| Name of Trade | | | Turner | | |
|---------------|---|-----------------|---|--|--|
| Sr. No. | Name of the Equipment | Std List No. | Specification | | |
| 1 | 2 | 3 | 4 | | |
| 1 | Caliper out side spring joint 150 mm | 1 | 150 mm Centrally mounted adjustment screw offers finer setting, than firm joint type | | |
| 2 | Caliper inside spring joint 150 mm | 2 | 150mm Centrally mounted adjustment screw offers finer setting, than firm joint type | | |
| 3 | Caliper odd-leg firm joint 150 mm | 3 | Divider 150 cm spring Manufactured from good Quality High Carbon steel tips hardend and tempered | | |
| 4 | Steel Rule 150 mm 1 No | 4 | 150mm Standard Stainless Steel Metric/Inch Stainless Steel Etched Ruler with zero at the edge | | |
| 5 | Scriber 150mm x 3 mm | 5 | 7 Scriber 150mm length Scriber 150 mm X 3mm (Knurled centre position)spring made of high Carbon steel and point Hardened & temp | | |
| 6 | Hammer ball pein 250 gm with handle | 6 | 250 gms ball pein with handle | | |
| 7 | Centre punch 100 mm. | 7 | 100mm Set is made from hardened and tempered steel. Square heads, knurled grip | | |
| 8 | Prick punch 100 mm | 8 | Prick Punch Set is made from hardened and tempered steel. Square heads, knurled grip | | |
| 9 | Divider spring joint 150 mm | 9 | Divider spring joint 150 mm make high carbon steel | | |
| 10 | Safety goggles clear glass (Good quality) | 10 | Impact resistant molded lens with Super Coat anti-fog coating, 1 .8 mm thick polycarbonate lens | | |
| B: TO | I OLS, EQUIPMENTS AND GENERAL OUTFIT | Į | | | |
| Sr. No. | Required As Per NCVT norms | Sr. No. | | | |
| 11 | Surface plate 60 x 60 cm | 11 | 60*60 cm make C.I / Granite | | |
| 12 | Work bench 240 x 120x 90cm high | 12 | 240 x120 x 90 cm with 3.5 to 5 cm wooden surface at the top, legs 6 (Mild steel) | | |
| 13 | Marking table (CI) 120 x 120 | 13 | 120 x 120 cm Stand mild | | |
| 14 | Bench vice 125 mm jaw 6 nos. | 14 | Bench vice 125mm jaw manufactured from high Quality Grey Cast Iron . | | |
| 15 | Vee-Block 75 and 125 mm with clamp | 15 | cast iron/ carbon steel with magnatic effect hardened to 55-60 HRC | | |

| 16 | Universal Surface gauge 250 mm arm | 16 | The base 250mm arm is made from case hardened steel, ground on bottom and at one end. The Fine adjustment feature makes it possible to obtain quick and accurate settings. This adjustment is made by a knurled thumbscrew, which is located at the end of the rocker |
|----|--|----|---|
| 17 | Hammer ball pein 750 gm with handle | 17 | weight 750gm with handle |
| 18 | Chisel cold flat 20 x 150 mm | 18 | Chisel size: blade 20mm x length 150mm,Superior quality, long service life |
| 19 | Hammer copper/brass 500 gm with handle | 19 | Hammer ball pain copper/brass 500 gm Variants include the straight-peen, diagonal-peen, and cross-peen hammer |
| 20 | Hacksaw fixed 200 mm (Pistol grip) | 20 | hacksaw is a fine-tooth hand saw with a blade held under tension in a frame, used for cutting materials such as metal or plastics |
| 21 | File flat 300 mm rough | 21 | A Standard File Flat 300 mm long,,rough type made of HCS with handle |
| 22 | File flat 250 mm 2nd cut | 22 | A Standard File Flat 250mm second cut Type made of HCS with handle |
| 23 | File flat 250 mm smooth | 23 | A Standard File Flat 250 mm smooth Type made of HCS with handle |
| 24 | File half round 250 mm 2nd cut | 24 | A Standard File half round 250 mm 2nd cut Type made of HCS with handle |
| 25 | File round 250 mm smooth | 25 | A Standard File round smooth 250 mm Type made of HCS with handle |
