

LIST OF TOOLS, EQUIPMENT & MACHINERY
MECHANICAL TECHNOLOGY (POWER)
WITH SPECIALIZATION IN AUTOMOTIVE

S.NO	Name OF LAB/WORKSHOP	Quantity
1.	Engine & Transmission Lab	1 NO
2.	Suspension, Steering & Brakes Lab	1 NO
3.	Automotive Denting, Painting & Detailing Lab	1 NO
4.	Drivers Training Lab	1 NO
5.	Electric Vehicles (EVs) Lab	1 NO
6.	Automotive Electronics Lab	1 NO
7.	Automotive Testing & Diagnostics Lab	1 NO
8.	Machine Shop	1 NO
9.	Drawing Hall	1 NO
10.	CAD Lab	1 NO

PERMANENT STOCK ITEMS

LIST OF Teaching Aids

(For DAE class of 50 students)

S.NO	Name of teaching Aids	Quantity
1.	Smart WiFi TV LED (screen display range 65 inch -85 inch)	05 No's
2.	Lap Top (Core i 5 , 15 inch screen display)(minimum 8 th Gen)	05 No's
3.	Wi-Fi Modem	05 No's

LIST OF SAFETY & PROTECTION EQUIPMENT

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Fire Extinguishers (DCP 6-8kg, CO2 8kg,FOAM)	05 No each
2.	Fire Blanket	05 No's
3.	Safety goggles	10 No's
4.	Respiratory Gas Mask (Air Anti-Dust & Chemical fumes, double filter	10 No's
5.	Safety Helmet	10 No's
6.	First Aid Box	10 No's
7.	Apron/ Proper uniform	50 No's
8.	Dust Mask	50 No's
9.	Safety shoes	50 No's
10.	Ear Muff	10 No's
11.	Safety Gloves set(Leather, rubber & Cotton)	50 No's
12.	Sand Storage buckets for fire fighting	10 No's
13.	Water Storage buckets for fire fighting	10 No's

LIST OF GENERAL BASIC HAND TOOLS

(For DAE class of 50 students)

S.NO	Name of Tool	Quantity
1.	Flat Screw driver (4", 6", 8", 12") & offset Screw driver (4", 6", 8", 12")	10 each
2.	Philips Screw driver (4", 6", 8", 12") & clutch type, torx type, read type and prince type	10 each
3.	Impact Screw driver set	10 set
4.	Hammers (Ball peen, Straight peen, cross peen) sledge, Brass or lead, plastic tipped, rubber mallet.	10 each
5.	Special screw drivers(stubby, scratch awl, Socket head driver, clip screw driver.	10 each
6.	Pliers(needle nose, High leverage cutter, vise grip, diagonal cutting,Battery Plier, tin snip,snap ring, rib joint, slip joint, crimper)	10 each
7.	Adjustable Wrench (6", 12")	10 each
8.	Pipe Wrench(8",10",12")	10 each
9.	strap wrenches(universal,Big range/Adjustable fuel filter and oil filter)	10 each
10.	Open end spanner set (8-32 mm)	10 set
11.	Ring Spanner set (off set) 8-32mm	10 set
12.	Box end spanner set (8-32 mm)	10 set
13.	Socket set (8-32 mm)	10 set
14.	Special wrenches(sludge wrench, ratchet wrench,flex combination, half moon).	10 each
15.	spark plug spanner.	10 No's
16.	Torque Wrench(flex bar,dialindicator,snap or click, digital)	10 each
17.	Allen Key set (1.5- 10 mm)	10 set
18.	Socket set complete(8-32 mm with all accessories).	10 set
19.	wheel spanner cross type	10 No's
20.	Pullers (Gears, Bearings, Pulleys, Steering,slide hammer)	10 each
21.	Oil Seal extractors and installers	10 No's
22.	Oil cane (pressure type).	10 No's
23.	Tube bender , Tube cutter and Flaring tools set	10 set

