

**SOUTHERN RAILWAY**  
DETAILS OF MAJOR TRADE GROUPS

Major Group No	Group Description
00	Metal processing groups
01	Conversion / Miscellaneous process groups
03	Items peculiar to steam locos
10	Items peculiar to diesel locos
11	Items peculiar to vehicle and chasis of diesel locos
23	Items peculiar to electric locos and EMUs
30	Items peculiar to coaching stock and wagons
40	Cables, conductors, transmission materials
42	General electrical fittings
43	Electrical measuring instruments, appliances and components
45	Cells of all types, train lighting items of special nature and electrical amenities for passengers
46	Electric sub-station, transmission and distribution equipments
47	Electric machinery and parts
50	Telegraph and telephone equipments
52	Wireless equipments including electronic components and spares for communication
54	Mechanical signaling and interlocking equipments not covered by other groups
56	Electrical signaling and interlocking equipments
60	Permanent way and bridge work
61	Building materials and sanitary wares
62	Pipes and pipe fittings
65	Plant and machinery including complete units
67	Road motors, auto trucks, material handling equipments and spares
70	Abrasives
71	Brushes, brushware, baskets and bamboo products
72	Tools, accessories, components and instruments
73	Hardware items, fasteners
74	Hardware (other than fasteners), wire ropes, chains and allied fittings, oil lamps etc.
75	Rubber, leather, canvas, plastic, flooring and kindred materials
76	Electrodes, cutting and welding accessories, electrical and oxyacetylene
77	Paints, varnishes, and enamels including painters oil
78	Crockery, cutlery, napery, kitchen and tableware furniture and other equipments including clocks, watches, etc.,
79	Cloth, clothing and personal equipments cotton products like cord, twine ropes and waste cotton, etc
80	Petroleum and petroleum products
81	Acids, chemicals and chemical products (including soaps, disinfectants, insecticides and explosives ) and vegetable oils
82	Drugs, pharmaceuticals, hospital instruments and appliances
83	Stationery and photographic goods and equipments and laboratory equipments not covered elsewhere
84	Refractories glass, glass substitutes, asbestos, fibre and packing materials
85	Ball and roller bearings
86	Fire fighting equipments
90	Raw materials (ferrous)
91	Non-ferrous metals
92	Fuel other than petroleum products
93	Timbers
98	Scrap merchants

## ANNEXURE 'C'

**00 – Metal Processing Group**

0005	Light C.I. castings (including machining) upto 50 kgs.
0006	Medium C.I. castings (including machining) upto 1000 kgs.
0007	Heavy C.I. castings (including machining) beyond 1000 kgs.
0008	Spheroidal graphite cast iron, including machining
0009	Mechanite C.I. items
0010	Steel castings with machining upto 500 kgs
0011	Steel castings with machining above 500 kgs
0016	Malleable castings with machining
0018	Non-ferrous castings with machining
0020	Die castings
0021	Forgings light with machining
0022	Forgings medium with machining
0023	Forgings heavy with machining
0024	Drop stampings and offset forging
0025	Wheels, tyres, axles for rolling stock
0026	Wheels, tyres, axles for other than rolling stock
0027	Gult rings
0029	Gears and pinions for traction motors
0030	Gears and pinions for other operations
0032	Components involving machining only
0034	Heavy plate work
0035	Heavy fabrication work special to rolling stock
0036	Fabricated components welded and riveted
0038	Punching and press work
0039	Re-rolling – rounds and flats etc.
0042	Springs helical and volute
0043	Springs laminated
0044	Springs of SS wire
0047	Manganese steel components such as liners, pins and bushes

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**01 – Conversion / Miscellaneous Process Groups**

0107	Refining and smelting of non-ferrous scraps into virgin metals and alloy ingots
0108	Heat treatment – Flame, induction, case hardening / carburising, metalising
0109	Galvanising of components – Hot Dip / Electrolysis
0110	Anodising of components
0111	Chromium plating of components, hard chromium, nickel, cadmium, lead plating of components
0112	Non-metallic coating – Rubber lining, epoxy coating, plastic coating, etc.
0115	Cutting and shearing of steel sections including plates
0117	Fabrication of bridge and other structures
0120	Fabrication of garments, stitching
0122	Printing and binding work
0125	Transporting of steel and other materials
0128	Clearance of consignments from the ports
0130	Automobile body building
0131	Automobile repairs

