

**Approved Procurement Plan dated.29.09.2020  
Name of the ITI - Cuddalore**

<i>Sl No</i>	<i>Procurement Package No.</i>	<i>Name of item</i>	<i>Detailed specification of the item (if required)</i>	<i>Trade/Course for which it is required</i>	<i>Total Quantity Approved</i>	<i>NSQF Syllabus Sl.No</i>
1	1	Cut section Model of Mock layout of a motor car –electrical system working model	See Annexure:- Package03/01	MMV-1	1 No	138
2	1	Cut section working model of centrifugal clutch assembly.	This model is to be made out of new cut section centrifugal clutch assembly. This model should run by suitable AC Electrical motor (variable speed) and fitted with suitable stand.	MMV-1	1 No	142
3	1	Demonstration board of electronic Ignition system, ignition coil with HT coil, HT wires, Spark Plugs, ignition switch, coil, distributor, battery, and wiring.	See Annexure:- Package03/02	MMV-1	1 No	145
4	1	Demonstration board of MPFI system. With injectors, rail, inlet manifold, throttle body, distributor, ECU, purge valve, sensor, crank pulley, fuel tank module.	See Annexure:- Package03/03	MMV-1	1 No	146
5	1	Spring tension tester Manually operated with analogue display.	See Annexure:- Package01/01	MMV-1	1 No	167
6	1	Two post car lift – capacity 4000 kg Hydraulic Type with Mechanical Arms Locking.	See Annexure:- Package01/02	MMV-1	1 No	180
7	1	Tyre Changer Machine Motorized Pneumatic Type, Rim clamping facility, and bead breaking facility with air inflating device.	See Annexure:- Package01/03	MMV-1	1 No	181
8	1	Horses (standard)	Height-1 1/2 feet. Made of MS tubular with 'L' angle and painted suitably	MMV-8	8 Nos	Not Available
9	1	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.	See Annexure:- Package06/01	MMV-1	1 No	134

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10	1	Alternator assembly used for LMV. Alternator (>50 Amp)	Alternator: - suitable for LMV 12v 40/45 Amp. 115mm diameter Alternator with internal fans 40-45 amp. Mounting: Single/double lug mounting with a sliding bush. For proper tightening additional lugs for belt tightening .vibrating voltage type	MMV-1	1 No	135
11	1	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.	This model is to be made out of original & new Two wheeler brake assembly. The main components are Two wheeler front wheel consist of alloy wheel and tubeless tyre, Fork, Handle Bar and Disc brake with Caliper assembly. Brake fluid with reservoir tank with suitable connection The complete working model is to be fitted on a suitable MS Stand.	MMV-1	1 No	147
12	1	Steering assembly – 1.Rack & pinion 2. Worm & roller 3. Recirculating ball 4.Power steering 5. Electric Assisted Power Steering	Sl. No 1,2,3 The new original steering system gear box should be fitted with steering wheel, steering column Drop arm, steering linkages, stub axle, tie rod and wheel assembly mounted on sturdy iron frame. Sl.no. 4, The new original Power steering system gear box should be fitted with steering wheel, steering column Drop arm, steering linkages, stub axle, tie rod and wheel drum assembly mounted on sturdy iron frame. Power steering system should be operated by suitable AC electrical motor.	MMV-1	1 No	152
13	1	Tandem master cylinder with booster. Working model	Tandem master cylinder assembly - 1No. Vacuum booster assembly -1No. Both master cylinder and booster to be assembled and to be fitted on display board.	MMV-1	1 No	154
14	1	Working model of torque converter. Model of LMV	The working model is made out of original parts of torque converter (pump , turbine, stator and transmission fluid)driven by AC electrical motor with suitable sturdy iron frame. The model should contain name board and clear drawing indicating parts on hylam 6mm thick board.	MMV-1	1 No	159

