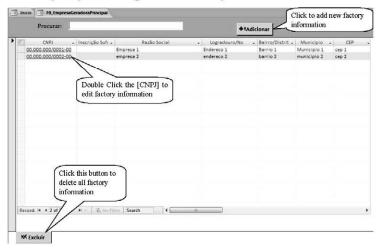
4.3.2 General Information of the factory

4.3.2.1 Register new factory information

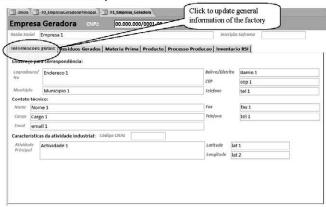
With this system you can manage the waste inventory of various factories.

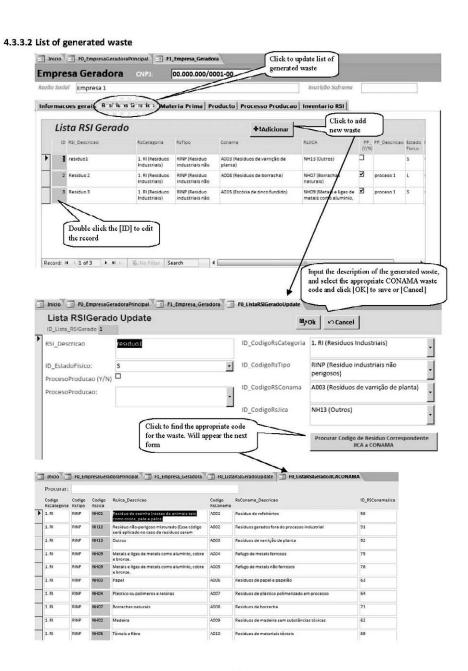


4.3.3 General information

Firstly it will be input all the general informations of the factory, and then make codification of the lists of generated waste, raw material, products and production processes, that will be used then in the system.

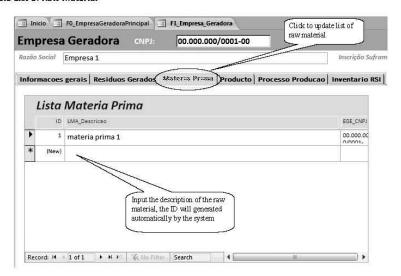
4.3.3.1 General information of the factory



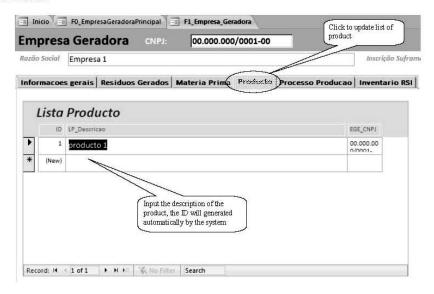


* * * * 17

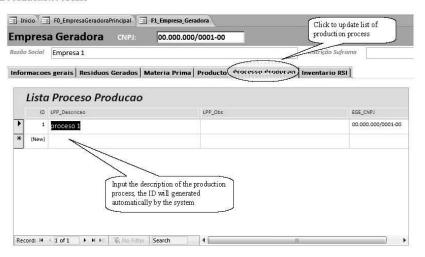
4.3.3.3 List of Raw material



4.3.3.1 Product

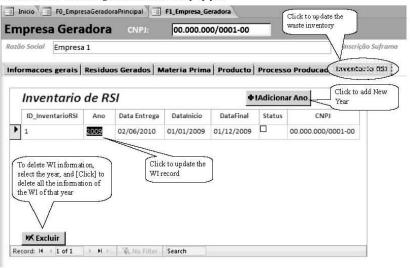


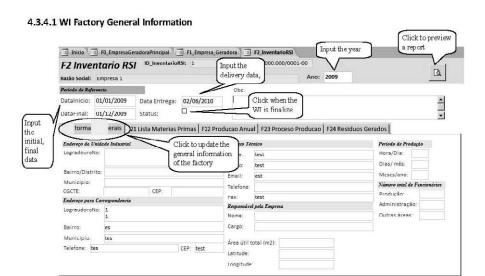
4.3.3.2 Production Process



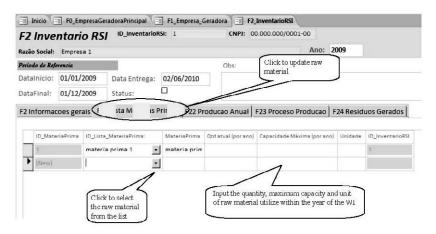
4.3.4 Waste Inventory

With this form will manage the waste inventory by year

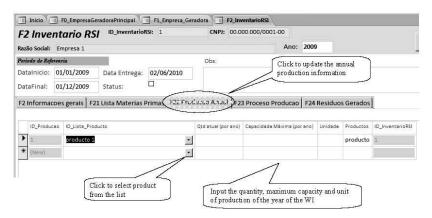




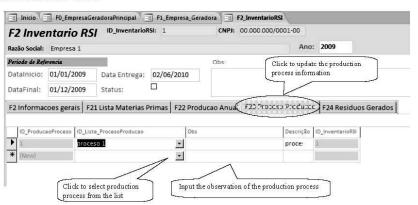
4.3.4.2 WI Raw Material



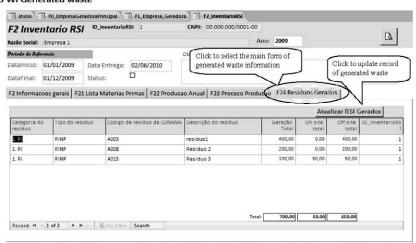
4.3.4.3 Annual Production



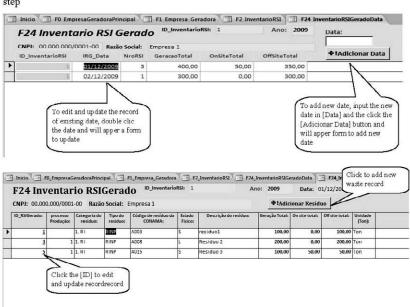
4.3.4.4 WI Production Process

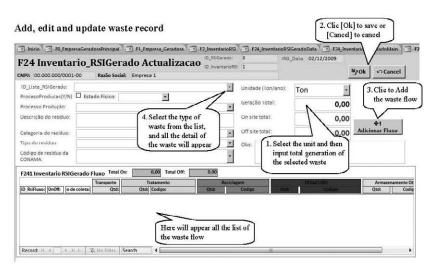


4.3.4.5 WI Generated waste



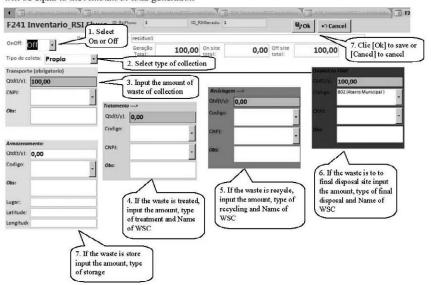
The information of the generated waste will be input by date, to update the record follow the next step



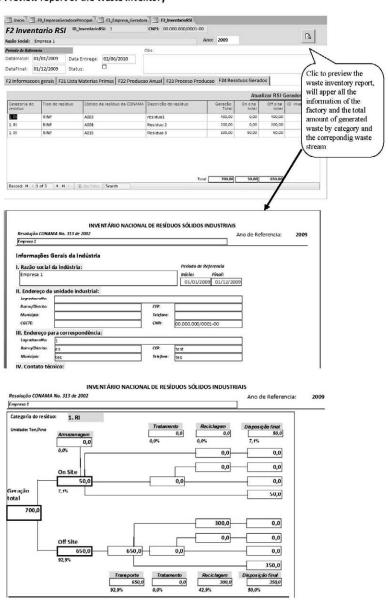


Add, edit and update waste stream record

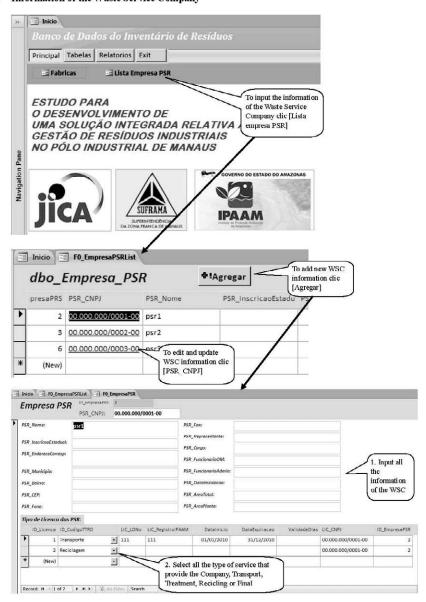
In this form it will be entered all possible waste streams, the total amount of the all waste stream it will be equal to the Amount of total generation



4.3.4.6 Preview report of the Waste Inventory



4.3.5 Information of the Waste Service Company



4.4 Tables

4.4.1 JICA waste category table

ategory	Type	JICA code	Description
RI	RINP	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)
		NH02	Wood
		NH03	Paper
		NH04	Plastic or polymers and resins
		NH05	Textile and fiber
		NH06	Animal oil, Vegetable oil
	Non-	NH07	Rubbers and Leather
	Hazardous	NH08	Ash/dust from coal-fired power plants, etc.
	industrial	NH09	Metals and metal alloys such as aluminum, copper, bronze
	waste	NH10	Ceramic & Glasses
			Stone, sand or material that have composition of soil such as tile, brick,
		NH11	gypsum, cement
			Mixed waste (This code shall be applied in case wastes are discharged
		NH12	without separation.)
		NH13	Others
Industrial	RIP	HW01	Inorganic acid
Waste		HW02	Organic acid
		HW03	Alkalis
		HW04	Toxic Compounds
		HW05	Inorganic Compounds
		HW06	Other Inorganic
		HW07	Organic Compounds
	Hazardous	HW08	Polymeric Materials
	industrial	HW09	Fuel, Oil and Grease
	waste	HW10	Fine Chemicals and Biocides
		HW11	Treatment Sludge
		HW12	Ash from incinerator
		HW13	Dust and Air pollution control (APC) products
		HW14	Other Hazardous substance (besides HW01-HW13)
		HW15	Mixed Waste
		HW16	Hazardous materials from Non-production process
RI Total			
RM	Grupo A	RMA1	Group A.1 Biologic
		RMA2	Group A.2 Animals
		RMA3	Group A.3 Body part
		RMA4	Group A.4 Patient care etc
Medical		RMA5	Group A.5 Prions
waste	Grupo_B	RMB1	Chemical etc
A 683830	Grupo C	RMC1	Radioactive waste
	Grupo D	RMD1	Common waste
	Grupo E	RME1	Piercing or Cutting
RM Total			
. RC	Classe A	RCA1	from construction, demolition, refitting and repair of pavement
			from the construction, demolition refitting and repair of edifications:
		RCA2	ceramic components
			from manufacturing and/or demolition process of concrete pre-modulated
		RCA3	pieces
Consttuctio	Classe B	RCB1	The recyclable waste for other purposes
n waste			Waste which has no economically feasible technology or applications
	Classe C	RCC1	which may allow it to be recycled
			Hazardous waste arisen from construction process, such as paints, solvents,
	Classe D	RCD1	oils and so forth

4.4.2 CONAMA's waste category table

Category	Туре	CONAMA code	Description
. RI	RINP	A001	Residues of restaurant
		A002	Generated residues outside of the industrial process
		A003	Residues of varrição of plant
		A004	Ferrous metal scrap iron
		A005	Not ferrous metal scrap iron
		A006	Residues of paper and cardboard
		A007	Polymerized plastic residues of process
		A008	Rubber residues
		A009	Residues wooden I contend not toxic substances
		A010	Residues of têxteis materials
		A011	Not metallic mineral residues
		A012	Slag of aluminum casting
		A013	Slag of iron production and steel
		A014	Slag of brass casting
		A015	Slag of zinc casting
		A016	Sand of casting
		A017	Refractory ceramic residues and material
		A018	Solid residues not toxic metal composites
		A019	Solid residues of stations of treatment of effluent I contend material biological not toxic
		A021	Solid residues of stations of treatment of effluent I contend not toxic substances
		A022	Pastosos residues of stations of treatment of effluent I contend not toxic substances
		A023	Pastosos residues I contend limy
		A024	Bagasse of sugar cane
	Residuos Industriais não perigosos	A025	Fibre glass
		A026	Slag of jateamento I contend not toxic substances
		A027	Used catalysers I contend not toxic substances
		A028	Residues of system of control of not toxic gaseous emission I contend substance
Residuos		A029	Other not dangerous residues
industriais		A099	Salty shavings
		A104	Metallic packings
		A105	Not ferrous metal packings
		A107	Bombonas of plastic not contaminated
		A108	Etil acetate residues vinila
		A111	Leached ashes of boiler
		A117	Glass residues
		A199	Foam
		A204	Tambores metallic
		A207	Plastic films and small packings
		A208	Polyurethane residues (PU)
		A299	Caleadas shavings of skins
		A308	Silt of the caleiro
		A399	Atanado leather shavings, remnants
		A499	Carnaça
		A599	Residues organic of process
		A699	Rind of rice
		A799	Atanado leather Serragem, bran and dust
		A899	Generated residues outside of the industrial process (office, packings, etc.)
		A999	Residues of fruits
	RIP	C001 C009	Listing 10 - dangerous residues for containing volatile components
	KII	D001	Dangerous residues for presenting inflammability
		D001 D002	
	Residuos Industriais	D002 D003	Dangerous residues for presenting corrosively
	perigosos		Dangerous residues for presenting reactivity
		D004	Dangerous residues for presenting pathogenicity