### 03 – Items Peculiar to Steam Locos

0305	VDO speedometer and its spares including recording charts and flexible shafts with end couplings
0308	Sanding gears and parts
0310	Ejectors, steam brake valve and spares
0311	Injectors and spares
0315	Lubricators and spares
0316	Gauge glasses, protector glass and bull's eye (sight feed glass)
0318	Pressure and vacuum gauges
0320	Piston rod packing

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0323	Grease guns, nipples and cups
0325	Super heater element complete or parts(torpedo ends)
0327	Thermic syphon and parts
0328	Fire box including combustion chamber, tube and wrapper plates.
0333	Asbestos mattresses, asbestos packing, etc.
0336	Lubricator pads
0339	Valves, valve gears and other parts
0379	Sophisticated and high precision spares for steam locos not otherwise classified.

### 10 – Items Peculiar to Diesel Locos

1005	Engine block and main base and generator support.
1008	Cylinder liners
1009	Pistons, piston rings, wrist pins.
1010	Cylinder head / valve lever assemblies and sub-assemblies
1011	Inlet and exhaust valves, valve seat inserts and valve guides, push rods, fuel pump support fulcrums, cam rollers, spring seat and valve locks.
1015	Crank/ Camshafts and extension shafts
1017	Exhaust Manifolds
1019	Turbo super charger and spares including inlet and outer castings.
1021	Water cooler, after cooler and lubricating oil cooler
1023	Bimetal and tri-metal bearings and bushings.
1024	Shims
1025	Fuel injection system(imported-MICO)
1027	Valves for lubricating oil and fuel oil systems.
1029	Governors and governor drives including mounting and linkage
1031	Overspeed trip assembly and acceleration control devices.
1033	Vibration damper, clutch plates.
1035	Cardan shafts / propeller shafts.
1037	Sock filters, paper filters, oil bath filters and strainers
1039	Water pump, lubricating oil pump, fuel pump and spares, blowers, crank cast exhausters.
1041	Snubber valve assembly
1043	Air pressure control valves.
1044	Tachometer generator assembly
1045	Elbows, bends and fuel oil piping
1047	Gasket metallic, 'O' rings and oil seals
1049	Sophisticated and high precision spares for diesel locos not otherwise classified.

### 11- Items Peculiar to Vehicles and Chassis of Diesel Locos

1105	Hydraulic and hydro-mechanical transmission and spares.
1110	Vulcan couplings, fluid couplings and gear type coupling
1113	Air compressor, vacuum exhauster, expressor and spares
1115	Air brake and vigilance control and spares auto brake valve, independent brake valve, selector valve, pilot air valve, air reservoirs.
1117	Air compressor governor
1119	Radiator fan, eddy current clutch and spares.
1121	Air horns
1123	Sand conveyors and allied equipments
1125	Window wiper assembly with motor components.
1126	Insulated metallic fittings such as end bushes terminal strips, handles, etc.
1127	Sunvisor assembly
1129	Sliding window and components, door latch and door lock assembly.
1135	Speed recorder and allied equipment
1139	Valves-Sander control, horn operating safety auto drains pressure regulating and needle valves, fuel flow valves check, double check and globe valves,
1141	Cocks-Angle cock, combined cut-out cock and strainer three way cock, drain and cut out cocks.
1143	Traction motor blower, air duct boot and allied assembly
1179	Other sophisticated and high precision spares for diesel locos not otherwise included in any of the serialised trade groups

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### 23 – Items Peculiar to Electric Locos and EMUs and Electrical Portion of Diesel Locos

2305	Pantograph and its components
2310	Master controller and parts
2315	Dynamic and regenerative brake equipments
2310	Voltage regulators. 'E' type control equipments, excitation and transition control panels.
2323	Frequency regulators
2326	All protective relays like circuit breakers, current balance relay, overload relay etc.
2329	All E.P.contractors
2332	Arno convertors and spares.
2335	Shunts
2338	Silicon and solenium rectifiers and parts
2343	Resistors
2345	Tap changers and parts
2347	Smothering reactors and rectifiers
2349	H.R.C.fuses (high rupture capacity)
2351	Certain type of T.M.S.used on W.C.M. type locos and T.A.O.659
2353	Static battery chargers,
2355	Transformers (power and control)
2356	Receptacles and control jumpers
2357	Motor alternator and motor generator sets and spare
2379	Sophisticated and high precision spares for electric locos and EMUs not otherwise classified.

