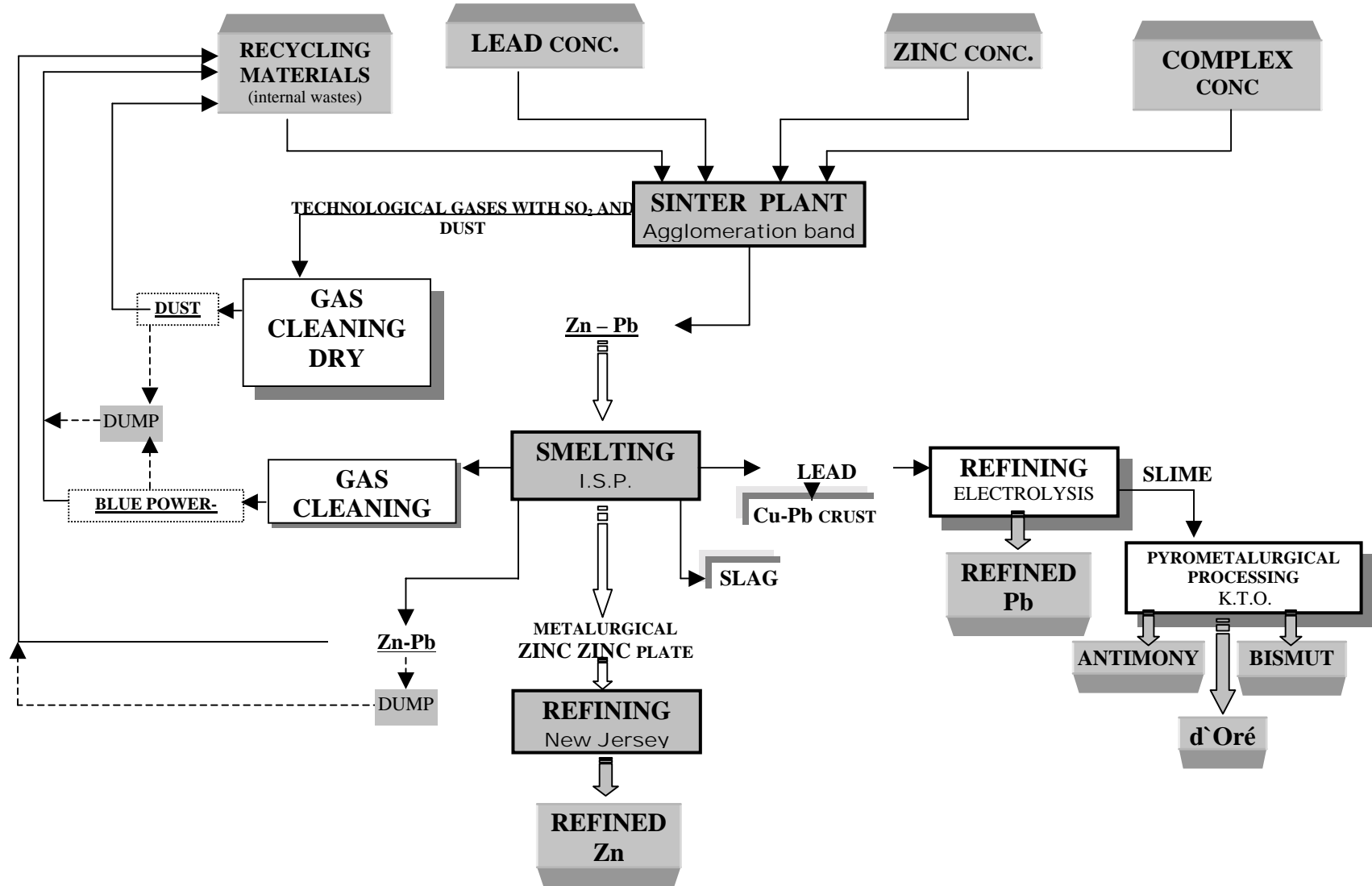