Category	Туре	CONAMA code	Description	N
1		D099	Other dangerous residues - to specify	_
			Listing 1 of Norm NBR 10004- admittedly dangerous residues - Classroom 1, of	
		F001_F0301	not-specific sources	
			Bifenilas Policloradas - PCB's. Packings contaminated with PCBs also transforming	
		F100	and capacitors	
		F102	Residue of catalysers not specified in Norm NBR 10.004 Deriving residue of industrial laboratories (chemical products) not specified in Norm	
		F103	NBR 10.004	
		F104	Not specified contaminated empty packings in Norm NBR 10.004	
		F105	Solvent contaminated (to specify solvent and the main contaminante)	
		F130	Used lubricant oil	
		F230	Hydraulic fluid	
		F330	Cutting and hauling oil	
		F430	Used contaminated oil in isolation or cooling	
		F530	Oil wastes from the water-oil separating system	
			Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources	
		K053	Remaining portions and you splodge of inks and pigments	
		K078	Residue of cleanness with solvent in the manufacture of inks	
		K081	Silt of ETE of the production of inks	
		K193	Shavings of leather tanned to chromium	
		K194	Leather Serragem and dust I contend chromium	
		K195	Silt of stations of treatment of effluent of tanning to chromium	
		K203	Residues of laboratories of research of illnesses	
		K207	It splodges of the used oil re-refining (it splodges acid)	
		R207	Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances	
		P001_P123		
		U001 U246	Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	
1. RI Total				
2. RM	Grupo_A	RMA1	Group A.1 Biologic	_
		RMA2	Group A.2 Animals	
		RMA3	Group A.3 Body part	
		RMA4	Group A.4 Patient care etc	
Residuos		RMA5	Group A.5 Prions	
médicos	Grupo_B	RMB1	Chemical etc	
	Grupo_C	RMC1	Radioactive waste	
	Grupo_D	RMD1	Common waste	
	Grupo_E	RME1	Piercing or Cutting	
2. RM Total				
3. RC	Classe_A	RCA1	from construction, demolition, refitting and repair of pavement	
			from the construction, demolition refitting and repair of edifications: ceramic	
		RCA2	components	
n / 1		RCA3	from manufacturing and/or demolition process of concrete pre-modulated pieces	
Residuo de construção	Classe_B	RCB1	The recyclable waste for other purposes	
construção	Classa C	P.CC1	Waste which has no economically feasible technology or applications which may allow	
	Classe_C	RCC1	it to be recycled Hazardous waste arisen from construction process, such as paints, solvents, oils and so	
	Classe D	RCD1	frazardous waste arisen from construction process, such as paints, solvents, ons and so forth	
3. RC Total				
				_

4.4.3 CONAMA's storage category

Code for atual generated waste	Code for waste geneted in the past	Description			
S01	Z01	Barrel in waterproofing floor, protected area			
S11	Z11	Barrel in waterproofing floor, unprotected area			
S21	Z21	Barrel on the ground, protected area			
S31	Z31	Barrel on the ground, unprotected area			
S02	Z02	In bulk on waterproofing floor, protected area			
S12	Z12	In bulk on waterproofing floor, unprotected area			
S22	Z22	In bulk on the ground, protected area			
S32	Z32	In bulk on the ground, unprotected area			
S03	Z03	Covered dumper truck			
S13	Z13	Un covered dumper truck			
S04	Z04	Tank with contention tray			
S14	Z14	Tank without contention tray			
S05	Z05	Bottle on waterproofing floor, protected area			
S15	Z15	Bottle on waterproofing floor, unprotected area			
S25	Z25	Bottle on the ground, protected area			
S35	Z35	Bottle on the ground, unprotected area			
S09	Z.09	Lagoon with waterproofing			
S19	Z19	Lagoon without waterproofing			
S08	Z08	Other systems (specify)			

4.4.4 CONAMA's treatment category

Treatment code	Description		
T01	Incinerator		
T02	Incinerator with chamber		
T05	Outdoor burning		
T06	Detonation		
T07	Oxidation of cyanides		
T08	Chemical encapsulation/fixture or solidification		
T09	Chemical oxidation		
T10	Precipitation		
T11	Detoxification		
T12	Neutralization		
T13	Adsorption		
T15	Biologic treatment		
T16	Composting		
T17	Drying		
T18	Land farming		
T19	Thermal plasma		
T34	Other treatments (specify)		

4.4.5 CONAMA's recycling category

Recycling code	Description			
R01	Use in industrial oven (except in heating ovens)			
R02	Use in boiler			
R03	Co-processing in cement ovens			
R04	Blending of wastes			
R05	Formulation of micronutrients			
R06	Incorporation in agricultural soil			
R07	Fertilization and irrigation			
R08	Animal reaction			
R09	Reprocessing of solvents			
R10	Re-refining of oil			
R11	Reprocessing of oil			
R12	Scrap iron collector			
R13 On-site reuse/recycling/recovery				
R99	Other forms of reuse/recycling/recovery			

4.4.6 CONAMA's final disposal category

Final disposal code	Description		
801	Infiltration in the soil		
102	Municipal Landfill		
B03	Own Industrial Landfill		
B04	Third-parties Industrial Landfill		
B05	Municipal Dumping Site		
B06	Private Dumping Site		
B20	Sewer		
B30	Other (specify)		

4.4.7 Corresponding Waste category table JICA to CONAMA

ateg	Type		JICA code	CONAMA code			
ory		Code	Decription	Code	Decription		
RI	RINP	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)	A001	Residues of restaurant		
				A024	Bagasse of sugar cane		
				A499	Camaça		
				A599	Residues organic of process		
				A699	Rind of rice		
				A999	Residues of fruits		
		NH02	Wood	A009	Residues wooden I contend not toxic substances		
		NH03	Paper	A006	Residues of paper and cardboard		
		NH04	Plastic or polymers and resins	A007	Polymerized plastic residues of process		
				A107	Bombonas of plastic not contaminated		
				A108	Etil acetate residues vinila		
				A207	Plastic films and small packings		
				A208	Polyurethane residues (PU)		
		NH05	Textile and fiber	A010	Residues of têxteis materials		
		NH06	Animal oil, Vegetable oil	Z999	?		
		NH07	Rubbers and Leather	A008	Rubber residues		
				A299	Calcadas shavings of skins		
				A399	Atanado leather shavings, remnants		
		NH08	Ash/dust from coal-fired power plants, etc.	A111	Leached ashes of boiler		
		NH09	Metals and metal alloys such as aluminum, copper, bronze	A004	Ferrous metal scrap iron		
				A005	Not ferrous metal scrap iron		
				A011	Not metallic mineral residues		
				A012	Slag of aluminum casting		
				A013	Slag of iron production and steel		
				A014	Slag of brass casting		
				A015	Slag of zinc casting		
				A016	Sand of casting		
				A104	Metallic packings		
				A105	Not ferrous metal packings		
				A204	Tambores metallic		
		NH10	Ceramic & Glasses	A017	Refractory ceramic residues and material		
				A025	Fibre glass		
				A117	Glass residues		
				A799	Atanado leather Serragem, bran and dust		
		NH11	Stone, sand or material that have composition of soil such as tile, brick, gypsum, cement	Z999	?		
		NH12	Mixed waste (This code shall be applied in case wastes are discharged without separation.)	A002	Generated residues outside of the industrial proces		
		NH13	Others	A003	Residues of varrição of plant		
				A018	Solid residues not toxic metal composites		
				A019	Solid residues of stations of treatment of effluent I contend material biological not toxic		
				A021	Solid residues of stations of treatment of effluent I contend not toxic substances		
				A022	Pastosos residues of stations of treatment of efflue		
					I contend not toxic substances		

Туре		JICA code		CONAMA code
	Code	Decription	Code	Decription
17		MS	A023	Pastosos residues I contend limy
			A026	Slag of jateamento I contend not toxic substances
			A027	Used catalysers I contend not toxic substances
			A028	Residues of system of control of not toxic gaseous
				emission I contend substance
			A029	Other not dangerous residues
			A099	Salty shavings
			A199	Foam
			A308	Silt of the caleiro
			A899	Generated residues outside of the industrial process
			11077	(office, packings, etc.)
RIP	HW01	Inorganic acid	D002	Dangerous residues for presenting corrosively
101		morganic acro	D003	Dangerous residues for presenting reactivity
			K207	It splodges of the used oil re-refining (it splodges
			K207	acid)
	TTWO	Consolination	D002	
	HW02	Organic acid	D002	Dangerous residues for presenting corrosively
	1	1940	D003	Dangerous residues for presenting reactivity
	HW03	Alkalis	D002	Dangerous residues for presenting corrosively
			D003	Dangerous residues for presenting reactivity
	HW04	Toxic Compounds	F001_F0301	Listing 1 of Norm NBR 10004- admittedly
				dangerous residues - Classroom 1, of not-specific
				sources
			F103	Deriving residue of industrial laboratories (chemic
				products) not specified in Norm NBR 10.004
			F130	Used lubricant oil
			F230	Hydraulic fluid
			F330	Cutting and hauling oil
			F430	Used contaminated oil in isolation or cooling
			F530	Oil wastes from the water-oil separating system
			K001 K209	Listing 2 of Norm NBR 10004- admittedly
			11001_11207	dangerous residues of specific sources
			K193	Shavings of leather tanned to chromium
			K194	Leather Serragem and dust I contend chromium
			K195	Silt of stations of treatment of effluent of tanning t
			KIZ	chromium
	HW05	Inorganic Compounds	D005 D029	Listing 7 of Norm NBR 10004: dangerous residues
	111103	morganic Compounds	1003_1029	
	TTITIO	Cut. T	Door Door	characterized by the leaching test
	HW06	Other Inorganic	D005_D029	Listing 7 of Norm NBR 10004: dangerous residues
				characterized by the leaching test
	HW07	Organic Compounds	D003	Dangerous residues for presenting reactivity
			F001_F0301	Listing 1 of Norm NBR 10004- admittedly
				dangerous residues - Classroom 1, of not-specific
				sources
			F100	Bifenilas Policloradas - PCB's, Packings
				contaminated with PCBs also transforming and
				capacitors
			F105	Solvent contaminated (to specify solvent and the
			****	main contaminante)
			F130	Used lubricant oil
			F230	
				Hydraulic fluid
			F330	Cutting and hauling oil
			F430	Used contaminated oil in isolation or cooling
			F530	Oil wastes from the water-oil separating system
			K001_K209	Listing 2 of Norm NBR 10004- admittedly
				dangerous residues of specific sources
			K053	Remaining portions and you splodge of inks and
				pigments
			K078	Residue of cleanness with solvent in the manufactu
				of inks
			K081	Silt of ETE of the production of inks
			P001 P123	Listing 5 of Norm NBR 10004 - dangerous residue
			. 301_1125	for containing toxic substances acutely
	HW08	Polymeric Metericle	D001	
		Polymeric Materials	19001	Dangerous residues for presenting inflammability
		First Oil and Con	Door	Donocomo posido os for a
	HW09	Fuel, Oil and Grease	D001	Dangerous residues for presenting inflammability
		Fuel, Oil and Grease	D001 K207	Dangerous residues for presenting inflammability It splodges of the used oil re-refining (it splodges acid)

Categ	Type		JICA code	CONAMA code		
ory		Code	Decription	Code	Decription	
	•	HW10	Fine Chemicals and Biocides	D001	Dangerous residues for presenting inflammability	
				D004	Dangerous residues for presenting pathogenicity	
				D005 D029	Listing 7 of Norm NBR 10004: dangerous residues	
				D000_D023	characterized by the leaching test	
				F103	Deriving residue of industrial laboratories (chemical	
				1100	products) not specified in Norm NBR 10.004	
				K203	Residues of laboratories of research of illnesses	
		HW11	Treatment Sludge	D005 D029	Listing 7 of Norm NBR 10004: dangerous residues	
		HWH	Treatment Studge	D003_D029	characterized by the leaching test	
				12001		
		TTWITE	Ant Commission and an	K081 Z999	Silt of ETE of the production of inks	
		HW12	Ash from incinerator		?	
		HW13	Dust and Air pollution control (APC)	Z999	?	
			products			
		HW14	Other Hazardous substance (besides HW01-HW13)	C001_C009	Listing 10 - dangerous residues for containing volatile components	
				D001	Dangerous residues for presenting inflammability	
				D004	Dangerous residues for presenting pathogenicity	
				D099	Other dangerous residues - to specify	
				F102	Residue of catalysers not specified in Norm NBR 10.004	
				F104	Not specified contaminated empty packings in Norm NBR 10.004	
				U001_U246	Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	
		HW15	Mixed Waste	Z999	?	
		HW16	Hazardous materials from Non-production	Z999	?	
		1110	process	D,,,,	3	
2. RC	Classe	RCA1	from construction, demolition, refitting and	RCA1	from construction, demolition, refitting and repair of	
	A.	110.11	repair of pavement		pavement	
		RCA2	from the construction, demolition refitting	RCA2	from the construction, demolition refitting and repair	
		ICCAL	and repair of edifications: ceramic	icens.	of edifications: ceramic components	
			components		of confeations, ceramic components	
		RCA3	from manufacturing and/or demolition	RCA3	from manufacturing and/or demolition process of	
		ICCAS	process of concrete pre-modulated pieces	ICCAS	concrete pre-modulated pieces	
	Classe	DCD1	The recyclable waste for other purposes	RCB1	The recyclable waste for other purposes	
	B	RCBI	The recyclable waste for other purposes	RCBI	The recyclable waste for ourer purposes	
	Classe	RCC1	Waste which has no economically feasible	RCC1	Waste which has no economically feasible	
	C		technology or applications which may allow	11001	technology or applications which may allow it to be	
	7		it to be recycled		recycled	
	Classe	RCD1	Hazardous waste arisen from construction	RCD1	Hazardous waste arisen from construction process,	
	D	*****	process, such as paints, solvents, oils and so	11001	such as paints, solvents, oils and so forth	
			forth		saturas pantes, serventes, ens and se reru	
3. RM	Grupo	RMA1	Group A.1 Biologic	RMA1	Group A.1 Biologic	
D. 144.1	A A		Group III Diologic		Group III Diviogic	
		RMA2	Group A.2 Animals	RMA2	Group A.2 Animals	
		RMA3	Group A.3 Body part	RMA3	Group A.3 Body part	
		RMA4		RMA4	Group A.4 Patient care etc	
		RMA5		RMA5	Group A.5 Prions	
	Cruno	RMB1	Chemical etc	RMB1	Chemical etc	
	B	KWIDI	Chanical de	KWIDI	Circinical de	
		RMC1	Radioactive waste	RMC1	Radioactive waste	
		RWCI	Radioactive waste	RWICI	Radioactive waste	
	Commo	DMD:	Common words	DMD1	Common words	
		RMD1	Common waste	RMD1	Common waste	
	D	DME:	Disering on Cotting	DME	Dispains on Outtine	
		RME1	Piercing or Cutting	RME1	Piercing or Cutting	
	E					