### 30 – Items Peculiar to Coaching Stock and Wagons

3005	Centre buffer couplers, draft gear and buffer assemblies
3008	Shacku type couplers (for EMUs)
3010	Screw couplings of all types
3013	Vaccum brake fittings such as cylinders, D.a. valves, alarm valves, release valves etc., piston rods, etc.
3017	Hose pipe syphon, packing and rolling rings etc.
3020	Slack adjuster
3024	Empty load box
3028	Shock absorbers.
3030	Silent blocks
3033	Vestibules
3036	Window shutters and doors
3039	Roof water tanks
3042	Stainless steel fittings for C. and W.stock
3044	Commodes
3037	Axle pulleys
3049	Battery boxes for coaches
3051	Carriage door locks
3052	Miscellaneous coach fittings not included in other groups – Lavatory
3055	Miscellaneous coach fittings not included in other groups – Exterior
3057	Miscellaneous coach fittings not included in other groups – Interior
3059	E.P. / Air equipments and spares.

### 40 – Cables, conductors, Transmission Materials

4005	Cables insulated VIR, PVC, PILC, etc
4010	Cables insulated aluminium sheathed for signalling
4015	Cables polychloroprene for wiring of diesel / electric locos and EMUs
4020	Aluminium conductor steel feinforced
4025	Conductors wire bare for electrical purposes
4030	Conductors copper other than wires
4035	Wire winding super enamelled cotton covered
4040	Resistance, fuse wires, etc.

### 41 – Insulators and Insulating Materials

4105	Sheets, rods, blocks, etc. synthetic resin bonded laminated.
4115	Ebonite sheets, blocks, etc.
4120	vulcanised fibre sheets, special reister panels, rods, blocks, etc.
4125	All types of insulating materials such as paper, black tape, cotton tape, fibre, blaswool, asbestos, ebonite, mica, sleeves, etc.
4130	Glass, mica and silicon tapes of Class E and above insulation.
4135	Porcelain insulators for low voltage.
4140	Procelain insulators for high voltage.
4145	Insulating varnishes, compounds and oils.
4150	PTEE/Teflon sheets and insulators.
4155	Porcelain tubes, blocks, cleats and connectors.

#### 42 – General electrical Fittings

4205	Switchgears for high voltage.
4206	Switches of all types including switches special, rotary and toggle types, push button, low water alarm switches, temperature switches, pressure switches, etc.
4210	Fans, home service/train service, air circulators exhaust blowers, etc., including regulators.
4213	Conduit pipes, flexible metallic tubes, etc.
4216	electrical lamps of sorts and sizes including fluorscent lamps, mercury vapour lamps, etc.
4219	Electrical floodlight lamps, fittings and accessories other than carriage lamp, fittings.
4223	Neon signs.
4226	Bowl glass, lenses of sorts.
4229	Wire terminals, cable lugs, connections and allied terminal fittings.
4230	Code markers for cables.
4232	Battons, casing boards, wooden plugs, rawl plugs, etc.
4235	Adapters, sockets and plugs of different varieties.
4238	Clips.
4242	Shades and shade parts.

#### 43 – Electrical Measuring Instruments and Appliances and Components

4305	Electrical measuring instruments, voltmeters, ammeters, meggers, Potentio meters, galvanometers, Ohm meters, volt meters, thermocouples, etc.
4310	Flaw detectors-Ultrasonic, Magnaflux radiography charts for recording instruments.
4315	Appliances for ventilation air-conditioners, refrigerators, air-conditioning plant and spares room heaters, water heaters, water coolers and their spares.
4320	All electrical household appliances and spares.
4325	Torches and other appliances for lighting.

#### 45 – Cells of aol Types, Train Lighting Items of Sepcial nature and Electrical Amenities for Passengers

4505	Steam turbo generators and spares.
4508	Engine head light equipments and spares.
4512	Dynamo, driving gear and switchgear.
4513	Spares for the above (4512).
4520	Cells dry for torches and other instruments.
4522	Cells dry for telegraph and telephone circuits.
4524	Cells load acid for train lighting, engine starting and stationary cells.
4525	Cell connectors.
4528	Air-conditioning equipments and spare parts pertaining to rolling stock only.
4532	Rectifiers, electrical couplers and their spare parts pertaining to rolling stcok only.
4535	Sephisticated and high precision spares for the above (4532).
4579	T.L. fittings and spares not included elsewhere.

#### 46 – Electric Substation, Transmission and distributions Equipment

4605	substation and track sectioning equipments.
4606	Spares for substation equipments.
4609	Rectrifiers and spares.
4612	Isolators and spares.
4615	Circuit breakers, and switchgears.
4618	Lightning arresotrs.
4620	All types of electrical and signalling relays.