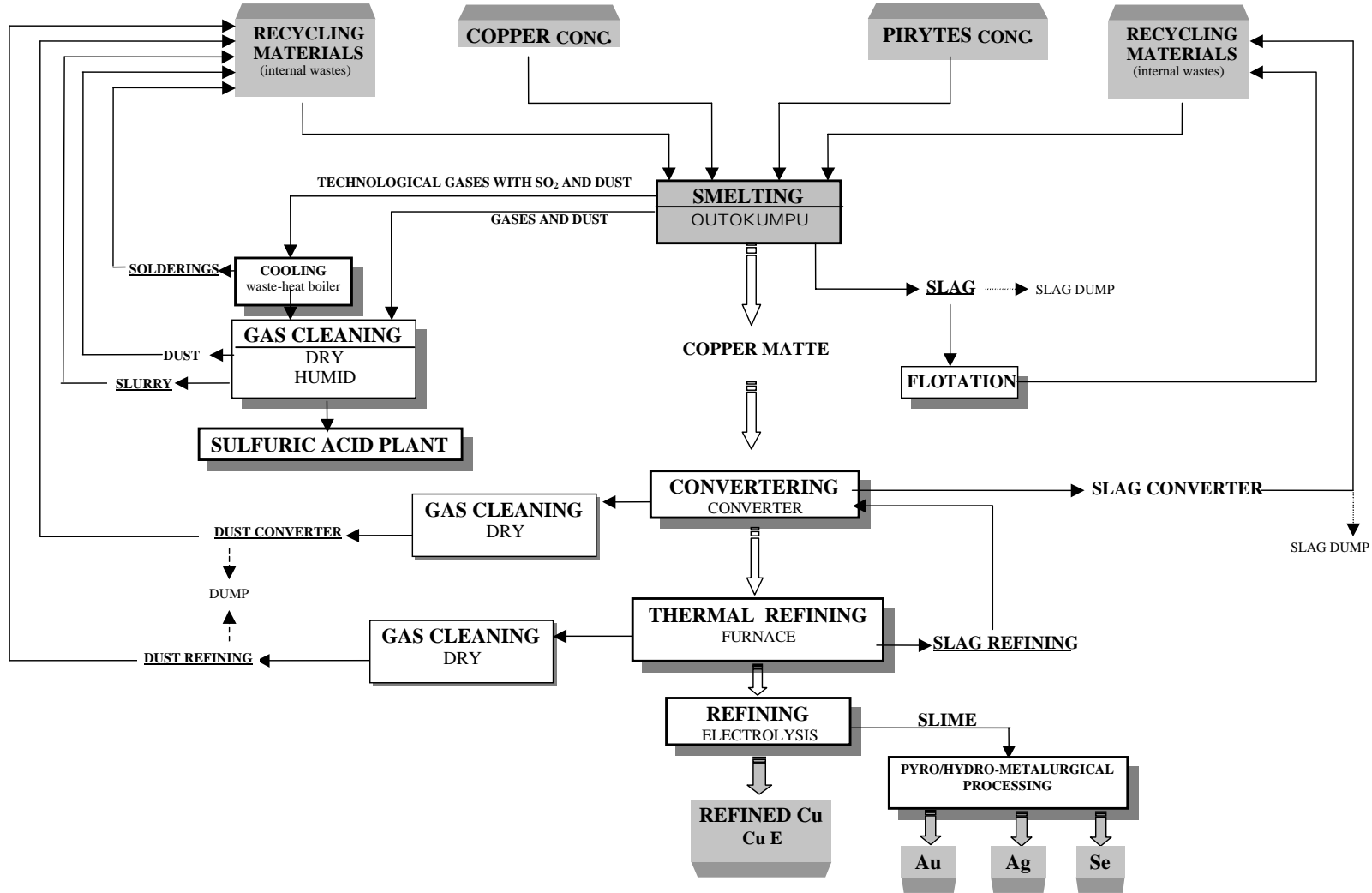