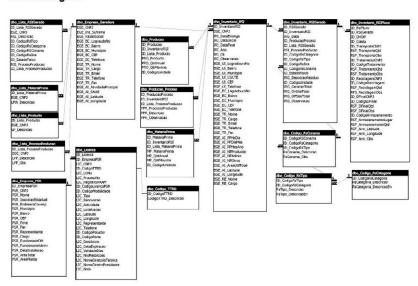
$4.4.8\ \ Corresponding\ waste\ category\ table\ CONAMA\ to\ JICA$

Type	10	CONAMA code	JICA code			
1990	Code	Decription	Code			
RINP	A001	Residues of restaurant	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)		
	A002	Generated residues outside of the industrial process	NH12	Mixed waste (This code shall be applied in case wastes are discharged without separation.)		
	A003	Residues of varrição of plant	NH13	Others		
	A004	Ferrous metal scrap iron	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A005	Not ferrous metal scrap iron	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A006	Residues of paper and cardboard	NH03	Paper		
	A007	Polymerized plastic residues of process	NH04			
	A008	Rubber residues	NH07			
	A009	Residues wooden I contend not toxic substances	NH02	Wood		
	A010	Residues of têxteis materials	NH05			
	A011	Not metallic mineral residues	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A012	Slag of aluminum casting	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A013	Slag of iron production and steel	NH09	Metals and metal alloys such as aluminum, copper, bronze		
	A014	Slag of brass casting	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A015	Slag of zinc casting	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A016	Sand of casting	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A017	Refractory ceramic residues and material	NH10	Ceramic & Glasses		
	A018	Solid residues not toxic metal composites		Others		
	A019	Solid residues of stations of treatment of		Others		
	A021	Solid residues of stations of treatment of		Others		
	A022	effluent I contend not toxic substances Pastosos residues of stations of treatment of effluent I contend not toxic substances	NH13	Others		
	A023	Pastosos residues I contend limy	NH13	Others		
	A024	Bagasse of sugar cane		Kitchen waste (include waste from animal such as bone, skin, hair)		
	A025	Fibre glass	NH10	Ceramic & Glasses		
	A026	Slag of jateamento I contend not toxic substances		Others		
	A027	Used catalysers I contend not toxic substances	NH13	Others		
	A028	Residues of system of control of not toxic gaseous emission I contend substance		Others		
	A029	Other not dangerous residues	NH13	Others		
	A099	Salty shavings	NH13	Others		
	A104	Metallic packings	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A105	Not ferrous metal packings	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A107	Bombonas of plastic not contaminated	NH04	Plastic or polymers and resins		
	A108	Etil acetate residues vinila		Plastic or polymers and resins		
	A111	Leached ashes of boiler	NH08	Ash/dust from coal-fired power plants, etc.		
	A117	Glass residues	NH10	Ceramic & Glasses		
	A199	Foam	NH13	Others		
	A204	Tambores metallic	NH09	Metals and metal alloys such as aluminum, copper bronze		
	A207	Plastic films and small packings	NH04	Plastic or polymers and resins		
	A208	Polyurethane residues (PU)	NH04	Plastic or polymers and resins		
	A299	Caleadas shavings of skins		Rubbers and Leather		
	A308	Silt of the caleiro	NH13	Others		
	A399	Atanado leather shavings, remnants	NH07	Rubbers and Leather		

g Type		CONAMA code		JICA code
	Code	Decription	Code	Decription
	A499	Carnaça	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)
	A599	Residues organic of process	NH01	
	A699	Rind of rice	NH01	Kitchen waste (include waste from animal such as
	A799	Atanado leather Serragem, bran and dust	NIII 0	bone, skin, hair) Ceramic & Glasses
	A899	Generated residues outside of the industrial		Others
	3-44-00-00-0	process (office, packings, etc.)		
	A999	Residues of fruits	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)
	Z999	?		Animal oil, Vegetable oil
			NH11	Stone, sand or material that have composition of so such as tile, brick, gypsum, cement
RIP	C001_C009	Listing 10 - dangerous residues for containing volatile components	HW14	Other Hazardous substance (besides HW01-HW13)
	D001	Dangerous residues for presenting inflammability	HW08	Polymeric Materials
		Standard Medical Inc.	HW09	Fuel, Oil and Grease
				Fine Chemicals and Biocides
				Other Hazardous substance (besides HW01-HW13
	D002	Dangerous residues for presenting corrosively		
			HW02	Organic acid
				Alkalis
	D003	Dangerous residues for presenting reactivity		Inorganic acid
				Organic acid
				Alkalis
	D.004	D		Organic Compounds
	D004	Dangerous residues for presenting pathogenicity		Fine Chemicals and Biocides
	Door Door	T. C. T. CAT. AMP 10004 1		Other Hazardous substance (besides HW01-HW13
	D005_D029	Listing 7 of Norm NBR 10004: dangerous residues characterized by the leaching test		Inorganic Compounds
				Other Inorganic
				Fine Chemicals and Biocides
	D099	01 1 1 16		Treatment Sludge
	F001_F0301	Other dangerous residues - to specify Listing 1 of Norm NBR 10004- admittedly dangerous residues - Classroom 1, of		Other Hazardous substance (besides HW01-HW13 Toxic Compounds
		not-specific sources		
				Organic Compounds
	F100	Bifenilas Policloradas - PCB's. Packings contaminated with PCBs also transforming	HW07	Organic Compounds
	F102	and capacitors Residue of catalysers not specified in Norm NBR 10.004	HW14	Other Hazardous substance (besides HW01-HW13
	F103	Deriving residue of industrial laboratories (chemical products) not specified in Norm NBR 10.004	HW04	Toxic Compounds
			HW10	Fine Chemicals and Biocides
	F104	Norm NBR 10.004		Other Hazardous substance (besides HW01-HW13
	F105	Solvent contaminated (to specify solvent and the main contaminante)	HW07	Organic Compounds
	F130	Used lubricant oil		Toxic Compounds Organic Compounds
	F230	Hydraulic fluid	HW04	Toxic Compounds
	F330	Cutting and hauling oil		Organic Compounds Toxic Compounds
	1.330	Cutting and frating off		Organic Compounds
	F430	Used contaminated oil in isolation or cooling		Toxic Compounds
	F430 F530	Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system	HW07	Toxic Compounds Organic Compounds Toxic Compounds

Categ	Type		CONAMA code		JICA code
ory		Code	Decription	Code	Decription
		K001 K209	Listing 2 of Norm NBR 10004- admittedly		Toxic Compounds
			dangerous residues of specific sources		2000.00 P. 2000.00 € 00 000.00
				HW07	Organic Compounds
		K053	Remaining portions and you splodge of inks		Organic Compounds
			and pigments		on a Control of the c
		K078	Residue of cleanness with solvent in the manufacture of inks	HW07	Organic Compounds
		K081	Silt of ETE of the production of inks	HW07	Organic Compounds
		Kuui	She of ETE of the production of likes	HWII	Treatment Sludge
		K193	Shavings of leather tanned to chromium		Toxic Compounds
		K194	Leather Serragem and dust I contend		Toxic Compounds
		16174	chromium	111104	Toxic Compounds
		K195	Silt of stations of treatment of effluent of tanning to chromium	HW04	Toxic Compounds
		K203	Residues of laboratories of research of	LIW/10	Fine Chemicals and Biocides
		-	illnesses	HWIO	rine Chemicais and Biocides
		K207	It splodges of the used oil re-refining (it splodges acid)	HW01	Inorganic acid
			spreages acra,	HW09	Fuel, Oil and Grease
		P001 P123	Listing 5 of Norm NBR 10004 - dangerous		Organic Compounds
			residues for containing toxic substances acutely		
		U001_U246	Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	HW14	Other Hazardous substance (besides HW01-HW13)
		Z999	?	HW12	Ash from incinerator
					Dust and Air pollution control (APC) products
					Mixed Waste
				HW16	Hazardous materials from Non-production process
. RC	Classe	RCA1	from construction, demolition, refitting and		from construction, demolition, refitting and repair of
	A		repair of pavement		pavement
		RCA2		RCA2	from the construction, demolition refitting and repa
			repair of edifications: ceramic components		of edifications: ceramic components
		RCA3	from manufacturing and/or demolition process	RCA3	from manufacturing and/or demolition process of
			of concrete pre-modulated pieces		concrete pre-modulated pieces
0.	Classe_	RCB1	The recyclable waste for other purposes	RCB1	The recyclable waste for other purposes
	В				
	Classe_	RCC1	Waste which has no economically feasible	RCC1	Waste which has no economically feasible
	C		technology or applications which may allow it		technology or applications which may allow it to be
			to be recycled		recycled
	Classe_	RCD1	Hazardous waste arisen from construction	RCD1	Hazardous waste arisen from construction process,
	D		process, such as paints, solvents, oils and so forth		such as paints, solvents, oils and so forth
3.	Gruno	RMA1	Group A.1 Biologic	PMA1	Group A.1 Biologic
RM	A	Kuiri	Group A.T Diologic	KWAI	Group A.I Biologic
CIVI	A	RMA2	Group A.2 Animals	PMA2	Group A.2 Animals
		RMA3	Group A.3 Body part		Group A.3 Body part
		RMA4	Group A.4 Patient care etc		Group A.4 Patient care etc
		RMA5	Group A.5 Prions		Group A.5 Prions
	Grupo_ B	RMB1	Chemical etc		Chemical etc
	Grupo_	RMC1	Radioactive waste	RMC1	Radioactive waste
	C	DMD1	Common mosts	DMP	Common words
	Grupo D	RMD1	Common waste	KWD1	Common waste
-		RME1	Piercing or Cutting	RME1	Piercing or Cutting

4.5 Table's diagram



4.6 Tables structure

Table: dbn_Categoria_TTRD

Name	Туре	Size
ID CodigoCategoria	Text	3
ID PSRLicenca	Text	4
ID CodigoTTRD	Text	2
Descricao	Text	80
Nota	Text	50

Table: dbn_Codign_CNAE_Classes

Name	Туре	Size
ID_CNAE_Classes	Text	6
ID_CNAE_Secoes	Text	1
ID CNAE Divisoes	Text	2
ID_CNAE_Grupo	Text	3
CNAE_Classes	Text	200

Table: dbo_Codigo_CNAE_Divisoes

Name	Type	Size
ID_CNAE_Divisoes	Text	2
ID CNAE Secoes	Text	1
CNAE_Divisoes	Text.	200

Table: dbo Codigo CNAE Grupo

Name	Type	Size
ID_CNAE_Grupo	Text	3
ID CNAE Secoes	Text	1
ID_CNAE_Divisoes	Text	2
CNAE Grupo	Text	200

Table: dbo_Codigo_CNAE_Secoes		
Name	Type	Size

ID CNAE Secoes	Text	1
CNAE Secoes	Text	200

Table: dbo Codigo CNAE SubClasses

Name	Туре	Size
ID_CNAE_SubClasses	Text	10
ID CNAE Secoes	Text	1
ID CNAE Divisoes	Text	2
ID CNAE Grupo	Text	3
ID CNAE Classes	Text	6
CNAE SubClasses	Text	200

Table: dbo Codigo RsCategoria

Name	Туре	Size
ID CodigoRsCategoria	Text	6
RsCategoria Descricao	Text	50
RsCategoria_DescricaoEn	Text	50

Table: dbo_Codigo_RsConama

Name	Type	Size
ID_CodigoRSConama	Text	10
ID_CodigoRsCategoria	Text	6
ID_CodigoRsTipo	Text	10
RsConama_Descricao	Text	100
RsConama Obs	Memo	

Table: dbo_Codigo_RsJica

Name	Type	Size
ID CodigoRsJica	Text	4
ID_CodigoRsCategoria	Text	6
ID CodigoRsTipo	Text	10
RsJica Descricao	Text	100
RsJica_Obs	Memo	-

Table: dbo Codigo RsJICA CONAMA

Name	Type	Size
ID_RSConamaJica	Long Integer	4
ID CodigoRsCategoria	Text	6
ID CodigoRsTipo	Text	10
ID CodigoRsJica	Text	4
ID CodigoRsConama	Text	10
RsJica Descricao	Text	255
RsConama Descrição	Text	255

Table: dbo_Codigo_RsTipo

Name	Type	Size
ID_CodigoRsTipo	Text	10
ID_CodigoRsCategoria	Text	6
RsTipo Descricao	Text	100
RsTipo_DescricaoEn	Text	100