4625	Fabricated galvanised structures for masts.
4629	Overhead electric equipments for traction.
4633	Grooved contact wire and catenary wire for OHE.
4637	Shackles, thimbles and other straining equipments.
4642	Miscellaneous fittings for OHE.

#### **47 – Electric Machinery and Parts**

4705	Motor, generators, starters, convertors of various types and sizes.
4706	Traction motors and generators and their accessories exclusive for diesel electric AC/DC locos and stock.
4710	Carbon brushes for traction motors and generators.
4712	Carbon brushes for other applications.
4716	Transformers of various types and sizes.
4720	Battery chargers and rectifiers.
4724	Electric control panels.
4728	Electroplating, phosphating plant and equipments.
4732	Lifts, escalators electric and accessories.
4735	Electric pumping sets.
4738	Electric oven and furnaces.
4742	Electric machineries (not included elsewhere).

#### **50 – Telegraph and telephone Equipments**

5005	Telegraph equipment and spares.
5006	Telephone equipments and spares.
5010	Telephone exchange and spares including traffic control equipment and spares.
5014	Teleprinter equipments and spares.
5018	Loudspeakers, Microphones, amplifiers and allied equipments and spares.
5022	Train passing apparatus and spares.
5026	Bells, bell pushes and buzzers.

#### **52 – Wireless Equipments including Electronic Components and Spares for Communication**

5205	Wireless equipments and spares.
5210	Microwave equipments and spares.
5215	Electronic computing equipments and calculators.
5220	Radios and accessories.
5225	Television sets and spares.
5230	Tape recorders and magnetic tape and cassette.
5279	Other sophisticated electronic equipments and spares.

#### **54 – Mechanical Signalling and Interlocking Equipments not covered by other Groups**

5410	Interlocking frames, their parts and fittings, cranks, compensators, etc.
5415	Signal arm, spectacles, slips, roddings, rollers, etc.
5418	Lenses and roundals for signals.
5422	Barriers, lifting gates, etc.
5426	Signal poles tubular and lattice.
5430	signal poles (RCC).

### 56 – Electrical signalling and Interlocking Equipments

5608	Signal machines electric.
5613	Block instruments and spares.
5618	Control frames and cabin fitting, electrical circuit controllers, reversers, signal route indicators, signals colour light multi unit type, searchlight type, etc.
5622	Shunt signals.
5679	Electrical signalling equipment and spares not otherwise classified.

### 60 – Permanent Way and Bridge Work

6005	Rails
6006	Crossings and switches.
6009	Tie bars, fish-plates and tie-plates.
6012	Fish-bolts, nuts, keys and fastenings.
6015	Steel sleepers.
6017	C. I. sleepers and chairs.
6019	R.C.C. sleepers.
6021	Wooden sleepers.
6025	Track tools exclusively used for permanent way work.
6029	Complete bridge girders.
6032	Track machines and spares.
6035	Dip lorry, push trolley, motor trolley complete.
6038	Welded wheels for trolleys.
6042	Hydraulic buffers at station ends.
6079	Sophisticated spares for track machines and equipments not otherwise classified.

### 61 – Building Materials and Sanitarywares

6105	Cement, lime, sand and bricks.
6108	Tiles for floorings, earthenware glazed.
6113	Roofing materials.
6116	Waterproofing compound for buildings.
6119	Doors and windows, metal.
6122	Tiles roofing and ridges.
6125	Water tanks, steel of sizes
6126	Water tanks R.C.C.
6128	Tabular structure pre-fabricated.
6131	Colapsible steel gates, grills, rolling shutters and similar items.
6134	Flushing cisterns, tanks and fittings.
6137	Sanitary porcelain ware.
6140	A.C. sheets asbestos, trafford sheets, ridges, etc.
6142	Bitumen washers and 1 most washers.
6145	Pans dust, pans latrine, drums, C.I. boxes.
6148	Water columns and fittings.
6151	Yard enclosing materials.
6154	Ladders, wooden, steel and aluminium.
6156	Venetain blinds.
6158	Stone ballast different sizes.
6179	Special items not listed elsewhere.



## 62 – Pipes and Pipe Fittings

5205	C.I. Pipes and fittings.
6207	G.I. Pipes and fittings.
6209	R.C.C. Pipes and fittings.
6211	Pipes stoneware and fittings.
6213	Tubes bright.
6215	Stainless steel pipes and fittings.
6218	Copper and brass pipes.6221
6221	Other alloy pipes
6224	Special pipings for diesel locos.
6228	Pipes seamless and ERW.
6231	Boiler tubes, flue tubes and element tubes.
6235	P.V.C. pipes, flexible and rigid and teflon pipes.
6238	Valves and cocks of sorts and sizes.
6241	Meters, flow and water.