ANNEX I SCHEMATIC FLOWSHEET - SOMETRA S.A. Copșa Mica

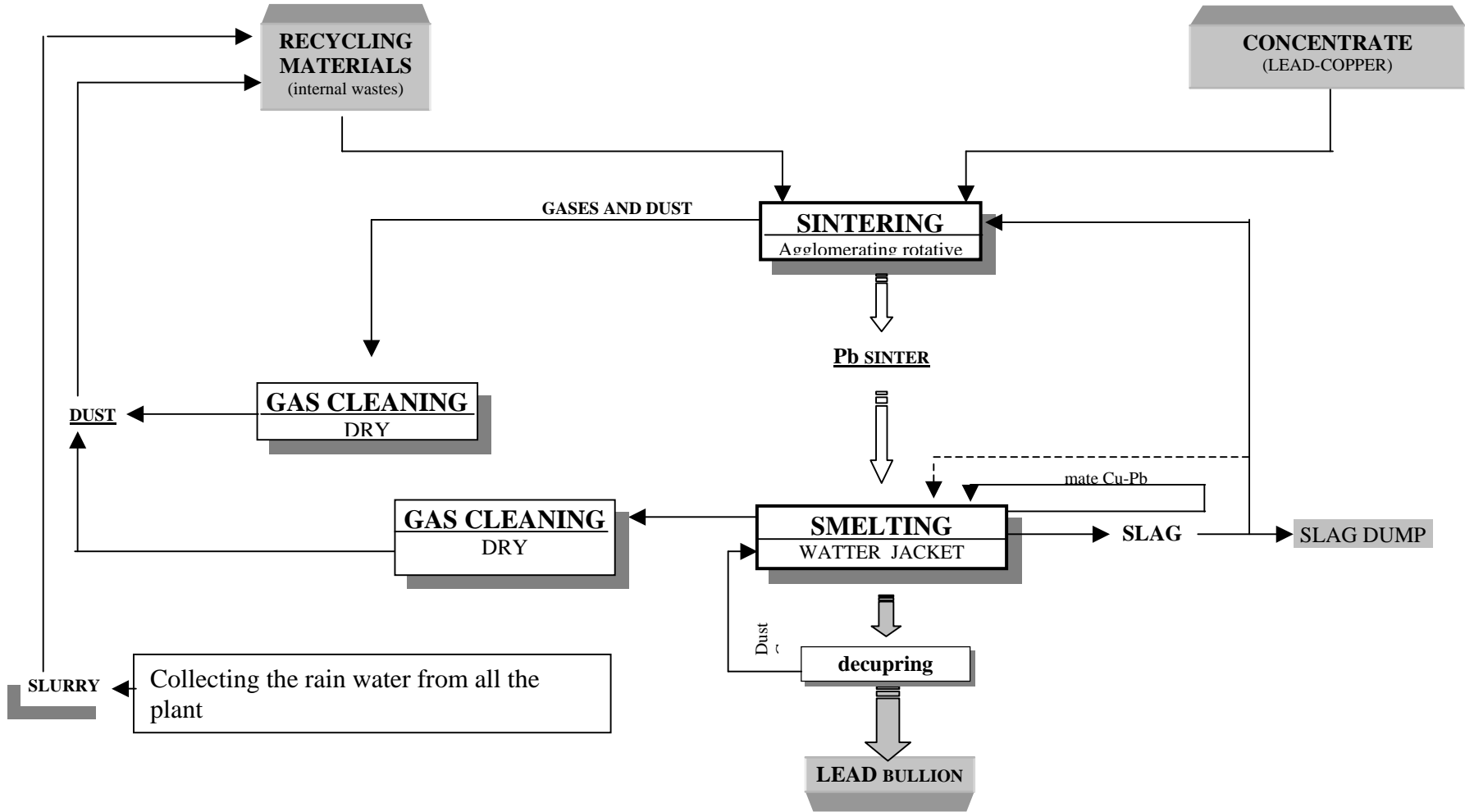


ANNEX II SCHEMATIC FLOWSHEET - R.B.G. PHOENIX S.A. Baia Mare

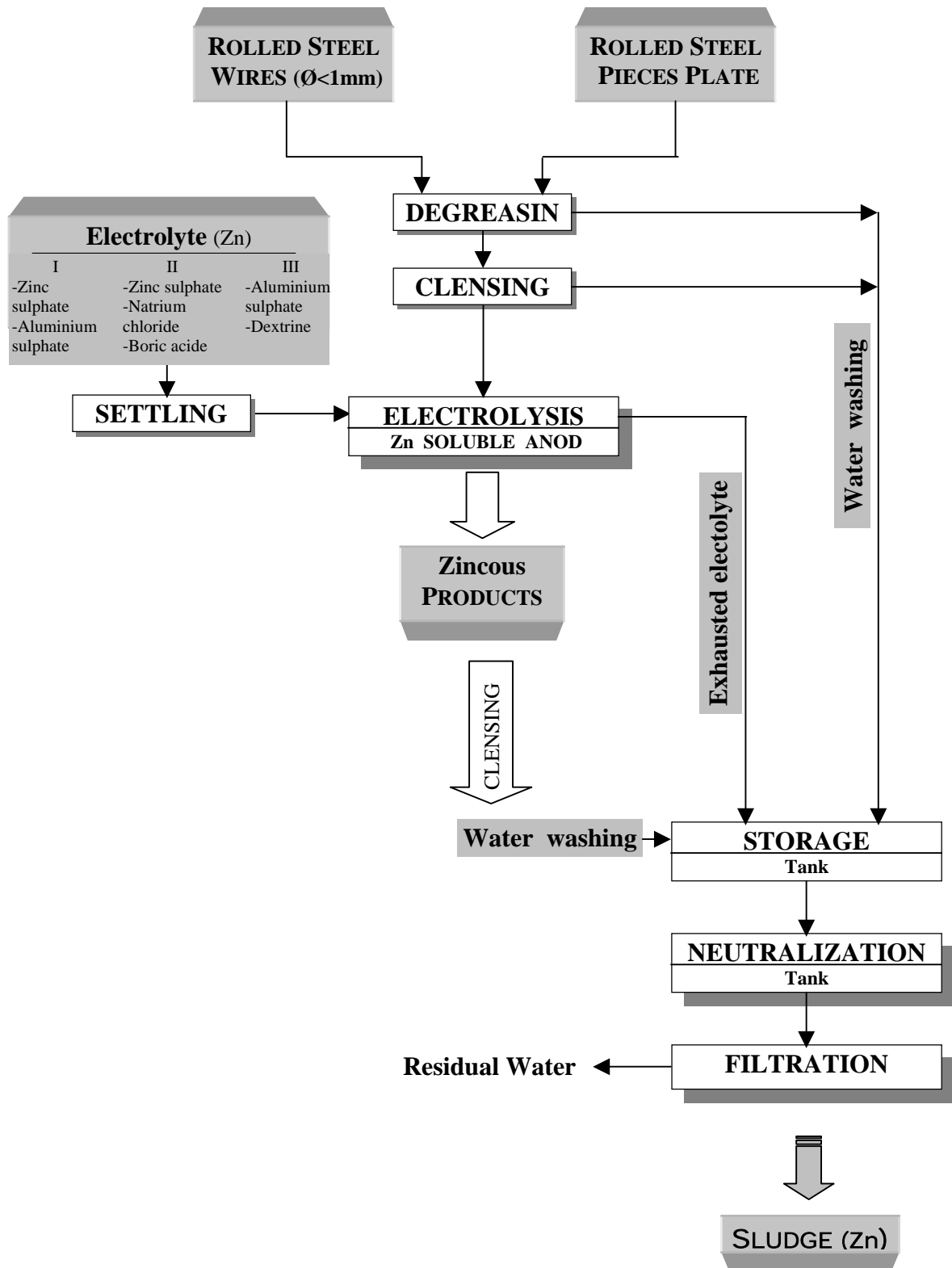


ANNEX III SCHEMATIC FLOWSHEET - S.C. ROMPLUMB S.A. Baia Mare

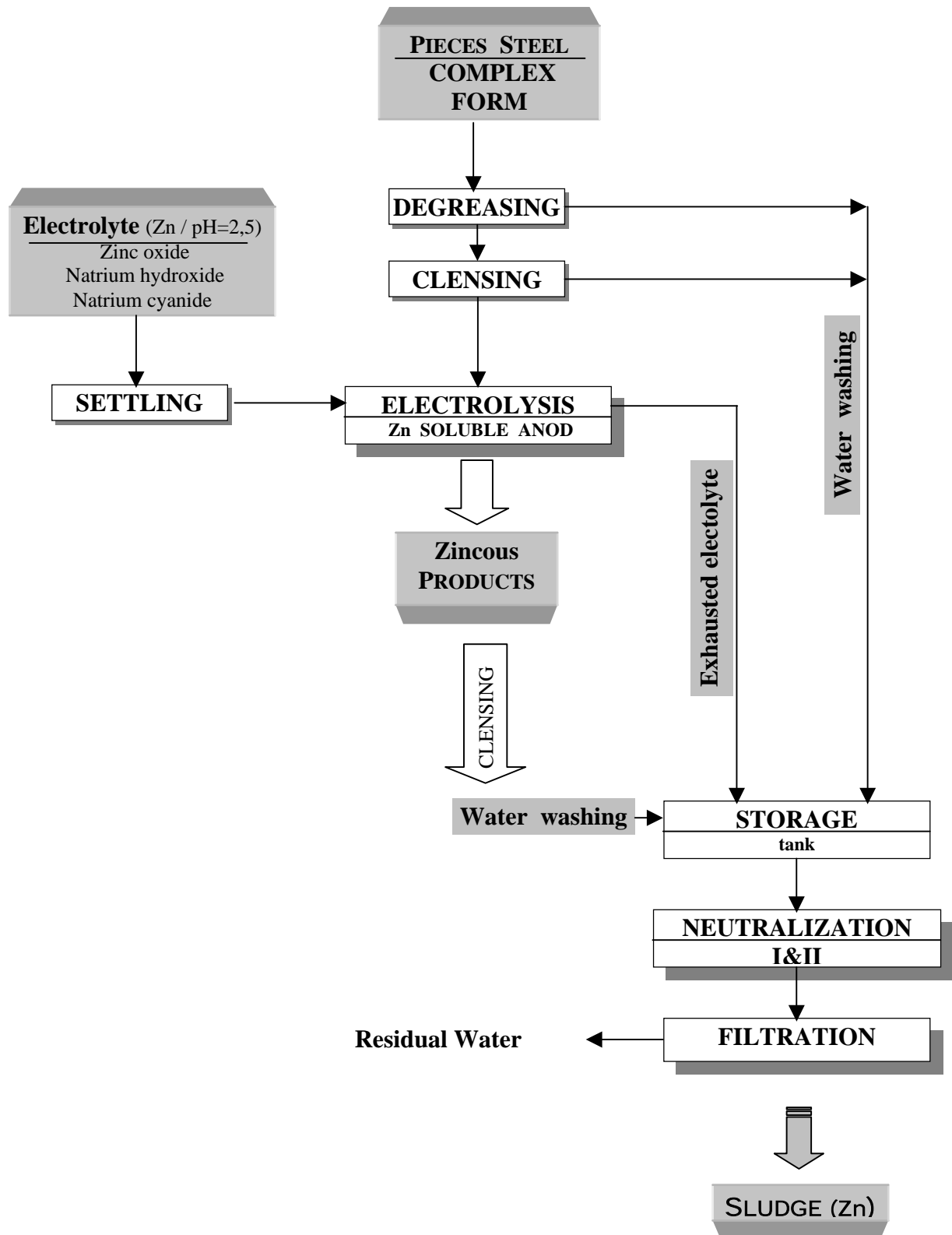
2-33



ANNEX IV SCHEMATIC FLOWSHEET - GALVANIZATION

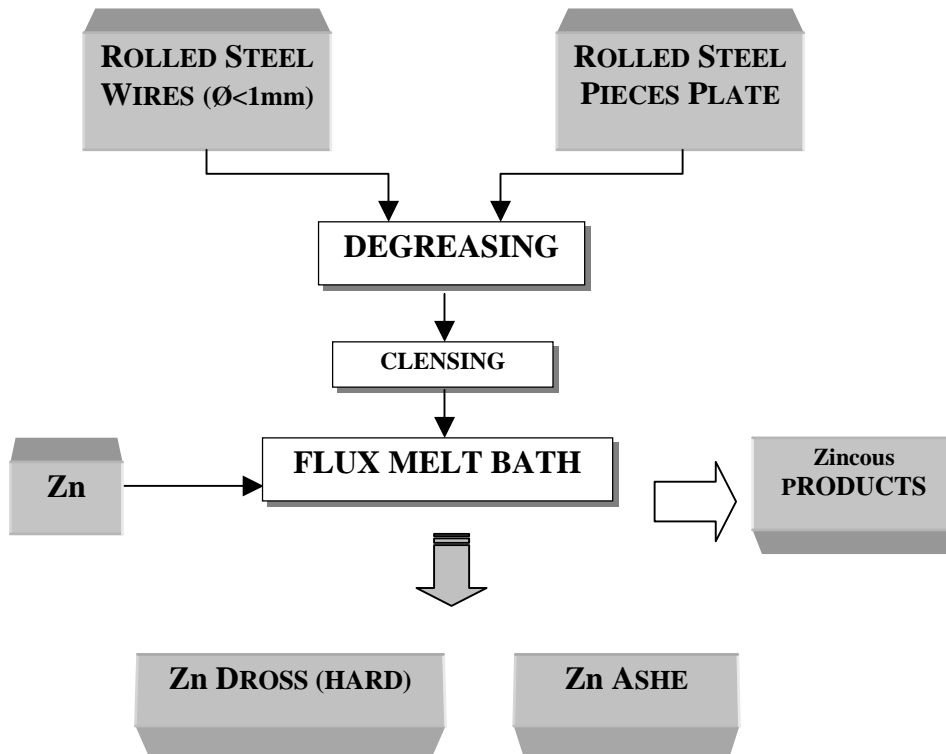


ANNEX V SCHEMATIC FLOWSHEET - GALVANIZATION

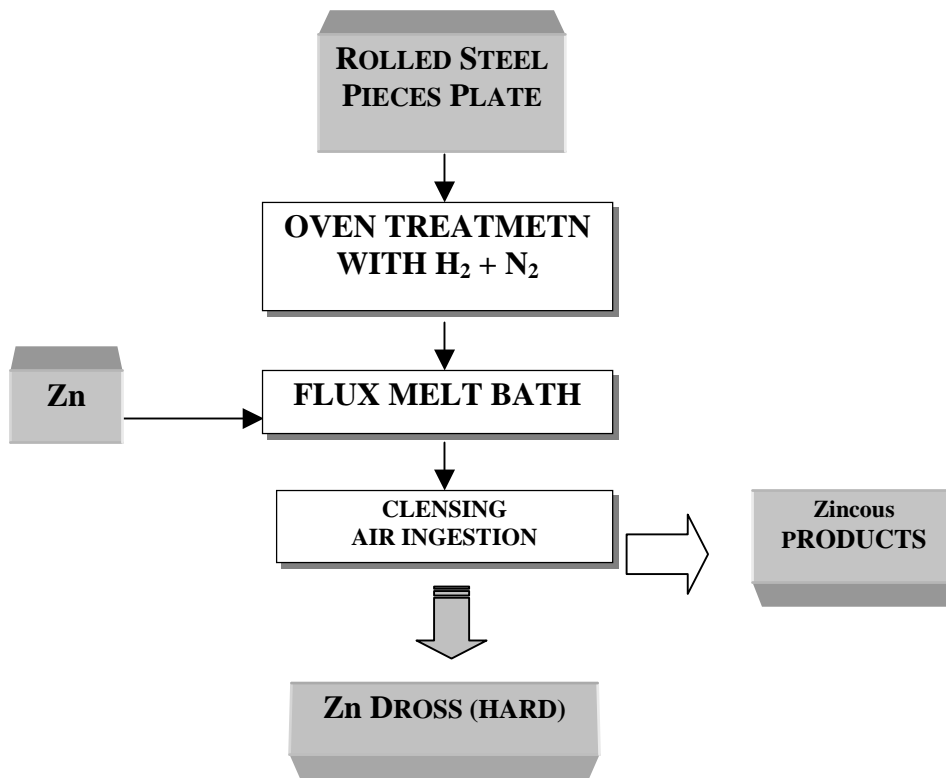


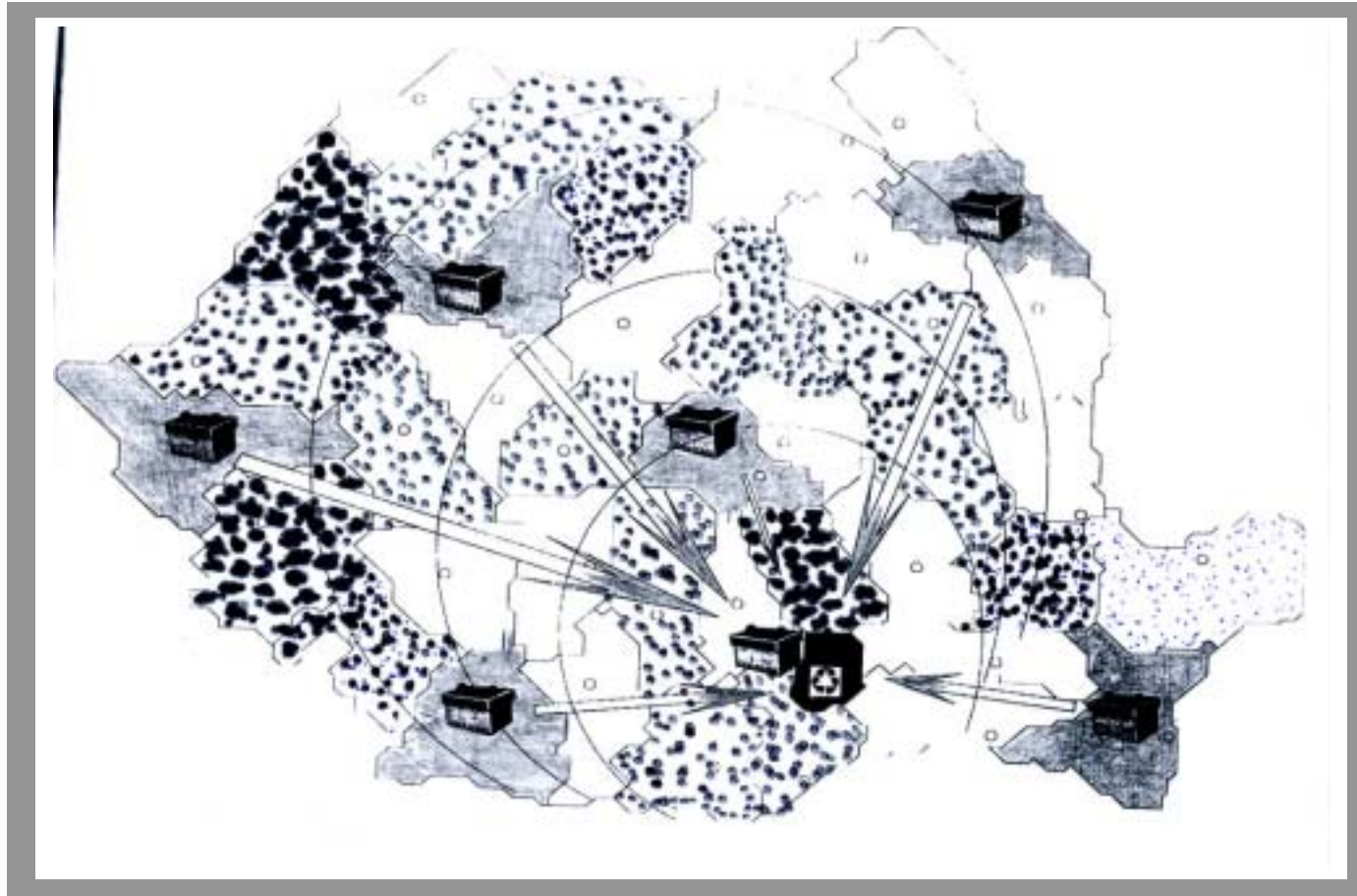
ANNEX VI SCHEMATIC FLOWSHEET

a) DISCONTINUOUS



b) CONTINUOUS





ANNEX VII COLLECTED USED BATTERY - ROMANIA