24.	Valve Spring Compressor	10 No's
25.	Piston Ring Compressor	10 No's
26.	Piston Ring Expander	10 No's
27.	Grease Gun (400cc capacity)	10 No's
28.	Pop Rivet Plier	5 No's
29.	Scraper (blade width 2",4",6")	15 No's each
30.	Scissor (10")	5 No's
31.	Centre Punch	10 No's
32.	Punches (Hollow punch set)	10 set
33.	Adjustable Hand Hacksaw frame (300 mm)	10No's
34.	Bench vice (6",8")	05 No's each
35.	Magnetic pickup tool(prob pick up tool set)	10 set
36.	Magnifying glass	10 No's
37.	Hand brushes (wire type)	10No's
38.	Pry bars set (20", 25", 30")	10 set
39.	File (Flat, round, triangle, square)10"	05 No's each
40.	Hand Hacksaw	05 No's
41.	Anvil (50 kg)	05 No's
42.	Chisels (Flat, cross-cut, round nose)	25 No's each
43.	Calipers (Internal & external)2mm-100mm	10 set
44.	V-Blocks (magnetic type)	10 No's
45.	S.S.T tools wide range	2 set
46.	Stud extractor set	5 set
47.	Lettering Punch set	02 No's
48.	Numbers punch set	02 No's
49.	Magnetic pick tool	05 No's
50.	Tyre Lever (Pry Bars) Size 16"	05 No's
51.	Bolt Cutter Size 14"	05 No's
52.	Troch Light	10 No

LIST OF MEASURING TOOLS/EQUIPEMENT

(For DAE class of 50 students)

S.NO	Name of Tool	Quantity
1.	Steel Foot rule.	10 No's
2.	Steel tape (50 “)	10 No's
3.	Spring Scale (5 kg)	10 No's
4.	Vernier Caliper (250mm , Least count 0.05)	25 No's
5.	Vernier Caliper (250mm , Least count 0.02)	10 No's
6.	Digital Vernier Caliper (250mm)	10 No's
7.	Dial Vernier Caliper (250mm)	10 No's
8.	Micrometer (inside) 0-25mm, 0-50mm, 0-75mm, 0-100mm	10 No's
9.	Micrometer (out side) 0-25mm, 0-50mm, 0-75mm, 0-100mm	10 Nos. (each)
10.	Dial Gauge (Leas count 0.001” 0.01-10mm)	05No's
11.	Depth gauge	05No's
12.	Feeler gauge (6 / 8 inches)	05No's
13.	Thread pitch gauge (inches and mm)	05No's (each)
14.	Wire gauge	05No's
15.	Belt tension gauge	02 No's
16.	Belt tension gauge (electronic)	01 No's
17.	Telescopic gauge	05No's
18.	Tire Pressure gauge	05No's
19.	Angle measuring gauge (combination set)	05No's
20.	Thermometer	10 No's
21.	Tri Square	10 No's

**LIST OF INSTRUMENT / EQUIPMENT &
AUTOMOTIVE DIAGNOSTICS TOOLS**
(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Digital tachometer and dwell tester	2 No's
2.	Compression Gauge (for petrol engine)	5 No's
3.	Compression Gauge (for diesel engine)	5 No's
4.	Vacuum Gauge	5 No's
5.	Cylinder Leakage Tester	5 No's
6.	Digital Multimeter	20No's
7.	Digital Clamp meter (AC/DC up to- 400A)	5 No's
8.	Analogue Multimeter	5 No's
9.	Infrared Temperature Gun	2 No's
10.	Automotive Picoscope (Oscilloscope)	1 No
11.	Growler Tester	1 No's
12.	PC Based Universal Automotive Diagnostic Scanner(OBD-II) With Lap Top •Operating system=Android operating system • CPU(Min.)=1.5 GHz Quad core (minimum) • Ram(min.)=2GB Ram & 32GB SSD • Display(Min.)=8.0 "touch screen. • Communication Mode= Wireless Bluetooth • Battery type= lithium-polymer . • Perform activation tests(ABS, Immobilizer, SRS, ISC) • Operating Manual	05 No's
13.	Battery Health Tester	02 No
14.	Digital Multimeter Meters	50 No's
15.	Automotive Peco scope (Osiloscop)	01 No
16.	Exhaust Gas Analyzer (5-Gases)	5 No's
17.	Computerized Wheel balancer machine(with all accessories)	1 No
18.	Computerized Wheel alignment apparatus 3D (with all accessories)	1 No
19.	Automatic Tyre Changer	1 No
20.	Universal Injector Cleaner kit	2 No's
21.	Ultrasonic Electronic injector tester machine	1 No
22.	Universal Diesel Fuel Injection pump Phasing & Calibration Machine.	1 No

