

CATEGORY - FULL DESCRIPTION

MAJOR CATEGORY	BRIEF DETAILS
AGGREGATE	<u>Items</u> – Trailers, Towing Winch Mine Plough assy, Auto Lubrication System, Bearings, Belts, Clutch, Clutch Plates, Control Cables, Engines, Hyd. Pumps, Steering Pump, Hyd. Cylinder assemblies, Radiators, Oil Coolers, Suspension, Transmission, Water Pumps, Wire Rope, Air Brake System, Filters, Batteries, Fire Detection System, Automatic Fire Detection & Protection System, Swivel Joints, Wheel Disc., Wheel Rims, Piston Pins, Piston Rings, Axles, Control Valves, Propulsion System, HVAC System, Bogie, Fire Barrier Wall, Gangway, Coupler, EVAC System, Pantograph, PAPIS System, Door System, Lavatory, Bio Digester, Pantry set up, Propulsion, Cabin, AC kit, pipe assy kit, PTO, steering clutch assy, main clutch assy, steering brake assy, brake band assy, combi cooler assy, Turn Table, Axles, Control Valves, Accumulators
CASTING	<u>Type</u> – Sand/Pr. Die / Gravity Die/ Centrifugal / Investment/ Shell Mould <u>Material</u> – CI/ SG / GI / Aluminium / Non-Ferrous / Alloy Steels / Stainless Steels etc. <u>Machining</u> – With/ Without
ELECTRICAL	<u>Items</u> – Electrical / Electronic items, Batteries, Cables, Connectors, Junction Box, Terminals, Wire Harness, Switches, Overloading Protectors, Tyre Pressure monitoring Systems, Obstacle Detection Systems, Relays, Circuit Breakers, Sensors, Lamps, Display Units, Transformers, Camera, Bulbs etc.,
ENGINE ITEMS	<u>Items</u> – Specific to Engine like FIP, Mufflers, Cylinder Liners, Silencers, Piston, Engine Housing, Lube oil pump, compressor, Starting motors . Alternators, Radiators. Oil cooler elements, Compressor, Crankshaft, Cam shaft, Bi -metal bearings. Dampers etc.,
FABRICATION	<u>Type</u> – Heavy / Minor / Light / Sheet Metal Fabrication, Pressed Components, Profile Cutting , Shearing/Forming/Rolling/straightening items, Pipe Bending, TIG / MIG / Argon, CO2 Welding/Electron Beam Welding etc. Aluminium Alloy / High Temp Resistant Exotic Alloy Steel / Composites, Titanium, Titanium Alloys etc.
FORGING	<u>Type</u> – Open Die / Closed Die /Upset / Ring Forging, Rolling, Raw material <u>Material</u> – Alloy Steel / Steel / Ferrous / Non-Ferrous etc. <u>Machining</u> /HT – With/ Without

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HARDWARE	<u>Type</u> – Cold Forged / Hot Forged : Critical (High tensile / Track shoe) Bolts / Non-critical <u>Items</u> - Bolts / Screws/ Nuts (Nylock / Lock / Slotted) / Washers (Spring / Hardened) /Circlips, Heliserts, Rivets, Studs , Pins <u>Material</u> – Alloy Steel / Steel / Ferrous / Non-Ferrous etc.
MACHINING	<u>Type</u> – Turning / Boring / Milling / Grinding / Drilling / Shaping / Gears, M/c of Casting / Forging/Thread rolling/ Jig Boring / 5 Axes Continuous Machining/ Spinning/ Dish Forming/ Wire Cut / Chemical milling, ISO Grid Panel pocket Machining, Electrical Discharge Machining, Deep Hole drilling, Honing, broaching, slotting , slitting, Tapping , bevelling <u>Machines</u> – CNC / Conventional HMC / VMC / VTL/ Turning / Cyl. Grinding etc.. <u>Material</u> – Alloy Steel / Steel / Ferrous / Non-Ferrous etc.
POLYMER	<u>Type</u> – Rubber items / FRP/ Phenolic Moulded / Rubber Moulded / Rubber Metal Bonded / Plastic Metal Bonded / Extrusion items / Injection Moulded / Gravity Moulded / PTFE Products, <u>Items</u> – Hose Assemblies, Hyd. Seals, O-rings, Oil Seals, Tyres, Tubes & Flaps, Bellows, Bushings, Cushions, Suspension Boots, Tarpaulin Assys., PVC (Linoleum Sheet), Floor Board, EPDM Rubber, Insulation etc,
RAW MATERIAL	<u>Type</u> – Hot Rolled / Cold Rolled / Fin welded / Seamless <u>Items</u> – Angles, Bars, Beams, Channels, Flats, Plates, Sheets, Pipes, Squares, Rounds, Tubes, Track Shoe Profiles <u>Material</u> – Aluminum / Alloy Steel / Steel /Stainless Steel etc.
SERVICES	<u>Type</u> – Heat Treatment, Surface Treatment, Material Testing, Other Services etc. <u>Heat Treatment</u> - Annealing, Carburizing, Flame Hardening, Induction Hardening, Nitriding, Normalizing, Quench & Temper, Solutionizing Water Quench, Solutionizing Polymer Quench / Artificial Ageing <u>Surface Treatment</u> – Chrome Plating, Galvanizing, Hardening, Phosphating, Powder Coating, Sand / Shot Blasting, Stress Relieving etc. <u>Material Testing</u> - Mechanical / Chemical / Metallurgical testing / NDT Services, IGC Testing etc.

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	<u>Other Services</u> -, Chipping, Primer Painting, Kerosene cleaning, Anti-drumming compound appln, Gel cleaning of welds, acid cleaning of cars etc.
SPRINGS	<u>Items</u> - Anti Roll Bars, Coil Springs, Disc Springs Leaf Springs, Recoil Springs. Helical Springs, Wire etc.
MISCELLANEOUS / OTHERS	<u>Items</u> - Felt products, Gaskets, Glass, Logos, Jigs & fixtures, Name Plates, Packing Wood, Safety Belts, Screw Jacks, Self-adhesive tapes, Decals etc.