**ANNEX VIII PILOT PROJECT:
“PROMOTION OF HEAVY METAL RECYCLING USING SMELTING FACILITY „**

Result of identification of target waste

	Name of company	Target of the wastes	Name of the wastes	Amount of generation of the wastes	Amount of deposit of the wastes	Amount of samples for test
		Zn / Pb / Cu / Fe, (%)		ton/year	ton	Kg/ton (kg)
1	SOMETRA S.A.	29.55%Zn; 40.99%Pb; 0.26%Cu; 3.01%Fe; 2.89%S; 9.2%H ₂ O (0.026%B; 0.056%Sb; 0.1%Cd; 0.12As ; 0.069Sn ; 6.43 SiO ₂ ;2.82%CaO)	Zn-Pb drosses	-	8 602	(1)
		21.46%Zn; 39.76%Pb; 0.39%Cu; 4.32%FeO; 11.45%S; 25%H ₂ O	Blue Powder	-	7 066	(1)
		27.98%Zn; 17.56%Pb; 1.26%Cu; 8.08%Fe; 1.79%S; 3%H ₂ O	Agglomerating Dust	-	12 367	(0,5)
		6.5%Zn; 1.12%Pb; 0.6%Cu; -%Fe; -%S	Slag	-	29 031	(1)
		1.25%Zn; 46.23%Pb; 18.39%Cu; 2.02%Fe; 1.3%S (2.5%Sb; 0.1%B; 1.2%As)	Cu-Pb drosses	-	2 986	(0.5)
		0.8%Zn; 2.2%Pb; 0.086%Cu;	Sludge S.E.N.A.E.	-	10 570	(0.5)

2	PROGRESUL S.A.	74.3%Zn ; 1.72%Pb ; 0.27%Cu ; 0.5%Fe; -%S	Zn dross	3	6	0,1
		77.8%Zn ; 6.27%Pb ; 1.52%Cu ; 1.52%Fe; -%S	Zn ashes	1	3	0,05
		72.45%Zn; 12%Pb; 0.72Cu; 1.6%Fe; -%S	Zn dross-conicle	1,5	4	0,05
3	CELPI S.A.	77.8%Zn ; 6.27%Pb ; 1.52%Cu ; 1.52%Fe; -%S	Zn ashes	3	5	0,1
4	BICAPA S.A	77.4%Zn ; 1.85%Pb ; 0.53%Cu ; 0.85%Fe; -%S	Zn dross	5	8	0,1