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15	1	Automotive Water pump for dismantling and assembling	suitable for Mahindra Bolero jeep for training purpose	MMV-4	4 Nos	131
16	2	Diesel Engine – CRDI - 4 strokefor Dismantling and Assembling with Swiveling Stand.	See Annexure:- Package04/01	MMV-1	1 No	163
17	3	Lathe S.S. & S.C. ( All geared head stock ) 150 mm center height, to admit 750mm between centre	See Annexure:- Package05/01	Turner-3	3 Nos	111
18	4	Co2 Cylinder	Seamless cylinder conforming to IS: 7312 - 1993 made of alloy steel coated with Zinc Cylinders of volumetric capacity of 47 litres should be supplied along with BIS Test certificate and Gas filling permission from Deptt. Of Explosives	Welder-2	2 Nos	63
19	4	Argon gas cylinder	Seamless cylinder conforming to IS: 7312 - 1993 made of alloy steel coated with Zinc Cylinders of volumetric capacity of 47 litres should be supplied along with BIS Test certificate and Gas filling permission from Deptt. Of Explosives	Welder-2	2 Nos	64
20	4	Oxygen, Acetylene Cylinder	(See Annexure Pck7/01)	Welder-4	4 Nos each	62
21	5	Portable drilling machine capacity 6mm	Rated power input: 350 W No-load speed: 0 – 4000 rpm Power output: 136 W Weight without cable: 1.1 kg Rated speed: 0 – 3116 rpm Rated torque: 12.3 Nm Drill spindle connecting thread: 3/8" – 24 UNF Chuck capacity: 0.5 – 6.5 mm	Welder-1	1 No	58
22	5	AG4 Grinding wheels	AG4 Grinding Disc 4-inch 100 x 6 x 16 mm Grinding Wheel (Black) Type of Product : Grinding Wheel Wheel Diameter : 100 mm Size : 4 Inch Thickness : 6 mm Bore: 6mm	Welder-10	10 Nos	90
23	5	H.P Welding Torch with 5 nozzles	H.P. welding torch/blowpipe with 5 interchangeable nozzles, size 2, 3, 5, 6 & 13 with ISI standards	Welder-2	2 Sets	28

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24	5	Welding transformer with all accessories (400A OCA 60-100v, 60% duty cycle)	Welding Current Range: 30-400 Amps Max. Cont. Current at 60% duty cycle: 400 Amps Mx. Cont. current at 100% Duty cycle: 240 Amps Open Current Voltage: 60-100v KVA Rating at 60% Duty Cycle: 26 KVA Input Supply: 2 Lines of 3 Phase Frequency: 50Hz Cooling: Forced Air Cooled Insulation: Class H Type of Output Current Regulation: Stepless Regulation	Welder-2	2 Sets	40
25	5	Auto Darkening welding helmet	Cartridge Size: 90x110x11mm Viewing Area: 98x41mm Inactive Shade: DIN4 Active Shade: DIN 0.2 - 0.8 sec. adjustable Switching Time: =0.5ms (22°C) Delay time: < 1s Power Supply: Solar-Lithium Combination	Welder-2	2 Nos	47
26	5	AG4 Grinder	Rated input power*:900W No-load speed*: 11000rpm Disc diameter*: 100mm Power output: 450W Grinding spindle thread M 10	Welder-2	2 Nos	52
27	5	Oxy Acetylene gas cutting blow pipe	Oxy acetylene gas cutting blow pipe, nozzle size 1/16, 3/64, 1/32 inches as per ISI standards	Welder-2	2 Sets	61
28	5	Rubber hose oxygen	Conformity to Indian Standrad for Rubber Hoses IS:447. with IS marked. Colour:Red 8mm diax10mtr long as per BIS	Welder-2	2 Nos	82
29	5	Rubber hose acetylene	Conformity to Indian Standrad for Rubber Hoses IS:447. with IS marked. Colour:Blue 8mm diax10mtr long as per BIS	Welder-2	2 Nos	83
30	5	Arc welding cables multi cored Copper 400/600 Amps as per BIS	Conforming to IS:9857 with IS marked Conductor Type: Copper Cable Size in 30mm <sup>2</sup> /Rated Current in Amp at 60% duty cycle: 70 sqmm/454 Amp	Welder-45 mtr	45 mtr each	84
31	6	Desktop Computers Processor - dual core @ 3.9 GHz (i3 Intel processor or equivalent ), RAM -4 GB.Hard Drive -1TB hard drive. Monitor - 21" LED - desktop only.	See Annexure:- Package09/02	ICT-22	22 Nos	29