## 65 – Plant and machinery including Complete Units

6503	Hydraulic presses and spares.
6505	Air compressors and spares not used in rolling stock.
6507	Pumping sets power operated and spares.
6508	Pumping sets hand operated and spares.
6510	Overhead cranes and spares.
6512	Mobile cranes, diesel or otherwise powered and spares.
6514	Stationary boilers, steam cranes, tarboilers and spares.
6516	Road rolles, concreete mixers and other engineering plant and machines.
6525	Pneumatic hammers, hsearing, brake press, punching, bolts and nuts forging machines, pugmill, etc.
6528	Machine tools powered by electricity.
6530	Pedestal grinders.
6532	Weighing machines and spares.
6534	Prime movers and spares (diesel and oil engines and spares).
6540	Pneumatic tools and machines.
6542	Earth moving equipments, Bulldozer, etc.
6544	Blasting equipments.
6548	Pulley blocks, winches and other pulling and hoisting appliances.
6550	Metal spraying equipments.
6552	Furnances, oil fired of various sizes.
6554	Water treatment plant.
6556	Spray painting equipments.
6557	Mahines, printing of all types and spares.
6558	Composing machines, binding machines, etc.
6559	Machinery for cloth cutting hand/power operated, etc.
6579	Other machineryand plant and spares not otherwise classified.

## 67 – Road Motors, Auto Trucks, Material Handling Equipments and Spares

6705	Complete trucks, lorries, cars or other road vehicles.
6707	Patrol and diesel powered engines and spares for cars, trucks and lorrie.
6712	Tyres and tubes.
6717	Lister, Jumbo auto trucks and their spares including engines.
6719	Battery operated auto trucks and spares.

6722	Fork lifts and spares.
6727	Bicycles and spares.
6732	Material handling equipment, different types and their spares.
6735	Carts, trolleys, wheel barrows, etc., hand operated.
6738	Lawn mowers.
6742	Jacks, hydraulic and screw.
6748	Conveyors belt, roller chain, etc.
6759	Automobile spares of all sorts.

### 70 – Abrasives

7005	Grinding wheels of various types, sizes and shapes.
7010	Coated abrasives on paper/cloth.
7015	Abrasive paste.
7020	Abrasive powder.

### 71 – Brushes, Brushware, Baskets and Bamboo Products

7105	Brushes, painters.
7107	Brushes, lettering
7110	Brushes, wire.
7115	Brushes, other types.
7120	Brooms.
7125	Cane, Cane baskets and other cane products.
7130	Baskets, bamboo handles, lathies, ladders and other articles.

### 72 – Tools, Accessories components and Instruments

7205	Hand tools viz., hammers, spanners, wrenches drifts, punches and chisels.
7211	Files of different sizes and varieties.
7215	Carpenters tools.
7218	Screw drivers, pliers of different types and sizes insulated or otherwise.
7221	Smithy, foundry and masonry tools.
7224	HSS tools-Drills, reamers, taps, die-chasers sockets and milling cutters of different varieties and sizes.
7227	Handsaw of all types/sizes.
7230	Blades and swas of types and sizes.
7233	Cemented carbide tipped tools.
7238	Pickaxes, powerahs, sovels. etc.
7243	Forges portable.
7245	Bellows smith.
7246	Diamond - tipped tools.
7248	Measures, weights and volume.
7250	Scales, weighing.
7252	Tapes, measuring metallic, steel.
7254	Handles wooden.
7257	Instruments survey.
7258	Measuring instruments (non-electrical).
7279	Special tools, not covered elsewhere in this book.

### 73 – Hardware Items, Fasteners

7305	Bolts, nuts, rivets, studs, screws all types and sizes (ferrous).
7306	Bolts, nuts, rivets, studs, screws all types and sizes (galvanised iron).
7309	Bolts, nuts, rivets, studs, screws all types and sizes (cadmium, chromium, nickel, etc., plated).
7311	Bolts, nuts, rivets, studs, screws all types and sizes (non-ferrous).
7313	Bolts, nuts, rivets, studs, screws all types and sizes (involving special raw materials/tolerances, etc., such as may be needed for Diesel/Electric locos).
7315	Scrws, wood, etc., of all types.
7318	Washers of all types and sizes, ferrous and non-ferrous.
7321	Washers, circlips, etc., of spring steel.
7325	Pins-panel, cotters, split cotters, split taper, solid taper.
7330	Wire nails of all types (ferrous and non-ferrous).
7335	Tacks plain and covered.
7379	Miscellaneous or special type fasteners not otherwise classified.