		77.9%Zn ; 8.12%Pb ; 1.82%Cu ; 1.22%Fe; -%S	Zn ashes	3	5	0,1
		25.0%Zn; 2.26%Pb; 0.42%Cu; 2.26%Fe; -%S	Zn dross-conicle	4	7	0,1
5	DUCTIL S.A.	9.15%Zn; 0.46%Pb; 1.22%Cu; 15.56%Fe; -%S; (1.5%Cd)	sludge	2	5	0,1
6	Santiere Navale Constanta	10.25%Zn; 0.26%Pb; 0.92%Cu; 20.56%Fe; -%S; (3.5%Cd)	sludge	3	5	0,1
7	Santiere Navale Mangalia	12.55%Zn; 0.09%Pb; 0.90%Cu; 23.06%Fe; -%S; (1.13%Cd)	sludge	2	4	0,1

8	S.C. IND. Sarnei S.A.	88%Zn ; 7.2%Pb; 0.4%Cu ; 3.1%Fe ; -%S	Zn dross	5	18	0,1
		70.25% Zn ; 5.23%Pb; 0.022% Cu ; 0.65%Fe ;	Zn ashes	3	12	0,1
9	Santierul Naval S.A. Braila	87.2%Zn ; 2.85%Pb; 0.08%Cu ; 3.8%Fe ; -%S	Zn dross	4	12	0,05