Table: dbo_Codigo_TTRD

Name	Type	Size
ID CodigoTTRD	Text	2
CodigoTTRD Descricao	Text	20

Table: dbo_Codigo_Unidad

Name	Type	Size
ID CodigoUnidad	Long Integer	4
CUN Nome	Text	50
CUN_Sigla	Text	10

Table: dbo_Empresa_Geradora

Name	Type	Size
EGE CNPJ	Text	20
EGE Ins Suframa	Text	20

EGE RazaoSocial	Text	50
EGE EC LograudoNo	Text	100
EGE EC Bairro	Text	50
EGE EC Municipio	Text	20
EGE EC_CEP	Text	20
EGE EC Telefone	Text	50
EGE TR Nome	Text	50
EGE TR Cargo	Text	20
EGE TR Email	Text	50
EGE TR Telefone	Text	50
EGE TR Fax	Text	50
EGE_AI_AtividadePrincipal	Text	100
EGE AI CNAE	Text	10
EGE AI Latitude	Text	25
EGE_AI_Longitude	Text	25

Name	Type	Size
ID_EmpresaPSR	Long Integer	4
PSR CNPJ	Text	20
PSR Nome	Text	100
PSR InscricaoEstadual	Text	15
PSR_EnderecoCorresp	Text	100
PSR Municipio	Text	50
PSR Bairro	Text	50
PSR CEP	Text	25
PSR Fone	Text	50
PSR Fax	Text	50
PSR Representante	Text	25
PSR Cargo	Text	25
PSR FuncionarioOM	Long Integer	- 4
PSR_FuncionarioAdmin	Long Integer	- 4
PSR DataInstalacao	Date/Time	8
PSR AreaTotal	Long Integer	4
PSR AreaPlanta	Long Integer	- 4

Table: dbo_Inventario_RSI

Name	Type	Size
ID_InventarioRSI	Long Integer	4
EGE_CNPJ	Text	20
IRI DataEntrega	Date/Time	8
IRI DataInicio	Date/Time	8
IRI DataFinal	Date/Time	8
IRI Ano	Long Integer	4
IRI Ok	Yes/No	1
IRI Observação	Memo	104
EGE UI LogradouroNo	Text	100
EGE UI Bairro	Text	50
EGE UI Municipio	Text	20
EGE UI CGCTE	Text	20
EGE UI CEP	Text	20
EGE UI Telefone	Text	50
EGE_EC_LogradouroNo	Text	100
EGE EC Bairro	Text	50
EGE EC Municipio	Text	20
EGE_EC_CEP	Text	20
EGE_EC_Telefone	Text	50
EGE_TR_Nome	Text	50
EGE_TR_Cargo	Text	50
EGE TR Email	Text	50
EGE_TR_Telefone	Text	50
EGE TR Fax	Text	50
EGE AI PPHsDia	Integer	2
EGE AI PPDiaMes	Integer	2
EGE AI PPMesAno	Integer	2

EGE AI NFProducao	Long Integer	4
EGE_AI_NFAdmin	Long Integer	4
EGE AI NFOtros	Long Integer	4
EGE AI AreaUtilTotal	Long Integer	4
EGE AI Latitude	Text	25
EGE AI Longitude	Text	25
EGE RE Nome	Text	50
EGE RE Cargo	Text	50

Name	Туре	Size
ID RsiFluxo	Long Integer	4
ID_RSIGerado	Long Integer	4
ID_OnOff	Text	3
ID Coleta	Long Integer	4
ID TransporteCNPJ	Text	20
RSF_TransporteQtd	Double	8
RSF_TransporteObs	Memo	-
ID_TratamentoCNPJ	Text	20
ID CodigoTratamento	Text	4
RSF TratamentoQtd	Double	8
RSF TratamentoObs	Memo	-
ID ReciclagemCNPJ	Text	20
ID CodigoReciclagem	Text	4
RSF ReciclagemQtd	Double	8
RFS ReciclagemObs	Memo	
ID DFinalCNPJ	Text	20
ID CodigoDFinal	Text	4
RSF DFinalQtd	Double	8
RSF DFinalObs	Memo	-
ID CodigoArmazenamento	Text	4
RSF ArmazenamentoLugar	Text	50
RSF ArmazenamentoQtd	Double	8
RSF Arm Latitude	Text	20
RSF Arm Longitude	Text	20
RSF Arm Obs	Memo	-

Table: dbo_Inventario_RSIGerado

Name	Type	Size
ID_RSIGerado	Long Integer	4
ID InventarioRSI	Long Integer	4
IRG Data	Date/Time	8
ID_ProducaoProceso	Long Integer	4
ID Lista RSIGerado	Long Integer	4
RSI ProcesoProducao	Yes/No	1
ID CodigoRsCategoria	Text	6
ID CodigoRsTipo	Text	10
ID CodigoRsJica	Text	4
ID CodigoRsConama	Text	10
ID EstadoFisico	Text	1
IRG DescricaoResiduo	Text	100
ID CodigoUnidade	Text	3
IRG_GeracaoTotal	Double	8
IRG OnSiteTotal	Double	8
IRG OffSiteTotal	Double	8
IRG Observação	Memo	

Table: dbo_Licenca

Name	Type	Size
ID Licenca	Long Integer	4
ID_EmpresaPSR	Long Integer	4
LIC CNPJ	Text	20
ID CodigoTTRD	Text	2
LIC LONo	Text	1.5
LIC ProcesoNo	Text	15

LIC RegistroIPAAM	Text	1 10
ID_CodigoLicencaPSR	Text	4
ID CodigoModalidade	Text	2
LIC Tipo	Text	15
LIC Renovacao	Text	30
LIC Actividade	Text	50
LIC Localização	Text	100
LIC Latitude	Text	20
LIC Longitude	Text	20
LIC Representante	Text	50
LIC_Telefone	Text	50
ID_CodigoPoluidor	Text	1
ID CodigoPorte	Text	1
LIC Datalnicio	Date/Time	8
LIC_DataExpiracao	Date/Time	8
LIC_ValidadeDias	Long Integer	4
LIC_NroRestricoes	Long Integer	4
LIC_NomeDiretoriaTecnica	Text	50
LIC NomeDiretorPresidente	Text	50
LIC Nota	Memo	-

Table: dbo Lista MateriaPrima

Name	Type	Size	
ID Lista MateriaPrima	Long Integer	4	
EGE CNPJ	Text	20	
LMA Descricao	Text	100	

Table: dbo_Lista_ProcesoProducao

Name	Type	Size	
ID Lista ProcesoProducao	Long Integer	4	
EGE_CNPJ	Text	20	
LPP Descricao	Text	100	
LPP_Obs	Memo	-	

Table: dbo_Lista_Producto

Name	Туре	Size	
ID_Lista_Producto	Long Integer	4	
EGE CNPJ	Text	20	
LP Descricao	Text	100	

Table: dbo_Lista_RSIGerado

Name	Type	Size
ID_Lista_RSIGerado	Long Integer	4
EGE_CNPJ	Text	20
RSI_Descricao	Text	100
ID CodigoRsTipo	Text	10
ID_CodigoRsCategoria	Text	6
ID_CodigoRSConama	Text	10
ID_CodigoRsJica	Text	4
ID EstadoFisico	Text	1
RSI ProcesoProducao	Yes/No	1
ID_Lista_ProcesoProducao	Long Integer	4

Table: dbo_MateriaPrima

	Туре	
ID_MateriaPrima	Long Integer	4
ID_InventarioRSI	Long Integer	4
ID Lista MateriaPrima	Long Integer	4
MP_MateriaPrima	Text	50
MP_QntAnual	Long Integer	4
MP_QntMaxima	Long Integer	4
ID CodigoUnidade	Text	25

Table: dbo_Producao

Name	Type	Size
ID_Producao	Long Integer	4

ID InventarioRSI	Long Integer	4
ID_Lista_Producto	Long Integer	4
PRO Producto	Text	50
PRO QntAnual	Long Integer	4
PRO QtiMaxima	Long Integer	4
ID CodigoUnidade	Text	25

Table: dbo_Producao_Proceso

Name	Type	Size	
ID ProducaoProceso	Long Integer	4	
ID_InventarioRSI	Long Integer	4	
ID Lista ProcesoProducao	Long Integer	4	
PPR ProccesoProducao	Yes/No	1	
PPR_Descricao	Text	100	
PPR Observação	Memo		

5.8 WSC_DB System User Guide





THE STUDY FOR

THE DEVELOPMENT OF

AN INTEGRATED SOLUTION RELATED TO

INDUSTRIAL WASTE MANAGEMENT

IN THE INDUSTRIAL POLE OF MANAUS

Waste Service Company

Database

User Guide

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1 Purpose

To properly manage industrial waste, it is essential to eliminate non-licensed entities and foster sound waste service companies (WSC). In order to do so, those who are operating such services will acquire an operation license (OL) through the registration system and then pursue such activities in accordance with that license.

However, the existing registration system is not functioning as imagined for the following reasons:

- The application for WSCs contains complex and detailed categories and options that
 make it difficult to understand under which category one's activities should be placed.
- · Actual activities are not in accordance with the items in that category.
- It is difficult for IPAAM to decipher WSCs in the license list because the places of the registration are dispersed in various different categories.
- Also, the following conditions have invited improper disposal of industrial waste and hindered proper industrial waste management.
- The waste generators who are obliged to consign their IW to registered WSCs will not
 know who the actual registered waste service company is unless a correct and simple
 registration list is informed.
- Difficulties in properly operating and maintaining the registration system is contributing to non-licensed entities conducting activities.

In order to improve such conditions and guarantee proper management of industrial wastes, it is necessary for all parties, starting with the administrative bodies and including the waste service companies and waste generators as well, to immediately form a new registration management system that uniformly manages waste service companies in an easily understandable manner. To do so, IPAAM has collaborated with the study team from JICA to explore the possibility of establishing a registration system that would introduce a new category for waste management, as shown below, which includes 4 sub-categories for collection and transportation, intermediate treatment, recycling and final disposal, in accordance with actual activities.

Code	Major Classification	Code	Sub-Classification	Class [Types of Waste Handled]
33	Municipal Waste 3301 C Management		Collection and Transportation	Class I (HW), Class II-A(Non-HW & Non-Inert), Class II-B (Non-HW, & Inert)
	Management	3302	Intermediate Treatment	Class II-B (Non-HW, & Inert) Class II-B (Non-HW, & Inert)
		3303	Recycling	Class II-A (Non-HIW & Non-Inert), Class II-B (Non-HIW & Inert)
		3304	Final Disposal	Class II-A (Non-HIW & Non-Inert), Class II-B (Non-HIW & Inert)
34	Industrial Waste Management	3401	Collection and Transportation	Class I (HW), Class II-A(Non-HW & Non-Inert), Class II-B (Non-HW, & Inert)
		3402	Intermediate Treatment	Class I (HW), Class II-A(Non-HW & Non-Inert),

		Class II-B (Non-HW, & Inert)
3403	Recycling	Class II-A (Non-HIW & Non-Inert),
		Class II-B (Non-HIW & Inert)
3404	Final Disposal	Class II-A (Non-HIW & Non-Inert),
		Class II-B (Non-HIW & Inert)

2 Recommendation for Improving Categorization of Waste-related Environmental Licensing

2.1 Current Issues

The categories are not organized from the view point of waste management since they are complex and dispersed across a range of larger categories, making it difficult to make use of them for appropriate operator management.

2.2 Waste Management related Codes of IPAAM for Environmental Licensing

Code Class		Class Code S		ss	
				Impact	
22 * *	Commerce and	2217	Incineration	High	
	Services	2218	Co-processing of wastes	High	
		2219	Agrochemical Collection Center	Moderate	
24 * *	Other Services (including provision	2407	Solid Industrial Waste Collection and/or Treatment	High	
	of electricity and	2408	Municipal Waste Final Destination	High	
	water)	2410	Collection and Transport of Inert Solid Waste	Minimal	
		2411	Collection and/or Storage and/or Commercialization of Solid Waste (e.g. recycling)	Moderate	
		2412	Collection and/or Treatment of Hazardous Liquid Industrial Waste	High	
		2417	Industrial Waste Disposal in Landfill	High	
26 * *	Transportation	2615	Transport and Storage of Hazardous Solid Industrial Waste	High	
30 * *	Waste Treatment and Recycling	3001	Treatment and Recycling of Solid Industrial Waste without chemicals	Moderate	
		3002	Treatment and Recycling of Industrial Liquid Waste	Moderate	
		3003	Treatment and Recycling of Solid Industrial Waste without Chemicals	High	
		3004	Treatment and Recycling of Palettes	Moderate	
		3005	Paper and Cardboard Recycling	Moderate	
		3006	Treatment and Recycling of Mineral Waste (Waste Re-processing)	Moderate	

(Source) Classificação das Fontes Poliudoras IN 001;06 Publicada em (3/12/2007)

2.3 Aim of Improvements

For the managing body (IPAAM), and waste service companies (WSC), as well as for waste generators which select operators, to be able to easily utilize the licensing system by establishing a simple and easy-to-understand category in agreement with the actual waste operation services being carried out.

2.4 Utility of Improvements

IPAAM will plot out appropriate WSC management in accordance with the database through environmental licensing approval and renewal based on the new category, and provide guidance to waste generators to select appropriately qualified WSCs, thus promoting appropriate industrial waste management.

2.5 Basic Vision of Category Improvement

2.5.1 Make the category in agreement with actual operations as easy to use and understand as possible.

However, upon carrying out appropriate waste management, will cover all necessary items.

2.5.2 Major Classification

First separate municipal and industrial waste from actual business operations

${\bf 2.5.3~Sub\text{-}Classification:\ into\ 4\ categories\ of\ industrial\ waste\ operation}$

- (1) Collection and Transportation (including transfer and temporary storage)
- (2) Intermediary Treatment
- (3) Recycling (separation as well as waste reuse business)
- (4) Final Disposal

2.5.4 Types of industrial waste handled: into 3 classes

Industrial waste (IW) is waste discharged from factories (obtained environmental license?), divided into three classes:

Class I (HIW), Class II-A (Non-HIW & Non-Inert), Class II-B (Non-HIW & Inert)

2.5.5 Category Items

- A. (2 Business types: Industrial waste, Municipal waste)
- B. (4 Operation types: collection and transportation, intermediate treatment, recycling, final disposal)
- C. (3 Waste classes: Hazardous; Non-Hazardous & Non-Inert; Non-Hazardous & Inert)

2.5.6 Category Assembly

In the following order: A→B→C. Significance put on business type (Municipal waste, Industrial waste)

2.6 Japan Operation License Categories

First, municipal and industrial wastes are categorized, and industrial waste is divided by "collection and transportation" and "disposal"; similarly, other specially managed industrial wastes (hazardous waste) are also divided by "collection/transportation" and "disposal".