### 74 – Hardware (other than fasteners) Wire Ropes, Chains and Allied Fittings Oil Lamps, etc.

7405	Steel wire ropes, lifting hoisting general purposes and signalling.
7408	Chains of all types and sizes.
7411	Buckets, cans and drums, tin cases feeders oil, kettles, pans, pots (ferrous).
7414	Buckets, cans and drums, tin cases feeders oil, kettles, pans, pots (non-ferrous).
7417	Buckets, cans and drums, tin cases feeders oil, kettles, pans, pots (non-metallic).
7420	Fasteners, belt, lacking steel for belts alligator type, etc., and hose clips.
7424	Lamps oil and spares, lamps blow and spares, pressure lamps, stoves and spares.
7428	Wicks, for lamps, tapes for sealing, newar for cots, etc.
7432	Glass chimneys for lamps, globes for light fittings, etc.
7436	Builders' hardware (ferrous and non-ferrous) like tower bolts, latches, hinges, locks, etc.
7440	Expanded metal, wiremesh, weld mesh.

### 75 – Rubber, Leather, Canvas, Plastic, Flooring and Kindred Materials

7505	Rubber and rubber products-Foam rubber, rubber gloves, rubber sheets, rubber tubings.
7510	Leather and leather goods, apron, gauntlets, washers, leather buckets, leather bellows, cash bags, suit cases, brief cases, etc..
7515	Canvas and canvas goods, including tarpaulins, apron, gauntlets, raincoats, etc.
7520	Plastics, linoleum, rexine and other coated products.
7525	Coir, jute, manila and other vegetable fibres and their products.
7530	Synthetic fibres and their products including nylon ropes.
7535	Hoses of types and sizes including rubber, PVC armoured, etc.
7538	Hoses of various sizes, canvas and flax, braided woven, etc.
7541	Metallic flexible hoses.
7544	Belts, leather of types and sizes.
7546	Belts, canvas of sizes.
7548	Belts, rubber and rubber impregnated of types and sizes.
7550	Gaskets, rubber of synthetic material.
7552	Felt and felt products.
7554	Hessian and its products.
7556	Special rubber and plastic components including bonded sandwiched materials, weather strips, etc., exclusively required for diesel and electric locos.
7557	Flooring composition and crystals, etc., flooring tiles, sheets, etc.

## 76 – Electrodes, Cutting and Welding, Accessories and Electrical Oxyacetylene

7605	Electrodes and fluxes (are welding, ferrous and non-ferrous).
7610	Welding rods gas welding (ferrous, non-ferrous).
7615	Electrode holders of different types and makes.
7620	flame cutting machines and their spares.
7625	Welding plants, machines and their spares electrical (including welding transformers, oil and air cooled).
7630	Welding plant, machines and their spares, mechanical consisting of blow pipes, cutting nozzles, spanners, etc.
7635	Butt and arc welding plants and spares.
7640	Welders' protective equipments for eyes, face, head etc.
7645	electrodes, graphite for furnaces.

## 77 – Paints, Varnishes and Enamels including Painters' Oil

7704	Paints – Primer
7706	Paints of all varieties, ordinary type.
7708	Paints of all varieties enamel type.
7709	Bituminous Paints.
7710	Paints – Acid, alkali and heat resisting.
7712	Store enamelling paints.
7716	Spray paints (special qualities).
7719	Special paints not covered by standard specification.
7720	Paints luminous.
7725	Pigments of all varieties and colours.
7728	Paint removers.
7732	Special varnishes for insulating purposes.
7735	French polish and varnishes for general use.
7738	Thinners and lacquers for painting and polishing, turpentine, spirit methylated, etc.
7741	Putties, wood and metal, in wet and dry form, fillers, gums, resins.
7744	Distempers of all types.
7747	Linseed oil of all varieties.