		80.25% Zn ; 5.23%Pb ; 0.06%Cu ; 0.68%Fe ; -%S; (0.056% Cd)	Zn ashes	2	15	0,05
10	Santiere Navale Turnu Severin	89.2%Zn ; 2.15%Pb; 0.02%Cu ; 2.8%Fe ; -%S	Zn dross	2	10	0,1
		75.3%Zn ; 1.23%Pb ; 0.02%Cu ; 7.85%Fe ; -%S; (0.56% Al)	Zn ashes	3	12	0,1
11	ROMCAR S.A. ⁽¹⁾	55%Zn ; 0.65%Pb ; 0.047%Cu ; 4.0%Fe; -%S; 48% H ₂ O; (2.5% Cd)	Zn sludge	2	5	0,1
12	MEFIN S.A. ⁽¹⁾	11.7%Zn ; 0.82%Pb ; 0.69%Cu ; 21.0%Fe; -%S; 45% H ₂ O; (2.1% Cd)	sludge	1	3	0,05
13	MECORD S.A. ⁽¹⁾	37.21%Zn ; 0.52%Pb ; 0.25%Cu ; 4.75%Fe; -%S; 46% H ₂ O; (1.2% Cd)	Zn sludge	5	8	0,2
14	S.C. RADIATOARE S.A.	5.12%Zn ; 0.7%Pb ; 0.15%Cu ; 15.93%Fe; -%S; (2.75% Cd; 3.5% Cr)	sludge	8	2	0,1