LIST OF WORKSHOP MACHINERY / EQUIPMENT

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Chain Pulley Block hoist (3-5 ton)	01 No's
2.	Hydraulic Car Scissor Lift (0.5 to 2 ton)	1 No
3.	Hydraulic Crane	1 No
4.	Spark Plug Cleaner & Tester Machine	1 No
5.	Automotive Tire changer	1 No
6.	Electronic Injector Testing Machine	1 No
7.	Heavy Duty Digital Tire inflator	1 No
8.	Tube vulcanizer	1 No
9.	Tire vulcanizer	1 No
10.	Tire tread depth measuring gauge	2 No
11.	Pneumatic Impact wrenches	5 No
12.	Pneumatic Impact sockets	5 No
13.	Waste Oil Receptacle with neck & funnel	1No's
14.	Hydraulic press with adopter (5 - 10 tons)	1 No
15.	Portable Electric Drill Machine (helti type)	05 No
16.	Radiator Pressure Cap tester	1 No
17.	Hydraulic Jack (3-5 ton)	5 No each
18.	Mechanical Jack (3-5 ton)	5 No's
19.	Gear box repairing stand (Mechanical type)	10 No's
20.	Engine repairing stand (Mechanical type)	10 No's
21.	Service Creeper trolleys with Led lights	5 No's
22.	Creeper stool type	5 No's
23.	Air Compressor (500- 700L)	1 No
24.	Car Pressure Washer(1500-2000 psi)	1 No

25.	Engine oil dispenser	1 No
26.	Storage bin (Metallic make)	100 No's
27.	Tool trolley	10 No's
28.	Work bench	10 No's
29.	Lockers	10 No's
30.	Cabinets	10 No's
31.	Shelf rack	20 No's
32.	Platform truck	5 No's
33.	Oval shape Hydrometer	10 No's
34.	Battery Post terminal cleaner	5 No's
35.	Automotive Stethoscope	5 No's
36.	Soldering gun	5 No's
37.	Battery Fast Charger with digital display (1 -50A)	1 No
38.	Battery Health tester	2 No's
39.	Cleaning tank	2 No's
40.	Portable Tyre inflator	2 No's
41.	Ramp & Pit .	2 No's
42.	Differential repair stands	2 No's
43.	Parts tray	20 No's
44.	V-blocks set	3 No's
45.	SST Board	5 No's
46.	Torch light	2 No's
47.	Series Test lamp	5 No's
48.	Circuit tester	5 No's
49.	Air blower gun	3 No's

LIST OF ENGINES/TRANSAXLES & VEHICLES

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Petrol engine(4-cylinder VVT-I &i-VTech) complete Assembly	5 NO'S
2.	Diesel engine (multi cylinder, CRDF type)complete Assembly	5 NO'S
3.	Petrol engine (Multi cylinder, carburetor type) complete Assembly	1 NO'S
4.	Generator (10 to 20KVA)	01 No's
5.	Petrol engine (70-80 cc)	5 NO'S
6.	Petrol engine (100cc, 125cc)	5 NO'S
7.	Manual Transaxle(Synchromesh type)	10 NO'S
8.	AGS Transaxle	10 NO'S
9.	Prosmatec Transaxle	5 NO'S
10.	ECT Automatic planetary gear transaxle	5 NO'S
11.	CVT-I Transaxle	5 NO'S
12.	Complete vehicle Chassis equipped with automatic transmission	1 NO
13.	Car equipped with manual transmission	1 NO
14.	Plug in Hybrid car	1 NO
15.	Electric Bike/Scooter	1 NO
16.	Motorcycle (minimum 70cc)	1 NO
17.	Motorcycle (minimum 125cc)	1 NO

LIST OF AUTOMOTIVE MODELS

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Model of 4-stroke Petrol Engine	1 NO
2.	Model of 2-stroke Petrol Engine	1 NO
3.	Model of 4-stroke Diesel Engine	1 NO
4.	Small Chassis Model with Plexiglas EFI Petrol engine	1 NO
5.	Small Chassis Model with Plexiglas hybrid vehicle	1 NO
6.	Petrol engine complete cut-away model	1 NO
7.	Diesel engine complete cut-away model	1 NO
8.	EFI Engine Simulator	1 NO
9.	EFI cut-away parts.	1 NO
10.	Vehicle computer controlled on board diagnose simulator	1 NO
11.	ECT transaxle Gear box Sectional model	1 NO
12.	Manual transaxle Gear box Sectional model	1 NO
13.	4x4W transmission system Cristal model	1 NO
14.	Clutch assembly cut-away model	1 NO
15.	Free wheel hub model	1 NO
16.	Propeller shaft model	1 NO
17.	VVT-I Engine sectional model	1 NO
18.	V-Tech Engine sectional model	1 NO
19.	Wankle Engine model	1 NO
20.	Differential model (Non Slip)	1 NO
21.	Valve train model (V.V.T.I)	1 NO
22.	Cylinder head sectional model	1 NO
23.	Ignition System Model (Distributor less)	1 NO
24.	Starter motor assembly cut-away model	1 NO
25.	Alternator assembly cut-away model	1 NO