## 78 – Crockery, Cutlery, Napery, Kitchen and Tableware Furniture and Other Equipments including Clocks, Watches, etc.

7805	Crockery, porcelain, stainless steel, brass glass enamelware, etc.
7808	Crockery, porcelain stainless steel, brass, glass, enamelware, disposable, paper, plastic, etc.
7812	Cutlery.
7820	Utensils, non-ferrous, stainless steel, etc.
7825	Canteen and kitchen equipments, cooking ranges, hearths, stoves, hand trolleys, etc.
7830	Furniture (wooden).
7831	Furniture steel, including hospital furniture.
7835	Clocks and watches of various types and sizes.
7843	Enamelled sign boards.
7846	Cash safes, security lockers, cash boxes.
7879	Miscellaneous items not covered elsewhere.

**79 – Cloth, Clothing and Personal Equipments and Cotton Products  
like Cord, Twine, Rolpes and Waste Cotton, etc.**

7903	Cloth cotton printed and plain (khadi).
7905	Cloth cotton other than khadi.
7907	Cloth woollen.
7909	Cloth Other types, including synthetic.
7910	Garments khadi.
7912	Garments cotton, other than khadi.
7913	Garments of all other materials including synthetic.
7914	Garments (woollen).
7917	Blankets (woollen).
7920	Hosiery cotton and woollen.
7921	Bed sheets, towels, table cloth, napkins, etc., of all types.
7922	Mosquito curtains.
7927	Mattresses and pillows (coir cotton, foam rubber).
7930	Garniture items, sewing threads, different quality and colours.
7932	Twines and cords.
7935	Buttons, other than metallic.
7937	Buttons, metallic.
7940	Waste Cotton.
7942	Yarn woollen.
7945	Capes with or without hood – water proofing.
7947	Rain coats rubberised and plastic.
7949	Umbrella – hand, garden and survey.
7950	Carpets of all materials.
7951	Footwear, gumboots, shoes, boots, leather aprons, etc.
7952	Polish, boot of all colours.
7954	Flags, banner and bunting.
7956	Badges metal, whistles, etc.
7957	Badges cloth and embroidery.
7958	Water bottles, metallic, plastic, etc.
7959	Solar hat, felt hat and woollen caps, helmet, kullahs.

**80 – Petroleum and Petroleum Products.**

8005	Lubricating oils, greases.
8010	Oil, transformer.
8015	Oil cutting, quenching.
8020	Fuel oil, furnace oil, L.P.G.
8025	Asphalt tar, bitumen products.
8030	Preservatives wood, creosote, etc.
8035	Rust preventives and rust removers.

**81 – Acids, Chemicals and chemical Products (Including Soaps,  
Disinfectants, Insecticides Explosives) and Vegetable Oil.**

8105	Acids (Boric, Hydrochloric, Sulphuric, etc.)
8108	Chemicals general.
8111	Gases (Acetylene, argon, carbon-dioxide, liquid chlorine, oxygen, nitrogen, freon and other refrigerants).
8114	Soaps and detergents, cleaning compounds.
8117	Tallow, waxes, resin, etc.

8120	disinfectants, deodorants and insecticides,
8123	Explosive items, fog signals.
8126	Vegetable oil.
8128	Oils edible,
8131	chemicals for electroplating and case hardening.
8132	Chemicals for water softening.
8133	Chemicals for foundry use (other than foundry sand).
8134	Calcium carbide.
8137	Naphthalene.
8140	Metal polish in liquid, paste and powder form.
8143	Graphite and plumbago.
8146	Foundry sand.
8140	Limestone, chalk.

### **82 – Drugs, Pharmaceuticals, Hospital Instruments and Appliances.**

8205	Drugs and Pharmaceuticals
8210	Bandaging cloth, cotton absorbent, etc.
8215	First-aid kit boxes.
8220	Medical equipments for ambulance.
8225	Surgical instruments and equipments.
8230	Hospitalwares and equipments.
8235	X-ray plants and other special hospital machinery.
8279	Sophisticated instruments and equipments required for hospital use not otherwise classified.