The scope of work is written on the application form (e.g. types of IW handled; intention of transfer, storage, etc.; disposal method)

Business practices are controlled by separately established regulations

2.7 Recommended Additional Application Items

Addition of the minimum items necessary to more or less understand the content of business activities.

- (1) 3401 List of Vehicle Used, Picture, Location of Parking, Existence of Transfer, Temporary Storage, and if so, Location, etc.
- (2) 3402 Explanation of Facility (location, types of waste, disposal method, disposal capability, etc.)
- (3) 3403 Explanation of kind of recycling, explanation of facility (location, type of waste, disposal method, disposal capability, etc)
- (4) 3404 Explanation of facility (location, type of waste, capacity of facility, etc.)

2	0	Recommended form	
1	a	- Recommenaea torm	

2.8.1 Transport form

OPERATION LICENSE TRANSPORT

1. General informa	tion				
Company / Individua	al:				
CNPJ / CPF:		State Registra	tion N. (SE	FAZ-AM):	
Mail address					
Suburb:	Mun	icipality:		ZIP:	
Phone:			Fax:		
E-mail:					
Representative:			Job-Title:		
N. of employees:	Administration		Operation a	and Maintenance	
Area	Total (m ²)		Site (m2)		

Modality:	()Op	eration License	-OL /	()R	enewal:
IPAAM Register N.:	Proces	Process N.:		License Code	
Activity		26:	7,000		
Initial Date:	Expiration	Date:	Va	lidity of this	license:
Polluting/Degrading Potent	tial		1352	Size:	
This license has restrictions	s:				
Location of the Company:	90	20	N/O	V2	
Geographic Coordinates:	Latitude:			Longitude:	
Name of the Representative	e				
Phone:					
Name of the Technical Mar	nagement Advi	isor (IPAAM):			
Name of the President-Dire	ctor (IPAAM)):			

3. Type	Type of Waste Transportation License	
A	Transportation of non-hazardous industrial wastes	

4. List of Restrictions and/or conditions for the validity of this license 1. Restrictions 1

- Restrictions 1
 Restrictions 2
 Restrictions 3 etc.

4.	List of the t	ransportatio	n vehicles		
N.	Plate n.	Make	Model	Load capacity	Obs. (Picture)
1					*
2					
3					

7	07	Thomas	-

OPERATION LICENSE TREATMENT

1. General information	1		
Company / Individual:	38	78-	
CNPJ/CPF:	State Re	egistration N. (SEFAZ-AM):	
Mail address:		9200	
Suburb:	Municipality:	ZIP:	
Phone:	84	Fax:	
E-mail:		-93	
Representative:		Job-Title:	
N. of employees:	dministration	Operation and Maintenance	
Area T	'otal (m²)	Site (m²)	

Modality:	() Operation License – OL / () Renewal:				
IPAAM Register N.:	Process N.	License Code			
Activity		110.0051110.000000000000000000000000000			
Initial Date:	Expiration Date:	Validity of this license:			
Polluting/Degrading Potential		Size:			
This license has restrictions:	,	e de la companya del companya de la companya del companya de la co			
Location of the Company:					
Geographic Coordinates:	Latitude:	Longitude:			
Name of the Representative		1			
Phone:					
Name of the Technical Management	Advisor (IPAAM):				
Name of the President-Director					

	Type of Waste	Type of Treatment		
Code	Description	Code	Description	
A	Treatment of non-hazardous industrial wastes	T01	Incinerator	
		1		

ID	Description
T01	Incinerator
T02	Incinerator with chamber
T05	Outdoor burning
T06	Detonation
T07	Oxidation of cyanides
T08	Chemical encapsulation/fixture or solidification
T09	Chemical oxidation
T10	Precipitation
T11	Detoxification
T12	Neutralization
T13	Adsorption
T15	Biologic treatment
T16	Composting
T17	Drying
T18	Land farming
T19	Thermal plasma
T34	Other treatments (specify)

4. List of Restrictions and/or condition for the validity of this license

- Restrictions 1 Restrictions 2

2.8.3 Recycle form

1. General Inform	TO CONTRACT OF THE PARTY OF THE				
Company / Individu	al:				
CNPJ / CPF:		State Regis	tration	N. (SEFAZ-AM):	
Mail address:					
Suburb:	Munic	cipality:		ZIP:	
Phone:	- 52	20 1704		Fax:	
E-mail:					
Representative:		Job-Title:		b-Title:	
N. of employees:	Administration	istration Ope		peration and Maintenance	
Area	Total (m²)	n ²) Site (m ²)		e (m²)	
	***	-	1510	c (m)	
2. TYPE OF LICE Modality:	()0	peration Lic		OL / () Renewal:	
Modality: IPAAM N.:					
Modality: IPAAM N.: Activity	Process I	Ň.		OL / () Renewal: License Code	
Modality: IPAAM N.:	Process P	Ň.		OL / () Renewal:	

Type of Waste		Type of Recyclin		
Code	Description	Code	Description	
A	Non-hazardous industrial wastes	T01	Incinerator	
		1		

ID	Description
R01	Use in industrial oven (except in heating ovens)
R02	Use in boiler
R03	Co-processing in cement ovens
R04	Blending of wastes
R05	Formulation of micronutrients
R06	Incorporation in agricultural soil
R07	Fertilization and irrigation
R08	Animal reaction
R09	Reprocessing of solvents
R10	Re-refining of oil
R11	Reprocessing of oil
R12	Scrap iron collector
R13	On-site reuse/recycling/recovery
R99	Other forms of reuse/recycling/recovery

4. List of Restrictions and/or condition for the validity of this license

Name of the Technical Management Advisor (IPAAM):

Name of the President-Director (IPAAM):

1. Restrictions 1
2. Restrictions 2
3. Restrictions 3 Restrictions 3 etc.

• • • • 7

2.8.4 Final Disposal form

OPERATION LICENSE FINAL DISPOSAL

1. General Inform	ation					
Company / Individu	ıal:					
CNPJ / CPF:		State Registrat	tion	N. (SEF	AZ-AM):	
Mail address:						
Suburb:	Munic	ipality:			Suburb:	
Phone:	*			Fax:		
E-mail:				7.		
Representative:			Jo	b-Title:		
N. of employees:	Administration		Op	eration a	and Maintenance	
Area	Total (m ²)		Sit	e (m²)		

Modality:	() Operation Licens	se – OL / () Renewal:	
IPAAM N.:	IPAAM N.:	IPAAM N.:	
Activity		· · · · · · · · · · · · · · · · · · ·	
Initial Date:	Expiration Date:	Validity of this license:	
Polluting/Degrading Potential		Porte:	
This license has restrictions:			
Location of the Company:	- 1		
Geographic Coordinates:	Latitude:	Longitude:	
Name of the Representative		*	
Phone:			
Name of the Technical Management	Advisor (IPAAM):		
Name of the President-Director	(IPAAM):		

Type of Waste		Type of Recycling		
Code	Description	Code	Description	
A	Non-hazardous industrial wastes	T01	Incinerator	
		4		

ID	Description
B01	Infiltration in the soil
B02	Municipal Landfill
B03	Own Industrial Landfill
B04	Third-parties Industrial Landfill
B05	Municipal Dumping Site
B06	Private Dumping Site
B20	Sewer
B30	Other (specify)

List of Restrictions and/or condition for the validity of this license
 Restrictions 1
 Restrictions 2
 Restrictions 3 etc.

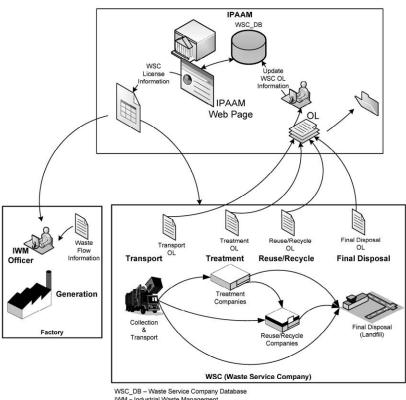
8

Waste Service Company (WSC_DB)

3.1 General scheme of WSC_DB

As shown in the next figure, the WSC_DB will operate within next steps:

- The WSC officer will apply for new WSC's operation license.
- The IPAAM will check and after approved the OL will update the information in the WSC_DB and the licensed WSC information will updated in the IPAAM Web Page and will available for IWM officer of the factory and other who required this information.
- The IWM officer of the factory can search the WSC by transport, treatment, recycling and final disposal.

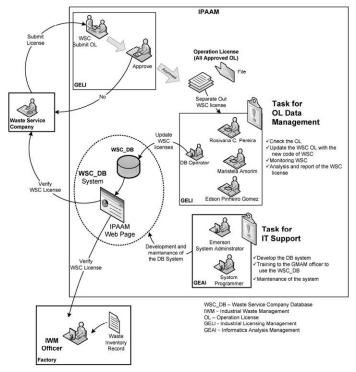


WSC_DB – Waste Service Company Database IWM – Industrial Waste Management OL – Operation License

3.2 General Scheme for implementation of the WSC_DB

As shown in the next figure to implement a WSC_DB, IPAAM establish a group of human resources (GMAN) and support of the IT department (GEAI). The GELI department will check and approve the OL of the WSC, and then GMAN will update the information of WSC's OL in the WSC_DB.

- . The WSC will submit the new WSC's OL to the IPAAM
- The GELI department will receive the OL of the WSC and will check the information, and after approved the OL the DB operator will update the information of the WSC's OL in the WSC_DB and then the system will automatically updated this information in the IPAAM web site and will be available for the public
- . The IWM officer of the factories can check the information of the licensed WSC



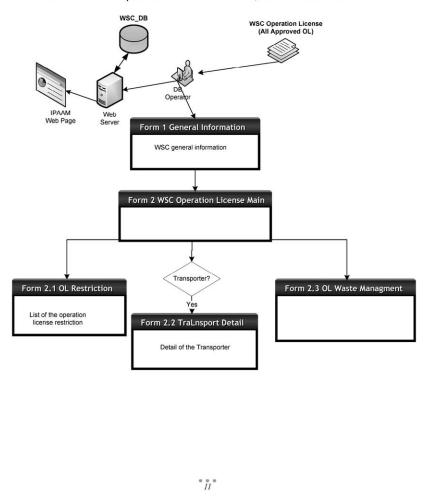
3.3 WSC_DB User guide

3.4 Information needed for update waste inventory

Approved WSC OL with new code

3.5 Diagram of the WSC_DB system

- In the GELI after the OL will approved, the DB operator will update the WSC license information in to the WSC_DB.
- The WSC OL will update in to the IPAAM web site, and will available for all.



3.5.1 F1. General Information

Field	Data		Remark
ID_EmpresaPSR		1	
CNPJ:	04.025.466/0001-00		
State Registration	04.167.721-8		
Company Name	Empresa 1		
Mail Address:			
Street/nº:			
Suburb/District:			
Municipality:			
ZIP:			
Phone:			
Fax:			
Representative Contact:			
Name:	Nome 1		
Job Title:			
E-mail:			
Type of Activity:			
Number of employee:	Administration	20	
	Operation and maintenance	50	
Area:	Total	3000 m2	
	Plant	400 m2	
Installation Date:	10/01/2000	100	

° i ° ° 12°

3.5.2 F2 WSC Operation License information

Field	Data	Remark
Inforamation generated	by the system	
ID_Licenca		
ID_EmpresaPSR		
CNPJ:	04.025.466/0001-00	
Operation license No	354/01-05	
Process No	0257/T/01	
IPAAMRegistration		
WSC License Code	3401 (Collection and Transport)	Select from WSC license code
OL mode code	Operation license	
Type of OL	Renew	New, Renew
Renew	00001	Renew license number
Activity	Transport of NonHW	Activity description
Location of the company:		
Address	Address 1	
	Latitude 3°07'44.14" S	GPS measure in Degree/Min/Se
Geographic coordinates	Longitude 60°00'45.71" W	GPS measure in Degree/Min/Se
Responsible of the WSC		
Name	Nome 1	
Phone	00000000	7
Polluting Code	A (Alto)	
Polluting size	M (Medio)	
Vality of this license		
	01/01/2010	
Expire date	31/01/2010	
Vality days	365	
Number of restrictions	10	
Information of IPAAM		
Name fo the Technical		
Manager		
Name of the President Director	Name 2	
Observation		
Obsci vation	I.	