26.	Lead acid battery cut-away model	1 NO
27.	Electricity Master Board with all accessories	1 NO
28.	Electromagnetism Master Board with all accessories	1 NO
29.	Relay Cut-out Master Board	1 NO
30.	Vehicle Lighting system trainer	1 NO
31.	Vehicle all electrical/electronic accessories trainer	1 NO
32.	Instruments Panel Gauges Model	1 NO
33.	Power Steering Model	1 NO
34.	Tire construction model	1 NO
35.	Complete strut type suspension system model	1 NO
36.	Wheel balance simulator model	1 NO
37.	Shock absorber cut-away model	1 NO
38.	Rack & pinion type power steering cut-away model	1 NO
39.	Anti-lock Brake system simulator	1 NO
40.	Diesel Engine Instruction Model with Turbo Charges	1 NO
41.	Distributor type diesel fuel injection pump sectional model	1 NO
42.	Inline type diesel fuel injection pump sectional model	1 NO
43.	Driving Education charts	1 NO
44.	Driving trainer	1 NO
45.	Power window trainer	1 NO
46.	Power door lock trainer	1 NO
47.	Logic circuit & logic actual IC's	1 NO
48.	Air Bag Simulator (SRS)	1 NO
49.	Electronic master Kit	1 NO
50.	Pneumatic Air Brake Simulator	1 NO

LIST OF TOOLS/EQUIPMENTS FOR ELECTRIC VEHICLES (EVs) LAB**(For DAE class of 50 students)**

S.NO	Name of Tools/Equipments	Quantity
1.	Digital Multimeter	25No's
2.	Analog Multimeter	25No's
3.	Digital Clamp meter (AC/DC up to- 400A)	05 No's
4.	Soldering Station	10 No's
5.	Insulation resistance tester(Megger)	05 No's
6.	Torque wrenches	05 No's
7.	High Voltage insulated tools kit(Screw drivers, pliers, cutters)	10 No's
8.	Power Supply(DC regulated, 0-60v)	10 No's
9.	Safety PPE complete kit (Insulated gloves, face shields, fire extinguisher Class D for Battery fires)	10 No's
10.	First aid & Emergency shut-off system	05 No's
11.	Oscilloscope(Digital storage, 2/4 channels)	02 No's
12.	EV Diagnostic Scanner Tool(Commercial type)	03 No's
13.	OBD-II & CAN Bus Analyzer Kit(for EV communication protocols)	1 NO
14.	Simulation Software(MATALAB/Simulink, Labview ,Proteus,ETAP for EV Systems)	1 NO
15.	EV Car (preferably Sedan type)	1 NO
16.	Cutaway Model of EV Chasis with powertrain	1 NO
17.	Electric vehicle Driving trainer	1 NO
18.	EV Motor Trainers(BLDC,PMSM Induction Motor setups with controller)	1 NO
19.	Motor Controller (Inverter+Driver circuit demonstration kits)	1 NO
20.	Charging Station Model(with smart meter)	1 NO
21.	Hybrid vehicle trainer (for comparison with EVs)	1 NO
22.	Regenerative braking demonstration unit	1 NO
23.	Gearbox & differential cutaway model (For EV integration)	1 NO
24.	Battery Pack trainer(Lithium-ion with BMS demonstration)	1 NO
25.	Battery Management System(BMS) training kits.	1 NO

26.	Thermal management system trainer(cooling/heating systems for batteries)	1 NO
27.	DC-DC converter trainer	1 NO
28.	Inverter trainer(single phase & 3-phase)	1 NO
29.	Rectifier & charger circuits trainer)	1 NO

