MASERCATA LTD

MAZANASU RM – SAMPLE TEST DATA

RED MUD PROCCESSING SAMPLE

		Mass	Fe2O3	Al2O3	SiO2	TiO2	CaO	MgO	K2O	Na2O	P	S	H2O	Scandium	Cerium	Lanthanum	Yttrium	Strontium	Total
RED MUD SAMPLE	DUST	1000.0 kg	46.44%	16.51%	10.55%	6.60%	0.98%	0.09%	0.06%	6.38%	0.10%	0.22%	11.95%	0.015%	0.039%	0.029%	0.030%	0.010%	100.00%

RESULTS AFTER MAZANASU PROCESS	METAL	325.5 kg	Fe	C	Si	Mn	Cr	Ni	Mo	Ti	Cu	P	S	Al	Total			
			96.64%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	1.68%	0.00%	0.00%	0.00%	1.68%	100.00%			
	SLAG	340.0 kg	Fe2O3	Al2O3	SiO2	MnO2	Cr2O3	TiO2	CaO	MgO	Sc2O3	V2O5	SrO	ZrO	Y2O3	SO3	CeO	Total
			2.10%	46.02%	18.77%	0.85%	0.27%	6.67%	19.23%	3.30%	0.45%	0.07%	0.94%	0.29%	0.14%	0.70%	0.20%	100.00%
	ELEMENTS IN SLAG		O	Al	Si	Mn	Cr	Ti	Ca	Mg	S	Sr	Zr	Y	Ce	Fe	Sc	Total
			43.05%	24.36%	8.77%	0.54%	0.18%	4.00%	13.74%	1.99%	0.30%	0.80%	0.20%	0.12%	0.19%	1.47%	0.29%	100.00%
	SMOKE	215.0 kg																
	STEAM	119.5 kg																

- Metal oxides are extracted at certain, constant, given parameters, Mazanasu RM supports the parameters in a constant, unchanged mode => STABLE CONSTANT PROCESS
- Sc2O3 is multiplied 3…30 x – release of Sc from complex compounds (only with Mazanasu)

- Power Used 700…800 kWh / ton of liquid Fe (230…260 kWh / red mud ton as in above sample)
- High Fe Recovery rate from Fe2O3