3.5.3 F2.1. Operation License Restriction

ID	ID_Licenca	No	Description
1	1	1	Restriction 1
2	1	2	Restriction 2
3	1	3	Restriction 3

3.5.4 F2.2. Transport Detail (if Operation License is for transporte)

List of the vehicles used for transport

ID	ID_Licenca	Plate	Mark	Model	Туре	Capacity	Picture	Observation
1	1	AAA234	vw	TA340	Compactor	8ton	sim	
1	2							
1	3							

3.5.5 F2.3. Operation License Waste Management

Field	Data	Remark
Information generate	d by the system	
ID_LicencaResiduo		
ID_Licenca		
Code of Type of waste:	B (Non HW)	
Description of the waste	A CONTRACTOR OF THE CONTRACTOR	
Category of WSC	3401 collection and transport	Select from WSC license code table
Category of waste (CO)	NAMA)	
Category code	RI (Industrial waste)	Select from waste category table
Type code	RINP (Non HIW)	Select from waste type table
CONAMA Code	A006 Resíduos de papel e papelão	Select from CONAMA waste code
Capacity per day	500	Capacity of transport, treatment, reciclyng and final disposal
Observation	Não	

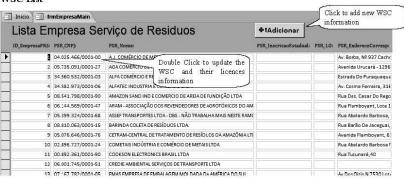
3.6 Using WSC_DB System

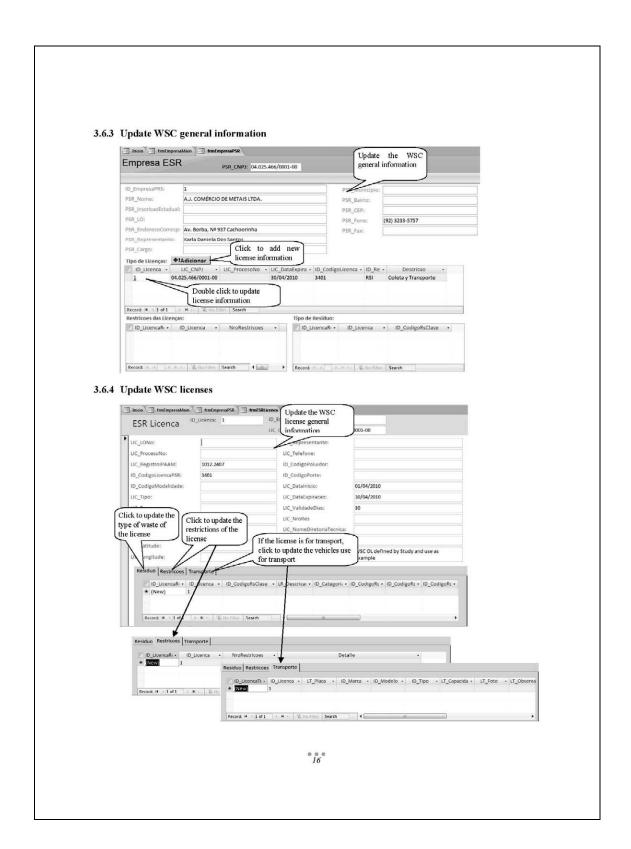
3.6.1 Main form

Open the WSC_DB System and will show the next screen



3.6.2 WSC List





3.7 Search WSC Information on the IPAAM WebPage

The IPAAM web page is linked to the WSC_DB and all the information about the WSC license will avaible in the next page



0 0 0 17

4 Tables

4.1 WSC license table

ID_Codigo_LicencaPSR	ID_ResiduoTipo	ID_CodigoTTRD	Description	Note
3301	RSU	TT	Collection and transpoft	A (HW), B (Non-HW & NON-Inert), C (Non-HW, Inert)
3302	RSU	TR	Treatment	A (HW), B (Non-HW & Non-Inert), C (Non-HW & Inert)
3303	RSU	RR	Reciclyng	B (Non-HW & Non-Inert), C (Non-HW & Inert)
3304	RSU	DF	Final disposal	B (Non-HW & Non-Inert), C (Non-HW & Inert)
3401	RSI	тт	Collection and transpoft	A (HIW), B (Non-HIW & Non-Inert), C (Non-HIW & Inert)
3402	RSI	TR	Treatment	A (HIW), B (Non-HIW & Non-Inert), C (Non-HIW & Inert)
3403	RSI	RR	Reciclyng	B (Non-HIW & Non-Inert), C (Non-HIW & Inert)
3404	RSI	DF	Final disposal	B (Non-HIW & Non-Inert), C (Non-HIW, Inert)

4.2 Polluter category table

ID CodigoPoluidor	CP Descricao
A	High
G	Big
M	Moderate
P	Small

4.3 Polluter size table

ID CodigoPorte	Size description
G	Big
M	Middle
N	Micro
P	Small

4.4 Waste Class Table

ID CodigoRsClase	Class Description	Observation
A	Hazardous Waste (RP, RIP)	
В	Non Hazardous Waste, Non inert (RNP, RINP, Non-Inert)	
С	Non Hazardous Waste, Inert (RNP, RINP, Inert)	

4.5 TTRD category table

ID_Categoria TTRD		ID_CodigoTTRD	Description	Observation
Final disposal	code			
B01	3404	DF	Infiltration in the soil	
B02	3404	DF	Municipal Landfill	
B03	3404	DF	Own Industrial Landfill	
B04	3404	DF	Third-parties Industrial Landfill	
B05	3404	DF	Municipal Dumping Site	
B06	3404	DF	Private Dumping Site	
B20	3404	DF	Sewer	
B30	3404	DF	Other (specify)	
Reciclyng code	,			
R01	3403	RR	Use in industrial oven (except in heating ovens)	

R02	3403	RR	Use in boiler	
R03	3403	RR	Co-processing in cement ovens	
R04	3403	RR	Blending of wastes	
R05	3403	RR	Formulation of micronutrients	
R06	3403	RR	Incorporation in agricultural soil	
R07	3403	RR	Fertilization and irrigation	
R08	3403	RR	Animal reaction	
R09	3403	RR	Reprocessing of solvents	
R10	3403	RR	Re-refining of oil	
R11	3403	RR	Reprocessing of oil	
R12	3403	RR	Scrap iron collector	
R13	3403	RR	On-site reuse/recycling/recovery	
R99	3403	RR	Other forms of reuse/recycling/recovery	
Treatmen	ıt code	24		
T01	3402	TR	Incinerator	
T02	3402	TR	Incinerator with chamber	
T05	3402	TR	Outdoor burning	
T06	3402	TR	Detonation	
T07	3402	TR	Oxidation of cyanides	
T08	3402	TR	Chemical encapsulation/fixture or solidification	
T09	3402	TR	Chemical oxidation	
T10	3402	TR	Precipitation	
T11	3402	TR	Detoxification	
T12	3402	TR	Neutralization	
T13	3402	TR	Adsorption	
T15	3402	TR	Biologic treatment	
T16	3402	TR	Composting	
T17	3402	TR	Drying	
T18	3402	TR	Land farming	
T19	3402	TR	Thermal plasma	
T34	3402	TR	Other treatments (specify)	

4.6 Waste Category

4.6.1 JICA waste category table

Category	Туре	JICA code	Description	No
1. RI	RINP	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)	250
		NH02	Wood	
		NH03	Paper	
		NH04	Plastic or polymers and resins	
		NH05	Textile and fiber	
		NH06	Animal oil, Vegetable oil	
	Non- Hazardous industrial waste	NH07	Rubbers and Leather	
		NH08	Ash/dust from coal-fired power plants, etc.	
		NH09	Metals and metal alloys such as aluminum, copper, bronze	
Industrial		NH10	Ceramic & Glasses	
Waste			Stone, sand or material that have composition of soil such as tile, brick,	
TT M.SIC.		NH11	gypsum, cement	_
		27710	Mixed waste (This code shall be applied in case wastes are discharged	
		NH12	without separation.)	
	DID	NH13	Others	
	RIP	HW01	Inorganic acid	-
	Hazardous	HW02	Organic acid	_
	industrial	HW03	Alkalis	_
	waste	HW04	Toxic Compounds	
	waste	HW05	Inorganic Compounds	

Category	Туре	JICA code	Description	No
		HW06	Other Inorganic	1
		HW07	Organic Compounds	1
		HW08	Polymeric Materials	1
		HW09	Fuel, Oil and Grease	1
		HW10	Fine Chemicals and Biocides	1
		HW11	Treatment Sludge	1
		HW12	Ash from incinerator	1
		HW13	Dust and Air pollution control (APC) products	1
		HW14	Other Hazardous substance (besides HW01-HW13)	1
		HW15	Mixed Waste	1
		HW16	Hazardous materials from Non-production process	1
1. RI Total			=	29
2. RM	Grupo A	RMA1	Group A.1 Biologic	1
		RMA2	Group A.2 Animals	1
		RMA3	Group A.3 Body part	1
		RMA4	Group A.4 Patient care etc	1
Medical		RMA5	Group A.5 Prions	1
waste	Grupo B	RMB1	Chemical etc	1
	Grupo C	RMC1	Radioactive waste	1
	Grupo D	RMD1	Common waste	1
	Grupo E	RME1	Piercing or Cutting	1
2. RM Total				9
3. RC	Classe A	RCA1	from construction, demolition, refitting and repair of pavement	1
	-	RCA2	from the construction, demolition refitting and repair of edifications: ceramic components	1
12 11 12		RCA3	from manufacturing and/or demolition process of concrete pre-modulated pieces	1
Consttuction	Classe B	RCB1	The recyclable waste for other purposes	1
waste	Classe C	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled	1
	Classe D	RCD1	Hazardous waste arisen from construction process, such as paints, solvents, oils and so forth	1
3. RC Total				6
Total geral				44

4.6.2 CONAMA's waste category table

Category	Туре	CONAMA code	Description
1. RI	RINP	A001	Residues of restaurant
		A002	Generated residues outside of the industrial process
		A003	Residues of varrição of plant
		A004	Ferrous metal scrap iron
		A005	Not ferrous metal scrap iron
		A006	Residues of paper and cardboard
		A007	Polymerized plastic residues of process
		A008	Rubber residues
		A009	Residues wooden I contend not toxic substances
Residuos	Residuos Industriais	A010	Residues of têxteis materials
Industriais	não perigosos	A011	Not metallic mineral residues
		A012	Slag of aluminum casting
		A013	Slag of iron production and steel
		A014	Slag of brass casting
		A015	Slag of zinc casting
		A016	Sand of casting
		A017	Refractory ceramic residues and material
		A018	Solid residues not toxic metal composites
		A019	Solid residues of stations of treatment of effluent I contend material biological not toxic

Type	CONAMA	Description
C. J. P.	A021	Solid residues of stations of treatment of effluent I contend not toxic substances
	A022	Pastosos residues of stations of treatment of effluent I contend not toxic substances
	A023	Pastosos residues I contend limy
	A024	Bagasse of sugar cane
	A025	Fibre glass
	A026	Slag of jateamento I contend not toxic substances
	A027	Used catalysers I contend not toxic substances
	A028	Residues of system of control of not toxic gaseous emission I contend substance
	A029	Other not dangerous residues
	A099	Salty shavings
	A104	Metallic packings
	A105	Not ferrous metal packings
	A107	Bombonas of plastic not contaminated
	A108	Etil acetate residues vinila
	A111	Leached ashes of boiler
	A117	Glass residues
	A199	Foam
	A204	Tambores metallic
	A207	Plastic films and small packings
	A208	Polyurethane residues (PU)
	A299	Calcadas shavings of skins
	A308	Silt of the caleiro
	A399	Atanado leather shavings, remnants
	A499	Carnaça
	A599	Residues organic of process
	A699	Rind of rice
	A799	Atanado leather Serragem, bran and dust
	A899	Generated residues outside of the industrial process (office, packings, etc.)
	A999	Residues of fruits
RIP	C001 C009	Listing 10 - dangerous residues for containing volatile components
	D001	Dangerous residues for presenting inflammability
	D002	Dangerous residues for presenting corrosively
	D003	Dangerous residues for presenting reactivity
	D004	Dangerous residues for presenting pathogenicity
		Listing 7 of Norm NBR 10004: dangerous residues characterized by the leaching tes
	D099	Other dangerous residues - to specify
	F001 F0101	Listing 1 of Norm NBR 10004- admittedly dangerous residues - Classroom 1, of
	F001 F0301	not-specific sources Bifenilas Policloradas - PCB's. Packings contaminated with PCBs also transforming
	F100	and capacitors
	F102	Residue of catalysers not specified in Norm NBR 10.004
		Deriving residue of industrial laboratories (chemical products) not specified in Norm
Residuos Industriai		NBR 10.004
perigosos	F104	Not specified contaminated empty packings in Norm NBR 10.004
	F105	Solvent contaminated (to specify solvent and the main contaminante)
	F130	Used lubricant oil
	F230	Hydraulic fluid
	F330	Cutting and hauling oil
	F430	Used contaminated oil in isolation or cooling
	F530	Oil wastes from the water-oil separating system
	Stomponikt	Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources
	K053	Remaining portions and you splodge of inks and pigments
	K078	Residue of cleanness with solvent in the manufacture of inks
	K081	Silt of ETE of the production of inks

Category	Туре	CONAMA	Description	No
		K194	Leather Serragem and dust I contend chromium	1
		K195	Silt of stations of treatment of effluent of tanning to chromium	1
		K203	Residues of laboratories of research of illnesses	1
		K207	It splodges of the used oil re-refining (it splodges acid)	1
		P001 P123	Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely	1
		U001_U246	Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	1
1. RI Total				77
2. RM	Grupo_A	RMA1	Group A.1 Biologic	1
		RMA2	Group A.2 Animals	1
		RMA3	Group A.3 Body part	1
		RMA4	Group A.4 Patient care etc	1
Residuos		RMA5	Group A.5 Prions	1
médicos	Grupo B	RMB1	Chemical etc	1
	Grupo C	RMC1	Radioactive waste	1
	Grupo D	RMD1	Common waste	1
	Grupo_E	RME1	Piercing or Cutting	1
2. RM Total				9
3. RC	Classe_A	RCA1	from construction, demolition, refitting and repair of pavement	1
	_	RCA2	from the construction, demolition refitting and repair of edifications: ceramic components	1
		RCA3	from manufacturing and/or demolition process of concrete pre-modulated pieces	1
Residuo de	Classe B	RCB1	The recyclable waste for other purposes	1
construção	Classe C	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled	1
	Classe_D	RCDI	Hazardous waste arisen from construction process, such as paints, solvents, oils and so forth	1
3. RC Total				6
Grand Total				92