| 26 | File half round 150 mm smooth | 26 | A Standard File half round smooth 250 mm Type made of HCS with handle |
| 27 | Knurling tool revolving head (Rough, med, fine) diamond and straight | 27 | 128 Diametral pitch with 36 teeth. |
| 28 | Combination set 300 mm (Complete Set) | 28 | Combination Set Square With Level Scribe & 12" 300 Mm Steel Metal Ruler Rule Set |
| 29 | Screw Driver 200 & 300 blade heavy duty | 29 | 200 & 300 BLADE WITH PLASTIC HANDLE_HEAVY-DUTY |
| 30 | Spanner double ended 6 mm to 21 mm | 30 | 6MM TO 21MM Made of high quality chrome vanadium steel or carbon steel, spanners are available in different finishes. |
| 31 | Spanner adjustable 200 mm | 31 | 200MM Forged Chrome Vanadium steel construction for strength and durability. Wide handle for comfort under high torque |
| 32 | Pliers flat nose 150 mm side cutting | 32 | 150MM equipment's. Plain table with stands and accessories. |
| 33 | Caliper transfer inside 150 mm | 33 | 150MM is made of flat stock, high-grade steel, for easily reproducible and accurate transfer |
| 34 | Micrometer Outside 0 to 1" Reading 0.0001" | 34 | Range 0-1 inch ,and least count:0.0001" Insulated Steel Frame. Friction Thimble. |
| 35 | Micrometer Outside 0 to 25 mm Reading 0.01 mm | 35 | Range 0-25 mm and least count 0.01mm Carbide Tipped Measuring Faces. These Sets 0 to 25mm Insulated Steel Frame. Friction Thimble |
| 36 | Micrometer Outside 25 to 50 mm Reading 0.01 mm | 36 | range 25-50mm least count 0.01 mm ,Carbide Tipped Measuring Faces. |
| 37 | Micrometer Outside 50to 75 mm Reading 0.01 mm | 37 | range 50-75mm least count 0.01 mm ,Carbide Tipped Measuring Faces. |
| 38 | Micrometer Inside up to 25 mm Reading 0.01 mm | 38 | range upto25mm with least count 0.01 mm ,Carbide Tipped Measuring Faces. |

| 39 | Micrometer Inside up to 50 to 150 mm reading 0.01 mm | 39 | range 50-150mm with least count 0.01 mm ,Carbide Tipped Measuring Faces. |
|----|---|----|---|
| 40 | Depth Gauge Micrometer 0 to 150 mm Reading 0.01 mm | 40 | range 50-150mm with least count 0.01 mm ,Carbide Tipped Measuring Faces. |
| 41 | Vernier Caliper Outside, Inside and Depth 200 mm /8 inches with metric & inch scale | 41 | System of Measurement Inch/Metric Material Type Stainless Steel Manufacturer Series Number 530 Series Specific Uses For Product Depth , Inside , Outside , Step Tip Description Standard |
| 42 | Dial Vernier Caliper with metric 200 mm reading 0.05 mm | 42 | Stainless Steel, Readout: 0.01mm; 0.02mm.Measuring range: 0-200, Satin chrome plated, |
| 43 | Vernier Bevel Protractor 300 mm blade | 43 | With Magnifying glass and acute angle attachment Two Blades 150mm and 300mm Least Count 5 ', Digimatic Electronic Type also available |
| 44 | Vernier Micrometer 0 - 25 mm o/s LC 0.001mm | 44 | Matt chrome thimble and sleeve • Tungsten Carbide measuring faces • Enamelled steel frame • Minimum accuracy scale: 0.01mm • Measuring range: 0-25mm • Lock • Ratchet |
| 45 | Vernier Micrometer 25 - 50 mm outside reading 0.001mm | 45 | Matt chrome thimble and sleeve • Tungsten Carbide measuring faces • Enamelled steel frame • Minimum accuracy scale: 0.01mm • Measuring range: 25-50mm • Lock • Ratchet |
| 46 | Vernier Micrometer 0 inch to 1 inch. Outside Reading 0.0001 inch | 46 | Matt chrome thimble and sleeve • Tungsten Carbide measuring faces • Enamelled steel frame • Minimum accuracy scale: 0.01 inch • Measuring range: 0- 1 inch • Lock • Ratchet |
| 47 | Feeler Gauge 100 mm blade metric set | 47 | No. of blades - 13. Range - 0.03-0.50mm. Width - 12.7mm. Length - 100mm. |