**LIST OF TOOLS/MACHINERY & EQUIPMENT FOR
AUTOMOTIVE DENTING, PAINTING & DETAILING LAB**
(For DAE class of 50 students)

S.NO	Name of Tools /Equipments	Quantity
1.	<u>Hammers</u> (Heavy Duty roughing, combination or pick, light dinging, combination dinging, heavy dinging, dinging hammer with short curved pick, offset dinging, Shrinking hammer, dinging hammer with long curved pick, Magnatic trim hammer,nylon mallet.	10 No's each type
2.	<u>Dollies</u> (High crown dollyblock, Low crown, heavy duty roughing, shrinking, rail type, All-purpose Heel dolly block.	10 No's each type
3.	<u>Spoons</u> (Double-end lower back panel,Double-end door and side apron spoon,Heavy-duty drivinbgspoon,Double-end heavy duty driving and fender-beading tool,Highcrown surfacing spoon,Low crown surfacing spoon, Edging tool.	10 No's each type
4.	<u>Pick Tools</u> (Short curved pick, Long curved pick, chisel bit pick, Deep throated pick, curved finishing punch, Hooked finishing punch,piercing punch.	10 No's each type
5.	<u>File's Holder</u> (Adjustable file holder)	10 No's each type
6.	<u>Files</u> (Long Blocking file, short blocking file,Specialcontour files, Bumping or Slapping file, Grater file Blades)	10 No's each type
7.	Screw drivers (Flate and philips standard screw, offset philips&flate, clutch head,	10 No's each type
8.	Door hinge wrenches	10 No's
9.	Reamer (hand operated)	10 No's
10.	Burr cutter	10 No's
11.	Buffing pad	10 No's
12.	Portable Arc Welding Plant	05 No
13.	Portable Spot welding plant	01 No

14.	Portable Plasma welding plant	01 No
15.	Tig & Mig welding Plant	01 No
16.	Soldering Gun	10 No's
17.	Buffer & Grinder (Bench & Portable) (6")	01 No's
18.	Reveal molding	10 No's
19.	Door and window handle clip remover	10 No's
20.	Vacuum lifter (wind sheild)	4 No's
21.	Wind sheild lacing tools	10 No's
22.	Blind nut installation tools	10 No's
23.	Heavy duty blind rivet window regulator installation tool	10 No's
24.	Universal crease puller	10 No's
25.	pneumatic panel edge roll tool	10 No's
26.	Grease gun	10 No's
27.	Flange tool	10 No's
28.	Bumper Bracket tool	10 No's
29.	Body pull rod	10 No's
30.	Paint spraying equipment	05No's
31.	Jigs for car frame straightening (for recommended car)	1 No
32.	Jigs for car straightening jacks (for recommended car)	1 No
33.	Safety Guard For working on machine	30 No's
34.	Axle Stand (Safety Stands)	10 No's
35.	Service creeper	02 No's
36.	Face shield	05 No's
37.	Pressure Washer	02 No's
38.	Dual Action Vacuum Cleaner	02 No's
39.	Dual Action (DA) Polisher	05 No's
40.	Rotary Polisher	05 No's
41.	Air Blower	05 No's
42.	Detailing Inspection Lights	05 No's

LIST OF MACHINERY FOR MACHINE SHOP

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
30.	Lathe Machine (7-10ft)	5 No
31.	Power Hacksaw	1 No
32.	Mechanical Arbor press (3 ton)	1 No
33.	Hydraulic Press Machine	1 No
34.	Cylinder boring machine	1 No
35.	Valve grinding & facing machine	1 No
36.	Pedestal Drill Machine (Drill Chuck size :13 mm)	1 No
37.	Padestle Grinding Machine (Gringing wheel 250x30x25 mm,)	1 No
38.	Surface Plate	2 No's
39.	Die & tap set (2,4,6,8,10mm)	01 set each
40.	Gas welding Plant	1 No
41.	Arc welding Plant	1 No
42.	Lockers (Mild Steel Made lockers, (w=300mm D=400 H=1900), consist of 8 cabin. With additional lock on each cabin)	1 No
43.	Cabinets (Steel Made, Sheet Thickness=0.7mm, Lengh=100cm,Width=50cm, Hight=200cm)	1 No