4.6.3 Corresponding Waste category table JICA to CONAMA

Categ	Type		JICA code	CONAMA code		
ory		Code	Decription	Code	Decription	
1.RI	RINP	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)	A001	Residues of restaurant	
				A024	Bagasse of sugar cane	
				A499	Carnaça	
				A599	Residues organic of process	
				A699	Rind of rice	
				A999	Residues of fruits	
		NH02	Wood	A009	Residues wooden I contend not toxic substances	
		NH03	Paper	A006	Residues of paper and cardboard	
		NH04	Plastic or polymers and resins	A007	Polymerized plastic residues of process	
				A107	Bombonas of plastic not contaminated	
				A108	Etil acetate residues vinila	
				A207	Plastic films and small packings	
				A208	Polyurethane residues (PU)	
		NH05	Textile and fiber	A010	Residues of têxteis materials	
		NH06	Animal oil, Vegetable oil	Z999	?	
		NH07	Rubbers and Leather	A008	Rubber residues	
				A299	Caleadas shavings of skins	
				A399	Atanado leather shavings, remnants	
		NH08	Ash/dust from coal-fired power plants, etc.	A111	Leached ashes of boiler	
		NH09	Metals and metal alloys such as aluminum, copper, bronze	A004	Ferrous metal scrap iron	
				A005	Not ferrous metal scrap iron	
				A011	Not metallic mineral residues	
				A012	Slag of aluminum casting	
				A013	Slag of iron production and steel	

Categ	Type		JICA code		CONAMA code
ory		Code	Decription	Code	Decription
				A014	Slag of brass casting
				A015	Slag of zinc casting
				A016	Sand of casting
				A104	Metallic packings
				A105	Not ferrous metal packings
				A204	Tambores metallic
		NH10	Ceramic & Glasses	A017	Refractory ceramic residues and material
		INHIO	Ceramic & Giasses	A017 A025	
					Fibre glass
				A117	Glass residues
		_		A799	Atanado leather Serragem, bran and dust
		NH11	Stone, sand or material that have composition of soil such as tile, brick,	Z999	?
			gypsum, cement		
		NH12	Mixed waste (This code shall be applied in case wastes are discharged without separation.)	A002	Generated residues outside of the industrial proces
		NH13	Others	A003	Residues of varrição of plant
				A018	Solid residues not toxic metal composites
				A019	Solid residues of stations of treatment of effluent
				24012	contend material biological not toxic
				A021	Solid residues of stations of treatment of effluent
				AUZI	contend not toxic substances
				A022	Pastosos residues of stations of treatment of
				A022	effluent I contend not toxic substances
				A023	Pastosos residues I contend limy
				A026	Slag of jateamento I contend not toxic substances
				A027	Used catalysers I contend not toxic substances
				A028	Residues of system of control of not toxic gaseou emission I contend substance
				A029	Other not dangerous residues
				A099	Salty shavings
				A199	Foam
				A308	Silt of the calciro
				A899	Generated residues outside of the industrial proces
					(office, packings, etc.)
	RIP	HW01	Inorganic acid	D002	Dangerous residues for presenting corrosively
			ACTO ACM TOTAL PARTY.	D003	Dangerous residues for presenting reactivity
				K207	It splodges of the used oil re-refining (it splodges
					acid)
		HW02	Organic acid	D002	Dangerous residues for presenting corrosively
		HW02	Organic acid	D002	
		******	244		Dangerous residues for presenting reactivity
		HW03	Alkalis	D002	Dangerous residues for presenting corrosively
				D003	Dangerous residues for presenting reactivity
		HW04	Toxic Compounds	F001_F0301	Listing 1 of Norm NBR 10004- admittedly dangerous residues - Classroom 1, of not-specific sources
				F103	Deriving residue of industrial laboratories
					(chemical products) not specified in Norm NBR
					(chemical products) not specified in Norm NBR 10 004
				F130	10.004
				F130	10.004 Used lubricant oil
				F230	10.004 Used lubricant oil Hydraulic fluid
				F230 F330	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil
				F230 F330 F430	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling
				F230 F330 F430 F530	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system
				F230 F330 F430 F530	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly
				F230 F330 F430 F530 K001_K209	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources
				F230 F330 F430 F530 K001_K209	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004-admittedly dangerous residues of specific sources Shavings of leather tanned to chromium
				F230 F330 F430 F530 K001_K209	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources
				F230 F330 F430 F530 K001_K209	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources Shavings of leather tanned to chromium Leather Serragem and dus 1 contend chromium
				F230 F330 F430 F530 K001_K209 K193 K194	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources Shavings of leather tanned to chromium
		HW05	Inorganic Compounds	F230 F330 F430 F530 K001_K209 K193 K194 K195	10.004 Used lubricant oil Hydraulic fluid Cutting and hauling oil Used contaminated oil in isolation or cooling Oil wastes from the water-oil separating system Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources Shavings of leather tanned to chromium Leather Serragem and dust I contend chromium Silt of stations of treatment of effluent of tanning

Categ T	ype	JICA code		CONAMA code
огу	Code	Decription	Code	Decription
				characterized by the leaching test
	HW07	Organic Compounds	D003	Dangerous residues for presenting reactivity
			F001_F030	1 Listing 1 of Norm NBR 10004- admittedly
				dangerous residues - Classroom 1, of not-specific
				sources
			F100	Bifenilas Policloradas - PCB's. Packings
				contaminated with PCBs also transforming and
				capacitors
			F105	Solvent contaminated (to specify solvent and the
			****	main contaminante)
			F130	Used lubricant oil
			F230 F330	Hydraulic fluid
			F430	Cutting and hauling oil
			F530	Used contaminated oil in isolation or cooling
				Oil wastes from the water-oil separating system
			K001_K205	Listing 2 of Norm NBR 10004- admittedly dangerous residues of specific sources
			K053	Remaining portions and you splodge of inks and
			K055	pigments
			K078	Residue of cleanness with solvent in the
			K0/0	manufacture of inks
			K081	Silt of ETE of the production of inks
			P001 P123	
				residues for containing toxic substances acutely
	HW08	Polymeric Materials	D001	Dangerous residues for presenting inflammability
	HW09	Fuel, Oil and Grease	D001	Dangerous residues for presenting inflammability
		3.337, 3.1. 3.1. 3.1.	K207	It splodges of the used oil re-refining (it splodges
				acid)
	HW10	Fine Chemicals and Biocides	D001	Dangerous residues for presenting inflammability
			D004	Dangerous residues for presenting pathogenicity
			D005 D029	Listing 7 of Norm NBR 10004: dangerous residues
				characterized by the leaching test
			F103	Deriving residue of industrial laboratories
				(chemical products) not specified in Norm NBR
				10.004
	-		K203	Residues of laboratories of research of illnesses
	HW11	Treatment Sludge	D005_D029	Listing 7 of Norm NBR 10004: dangerous residues
			20701	characterized by the leaching test
			K081	Silt of ETE of the production of inks
	HW12	Ash from incinerator	Z999	?
	HW13	Dust and Air pollution control (APC)	Z999	?
		products		
	HW14	Other Hazardous substance (besides	C001_C009	
		HW01-HW13)	D.004	volatile components
			D001	Dangerous residues for presenting inflammability
			D004 D099	Dangerous residues for presenting pathogenicity
			F102	Other dangerous residues - to specify Residue of catalysers not specified in Norm NBR
			1102	10.004
			F104	Not specified contaminated empty packings in
			1104	Norm NBR 10.004
			U001 U246	
			0001_0240	for containing toxic substances
	HW15	Mixed Waste	Z999	?
	HW16	Hazardous materials from Non-production	Z999	?
2. RC Cla	ssc_RCA1	process from construction, demolition, refitting and	RCA1	from construction, demolition, refitting and repair
A		repair of pavement		of pavement
	RCA2	from the construction, demolition refitting	RCA2	from the construction, demolition refitting and
		and repair of edifications: ceramic		repair of edifications: ceramic components
	_	components	100000000000000000000000000000000000000	32.00
	RCA3	from manufacturing and/or demolition	RCA3	from manufacturing and/or demolition process of
		process of concrete pre-modulated pieces		concrete pre-modulated pieces

Categ	Type		JICA code		CONAMA code
огу		Code	Decription	Code	Decription
	Classe_ B	RCB1	The recyclable waste for other purposes	RCB1	The recyclable waste for other purposes
	Classe_ C	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled
	Classe_ D	RCD1	Hazardous waste arisen from construction process, such as paints, solvents, oils and so forth	RCDI	Hazardous waste arisen from construction process, such as paints, solvents, oils and so forth
3. RM	Grupo_ A	RMA1	Group A.1 Biologic	RMA1	Group A.1 Biologic
		RMA2	Group A.2 Animals	RMA2	Group A.2 Animals
		RMA3	Group A.3 Body part	RMA3	Group A.3 Body part
		RMA4	Group A.4 Patient care etc	RMA4	Group A.4 Patient care etc
		RMA5	Group A.5 Prions	RMA5	Group A.5 Prions
	Grupo_ B	RMB1	Chemical etc	RMB1	Chemical etc
	Grupo_	RMC1	Radioactive waste	RMC1	Radioactive waste
	Grupo_ D	RMD1	Common waste	RMD1	Common waste
	Grupo_ E	RME1	Piercing or Cutting	RME1	Piercing or Cutting

4.6.4 Corresponding waste category table CONAMA to JICA

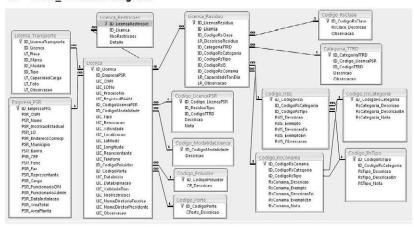
Cate	Type		CONAMA code		JICA code		
gory		Code	Decription	Code	Decription		
. RI	RINP	A001	Residues of restaurant	NH01	Kitchen waste (include waste from animal such as bone, skin, hair)		
		A002	Generated residues outside of the industrial process	NH12	Mixed waste (This code shall be applied in cas wastes are discharged without separation.)		
		A003	Residues of varrição of plant	NH13	Others		
		A004	Ferrous metal scrap iron	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A005	Not ferrous metal scrap iron	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A006	Residues of paper and cardboard	NH03	Paper		
		A007	Polymerized plastic residues of process	NH04	Plastic or polymers and resins		
		A008	Rubber residues	NH07	Rubbers and Leather		
		A009	Residues wooden I contend not toxic substances	NH02	Wood		
		A010	Residues of têxteis materials	NH05	Textile and fiber		
		A011	Not metallic mineral residues	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A012	Slag of aluminum casting	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A013	Slag of iron production and steel	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A014	Slag of brass casting	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A015	Slag of zinc casting	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A016	Sand of casting	NH09	Metals and metal alloys such as aluminum, copper, bronze		
		A017	Refractory ceramic residues and material	NH10	Ceramic & Glasses		
		A018	Solid residues not toxic metal composites	NH13	Others		
		A019	Solid residues of stations of treatment of effluent I contend material biological not toxic	NH13	Others		
		A021	Solid residues of stations of treatment of effluent I contend not toxic substances	NH13	Others		
		A022	Pastosos residues of stations of treatment of effluent I contend not toxic substances	NH13	Others		

te T	ype		CONAMA code	JICA code			
у	*	Code	Decription	Code	Decription		
		A023	Pastosos residues I contend limy	NH13	Others		
	5	A024	Bagasse of sugar cane	NH01	Kitchen waste (include waste from animal suc		
	2	2000000	STO AND THE SECRET OF THE PROPERTY OF	The section of	as bone, skin, hair)		
	- 3	A025	Fibre glass	NH10	Ceramic & Glasses		
	- 1	A026	Slag of jateamento I contend not toxic	NH13	Others		
	_	substances A027 Used catalysers I contend not toxic					
					Others		
	-		substances		V-70-000		
		A028	Residues of system of control of not toxic	NH13	Others		
	-	A029	gaseous emission I contend substance Other not dangerous residues	NH13	Others		
		A029 A099	Salty shavings	NH13	Others		
		A104	Metallic packings	NH09	Metals and metal alloys such as aluminum,		
	34	A104	Metalife packings	NITOS	copper, bronze		
	1	A105	Not ferrous metal packings	NH09	Metals and metal alloys such as aluminum,		
		AIVS	Not terrous metal packings	111102	copper, bronze		
	7	A107	Bombonas of plastic not contaminated	NH04	Plastic or polymers and resins		
		A108	Etil acetate residues vinila	NH04	Plastic or polymers and resins		
		A111	Leached ashes of boiler	NH08	Ash/dust from coal-fired power plants, etc.		
		A117	Glass residues	NH10	Ceramic & Glasses		
		A199	Foam	NH13	Others		
		A204	Tambores metallic	NH09	Metals and metal alloys such as aluminum,		
		90001000	Control of the Contro	1990.50 00.5	copper, bronze		
		A207	Plastic films and small packings	NH04	Plastic or polymers and resins		
		A208	Polyurethane residues (PU)	NH04	Plastic or polymers and resins		
	_	A299	Caleadas shavings of skins	NH07	Rubbers and Leather		
		A308	Silt of the caleiro	NH13	Others		
	_	A399	Atanado leather shavings, remnants	NH07	Rubbers and Leather		
	0	A499	Carnaça	NH01	Kitchen waste (include waste from animal su		
	_	William .			as bone, skin, hair)		
	- 9	A599	Residues organic of process	NH01	Kitchen waste (include waste from animal su- as bone, skin, hair)		
	-	A699	Rind of rice	NH01	Kitchen waste (include waste from animal su		
		A099	Killd of fice	NIIOI	as bone, skin, hair)		
	- 6	A799	Atanado leather Serragem, bran and dust	NH10	Ceramic & Glasses		
		A899	Generated residues outside of the industrial	NH13	Others		
	- 13	4077	process (office, packings, etc.)	Idilio	ones		
	-	A999	Residues of fruits	NH01	Kitchen waste (include waste from animal su		
			V	0.0000000000000000000000000000000000000	as bone, skin, hair)		
	7	Z999	?	NH06	Animal oil, Vegetable oil		
				NH11	Stone, sand or material that have composition		
					soil such as tile, brick, gypsum, cement		
RII	Ρ (C001_C009	Listing 10 - dangerous residues for	HW14	Other Hazardous substance (besides		
	=		containing volatile components		HW01-HW13)		
	1	D001	Dangerous residues for presenting	HW08	Polymeric Materials		
			inflammability				
				HW09 HW10	Fuel, Oil and Grease Fine Chemicals and Biocides		
				HW14	Other Hazardous substance (besides		
				AW14	HW01-HW13)		
	7	D002	Dangerous residues for presenting	HW01	Inorganic acid		
		2002	corrosively	111101	morganic acid		
				HW02	Organic acid		
				HW03	Alkalis		
	1	D003	Dangerous residues for presenting reactivity		Inorganic acid		
		2004 (TS)		HW02	Organic acid		
				HW03	Alkalis		
				HW07	Organic Compounds		
	1	D004	Dangerous residues for presenting	HW10	Fine Chemicals and Biocides		
			pathogenicity		area to the control of the state of the stat		
				HW14	Other Hazardous substance (besides		
					HW01-HW13)		