| 48 | Radius Gauge 1 to 7 mm & 7.5 to 15 mm | 48 | Range (mm) 1-7 & 7.5-15 mm |
|----|--|----|--|
| | | | Gages 14 Increments 0.5mm Material Steel |
| 49 | Centre Gauge com. 60°, 55° and 29° | 49 | Centre Gauge com. 60°, 55° and 29° make stainees steel |
| 50 | Screw Pitch Gauge Whitworth & Metric each | 50 | Screw Pitch Gauge Whitworth & Metric each stainees steel |
| 51 | Drill Angle Gauge | 51 | rills are manufactured from the finest U.S. tools steels |
| 52 | Dial Test Indicator 0.01 mm with magnetic base | 52 | 0-10mm dial in 0.01mm increments (metric) • Magnetic base with fine adjustment |
| 53 | Vernier Height Gauge with dial 300 mm L.C. 0.01 mm | 53 | Depth and Step Measurements, Stainless Steel, 0"/0mm-8"/200mm Range, +/- 0.001"/0.01mm Accuracy, 0.0005"/0.01mm Resolution |
| 54 | Try Square 150 blade | 54 | Blade 200 mm long with lasered mm scale Handle made of beechwood with brass rail |
| 55 | Magnifying Glass 75 mm dia. | 55 | 2 lenses handheld magnifying glass+75mm material:plastic frame,with compass |
| 56 | Plain Ring and Plug Gauge 12 to 50 mm by 1mm | 56 | Plain Ring and Plug Gauge 12 to 50 mm by 1mm Make stainees steel |
| 57 | Wheel Dresser Huntingon-type with star cutter | 57 | Wheel Dresser Huntingon-type with star cutter made of cast iron. |
| 58 | Wheel Dresser Diamond (inserted-0.75 or 1 Carat) | 58 | Wheel Dresser Diamond (inserted-0.75 or 1 Carat) made of cast iron |
| 59 | Screw Thread micrometer interchangeable | 59 | Screw Thread micrometer interchangeablemake Material Type Carbide |
| 60 | Morse Taper Plug & Ring Gauge no. 0 to 7 MT | 60 | Morse Taper Plug & Ring Gauge no. 0 to 7 MT quality material like tungsten-based oil-hardened & non-shrinking steel |
| 61 | Sin Bar with centers 200 mm | 61 | Sin Bar with centers 200 mm Made from high quality alloy steel |
| 62 | Slip Gauge metric set (87 pieces in a Box) | 62 | Slip Gauge metric set (87 pieces in a Box) High Grade Steel / Carbide / Ceramic |
| 63 | Morse Taper Sleeves No. 0-1, 1-2, 2-3, 3-4, 4-5. | 63 | Precision engineered from high quality steel |
| 64 | Drill Drift | 64 | Drill Drift alloys like high carbon, titanium, high alloy and stainless steel, high temperature alloy, aluminum, bronze, cast & ductile iron |
| 65 | Twist Drill straight shank 1 to 12 mm by | 65 | 1MM TO 12 MM straight shank twist drill bits are made from high quality of high speed steel |
| 66 | Twist Drill taper shank 10-12 mm by 0.5 mm | 66 | 10-12 MM straight shank twist drill bits are made from high quality of high speed steel |
| 67 | Drill Chuck 12 mm cap with key | 67 | Drill Chuck 12 mm cap with key make allow steel |
| 68 | Tap & Die B.A. No. 0 to 10 in a box | 68 | Each high carbon steel tap and die has size and starting side permanently marked on each and box contains 0-10 |
| 69 | Tap & Die metric set up to 25 mm | 69 | size upto 25mm Each high carbon steel tap and die has size and starting side permanently marked on each |
| 70 | Tap & Die B.S.F. up to 1 inch | 70 | 1 inch high carbon steel tap and die has size and starting side permanently marked on each |
| 71 | Tap & Die B.S.W. up to 1 inch | 71 | 1inch high carbon steel tap and die has size and starting side permanently marked on each |
| 72 | Reamer machine straight flute 6 to 25 mm | 72 | Reamer machine straight flute 6 to 25 mm make with high carbon steel |

| 73 | Reamer Adjustable 10 to 20 mm | 73 | Reamer Adjustable 10 to 20 mm high carbon steel |
|-----|--|-----|--|