LIST OF TOOLS/EQUIPEMENT FOR CAD & ROBOTICS LAB

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Computer with complete accessories (Server PC for Instructor)	50 set &1Teacher
2.	Computer Table	50 set &1Teacher
3.	Computer Chair	50 set &1Teacher
4.	Smart wiFi TV LED (screen display range 65 inch -85 inch)	01 No's
5.	Multimeter	10 NO's
6.	Soldering Iron and solder wire	10 NO's
7.	Hot glue gun	05 NO's
8.	Screwdrivers set	10 NO's
9.	Mini drill / Dremel (for chassis and enclosures)	05 NO's
10.	Wire strippers and cutters	10 NO's

LIST OF FURNITURE & EQUIPMENT FOR DRAWING HALL

(For DAE class of 50 students)

S.NO	Name of Machinery /Equipments	Quantity
1.	Drawing Table	50 No's
2.	Student sitting stool	50 No's
3.	Smart wiFi TV LED (screen display range 65 inch -85 inch)	01 No's

CONSUMABLE STOCK ITEMS

LIST OF GENERAL CONSUMABLE MATERIAL/ ITEMS

(For DAE class of 50 students)

S.NO	Name of Consumable material	Quantity
4.	Engine Oil (SAE 20W-50) 4L Gallon	12 Gallons
5.	Grease (Lithium base)	10 kg
6.	Petrol	1000 L
7.	Diesel	1000 L
8.	CNG	10 Kg
9.	LPG	10kg
10.	Sulphuric Acid	10 L
11.	Kerosene Oil	100L
12.	Brake Oil (350ml)	20 tin
13.	Distilled Water	60 L
14.	Lead Acid Battery (80-100 AH)	10 No's
15.	Dry Battery (55-75 AH)	10 No's
16.	Lithium base battery	05 No's
17.	Battery terminals Clamp set (Copper made)	05 set
18.	Engine Over-hauling Kit	1 for each engine
19.	Emery Papers (0,1,2)	10 No's each
20.	Fan Belt(V-belts)	10 No's
21.	Oil Filter	20 No's
22.	Air Filter	20 No's
23.	Fuel Filter	30 No's
24.	Auto wire 3mm, 5mm	10 No's each coil
25.	Head Lights Beam	10 No's
26.	Auto Bulbs (different types)	24 No's each type
27.	Insulation Tape	30 No's

28.	Thimbles (male and female types) box	10 each
29.	Spark Plug High tension leads Set	5 set for each engine
30.	Cotton Rags	200 kg
31.	Malmal cloth	10kg
32.	Emery Past	5 tin
33.	WD-40 Rust Remover 400ml Bottle Paking	10 No's
34.	Spark Plugs	50 No's
35.	Engine Valve Cotter Pin	10 Dozen
36.	Thrust Bearing	10 No's
37.	Piston Rings (set)	10 set
38.	Shell Bearings set	5 for each engine
39.	Ignition Switch	10 No's
40.	Soldering wire	20 Roll's
41.	Fuses (various range)	50 dozen
42.	Wire brush	5 No's
43.	Sand paper sheet (0, 1, 2,3 no)	2 dozen each type
44.	Grinder disk	5 No's
45.	Gasket material(cork sheet)	10 No's
46.	Shallac Tube Paking	20 No's
47.	Washers (aluminum/copper/fiber) (Box)	1 box each type
48.	Assorted size of nuts & bolts	25 No's each size
49.	Screws deferent size (Box)	1 box each size
50.	Bearings (Ball type, Needle type, Bush type,Angular contact)	2 No's each type
51.	Engine timing belts	10 No's
52.	Hose pipe (set)	10 set
53.	Jubilee hose clips (different size)	2 dozen
54.	Tube vulcanizer solution (tin)	1 2 tin
55.	Tyre(Radial & Bias tyre. Size=10-22inch)	10 No's
56.	Tyre Alloy Rim (different size)	10 No's

57.	Jumper leads	6 No's
58.	Drill bit set	5 No's
59.	Oil drain Plugs(different types)	5 No's
60.	Cup type core plugs	1 dozen
61.	Internal & External circlips	20 No's each
62.	Splint pins (different size (box)	1 box each size
63.	Coil springs(different types)	1dozen each type
64.	Dust boot & seals (different types)	10 No's each
65.	Wiper blades (set)	10 set
66.	Engine flush chemical (450ml)	10 Pack
67.	Throttle Body Cleaner	05 Bottle's
68.	Wind Screen wash fluid (1000ml)	10 L
69.	Car Body detailing Cleaner	10 No's
70.	Pop Rivets (different sizes) Box	1 box each
71.	Drill Bits	10 No's
72.	Grinder Disk	10 No's
73.	Cable ties	4 dozen
74.	Fire extinguisher filling powder (packet)	5 Packets
75.	Tire puncture kit	10 No's
76.	Tire valve	1 dozen
77.	Mechanics mat	6 No's
78.	Horn Relay	12 No's
79.	Horn (set)	10 set
80.	Horn Button	10 No's
81.	Dimmer Switch	10 No's
82.	Wheel Balancing weights (5gm -100gm)	25 No's each size
83.	Diode	2 dozen
84.	Capacitor	2 dozen
85.	Resistances (different range)	2 dozen