Type	4	CONAMA code		JICA code
	Code	Decription	Code	Decription
	D005_D029	Listing 7 of Norm NBR 10004: dangerous	HW05	Inorganic Compounds
		residues characterized by the leaching test		
			HW06	Other Inorganic
			HW10	Fine Chemicals and Biocides
			HW11	Treatment Sludge
	D099	Other dangerous residues - to specify	HW14	Other Hazardous substance (besides
				HW01-HW13)
	F001 F0301	Listing 1 of Norm NBR 10004- admittedly	HW04	Toxic Compounds
		dangerous residues - Classroom 1, of		Tome composition
		not-specific sources		
		not specific sources	HW07	Organic Compounds
	F100	Bifenilas Policloradas - PCB's. Packings	HW07	Organic Compounds
	1100	contaminated with PCBs also transforming	111107	Organic Compounds
		and capacitors		
	T14.05		******	or war to the day
	F102	Residue of catalysers not specified in Norm	HW14	Other Hazardous substance (besides
	Total Control	NBR 10.004		HW01-HW13)
	F103	Deriving residue of industrial laboratories	HW04	Toxic Compounds
		(chemical products) not specified in Norm		
		NBR 10.004		
			HW10	Fine Chemicals and Biocides
	F104	Not specified contaminated empty packings	HW14	Other Hazardous substance (besides
		in Norm NBR 10.004		HW01-HW13)
	F105	Solvent contaminated (to specify solvent and	HW07	Organic Compounds
		the main contaminante)		8
	F130	Used lubricant oil	HW04	Toxic Compounds
	1100	O Sea Identical Con	HW07	Organic Compounds
	F230	Hydraulic fluid	HW04	Toxic Compounds
	F230	riyuladile ildid		
	-	AND	HW07	Organic Compounds
	F330	Cutting and hauling oil	HW04	Toxic Compounds
			HW07	Organic Compounds
	F430	Used contaminated oil in isolation or cooling		Toxic Compounds
	97		HW07	Organic Compounds
	F530	Oil wastes from the water-oil separating	HW04	Toxic Compounds
		system		
			HW07	Organic Compounds
	K001_K209	Listing 2 of Norm NBR 10004- admittedly	HW04	Toxic Compounds
	D-1/1-1-10-10-10-10-10-10-10-10-10-10-10-10-	dangerous residues of specific sources		
		TO SERVICE STATE OF SERVICE STATE OF SERVICE STATE STATE OF SERVICE STATE STATE OF SERVICE STATE STATE OF SERVICE STATE	HW07	Organic Compounds
	K053	Remaining portions and you splodge of inks	HW07	Organic Compounds
		and pigments		anguine a uniformia
	K078	Residue of cleanness with solvent in the	HW07	Organic Compounds
	KU/0	manufacture of inks	IIW0/	Organic Compounds
	Troot		TTITION	
	K081	Silt of ETE of the production of inks	HW07	Organic Compounds
	774.02	al : Ol II : II I	HW11	Treatment Sludge
	K193	Shavings of leather tanned to chromium	HW04	Toxic Compounds
	K194	Leather Serragem and dust I contend	HW04	Toxic Compounds
	1946	chromium		
	K195	Silt of stations of treatment of effluent of	HW04	Toxic Compounds
		tanning to chromium		
		taining to unomum		Fire Chaminals and Dissides
	K203	Residues of laboratories of research of	HW10	Fine Chemicals and Biocides
	K203		HW10	Fine Chemicals and Biocides
	K203	Residues of laboratories of research of illnesses		
		Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it	HW10 HW01	Inorganic acid
		Residues of laboratories of research of illnesses	HW01	Inorganic acid
	K207	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid)	HW01 HW09	Inorganic acid Fuel, Oil and Grease
		Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous	HW01	Inorganic acid
	K207	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances	HW01 HW09	Inorganic acid Fuel, Oil and Grease
	K207 P001_P123	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely	HW01 HW09 HW07	Inorganic acid Fuel, Oil and Grease Organic Compounds
	K207	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely Listing 6 of Norm NBR 10004- dangerous	HW01 HW09	Inorganic acid Fuel, Oil and Grease Organic Compounds Other Hazardous substance (besides
	K207 P001_P123 U001_U246	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely	HW01 HW09 HW07	Inorganic acid Fuel, Oil and Grease Organic Compounds
	K207 P001_P123	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely Listing 6 of Norm NBR 10004- dangerous	HW01 HW09 HW07	Inorganic acid Fuel, Oil and Grease Organic Compounds Other Hazardous substance (besides
	K207 P001_P123 U001_U246	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	HW01 HW09 HW07	Inorganic acid Fuel, Oil and Grease Organic Compounds Other Hazardous substance (besides HW01-HW13) Ash from incinerator
	K207 P001_P123 U001_U246	Residues of laboratories of research of illnesses It splodges of the used oil re-refining (it splodges acid) Listing 5 of Norm NBR 10004 - dangerous residues for containing toxic substances acutely Listing 6 of Norm NBR 10004- dangerous residues for containing toxic substances	HW01 HW09 HW07 HW14	Inorganic acid Fuel, Oil and Grease Organic Compounds Other Hazardous substance (besides HW01-HW13)

Cate	Туре		CONAMA code		JICA code
gory		Code	Decription	Code	Decription
					process
2. RC	Classe_ A	RCA1	from construction, demolition, refitting and repair of pavement	RCA1	from construction, demolition, refitting and repair of pavement
		RCA2	from the construction, demolition refitting and repair of edifications: ceramic components	RCA2	from the construction, demolition refitting and repair of edifications: ceramic components
		RCA3	from manufacturing and/or demolition process of concrete pre-modulated pieces	RCA3	from manufacturing and/or demolition process of concrete pre-modulated pieces
	Classe_ B	RCB1	The recyclable waste for other purposes	RCB1	The recyclable waste for other purposes
	Classe_ C	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled	RCC1	Waste which has no economically feasible technology or applications which may allow it to be recycled
	Classe	RCD1	Hazardous waste arisen from construction	RCD1	Hazardous waste arisen from construction
	D		process, such as paints, solvents, oils and so forth		process, such as paints, solvents, oils and so forth
3. RM	Grupo_ A	RMA1	Group A.1 Biologic	RMA1	Group A.1 Biologic
		RMA2	Group A.2 Animals	RMA2	Group A.2 Animals
		RMA3	Group A.3 Body part	RMA3	Group A.3 Body part
		RMA4	Group A.4 Patient care etc	RMA4	Group A.4 Patient care etc
		RMA5	Group A.5 Prions	RMA5	Group A.5 Prions
	Grupo_ B	RMB1	Chemical etc	RMB1	Chemical etc
	Grupo_ C	RMC1	Radioactive waste	RMC1	Radioactive waste
	Grupo_ D	RMD1	Common waste	RMD1	Common waste
	Gnipo_ E	RME1	Piercing or Cutting	RME1	Piercing or Cutting

4.7 WSC_DB tables diagram



4.7.1 Table structure

Table: Categoria TTRD

Name	Type	Size
ID CategoriaTTRD	Text	3
ID Codigo LicencaPSR	Text	4
ID CodigoTTRD	Text	2
Descrição	Text	80
Observação	Text	50

Table: Codigo LicencaPSR

Name	Type	Size
ID Codigo LicencaPSR	Text	4
ID ResiduoTipo	Text	3
ID CodigoTTRD	Text	2
Descricao	Text	100
Nota	Text	50

Table: Codigo_ModalidaLicenca

Name	Type	Size
ID CodigoModalidade	Text	2
Descricao	Text	25

Table: Codigo Poluidor		
Name	Type	Size
ID CodigoPoluidor	Text	1
CP Descrição	Tevt	20

Table: Codigo_Porte

Name	Type	Size
ID CodigoPorte	Text	1
CPorte Descrição	Text	20

Table: Codigo RsCategoria

Name	Type	Size
ID CodigoRsCategoria	Text	4
RsCategoria Descricao	Text	50
RsCategoria DescricaoEn	Text	50
RsCategoria_Nota	Memo	-

Table: Codigo_RsClase

Name	Type	Size
ID CodigoRsClase	Text	4
RsClase Descricao	Text	100
Observação	Memo	-

Table: Codigo_RsConama

Name	Type	Size
ID CodigoRsConama	Text	10
ID CodigoRsCategoria	Text	4
ID CodigoRsTipo	Text	10
RsConama Descricao	Text	100
RsConama Exemplo	Memo	-
RsConama DescricaoEn	Text	100
RsConama ExemploEn	Memo	-
RsConama Nota	Memo	-

Table: Codigo_RsConamaIS

Name	Type	Size
ID RsConamaIS	Long Integer	4
ID CodigoRsCategoria	Text	4
ID CodigoRsTipo	Text	10
ID CodigoRsIS	Text	4
ID CodigoRSConama	Text	10
ConamaIS Obs	Memo	

Table: Codigo_RsIS

Name	Type	Size
ID CodigoRsIS	Text	4
ID CodigoRsCategoria	Text	4

ID CodigoRsTipo	Text	10
RsIS Descricao	Text	100
RsIS Exemplo	Memo	-
RsIS DescricaoEn	Text	100
RsIS ExemploEn	Memo	-
RsIS Observação	Memo	-

Table: Codigo RsTipo

Name	Type	Size
ID CodigoRsTipo	Text	10
ID CodigoRsCategoria	Text	4
RsTipo Descricao	Text	50
RsTipo DescricaoEn	Text	50
RSTipo Nota	Memo	-

Table: Codigo TTRD

Name	Type	Size
ID_CodigoTTRD	Text	2
CodigoTRRD Descricao	Text	20

Name	Type	Size
ID EmpresaPRS	Long Integer	4
PSR CNPJ	Text	20
PSR Nome	Text	100
PSR InscricaoEstadual	Text	15
PSR LO	Text	1
PSR EnderecoCorresp	Text	100
PSR Municipio	Text	50
PSR Bairro	Text	50
PSR CEP	Text	25
PSR Fone	Text	50
PSR Fax	Text	50
PSR Representante	Text	25
PSR Cargo	Text	25
PSR cmail	Text	100
PSR FuncionarioOM	Long Integer	4
PSR FuncionarioAdmin	Long Integer	4
PSR DataInstalacao	Date/Time	- 8
PSR AreaTotal	Long Integer	4
PSR AreaPlanta	Long Integer	4

Table: Licenca

Name	Type	Size	
ID Licenca	Long Integer	4	
ID EmpresaPSR	Long Integer	4	
LIC CNPJ	Text	20	
LIC LONo	Text	15	
LIC ProcesoNo	Text	15	
LIC RegistroIPAAM	Text	10	
ID CodigoLicencaPSR	Text	4	
ID CodigoModalidade	Text	2	
LIC Tipo	Text	15	
LIC Renovacao	Text	30	
LIC Actividade	Text	50	
LIC Localização	Text	100	
LIC Latitude	Text	20	
LIC_Longitude	Text	2.0	
LIC Representante	Text	50	
LIC Telefone	Text	50	
ID CodigoPoluidor	Text	1	
ID CodigoPorte	Text	1	
LIC DataInicio	Date/Time	8	
LIC DataExpiracao	Date/Time	8	
LIC ValidadeDias	Long Integer	4	
LIC NroRestricoes	Long Integer	4	
LIC NomeDiretoriaTecnica	Text	50	
LIC NomeDiretorPresidente	Text	50	
LIC Observação	Memo	-	

Table: Licenca Residuo

Name	Type	Size
ID LicencaResiduo	Long Integer	4
ID Licenca	Long Integer	4
ID CodigoRsClase	Text	4
LR DescricaoResiduo	Text	100
ID CategoriaTTRD	Text	255
ID CodigoRsCategoria	Text	4
ID CodigoRsTipo	Text	4
ID CodigoRsIS	Text	4
ID_CodigoRsConama	Text	4
LR CapacidadeTonDia	Long Integer	4
LR Observação	Memo	

Table: Licenca Restricoes

Name	Type	Size
ID LicencaRestricoes	Long Integer	4
ID Licenca	Long Integer	4
NroRestricoes	Integer	2
Detalle	Text	100

Table: Licenca Transporte

Name	Type	Size
ID LicencaTransporte	Long Integer	4
ID Licenca	Long Integer	4
LT Placa	Text	15
ID Marca	Long Integer	4
ID Modelo	Long Integer	4
ID Tipo	Long Integer	4
LT CapacidadCarga	Text	2.5
LT Foto	Anchor	
LT Observação	Text	50