SCHEDULE I

[See rule 3 (1) (17) (i)]

List of processes generating hazardous wastes

(1)	(2)	(3)
		1.6 Spent catalyst and molecular sieves
		1.7 Oil from wastewater treatment
2.	•	2.1 Drill cuttings excluding those from water based
	production	mud
		2.2 Sludge containing oil
	Ola anima	2.3 Drilling mud containing oil
3.	Cleaning, emptying and maintenance of petroleum oil	3.1 cargo residue, washing water and sludge
	storage tanks including ships	containing oil 3.2 cargo residue and sludge
	ctorago tarmo moraamig ompo	containing chemicals
		3.3 Sludge and filters contaminated with oil
		3.4 Ballast water containing oil from ships
4.	Petroleum refining or re-	4.1 Oil sludge or emulsion
	processing of used oil or recycling	_
	of waste oil	4.3 Slop oil
		4.4 Organic residue from processes
		4.5 Spent clay containing oil
5.		5.1 Used or spent oil
	or synthetic oil as lubricant in	5.2 Wastes or residues containing oil
	hydraulic systems or other applications	5.3 Waste cutting oils
6.	Secondary production and / or	6.1 Sludge and filter press cake arising out of
	industrial use of zinc	production of Zinc Sulphate and other Zinc
		Compounds.
		6.2 Zinc fines or dust or ash or skimmings in
		dispersible form 6.3 Other residues from processing of zinc ash or
		skimmings
		6.4 Flue gas dust and other particulates
7.	Primary production of zinc or lead	7.1 Flue gas dust from roasting
	or copper and other non-ferrous	7.2 Process residues
	metals except aluminium	7.3 Arsenic-bearing sludge
		7.4 Non-ferrous metal bearing
		sludge and residue.
8.	Secondary production of copper	7.5 Sludge from scrubbers 8.1 Spent electrolytic solutions
0.	occoridary production or copper	8.2 Sludge and filter cakes
		8.3 Flue gas dust and other particulates
9.	Secondary production of lead	9.1 Lead bearing residues
		9.2 Lead ash or particulate from flue gas
		9.3 Acid from used batteries

10.	Production and/or industrial use of cadmium and arsenic and their compounds	10.1 Residues containing cadmium and arsenic
11.	Production of primary and secondary aluminum	11.1 Sludges from off-gas treatment 11.2 Cathode residues including pot lining wastes 11.3 Tar containing wastes 11.4 Flue gas dust and other particulates 11.5 Drosses and waste from treatment of salt sludge 11.6 Used anode butts 11.7 Vanadium sludge from alumina refineries
12.	Metal surface treatment, such as etching, staining, polishing, galvanizing, cleaning, degreasing, plating, etc.	 12.1 Acidic and alkaline residues 12.2 Spent acid and alkali 12.3 Spent bath and sludge containing sulphide, cyanide and toxic metals 12.4 Sludge from bath containing organic solvents 12.5 Phosphate sludge 12.6 Sludge from staining bath 12.7 Copper etching residues 12.8 Plating metal sludge
13.		13.1 Spent pickling liquor 13.2 Sludge from acid recovery unit 13.3 Benzol acid sludge 13.4 Decanter tank tar sludge 13.5 Tar storage tank residue 13.6 Residues from coke oven by product plant.
14.	Hardening of steel	14.1 Cyanide-, nitrate-, or nitrite -containing sludge 14.2 Spent hardening salt
15.	Production of asbestos or asbestos-containing materials	15.1 Asbestos-containing residues15.2 Discarded asbestos15.3 Dust or particulates from exhaust gas treatment.
16.	Production of caustic soda and chlorine	16.1 Mercury bearing sludge generated from mercury cell process16.2 Residue or sludges and filter cakes16.3 Brine sludge
17.	Production of mineral acids	17.1 Process acidic residue, filter cake, dust 17.2 Spent catalyst
18.	complex fertilizers	18.1 Spent catalyst 18.2 Carbon residue 18.3 Sludge or residue containing arsenic 18.4 Chromium sludge from water cooling tower
19.	Production of phenol	19.1 Residue or sludge containing phenol 19.2 Spent catalyst

