

REPORT ON AMBIENT AIR QUALITY (POST MONSOON –2010)

NAME OF MINE : Dhelana Soapstone Mine (M.L. No. 8/92)

NAME OF OWNER : M/s. Resurgere Mines & Minerals India Ltd.,
156, Maker Chamber-III,
Nariman Point,
Mumbai- 400 021 (Maharashtra).

DATE OF MONITORING : 12.11.2010

MONITORING STATION : A-1 (WORKING FACE):


Pollutants	Sampling time/Concentration in $\mu\text{gm}/\text{m}^3$		
	06-14 hrs	14-22 hrs	22-06 hrs
RSPM	100	105	102
SPM	240	245	241
SO ₂	19.5	19.6	19.4
No _x	17.5	17.8	17.7
CO	BDL	BDL	BDL

MONITORING STATION : A-2 (DUMPING SITE):

Pollutants	Sampling time/Concentration in $\mu\text{gm}/\text{m}^3$		
	06-14 hrs	14-22 hrs	22-06 hrs
RSPM	98	99	97
SPM	235	238	237
SO ₂	18.7	18.8	18.6
No _x	16.5	16.8	16.6
CO	BDL	BDL	BDL

INSTRUMENT USED – (AAQ)

R.S.P.M. ANALYSIS BY RESPIRABLE DUST SAMPLER ENVIROTECH MODEL APM 460


(DR. NIDHI RAI)
Environmental Analysis Expert
(Associate Professor)
Deptt. of Env. Sciences,
Mohanlal Sukhadia University,
Udaipur. (Raj.)

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WATER ANALYSIS REPORT (POST MONSOON)

S. No.	Parameters	W1	IS-10500	
			Desirable	Permissible
1.	Colour (hazen unit)	1.0	5.0	-
2.	Odour	Odour less	Agg/ unobj.	
3.	Taste	Agg.	Agg/ unobj.	
4.	Conductivity			
5.	Turbidity (NTU)	5.5	5	10.0
6.	pH	8.2	6.5-8.5	No relaxation
7.	TDS (mg/l)	459	500	2000
8.	Total hardness as CaCO ₃ (mg/l)	249	300	600
9.	Calcium as Ca ²⁺	35	75	200
10.	Magnesium as Mg ²⁺	20	30	100
11.	Chloride as Cl (mg/l)	29	250	1000
12.	Sulphate as So ₄ ²⁻ (mg/l)	30.1	200	400
13.	Nitrate as No ₃ (mg/l)	10.4	45.0	No relaxation
14.	Fluoride as F- (mg/l)	0.07	1.00	1.50
15.	Mineral Oil (mg/l)	BDL	0.5	No relaxation
16.	Total Alkalinity (mg/l)	270	-	600
17.	P-Alkinity (mg/l)	120	-	-
18.	Residual free chlorine (mg/l)	Nil	0.02	
19.	Chromium as Cr ⁶⁺ (mg/l)	BDL	0.05	No relaxation
20.	Iron as Fe ²⁺ (mg/l)	0.01	0.30	-

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S. No.	Parameters	W1	IS-10500	
			Desirable	Permissible
21.	Copper as Cu ²⁺ (mg/l)	0.002	0.05	1.50
22.	Manganese as Mn ²⁺	0.001	0.10	1.00
23.	Cadmium as Cd ²⁺ (mg/l)	< 0.02	< 0.01	1.5
24.	Lead as Pb ²⁺ (mg/l)	< 0.02	< 0.04	-
25.	Zinc as Zn ²⁺ (mg/l)	0.2	4.5	No relaxation
26.	Sodium (mg/l)	15		
27.	Potassium (mg/l)	0.47		

Nidhi Rai

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NOISE LEVEL REPORT (POST MONSOON –2010)


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Station Code	Location	Day Time Maximum/Minimum	Night Time Maximum/Minimum
N-1	Site office	70 / 64	60 / 51
N-2	Working Face	71 / 63	61 / 52
N-3	Dump site	60 / 51	55 / 49
N-4	Plantation site	45 / 35	39.1 / 34.2
N-5	Approach Road	59 / 54	45.0 / 40.2
N-6	Near Dumper	72 / 64	-
N-7	Near sorting area	70 / 65	64.3 / 61.2
N-8	Near drilling machine	71 / 65	-
	Buffer Zone	49.8 / 46.2	48.1 / 42.1
N-11	Nr. Agricultural land (2.0 km.)	42.5 / 40.9	42.3 / 39.5

NOISE MONITORING – INSTRUMENT USED – SOUND LEVEL METER (LUTRON SL-4001)


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