hammer Mallet- 350gm, handle.	6
47	67	Hammer Plastic	Hammer Plastic -250gm, handle IS 10838-1984	6
48	68	Hand operated crimping tool (i) for crimping up to 4mm and (ii) for crimping up to 10mm	Hand operated crimping tool- (i) for crimping up to 4mm and (ii) for crimping up to 10mm With insulated handle. (One	4
49	69	Hand reamers adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm,	Hand reamers -adjustable 10.5 to 11.25 mm, 11.25 to 12.75 mm, 12.75 to 14.25 mm and 14.25 to 15.75 mm HSS complete	4
50	70	Hand Shear Universal 250mm	Hand Shear -Universal 250mm	4
51	71	Hand vice – 37 mm	Hand vice – 37 mm With flat jaws	2
52	72	Hollow Punch set of seven pieces 6mm to 15mm	Hollow Punch- set of seven pieces 6mm to 15mm (Quantity in Sets) with standard length and knurled grip.	4
53	76	Insulated Screw driver 20 cm x 9mm blade	Insulated Screw driver -20 cm x 9mm blade, handle, flat tip.	8
54	77	Insulated Screw driver 30 cm x 9mm blade	Insulated Screw driver- 30 cm x 9mm blade, handle, flat tip.	8
55	78	Left cut snips 250mm	Left cut snips -250mm	8
56	80	Magneto spanner set with 8 spanners	Magneto spanner -set with 8 spanners Metric, holed in a single pin joint.	2
57	81	Magnifying glass 75mm	Magnifying glass -75mm Shatter resistant type with protecting cover	3
58	84	Oil can 0.5 liter capacity	Oil can- 0.5 liter capacity, Hand type.	6
59	86	Oil Stone 15 cm x 5 cm x 2.5 cm	Oil Stone -15 cm x 5 cm x 2.5 cm With rough and smooth sides.	2
60	88	Outside micrometer 0 to 25 mm	Outside micrometer- 0 to 25 mm Analog type, Least count 0.01mm, with all accessories in a box (Mitutoyo or Equivalent	7

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61	89	Outside micrometer 25 to 50 mm	Outside micrometer 25 to 50 mm Analog type, Least count 0.01mm, with all accessories in a box (Mitutoyo or Equivalent)	7
62	90	Outside micrometer 50 to 75 mm	Outside micrometer -50 to 75 mm Analog type, Least count 0.01mm, with all accessories in a box (Mitutoyo or Equivalent)	1
63	91	Outside micrometer 75 to 100 mm	Outside micrometer -75 to 100 mm . Analog type, Least count 0.01mm, with all accessories in a box (Mitutoyo or Equivalent)	1
64	92	Philips Screw Driver set of 5 pieces (100 mm to 300 mm)	Philips Screw Driver- set of 5 pieces (100 mm to 300 mm), plastic handle,in step of 50mm.	4
65	93	Pipe cutting tool	Pipe cutting tool -Medium duty type. Cut up to Dia 25mm	4
66	94	Pipe flaring tool	Pipe flaring tool -Medium duty type. Flare up to Dia 25mm	4
67	95	Piston ring compressor	Piston ring compressor -standard	2
68	96	Piston Ring expander and remover.	Piston Ring expander and remover-. Standard	2
69	102	Portable electric drill Machine	Portable electric drill Machine -Max: drill size Dia: 12mm with chuck key, Insulated handles and accessories. Max: speed	1
70	103	Prick Punch 15 cm	Prick Punch- 15 cm High carbon steel made, Handle	6
71	104	Punch Letter& Number (4mm)	Punch Letter& Number- (4mm) High carbon steel made, complete set	4
72	108	Right cut snips 250mm	Right cut snips- 250mm	4
73	109	Rivet sets snap and Dolly combined 3mm, 4mm, 6mm	Rivetting sets (snap and dolly)- combined 3mm, 4mm, 6mm With snap holder.	4
74	110	Scraper flat 25 cm	Scraper- flat 25 cm, Handle	4
75	111	Scraper half round 25 cm	Scraper -half round 25 cm, Handle	4
76	112	Scraper Triangular 25 cm	Scraper- Triangular 25 cm, Handle	4
77	113	Scriber 15 cm	Scriber- 15 cm Hardened steel.	4
78	115	Set of stock and dies -Metric	Stock and dies – Set of Metric, Complete set (6 mm to 24mm)	3
79	116	Shear Tin Man's 450 mm x 600mm	Shear Tin Man's -450 mm x 600mm With suitable handle.	4
80	117	Sheet Metal Gauge	Sheet Metal Gauge- Stainless Steel made, wear resistant type	4
81	118	Sheer Tinmans 300mm	Shaer Tinmans -300mm With suitable handle.	8
82	119	Soldering Copper Hatchet type 500gms	Soldering Copper -Hatchet type 500gms	4
83	121	Spanner Clyburn 15 cm	Spanner -Clyburn 15 cm	2
84	123	Spanner T. flocks for screwing up and up-screwing inaccessible	Spanner T-flocks -for screwing up and up-screwing inaccessible positions CRV steel made with handle, (10mm-	4
85	124	Spanner, adjustable 15cm.	Spanner, -adjustable 15cm Open ended type. IS 6149-1984 Grade II	4
86	125	Spanner, ring set of 12 metric sizes 6 to 32 mm.	Spanner ring-. set of 12 pieces (6mm to 32mm) CRV Steel made	2
87	126	Spanners socket with speed handle, T-bar, ratchet and universal upto	Spanners socket with speed handle, T-bar, ratchet and universal upto 32 mm, with box CRV steel, complete set in a box with	4
88	127	Spark lighter	Spark lighter- For igniting gas welding touch.	3
89	130	Steel measuring tape 10 meter in a case	Steel measuring tape -10 meter in a case Steel engraved.	8
90	132	Steel rule 30 cm inch and metric	Steel rule -30 cm inch and metric Stainless Steel made with Engraved readings. GRADE 304	8
91	140	Taps and Dies complete sets (5 types)	Taps and Dies -complete sets (5 diff: types) HSS made, BA,BSW, BSF, American and Metric threads	1
92	141	Taps and wrenches - Metric	Taps and wrenches - UNC, UNF and metric HSS with suitable sets of taps, complete set. BS 949 OF 1979 (IS : 6175 – 1992	3