	5 1 11 11 11 11 1	
20.	Production and/or industrial use of	· · · · · · · · · · · · · · · · · · ·
	solvents	or napthenic solvents may or may not be
		fit for reuse.
		20.2 Spent solvents
		20.3 Distillation residues
		20.4 Process Sludge
21.	Production and/or industrial use of	21.1 Process wastes, residues and sludges
	paints, pigments, lacquers,	21.2 Spent solvent
	varnishes and inks	·
22.	Production of plastics	22.1 Spent catalysts
	•	22.2 Process residues
23.	Production and /or industrial use of	23.1 Wastes or residues (not made with
	glues, organic cements,	vegetable or animal materials)
		23.2 Spent solvents
24.		24.1 Chemical residues
25.		25.1 Chemical residues
25.	•	
- 00	•	25.2 Residues from wood alkali bath
26.		26.1 Process waste sludge/residues containing
	synthetic dyes, dye-intermediates	acid, toxic metals, organic compounds
	and pigments	26.2 Dust from air filtration system
		26.3 Spent acid
		26.4 Spent solvent
		26.5 Spent catalyst
27.	Production of organic-	27.1 Process residues
	silicone compound	
28.	Production/formulation of	28.1 Process Residue and wastes
	drugs/pharmaceutical and health	28.2 Spent catalyst
	care product	28.3 Spent carbon
		28.4 Off specification products
		28.5 Date-expired products
		28.6 Spent solvents
29.	Production, and formulation of	29.1 Process wastes or residues
	pesticides including stock-piles	29.2 Sludge containing residual pesticides
	posticiaes including stock pilos	29.3 Date-expired and off-specification
		pesticides
		29.4 Spent solvents
		<u> </u>
		29.5 Spent catalysts
00	L cathon to promise	29.6 Spent acids
30.	Leather tanneries	30.1 Chromium bearing residue and sludge
31.	Electronic Industry	31.1 Process residue and wastes
		31.2 Spent etching chemicals and solvents
32.	Pulp and Paper Industry	32.1 Spent chemicals
		32.2 Corrosive wastes arising from use of strong
		acid and bases
		32.3 Process sludge containing adsorbable
		organic halides(AO _X)

33.	Handling of hazardous chemicals and wastes	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals /wastes 33.2 Contaminated cotton rags or other cleaning materials
34.	De-contamination of barrels / containers used for handling of hazardous wastes/chemicals	34.1 Chemical-containing residue arising from decontamination.34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers
35.		 35.1 Exhaust Air or Gas cleaning residue 35.2 Spent ion exchange resin containing toxic metals 35.3 Chemical sludge from waste water treatment 35.4 Oil and grease skimming 35.5 Chromium sludge from cooling water
36.	Purification process for organic compounds/solvents	36.1 Any process or distillation residue 36.2 Spent carbon or filter medium
37.		37.1 Sludge from wet scrubbers37.2 Ash from incinerator and flue gas cleaning residue37.3 Concentration or evaporation residues
38.	Chemical processing of Ores containing heavy metals such as Chromium, Manganese, Nickel, Cadmium etc.	

^{*} The inclusion of wastes contained in this Schedule does not preclude the use of Schedule II to demonstrate that the waste is not hazardous. In case of dispute, the matter would be referred to the Technical Review Committee constituted by Ministry of Environment, Forest and Climate Change.

Note: The high volume low effect wastes such as fly ash, Phosphogypsum, red mud, jarosite, Slags from pyrometallurgical operations, mine tailings and ore beneficiation rejects are excluded from the category of hazardous wastes. Separate guidelines on the management of these wastes shall be issued by Central Pollution Control Board.