| 74 | Tool Holder RH & straight for mm square tool bit | 74 | Tool Holder RH & straight for mm square tool bit high carbon steel |
| 75 | Parting Tool Holder with H.S.S. blade | 75 | These top quality parting tools are manufactured to high tolerances by Glanze. |
| 76 | Tool Bits 12 X 150 mm sq. assorted shaped | 76 | 12*150 mm make with High Speed Steel Tool Bits |
| 77 | Boring Tool holder for 6 mm sq. tool bit | 77 | Boring Tool holder for 6 mm sq. tool bit high carbon steel |
| 78 | Steel Rule 300 mm with Metric and Inch | 78 | Steel Rule 300 mm with Metric and Inch stainees steel |
| 79 | Oil Can ½ pint (pressure feed system) | 79 | Oil Can ½ pint (pressure feed system) make mild steel |
| 80 | Dog Carrier 235, 50 and 75 mm | 80 | Dog Carrier 235, 50 and 75 mm made high carbon steel |
| 81 | Angle Plate with slots 200 mm | 81 | Angle Plate with slots 200 mm made high carbon steel |
| 82 | Spirit Level 0.05 meter 200 m | 82 | simultaneous measuring or levelling of surfaces on machines |
| 83 | Tool Maker's button | 83 | Tool Maker's button made alloy steel |
| 84 | Combination Drill A-2.5 and A-1 | 84 | Combination Drill A-2.5 and A-1 made alloy steel |
| 85 | Oil Stone 12 mm sq. x 100 long fine | 85 | Oil Stone 12 mm sq. x 100 long fine made mild steel |
| 86 | Tap Wrench (adjustable) | 86 | This is manufactured using high grade raw materials sourced ,In order to ensure quality, this is |
| | | | stringently tested on various parameters. |
| 87 | Die Handle | 87 | Die Handle alloy steel |
| 88 | Tool Bit assorted sizes on holder | 88 | Tool Bit assorted sizes on holder make high speed steel |
| 89 | Machine Vice 100 mm jaw (For Drill Machine) | 89 | Premium quality swiveling milling vise features perfectly aligned, precision ground jaws, large |
| | | | Acme screw and easy to read 0 - 360 degree |
| 90 | Chalk Board on mobile stand | 90 | manufacturer of high quality Ceramic steel Chalk Board |
| 91 | Spare Grinding Wheel Ajax type for carbide tool | 91 | High-speed grinding wheels made in Diamond or CBN |
| 92 | Almirah-1980x 910 x 480 mm | 92 | Steel Almirah |
| 93 | St. Locker with drawer (Pigeon holes) | 93 | St. Locker with drawer (Pigeon holes) steel |
| 94 | Desk | 94 | Desk wooden |
| 95 | Stool 1 No. 4 Nos. | 95 | Stool wooden |
| 96 | Angle Gauge for tool grinding | 96 | Angle Gauge for tool grinding stainees steel |
| 97 | Hand Chaser M-12 & M-16 (External) | 97 | Hand Chaser M-12 & M-16 (External) make Carbon and Alloy Steel |
| 98 | Hand Chaser M-12 & M-16 (Internal) | 98 | Hand Chaser M-12 & M-16 (Internal) make Carbon and Alloy Steel |
| 99 | Revolving Centrer (to suit Lathe tailstock) | 99 | Revolving Centrer (to suit Lathe tailstock) made alloy steel |
| 100 | Tool Cemented carbide assorted shaped (External) for stell turning | 100 | Tool Cemented carbide assorted shaped (External) standard high speed steel tools |
| 101 | Thread Plug Gauge M-20 & M-21 | 101 | Thread Plug Gauge M-20 & M-21 stainees steel |
| 102 | Thread Ring Gauge M-20 & M-21 | 102 | Thread Ring Gauge M-20 & M-21 make stainees steel |
| 103 | Machine Chase M-12TO m-21 (Std. Series) to suit on | 103 | Machine Chase M-12TO m-21 (Std. Series) to suit on make Carbon and Alloy Steel |

| 104 | Coventry Die head | 104 | Coventry Die head using high grade steel. |
|--------|--|-----|--|
| 105 | Gauge Drill Grinding | 105 | Gauge Drill Grinding make stainees steel |
| 106 | Magnetic Chuck 150 mm dia.(Circular type) | 106 | Each Block incorporates 4 different sized Vee's thereby supporting a wide range of size |