I.T.I.Chackai

93	145	Thread pitch gauge Metric,	Thread pitch gauge -metric, BSX, BSF, MC, MF & SAE Selective feeler type.	4	I.T.I.Chackai
94	148	Trammel 30 cm	Trammel -30 cm , with suitable box and accessories	4	
95	159	Wire Gauge (metric)	Wire Gauge- (metric) SWG, Stainless steel made, wear resistant type.	4	

MECH: DIESEL (2017-18, AFFILIATION)

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EQUIPMENTS B5/4/2018

SL No	SI No in the syll	Item Description	Recommended specification	Total Quantity	Name of consignee
1	9	Anvil 50 Kgs with Stand	Anvil 50 Kgs with Stand- Drop forged steel made with suitable stand	2	I.T.I Chackai
2	58	Granite surface plate 1600 x 1000 with stand and cover	Granite surface plate -1600 x 1000mm With (suitable metal stand of height- 120cm and suitable rexine cover), Grade-1	2	
3	60	Grease Gun heavy duty trolley type 10 kg capacity	Grease Gun heavy duty trolley type -10 kg capacity 10 kg capacity, heavy duty, trolley type	2	
4	82	Marking out table 90X60X90 cm.	Marking out table- 90X60X90 cm With Mild Steel ribbed legs and. 2mm metal level, finished top, Paint coated..	2	
5	85	Oil pump for dismantling and assembling.	Oil pump -for dismantling and assembling. gear type, vane type, crescent type (one each)New, Genuine parts	4	
6	144	Thermostat	Thermostat valve- Vehicular cooling system type. Genuine part. New.	4	
7	147	Torque wrenches 5-35 Nm, 12-68 Nm & 50-225 Nm	Torque wrenches- 5-35 Nm, 12-68 Nm & 50-225 Nm Pre adjustable type, three nos in a set. IS 6789 : 2008	1	
8	152	V Block 75 x 38 mm pair with Clamps	V Block -75 x 38 mm pair with Clamps Steel made with two blocks and two clamps	1	
9	158	Water pump for dismantling and assembling	Water pump -for dismantling and assembling, three different types of Water pumps, vehicular type.	8	
10	160 (a)	Bench vice 12cm Jaw	Bench vice- 12cm Jaw width Parallel jaw bench vice, Cast iron made with suitable handles.	16	