86.	Step down transformer (5A, 10A)	5 each type
87.	Transistor	2 dozen
88.	Battery post Cleaner	6 No's
89.	Carburetor service kit	6 No's
90.	Sand for Spark plug Cleaner machine	10 packets
91.	Wooden powder	20kg
92.	Fire Extingusher Filling gas	05 kg

**LIST OF CONSUMABLE MATERIAL FOR
AUTOMOTIVE DENTING, PAINTING & DETAILING LAB**

1.	Paint	20 Gallon
2.	Kerosene Oil	100 Litter
3.	Thinner	10 Litter
4.	Steel Puteen	20 Tin
5.	Yellow Cloth	05 Dozn
6.	Cotton Rags SIZE 2X2 ft B- pairt cut piece	25 Kg
7.	Emery Paper Wet (No:1500 & NO:2000)	05 Dozn each
8.	Lacquer and clear coat	10 Ltr
9.	Primer for car paint	10 Gallon
10.	Masking Tape	5 Dozn
11.	Masking Paper	500 Nos
12.	Compound	10 Nos
13.	Polish	10 Nos
14.	Measuring jar 1000 ml	1 Nos
15.	Paint Mixing Strip	50 Nos
16.	Dent Pulling washer (diff shapes)	200 Piece
17.	EMRY PAPER DRY (12 number)	05 Dozn
18.	MICRO FIBER TOWELS EDGELESS	50 No's
19.	MICRO FIBER TOWELS 600 GSM	20 No's

20.	MICRO FIBER TOWELS 800 GSM	20 No's
21.	TIRE BRUSH	30 No's
22.	ENGINE CLEANING BRUSH	30 No's
23.	APPLICATOR PAD (YELLOW)	20 No's
24.	APPLICATOR PAD (RED)	12 No's
25.	DETAILING BRUSH PACK (YELLOW & BLACK)	24 No's
26.	POLISHER PAD 3 STEP 3 PIECES	05 No's
27.	POLISHER PAD WHOOL	05 No's
28.	DASHBOARD FINS CLEANING BRUSH	05 No's
29.	CHEMICAL RANGE (MPC,MPP,TTD,WCW,UCW,WSW, IGC,LIQUID WAX ,PLASTIC RESTORER	05 No's
30.	MULTI PURPOSE CLEANER (MOSTLY USED)	15 L
31.	MULTI PURPOSE PROTECTION(MOSTLY USED)	05 L
32.	TIRE AND TRIM DRESSING (MOSTLY USED)	05 L
33.	INVISIBLE GLASS CLEANER (MOSTLY USED)	05 L
34.	COMPOUND POLISH 3 STEP {Abrasive cutting polish, Normal cutting polish, Finishing polish(MOSTLY USED)	500ML

LIST OF CONSUMABLE MATERIAL FOR DRAWING HALL

S.NO	Name of Consumable material	Quantity
1.	Drawing Sheets(A2/A3) Cartrege or Bond paper, 100-200	12000 No's
2.	Masking Tape (1in or 0.5in width, for the fixing sheets	50 Roll
3.	Drawing Pencils (Grade HB, H, 2H, B, 2B)	50 Box
4.	Drawing Clips/Paper clips (for holding sheets on drawing board)	50 Pack
5.	Drafting Tape/Cellotape (transparent or matte fish	50Roll