| 107 | Lathe Mandrels (Diff. Types) | 107 | Contains mandrel with spacers, three buffs, Tripoli and white diamond compounds and |
| 108 | Conventry Type Die Head (Self opening) | 108 | 1/4" to 1" (Threading Capacity)3/8" to 11/2" Cutting Die Head as comparison to Coventry type self opening Die Hea |
| 109 | Collapsible Tap with attachment | 109 | The tripod socket is now part of the body, not simply attached to the removable Collapsible M |
| 110 | Combination Drill | 110 | Combination Drill make high speed steel |
| 111 | Fire Extinguisher and buckets | 111 | Combination Drill make high speed steel |
| 112 | Bore dial gauge stems – 12 to 35 mm, 35 to 65 mm., dial gauge indicator of 0.01 accuracy. | 112 | Fire Extinguisher and buckets Manufacturer and Supplier of Fire Safety Products, Fire Bucket, Fire Blanket, Fire Extinguisher, Fire Resistant Suit and Hose Pipe |
| C : M/ | CHINERIES AND EQUIPMENTS | | · |
| 113 | Lathe S.S. & S.C. (All geared head stock) 15 cm centerheight, to admit 120 cm between centers. Machine to bemotorized and supplied with coolant installation, 1-jawIndependent chuck 250 mm, 3-jaw self-centering chuck 150mm, fixed steady, traveling steady, face plate, driving plate, 4-way tool post, quick change gear box for Metric or Britishthreads, live and dead centers with taper attachments. | 1 | Lathe S.S. & S.C. (All geared head stock) 15 cm center height, to admit 120 cm between centers. Machine to be motorized and supplied with coolant installation, 1-jaw Independent chuck 250 mm, 3-jaw self-centering chuck 150 mm, fixed steady, traveling steady, face plate, driving plate, 4- way tool post, quick change gear box for Metric or British |
| 114 | Lathe S.S & S.C.(all geared type) 20 cm. Center height, 120 cmbetween centers, gap bed machine to be motorized and suppliedwith coolant nstallation, 4-jaw independent chuck, 300 mm , 3-jaw self-centering chuck 200 mm fixed steady, face plate,driving plate, 4-way tool post, quick change gear box forMetric/British threads, live and dead centers with taperattachments. | 2 | Lathe S.S & S.C.(all geared type) 20 cm. Center height, 120 cm between centers, gap bed machine to be motorized and supplied with coolant installation, 4-jaw independent chuck, 300 mm , 3- jaw self-centering chuck 200 mm fixed steady, face plate, driving plate, 4-way tool post, quick change gear box for Metric/British threads, live and dead centers with taper attachments. |
| 115 | Lathe tool room S.S. & S.C. (all geared type) 15 cm centerheight, 120 cm between centers. Machine to be motorized andsupplied with coolant installation, 1-jaw independent chuck 250mm, 3-jaw self-centering chuck 150 mm fixed steady, traveling steady, face plate, driving plate, 1-way tool post, draw in typecollets set up to 25 mm, 0.5 mm, relieving attachments. | 3 | Lathe tool room S.S. & S.C. (all geared type) 15 cm center height, 120 cm between centers. Machine to be motorized and supplied with coolant installation, 1-jaw independent chuck 250 mm, 3-jaw self-centering chuck 150 mm fixed steady, traveling steady, face plate, driving plate, 1-way tool post, draw in type collets set up to 25 mm, 0.5 mm, relieving attachments. |

| | Grinding machine pedestal type D.E. 150 mm dia. Wheel withwheel guard and vision. | 4 | Grinding machine pedestal type D.E. 150 mm dia. Wheel with wheel guard and vision. |
|-----|---|---|---|
| 117 | Grinding machine pedestal type E.E. 150 mm dia. Wheel with wheel and vision guard | 5 | Grinding machine pedestal type E.E. 150 mm dia. Wheel with wheel and vision guard |