15	S.C. TEHNOFRIG S.A.	1.39%Zn ; 2.03%Pb ; 0.45%Cu ; 2.43%Fe; - %S; (0,75%Cd; 0.37%Cr;)	sludge	5	1	0,1
16	R.B.G. PHOENIX	4.16%Zn; 4.5%Pb; 16.25%Cu; 27.5%Fe; 10.25%S; (2.5%As; 0.24%Cd)	Dust (electric- filter)	-	375	(1)
		7.26%Zn ; 6.45%Pb ; 14.15%Cu ; 20.5%Fe; 8.25%S; (3.28%SiO ₂ ; 1.12%As; 0.28%Cd)	Solderings (waste-heat boiler)	-	30	0,05
		2.45%Zn ; 28.92%Pb ; 5.32%Cu ; 13.17%Fe; 8.86%S; (4.58%SiO ₂ ; 0.24%As; 0.10%Sb)	Slurry	-	185	0,02
		2.42%Zn ; 0.42%Pb ; 1.18%Cu ; 1.56%Fe;	Slag	-	19 534	(1)
		6.84%Zn ; 34.12%Pb ; 4.37%Cu ; 1.26%Fe;	Dust converter	-	210	0,02
		2.57%Zn ; 1.16%Pb ; 7.25%Cu ; 1.02%Fe;	Slag converter	-	-	(1)
		7.25%Zn ; 26.3%Pb ; 4.25%Cu ; 11.26%Fe; (1.25%As; 0.02%Sb)	Dust thermal refining	-	212	0,02
		1.63%Zn ; 1.27%Pb ; 39.42%Cu ; 17.60%Fe; 0.11%S; (4.47%SiO ₂ ; 0.005%As; 0.024%Sb)	Slag thermal refining	-	554	(1)
		1.3%Zn ; 1.02%Pb ; 3.5%Cu ; 1.2%Fe; (1.5%As)	Slurry S.E.N.A.E.	-	-	(2)

17	ROMPLUMB	8,8%Zn; 48,12%Pb; 0,1%Cu; 1,2%Fe; -%S; (0.54%As; 2.3%Cd; 0,006%In)	Dust	-	2 358	(2)
		1.45%Zn ; 22.3%Pb ; 0,35%Cu ; 1.47%Fe; - %S; (0.34%As; 0,85%Cd)	Slurry	-	40	0,02
		4.52%Zn ; 1-4%Pb ; 0.58%Cu ; 38-42%Fe; 28-35%%SiO ₂	Slag	-	32 282	(1)
18	SIDEX Galati	0.1-0.16%Pb ; 0.1-2%Al ; 0.1- 0.5%Fe; Zn difference ; (10-15%ZnO from Zn)	Zn dross	year 2002: 525t estimated year 2003: 770t		-
		88,5%Zn ; 0.57%Pb ; 0.83%Cu ; 0,75%Fe; - %S; (6,24%Al)	Zamac	5	8	0,1
		21%Zn ; 0.45%Pb ; 61,2%Cu ; 6,1%Fe; - %S; (4,2%Al)	Brass and bronze ashes	3	8	0,1
19	ROMTELECOM	-%Zn ; 71.25%Pb ; 0.01%Cu ; 0.15%Fe; 5.2%S; (0.3%Sb; 1.2%C)	pastes -battery used	-	165	(0,1)
		95%Pb ; 5% Sb	lead (plates+bar)	-	7	-
		Cu 99.97%	Metal cable used	-	1 348	-
		Pb		-	2 486	-

20	REMAT	-	pastes -battery used	5 000	100 000 (ROMANIA)	-
		-	(grids)lead	8 000		-
	NEFERAL S.A.	-%Zn ; 72,01%Pb ; 0,05%Cu ; 0,06%Fe; 6,9%S; (0,5%Sb; 0,88%C)	pastes -battery used	-	-	(0,1)
	PROMBAT S.A.	-%Zn ; 72,55%Pb ; 0,016%Cu ; 0,48%Fe; 5,01%S; (0,046%Sb; 2,66%C)	pastes -battery used	-	-	(0,1)
	I.M.N.R. .S.A.	-%Zn ; 72,3%Pb ; 0,08%Cu ; 0,1%Fe; 6,2%S; (0,2%Sb; 1%C)	pastes -battery used	-	-	(0,1)
		95%Pb ; 5%Sb	(grids and other)lead	-	-	(0,1)

1) SEE REPORT point 7,8,9 page 16 and 17