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32	6	Laser Printer	See Annexure:- Package09/03	ICT-22	2 Nos	33
33	6	Laptop with latest configuration pre-loaded with operating system and MS Office package.	See Annexure:- Package09/01	MMV-1	1 No	209
34	6	LCD projector with screen	See Annexure:- Package09/04	MMV-1	1 No	210
35	7	Almirah 1980x 910 x 480 mm	Steel Almirah with 4 shelves forming 5 compartments of size: 78"x36"x19" made out of 20 G, 16G 14 G CR sheet, with one coat of Red Oxide and Two coat of Olive Green Enamel Paint finish.	Turner-11	11 Nos	91
36	7	Marking table (CI)	Size(LxBxH): 1500x1000mm Thickness: 40mm Material: Cast Iron with steel alloy Stand size: 1500x1000x175mm	Turner-8	8 Nos	13
37	7	Instructor Table	Wooden Assistant Table (Special type) of size 4'x2'x2 1/2' with a drawer and a cupboard and keyboard arrangements with top made out of 18mm plywood and 1mm lamination sheet having 35x15mm beading	Turner-8	8 Nos	Not Available
38	7	Instructor Chair	Teakwood Assistant chair PC seat and knitted back	Turner-8	8 Nos	Not Available
39	7	Steel Locker with drawer ( Pigeon holes )	Steel Trainee Locker size 78" x 36" x 19 with Lockers made out of 20 G sheet with 10 Lockers of individual locking system with Grey colour enamel painting	Turner-8 MMV-1	9 Nos	92
40	7	Woirk bench 340x120x75cm	Work Bench; of size 3400 x 1200 x 750 mm, made out of TW legs (4"x4") with 6 nos. and top rails 4" x 2" with painting and thickness of top plank 2" and with good polish finish.	Welder-4	4 Sets	60
41	8	Morse Taper Sleeves	See Annexure Pck11/02	Tuner-1	1 Set	62
42	8	Tap & Die	B.S.W. up to 1 inch 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/6", 7/8", 1" sizes Die- 14 sets; Tap- 14 sets Die wrench holder- 12 sets Tap wrench Screw driver Material: HSS	Tuner-12	12 Nos	68
43	8	Reamer machine	straight flute 6 to 24 mm Type B Finishing Material: HSS. Conforming to IS5989-1998	Tuner-2	2 Sets	71

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44	8	Taper Shank Twist Drill	14 mm to 20 mm by 1 mm Material: HSS M42 Point Angle: 118° Flute: Right Flute HRC: 58-66	Tuner-5	5 Sets	65
45	8	Tap & Die	B.A. Tap & Die set consists of 11 Dies [0-10BA] set of 3 Taps, Taps 0-10BA Capacity on Tap wrench x Die wrench screw driver. All die are split type. Material high grade carbon steel	Tuner-5	5 Nos	67
46	8	Tap and Die Set	Metric - 3 to 24 mm Die M3 to M24 - 22 pieces Tap M3 to M24- 66 pieces Tap wrench- 2 Nos (Small & big) Die Wrench- 2 Nos (Small & big) Screw driver- 1 No Material- Alloy steel	Tuner-5	5 Nos	68
47	8	Tap & Die	B.S.F. up to 1 inch 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/6", 7/8", 1" sizes. Die- 11 sets D/E wrench Tap- 11 sets Tap wrench Screw driver Material: HSS	Tuner-5	5 Nos	69
48	8	Straight Shank Twist Drill	3 to 12 mm by 1 mm Material: HSS M35 Point Angle: 118° Helix Angle: 34° Flute: Right Flute HRC: 32-38	Tuner-6	6 Sets	64
49	8	Reamer Adjustable	10 to 20 mm Material: HSS	Tuner-7	7 Sets	72
50	8	Morse Taper Plug & Ring Gauge	Measuring Range: MT1-MT6 Size: 100-300mm Material: OHNS Hardness: 60-62 HRC	Tuner-9	9 Sets	59
51	8	Spare Grinding Wheel Ajax type for carbide tool	12"x1-1/2"x1" Bore Grade 6C60 Max RPM: 2069	Tuner-9	9 Nos	90
52	9	V-Block	150X100X100 mm with Clamp made of high quality grey cast iron (Hardened & Ground) generally conforming to IS-2949-1974	Turner-10	10 pairs	15

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53	9	Angle Plate	An Angle Plate adjustable made up of Cast Iron having dimensions of 250 X 150 X 175 mm as a Length X Breadth X Height and height is 175 mm after the final adjustment i.e opened	Turner-16	16 Nos	80
54	9	Surface Plate - Granite	1000 x 1000 mm and thickness 150mm conforming to IS-7327:2003 with Stand of MS angle 65mmx65mm and rexin Cover for the top	Turner-4	4 Nos	11
55	10	Micrometer Outside	25 to 50 mm, Least Count 0.01 mm with NABL Accredated lab. Certificate	Turner-11	11 Nos	34
56	10	Vernier Micrometer Outside	0 - 25 mm o/s LC 0.001mm with NABL Accredated lab. Certificate	Turner-18	18 Nos	43
57	10	Vernier Micrometer Outside	25 - 50 mm, Least Count 0.001mm with NABL Accredated lab. Certificate	Turner-18	18 Nos	44
58	10	Vernier Micrometer Outside	0 inch to 1 inch. Least Count 0.001 inch with NABL Accredated lab. Certificate	Turner-18	18 Nos	45
59	10	Micrometer Inside	up to 25 mm, Least Count 0.01 mm with NABL Accredated lab. Certificate	Turner-5	5 Nos	37
60	10	Micrometer Inside	up to 25 to 50 mm, Least Count 0.01 mm with NABL Accredated lab. Certificate	Turner-5	5 Nos	38
61	10	Depth Gauge Micrometer	0 to 150 mm, Least Count 0.01 mm, 6 Rods base 101.6 x 16mm with NABL Accredated lab Certificate	Turner-5	5 Nos	39
62	10	Micrometer Outside	0 to 25 mm, Least Count 0.01 mm with NABL Accredated lab. Certificate	Turner-6	6 Nos	34
63	10	Micrometer Outside	50to 75 mm, Least Count 0.01 mm with NABL Accredated lab. Certificate	Turner-8	8 Nos	36
64	10	Screw Thread micrometer interchangeable	(0-25 mm) 48-64TPI/0.4-0.5mm screw to be measured. With NABL Accredated lab. Certificate	Turner-9	9 Nos	58
65	11	White board size 1200mm X 900 mm	See Annexure:- Package15/02	MMV-1 Welder-1	2 Nos	208
66	11	Grinding machine pedestal type	Grinder Motor: 0.55KW, 0.75HP, 3 phase, 2800 RPM Wheel size: Dia.200x25 x Dia.31.75mm/8" Dust collect motor: 0.37KW, 0.5HP, 3 phase CFM: 125	Turner-1	1 No	114