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ELECTRIAL INSTRUMENTS

P-5

E5/5/2018

SL No	SI No in the sy	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	6	Ammeter 300A/ 60A DC with external shunt	Ammeter- 300A/ 60A DC with external shunt Analog type with all accessories and leads.	8	I.T.I Chackai
2	10	Auto Electrical test bench	Auto Electrical test bench -Single phase, Table top type with vacuum testing facility, with suitable battery. (BOSCH or Equivalent make)	2	
3	11	Battery -charger	Battery charger -6V - 24 V Single phase, Table top type with connecting cables and clips (5mtrs lead). With voltage and current indicators, over charge protector, Branded.	2	
4	30	DC Ohmmeter 0 to 300 Ohms, mid scales at 20 Ohms	DC Ohmmeter -0 to 300 Ohms, mid scales at 20 Ohms With all accessories and leads.	4	
5	61	Growler	Growler -Single phase, table top type.Growler with Probes & voltmeter, Armature testing dia above 35 for adjusting 6V/12V, 24V system. 0-30 Volt, Ammeter - 0 - 100 A, New	4	
6	83	Multimeter digital	Multimeter -digital With all accessories and leads. Mediun type. New	10	
7	87	Oscilloscope 20MHz	Oscilloscope 20MHz- C.R.O Dual trace/ Double beam 20 MHZ, 20 MHZ band width - DC 20 MHZ , max , input - 400v , display mode - CH1 ,CH2, CH1&CH2, alternate or	4	
8	138	Tachometer (Counting type)	Tachometer -Analog type with all accessories. suitable for petrol and disel engine	1	
9	143	Temperature gauge with sensor 0-100 deg c	Temperature gauge- with sensor 0-100 °c LMV type	4	
10	7	Discrete Component Trainer / Basic Electronics Trainer	Discrete Component Trainer - Basic Electronics Trainer Electronic component trainer kit, Facilities to study:- Diodes, Zener diode, Rectifier circuit, Transister, UJT, FET, Mosfet,	1	

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ECU DIAGNOSTICS KIT

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SL No	SI No in the	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	15	Multi Scan Tool with oscilloscope	Multi scan tool -ECU diagnostics kit With suitable cables and adapters for different vehicles with PC interface, Muliti-brand softwares for complete scan of different vehicles (min: 8 diff: types adapters and softwares). With carry case and software updating facility, (Multi Scan or Equivalent make) New	1	I.T.I Chackai
TOTAL					

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GARAGE OUTFITS

E5/7/2018

SL No	SI No in the sy	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	16	Car Jet washer with standard accessories	Car Jet washer- Single phase, trolley type, suitable to connect with pipe lines, washer hose with 10mtrs long, 500litres tank, trigger type nozzle and all accessories.	2	I.T.I Chackai
2	17	Chain Pulley Block-3 ton capacity with tripod stand	Chain Pulley Block-3 ton capacity with tripod stand	1	
3	33	Different type of Engine Bearing model	Different type of Engine Bearing model - LCV type, Ball, Roller, Tapered roller, Needle , shell, Angular contact roller bearings (Six in a set). Genuine parts, New.	2	
4	34	Different type of piston model	Different type of piston model -LCV types (3 nos of petrol and 3 nos of diesel), Genuine parts, New.	2	
5	75	Injector testing set (Hand tester)	Injector testing -set (Hand tester) Bench Fitted type with all accessories, Gauges, Multiple pipes and mounting bolts.	1	
6	79	Lifting jack screw type 3 ton, 5ton & 20 Ton capacity	Lifting jack -screw type 3 ton, 5ton & 20 Ton capacity with suitable lever. EACH	2	
7	149	Turbocharger cut sectional view	Turbo charger- , variable Turbo charger Vehicular type with exhaust unit. LCV type. Genuine parts, New.	2	
8	9	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz	Dual Magnetization Yoke : AC / HWDC, 230 VAC, 50Hz HWDC for subsurface flaw detection, Lifting capacity 27 kgs in DC, 5 kgs in AC mode. Portable MPI Units	1	
9	13	Hydraulic jack HI-LIFT type -3 ton capacity, and 5 Ton capacity	Hydraulic jack- HI-LIFT type -3 ton capacity, and 5 Ton capacity	1	
10	14	Liquid penetrant Inspection kit	Liquid penetrant Inspection kit with Cleaner, Developer and remover in aerosol can.	1	

MECH: DIESEL (2017-18, AFFILIATION)

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DIESEL SMOKE METER

E5/8/2018

SL No	SI No in the syllab	Item Description	Recommended sepcification	Total Quantity	Name of consignee
1	3	Automotive exhaust 5 gas analyzer (petrol & Diesel) or Diesel Smoke meter	Automotive exhaust gas analyzer -Automotive exhaust gas Diesel Smoke Meter with computer, web cam and colour laser printer, computer tables and all other accessories.	1	I.T.I Chackai
TOTAL					