| 118 | Drill machine pillar type-motorized up to 12 mm. Cap. | 6 | Spindles are supported by precision ball bearings, Hinged steel belt and pulley cover for easy accessPrecision worktable with T-slots, tilts 45° to each side and swivels 360° |
| 119 | Power saw machine – hydraulic feed system – 400mm. Blade size. | 7 | Saw head unit is supported by two rigid hard- chrome plated & ground vertical columns, which are guided by self lubricated bushes. The blade is guided by bearings & carbide wear pads. The blade can be tightened and released hydraulically. The blade is hydraulically tightened up to recommended tensile strength of the saw blade. The saw is driven by sufficient drive power to cut material. |

D:List of additional machines, tools & equipment for two units (CNC)

| | CNC turning center dia. 150 mm., between center distance 500 mm. At least 8 station turret. Preferably with a popular controller like Fanuc, Siemens, etc. | | Specifications •CAD-CAM compatibility. •FANUC Emulated Key Board. • Table Locking facility with stepper motor • Powerful stepper Motors for axis control. • Powerful PC software for graphics. • Display of Actual Feed rate, Spindle speed • Automatically detects wrong steps in programming. • Safety Functions with Emergency Stop, Over • Alarm & self Diagnostic Functions. Centre Height- 100 mm Swing Over Carriage- 60 mm Distance Between Centre- 200 mm Max. Machining Diameter- 30 mm Max. Longitudinal Travel- 300 mm Spindle Speed (with Back Gear)- 40 to 2000 RPM Cross Slide Inclination- 0 Degrees, Standard Cutting Tool Size- 16 x 16 mmSpindle Motor- DC Motor, 1 HP, Thread Cutting- Straight, Automatic Lubrication Points- Provided Input System-Metric / Inch Control Axis- Simultaneous axis Interpolation- Linear, Circular, Parabolic & Elliptical , Minimum Increment- 0.005 mm Minimum Movement Command X-0.005mm Minimum Movement Command Z-0.005mm Repeatability- + 0.020 mm Feed Rate X & Z- 400 mm/min Rapid feed rate X & Z- 800 mm/mm Programmable Dwell (seconds)- Programmable Tool Offset with Turret- 8 nos. Backlash Compensation- Provided Speed Over Ride- 40%- 160% Feed Over Ride- 20%- 120% Type Of Control System- PC Based System Real Time Tool Path Simulation- Provided CNC trainer tools assorted – 01 Set |
|-----|---|---|--|
| | Multimedia teachware for CNC technology and interactive CNC machine simulators with console emulator software of popular control system makes : Fanuc, Siemens, Mitsubishi, etc. 1 for faculty, 10 for students | 2 | CNC Turning Tools assorted as per one trainer tool holder specification |
| 122 | Multimedia teachware for CNC technology | 3 | Multimedia teachware for CNC technology |
| | CNC Turning Tools assorted | 4 | CNC Grooving tools (External & Internal) as per one trainer tool holder specification |
| 124 | CNC Boring tools assorted | 5 | CNC Boring tools assorted as per one trainer tool holder specification |
| 125 | CNC Grooving tools (External & Internal) | 6 | CNC Grooving tools (External & Internal) as per one trainer tool holder specification |
| 126 | LCD projector / large screen TV | 7 | LCD projector / large screen TV |

| Digimatic Electronic Vernier Caliper inch and mm 8"/200 mm. LCM 0.005"/0.001 mm | Digimatic Electronic Vernier Caliper inch and mm 8"/200 mm. LCM 0.005"/0.001 mm |
|--|--|
| Digimatic electronic outside Micrometer (0 to 25 mm & 25 to 50 mm) LC 0.001 mm. | Digimatic electronic outside Micrometer (0 to 25 mm & 25 to 50 mm) LC 0.001 mm. |