LIST OF CONSUMABLE MATERIAL FOR MACHINE SHOP & ALLIED SHOPS

S.NO	Name of Consumable material	Quantity
6.	Ms Round Bar 1" Dia	60 Kg
7.	MS Sqare bar 1/ 2x1/2	10 Kg
8.	MS Sqare bar 2x2	40 Kg
9.	Cutting oil	10 L
10.	Mobil Oil	10 L
11.	Cotton Waste	20 Kg
12.	Hand hacksaw blade	2 Dozzen
13.	HSS Tool Bit (1/2*1/2*6)	30 No's
14.	Power Hacksaw blade	05 No'S
15.	diamond dresser	10 No'S
16.	Grinding wheel	06 No'S
17.	kerocen oil	10 L
18.	emry paper	2 Dozzen
19.	Cleaning Brush	12 No'S
METAL SHOP		
1.	G.I Pipe 3/4"	20 Kg
2.	M.S Flat 1"x1/8"	40 Kg
3.	Power Hacksaw blade	100 No'S
WELDING SHOP		
1.	M.S Round 1/2. (Kg).	
2.	M.S Electrode 3.2*350	15 Kg
3.	Hand Grander disc 9"	05 No's
4.	MS Flat 1'*1/8'	35 Kg
5.	MS Flat 1'*3/16	40 Kg
6.	MS Flat 1'1/2*3/16	60 Kg
7.	Cut Of Mechine Disk	04 No's
8.	Apran	10 No's

FOUNDARY SHOP		
1.	Alminam Ingot	20 Kg
2.	Lead Ingot	20 Kg
3.	Safety Material (cap)	10 No''s
4.	Shoes	10 No's
5.	Apran	10 No's
6.	Safety Goggles	10 No's
7.	Safety Helmets	10 No's
8.	Leather Slaves	10 No's
9.	Leather Leggies	10 No's
10.	Long Shoes	10 No's
11.	First Aid Box	01 No's
12.	Sehira gurh	20 Kg
13.	Mask	10 No's
14.	Narieal Brush	10 No's
15.	Stone Powder	02 Kg
16.	Green Sand	50 Feet

LIST OF CONSUMABLE MATERIAL FOR CAD & ROBOTICS LAB

1.	Bread Board(Medium & Large size)	10 NO's each
2.	Resistors(Assorted types(e.g 1 ohm, 1 Mega ohm)	10 NO's each
3.	Capacitors(Electrolytic and Ceramic typesAssorted types)	10 NO's each
4.	LEDs(Assorted Colors)	10 NO's each
5.	Sensor(IR, Ultrasonic, Temperature, etc)	10 NO's each
6.	Arduino UNO / NanoMicrocontroller board)	10 NO's each
7.	Breadboard(For prototyping circuits)	10 NO's
8.	Jumper wires(Male-male, male-female, female-female)	10 NO's each
9.	USB Cable (A-B / micro)For programming Arduino	10 NO's
10.	Resistors (1Ω – 1MΩ) Common values: 220Ω, 1kΩ, 10kΩ	10 NO's each
11.	LEDs (Red, Green, Blue, etc.)	10 NO's each

12.	Potentiometer (10k Ω) Analog input / control knob	10 NO's
13.	Push buttons (For input control)	10 NO's
14.	Capacitors(Ceramic and electrolytic)	10 NO's each
15.	Diodes (Zener) For voltage regulation / protection	10 NO's each
16.	PIR Sensor (Motion detection)	10 NO's
17.	Ultrasonic Sensor (Distance measurement)	10 NO's
18.	IR Sensor Module (Obstacle or object detection)	10 NO's
19.	Sound Sensor Module(Detecting sound or claps)	10 NO's
20.	Water Level Sensor(Liquid level detection)	10 NO's
21.	Vibration Sensor(Detecting movement or shocks)	10 NO's
22.	Servo Motor (SG90 / MG996R) Precision control (robotics, arms)	10 NO's
23.	DC Motor + Motor Driver (For robotic movement)	10 NO's
24.	Relay Module (Controlling AC appliances)	10 NO's
25.	Buzzer (Active / Passive) Sound output for alerts	10 NO's
26.	LCD Display (16x2 / 20x4) Text display	10 NO's
27.	Bluetooth (HC-05 / HC-06) Wireless control via mobile apps	10 NO's
28.	WiFi for IoT applications	01 NO's
29.	9V Battery / Battery Pack (Portable power)	10 NO's
30.	5V Regulator (Voltage regulation)	10 NO's
31.	SD Card Module(Data logging and storage)	10 NO's
32.	RTC Module (Real-time clock)	10 NO's
33.	Keypad (User input interface)	10 NO's
34.	Joystick Module (Gamepad or robotic control)	10 NO's