Es/9/2018

MECH: DIESEL (2017-18, AFFILIATION)					
PACKAGE 9 GENERAL EQUIPMENTS					
SL No	SI No in the syllabus	Item Description	Recommended sepcification	Quantity Required	
				Chakai	Total Quantity
1	2	Arbor press hand operated 2 ton capacity	Arbor press- hand operated 2 ton capacity	1	1
2	4	Bench lever shears 250mm Blade x 3mm Capacity	Bench lever shears -250mm Blade x 3mm Capacity	1	1
3	8	Drilling machine bench to drill up to 12mm dia along with accessories	Drilling machine- bench to drill up to 12mm dia along with accessories Three phase, Speed between 1800 and 2200 rpm, with chuck key and other all accessories. (HMT or Equivalent make)	1	1
4	10	Gas Welding Table - 1220mm x 760 mm	Gas Welding Table - 1220mm x 760mm x 920 mm (Draw)	2	2
5	11	Grinding machine (general purpose) D.E. pedestal with 300 mm dia wheels rough and smooth	Grinding machine- (general purpose) D.E. pedestal with 300 mm dia wheels rough and smooth pedestal type, Single phase, AC, 230v, 50Hz, with rotary switch. (H.M.T or Equivalent make)	1	1
6	16	Pipe Bending Machine (Hydraulic type) 12mm to 30mm	Pipe Bending Machine -(Hydraulic type) 12mm to 30mm	1	1
7	17	Pneumatic rivet gun with standard accessories	Pneumatic rivet gun -with standard accessories	2	2
8	19	Tin smiths bench folder 600 x 1.6mm	Tin smiths bench folder- 600 x 1.6mm	1	1
9	20	Trolley type portable air compressor single cylinder with 45 liters capacity Air tank, along with accessories & with working pressure 6.5 kg/sq cm	Trolley type portable air compressor- single cylinder with 45 liters capacity Air tank, along with accessories & with working pressure 6.5 kg/sq cm 3 phase, with electrical supply wires of 8 mtrs, min: 10 mtrs of compressor hose. New.(ELGI or Equivalent make)	1	1

10	21	Welding plant Oxy-Acetylene complete (high pressure)	<p>Welding plant Oxy-Acetylene complete (high pressure)</p> <p>1.Oxygen and acetylene cylinders, Oxygen cylinder with capacity -7cu.m brand new, empty, high pressure, seamless steel gas cylinders. flat type, concave bottom cylinders as per,IS 7285 (part 2) 2004. Complete with neck ring and valve and cap, valve as per IS 3224, painted as specified under gas cylinder rules 2004, supported with manufactures test Welding plant Oxy-Acetylene complete (high pressure) certificate and approval from chief controller of explosives- Govt: of India, Nagpur. The test certificate should be valid for 05 years.</p> <p>2.Dissolved acetylene cylinder with cap- Welding plant Oxy-Acetylene complete (high pressure) capacity 6cu.m :Brand new, empty, high pressure, seamless steel gas cylinders, flat type, concave bottom cylinders as per,IS 7285 (part 2) 2004. Complete with neck ring and valve and cap, valve as per IS 3224, painted as specified under gas cylinder rules 2004, supported with manufactures test certificate and approval from chief controller of explosives - Govt: of India, Nagpur. The test certificate should be valid for 02 years.</p> <p>3.High Pressure welding torch No: 2 (ISI) with nozzle no:1,2,3,5 and 7.Gas welding blow pipe (torch) with flash back arrester for versatile applications using oxygen and acetylene gases. Five different nozzle nos of 1,2,3,5 and 7. Maximum plate thickness that can be welded 35mm, tip thread: M10x1.</p> <p>4.Trolley for cylinders- 1 no</p> <p>5. Adjustable spanner 10 inch: -1 no</p> <p>6. Spindle key- 1no</p> <p>7. Spark lighter- 1 no</p> <p>8. Oxygen gas rubber hose inside dia -8mm ISI, Blue colour- 10 mtrs long</p> <p>9. Acetylene gas rubber hose inside dia -8mm ISI, Red colour- 10 mtrs long</p> <p>10. Two stage Oxygen regulator (should confirm IS 6901)- 1 no</p> <p>11. Two stage Acetylene regulator (should confirm IS6901)- 1 no</p>	1	1
11	22	Welding Transformer (150-300 Amps)	<p>Welding Transformer - (150-300 Amps) TRANSFORMER WELDING SET WITH ACCESSORIES General 1) Tyristorised power source (2) air - cooler machine, (3) linear current indicator scale, (4) class A- insulation with suitable buffering material for thermal resistance, (5) light weight and compact (6) protection class - IP 23</p> <p>INPUT 1) SUPPLY VOLTAGE - 415v, 3 phase 50 HZ AC (2) rated input current - 63A (3) rated input KVA - 15KVA</p> <p>OUTPUT OUTPUT characteristics - constant current 2) range of welding current - 60- 300A 3) open circuit voltage - 66v (maximum) 4) power factor - 0.6 6) maximum out put (a) 60% duty cycle- 0-400A b) 100% duty cycle - 230 A Accessories 1) welding cable (copper 50 sq. mm.) with holder - 5M - 1 No (2) return cable (copper 50sq. mm) with clamp - 5M - 1 no (3) power cable 5M- 1 no</p>	1	1
TOTAL					