### **83 – Stationary and Photographic Goods and Equipments and Laboratory Equipments not covered elsewhere.**

8305	Paper and cloth for tracings and drawings.
8308	Paper, ordinary writing, typing, carbon and other varieties.
8309	Paper printing flat.
8310	Paper printing in reels.
8311	Continuous stationary for EDP, Telex/Teleprinter and punch cards, tc. for computer.
8313	Toilet paper.
8315	Packing items of paper cartons, boxes, kraft paper, etc.
8318	Paper board (paste) paper board (straw), blank fullscap, etc.
8319	Ticket boards, blank card tickets.
8325	Mathematical and drawing office equipments and materials, instruments box, drawing board, T-square set square, etc.
8328	Binding materials gum, dextrine powder, gur, gum, etc.
8331	Miscellaneous stationery items like eraser rubber cellotape, signature pad, sealing was, paper weight, pins packets, pins safety, paper clips, jem' blotting paper, nipper, ticket, ink voilet, files, folders, eyelets and writing materials, ink pen, pencils, ball pens, refills.
8334	Rubber blocks and stamps.
8337	Duplicating and typewriting machines, spares, etc.
8338	Paper ammonia, ferro prussiate, etc.
8340	Printing ink of all colours.
8343	Photographic goods and equipments, photographic films, X-ray, photographic papers, chemicals.
8347	Laboratory and scientific equipment, glass receptacles, instruments measuring/weighing, etc.
8350	Types for composing.

#### 84 – Refractories, Glass, Glass Substitutes, Asbestos Fibre and Packing Materials

8405	Fire bricks – moderate heat duty.
8406	Fire-bricks-hgh heat duty.
8410	Tiles refractory for electric furnace.
8413	Fire-clay and mortars.
8417	Circibles and accessories.
8421	Mirrors of all sizes and types.
8424	Glass sheets toughened and laminated.
8425	Glass items (other than those covered elsewhere).
8429	cork sheets.
8432	Fibreglass products.
8436	Tapes adhesive.
8440	Adhesives-Araldite, rubber jointing solution, fevicol.
8445	Jointing and packing materials.

#### 85 – Ball and Roller Bearing

8505	Ball bearings of all types.
8510	Thrust ball bearing, single and double row.
8515	Roller bearings of all types spherical self aligning cylindrical taper, etc. including those needed for rolling stock.
8520	Needle bearings.
8525	Bearing housing, balls and rollers steel for bearings.
8579	Special bearings not otherwise classified.

#### 86 – Fire – Fighting Equipments

8605	Portable fire extinguishers of all types.
8610	Refills for fire extinguishers.
8615	Fire-fighting equipments complete equipped with petrol engine, pumps, hoses and nozzles.
8616	Spares for the above.
8620	Fire hoses and couplings.
8625	Fire-fighting buckets (sand and water).
8630	Hydrants, fire.
8635	Sirens.

#### 90 – Raw Materials (Ferrous)

9005	Pig iron of all grades.
9007	Ferrous scrap for melting.
9009	M.S. channels, I. Beams, Angles, Tecs.
9011	M.S. Sections (Flats, round bars, torsteel, squares, boxegonal, etc.)
9013	M.s. plates and sheets.
9015	Tin plate, strips, hoos and sheets.
9017	Spring steel wires.
9019	Spring steel rounds, volute sections and flats.
9021	Tools steel (die block flats, steel H.S..S., etc.).
9023	Stainless steel sheets and sections.
9025	Ferro allows.
9027	Blooms, slaps, billets.
9029	Special steel sections.
9031	Steel plates and sheets other than mild steel.

9033	M.S. wires of all gauges.
9035	High tensile wires and rods.
9040	Steel shots, grits and balls.

### 91 – Non-Ferrous-Metals

9105	Non-ferrous virgin ingots for melting.
9107	Non-ferrous alloy ingots for melting.
9111	Non-ferrous scrap for melting.
9113	Non-ferrous sections.
9117	Non-ferrous bars, flats, squares, rounds, hexagonal, tubes, pipes, etc.
9119	Extrusions aluminium.
9122	Non-ferrous sheets, plates and wires.
9125	Non-ferrous suitable for springs (phosphur, copper, etc.)
9128	Lead seals.
9131	Lead wool.
9135	Precious metals, like silver, nickel, etc.
9179	Special non-ferrous items not listed elsewhere.

### 92 – Fuel other than Petroleum Products

9205	Coal and coke.
9215	Charcoal.

### 93 - Timber

9305	Logs teakwood.
9307	Logs hardwood.
9315	Sawn timber including scantlings of all types.
9320	Softwood.
9325	Plywoods and veneer, etc. of all types.
9330	Bamboos, ballies, etc.
9379	Miscellaneous not covered elsewhere.

### 98 – Scrap Merchants

9805	Ferrous scrap merchants, general.
9807	Non-ferrous scrap merchants.
9810	Re-rollable ferrous scrap merchants.
9813	Industrial scrap merchants.
9816	Machinery scrap merchants.
9819	Turning and borings scrap merchants.
9822	Timber scrap merchants (including shavings, saw dust).
9824	Drums.Barrels merchants.
9825	Waste paper merchants.
9831	Miscellaneous scrap merchants.
9840	Auctioneering contractors.