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67	11	Fire Extinguisher and buckets	Co2 fire extinguisher 4.5Kg cylinder complete with wall bracket ISO mark with explosive certificate. Fire Safety 2 nos Bucket With Stand	Turner-12	12 Nos each	109
68	11	Universal Dial Test Indicator - Plunger Type	Range 0 - 10 mm, Graduation 0.01mm complete with Clamping Devices and Magnetic Stand	Turner-14	14 Nos	51
69	11	Bench vice	Jaw width- 125mm Weight(Approx.): 14.7 Kgs Material: Grey Cast Iron Opening of joint: 150mm Depth: 70mm	Turner-15	15 Nos	14
70	11	Combination set	300 mm (Complete Set) satin chrome finished blades. Graduation: 0.5mm and 1/32" on front face, 1mm and 1/64" on back face	Turner-38	38 Nos	28
71	11	Chalk Board on mobile stand	Chalk Writing Board with Movable Stand: Chalk Board Writable melamine surface and framed with aluminium section. Board size: 6ftx4ft Movable Stand made of 48 X 24 mm MS square pipe duly powder coated in Black.	Turner-4	4 Nos	89
72	11	Machine Vice - Swivel Base	Opening of jaw: 100mm Depth: 38mm Material: Grey Cast Iron Type: Swivel 360°	Turner-5	5 Nos	88
73	11	Sine Bar with centers	30x200 mm size Top parallel to bottom of rolls I0.0004" Between center of rolls I.0004" Material: High chromium corrosion resistance steel	Turner-5	5 Nos	60
74	11	Bench vices of 150mm jaw opening	Description size: 150mm Maximum size opening: 200mm Jaw width: 150mm Jaw depth: 50mm Material: Grey Cast Iron Colour: Matt blue Weight(Approx): 25 Kgs	Welder- 16	16 Nos	60

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75	11	Anvil 12 Sq. Inches working area with stand 50Kg	made of high quality cast iron	Welder-1	1 No	65
76	11	Swage block	Material : Cast Iron (heavy black cast iron) Size : 12x12x4 inch Color : Black Hardness Shore : 20a - 70a Shape: Rectangular Finish : Polished	Welder-1	1 No	66
77	11	White board Size 8ft x 4ft	See Annexure:- Package15/01	Welder-1	1 No	Not Available
78	11	Black board with easel	Size: 6ftx4ft	Welder-1	1 No	37
79	11	Vernier caliper Digital	Digital display 0-300mm/0-12". Least count 0.02mm/0.001 inch with NABL. Accredited lab. Certificate	MMV-4	4 Nos	129
80	11	Dial Vernier Caliper with metric	0-200 mm/0-8 inch. Least Count 0.02 mm/0.001 inch with NABL. Accredited lab. Certificate	Turner-10	10 Nos	41
81	11	Vernier Bevel Protractor	300 mm blade, 360° Dial. Dial graduation 1". Least count 5' with NABL. Accredited lab. Certificate	Turner-10	10 Nos	42
82	11	Vernier Caliper Outside, Inside and Depth	200 mm /8 inches. Least count 0.02mm/0.001 inch with NABL. Accredited lab. Certificate	Turner-10	10 Nos	40
83	11	Vernier Height Gauge	0 - 300 mm/0-12". LC = 0.02 mm/0.001 inch. Dial indicator holder. Scribe(Bent & straight). Scribe clamp. Magnifier lens with NABL. Accredited lab. Certificate	Turner-8	8 Nos	52

**Sd/....**  
**Director of Employment and Training**

// Forwarded By Order //

*K. Reddy*  
For Director of Employment and Training  
30/09/20

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30/09/20