


**MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, (MOEF)
REGIONAL OFFICE (W), BHOPAL
MONITORING REPORT
PART - I
DATA SHEET**

No.		
1	Project type: River/valley/Mining/Industry/ thermal/ nuclear/other /specify	: Mining
2	Name of the project	: Mangrol - Valia Lignite Mine
3	Clearance letter (s) OM no. and date	: Environmental Clearance accorded vide Letter no. J-11015/38/99-IA. II (M) dated 21st July 2003
4	a) District	: Surat
	b) State	: Gujarat
	c) Latitude/Longitude	: Latitude- 21 ^o 25' to 21 ^o 31' Longitude: 73 ^o 06' to 73 ^o 09'
5	Address for correspondence	
	a) Address of concerned Project Chief with pin code and Telephone/Telex/Fax No.	: Sri N.K.Purohit General manager (Mines) Mangrol Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Tal: Mangrol, Dist.: Surat – 394 110 Phone: 02629-261087 Fax: 02629-261112
	b) Address of concerned Engineer with pin code and telephone/Telex/Fax No.	: Shri P.C.Goyal, Dy. General Manager (Mines) Valia Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat – 394 110. Phone –(M) 9978937702 Fax: 02629-261112
6	Salient Features	
	a) of the project	: This mining project is linked to Surat Lignite Power Plant under the same management to supply lignite as fuel for captive 4 X 125 MW Power Plant.
	b) of Environmental Management Plan (EMP)	: I. Greenbelt development on 27.9 Ha of peripheral mining lease area of Mangrol Pit comprising 47,591 no of trees has been developed till date. II. Greenbelt development on <u>110.07</u> Ha of peripheral mining lease boundary around Valia Pit comprising <u>1, 75,309</u> no of trees has been developed till date. III. Plantation & seed spraying on Waste dump: Plantation & seed spraying activity on benches & sloping surface of the waste dump was carried out since the beginning of the mining activities. This was planned for dump stability & also to curb the run-off of loose soil from the external Overburden Dumps. IV. A brief endeavor of the work done is given in <u>Annexure – I</u> .

(Signature)

	c) of Environmental Impact Assessment (EIA)	:	Environmental monitoring for SPM, Nox, SOx, CO emission are being carried out as per the condition of Environmental Clearance vide letter no. J-11015/38/99-IA. II (M) dated 21st July 2003. The detail environmental monitoring report is enclosed herewith
7	Breakup of the project area a) Submergence area: Forest & Non forest b) Others	:	There is no forest land in and around of this project.
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agriculture land only, both dwelling unit and ,agricultural land. a) Scheduled Cast b) Scheduled Tribe c) Others Please indicate whether these figures are based on any systematic survey carried out or only provisional figures. If any survey is carried out give details and year of survey.	:	The most of the mining lease land was previously used for agricultural purpose. There were no dwelling units/ houses previously existing in such area.
9	Financial Details a) Project cost as originally planned and subsequent revised estimates and the year of price reference. b) Allocation made of environmental Management Plan with item wise & year wise break up. c) Benefit cost ratio/internal rate of return and the year of assessment. d) Whether includes the cost environment management as shown in the above. e) Actual Expenditure incurred so far on the project. f) Actual expenditure incurred on EMP & EIA so far (<u>up to Dec. - 2016</u>).	:	Project cost is 325 Crores based on price reference of the year 2009. The details are provided in Annexure – II with this data sheet. Rate of return for the Mangrol- Valia Mining Project is @ 7.24 % for the year 2015-16 . Environmental Management cost included. 325.00 Crores V. 1004.35 Lacs for Green belt development & maintenance, Dump plantation & maintenance, preparation & cleaning of silting ponds, catch drains, garland drains, Environmental Monitoring instruments, dust suppression measures, remote sensing imaginaries, Groundwater quality monitoring. A brief endeavor of the work done is given in Annexure – II .
10	Forest Land requirement a) The status of approval for diversion of forestland for non-forestry use. b) The Status of clear felling c) The status of compensatory aforestation, if any d) Comments on viability and sustainability of compensatory aforestation program in the light of actual field experience so far.	:	NA NA NA



11	The experience of clear felling in non forest area (Such as submergence area of reservoir, approach road) if any with quantitative information.	:	Area where active mining work is in progress contains no such vegetation and there are no such cases of clear felling.
12	Status of construction a) Date of commencement (actual or planned) b) Date of completion (Actual/Planned)	:	22.05.2010 (Actual) for Mangrol Pit and 25.10.2012 for Valia Pit of Mangrol- Valia Lignite Mine. Project is planned for 30 years.
13	Reason for delay if the project is yet to start	:	NA
14	Dates of site visits a) The dates on which the project was monitored by Regional Office on previous occasion if any, b) Dates of site visit for this monitoring	:	----- -----
15	The monitoring report may contain the details of all the letters issued so far (vide the letters as mentioned)	:	• Environmental Clearance accorded vide Letter no. J-11015/38/99-IA, II (M) dated 21st July 2003.


 P.C.Goyal
 Dy. General Manager (Mines)



ANNEXURE - I

PLANTATION ACTIVITY FROM 2014 TO DEC. -2016

Sr.No	Year	Code	Location	Area (Ha)	No. of trees
(A) Peripheral green belt development					
1	From 2014 to Dec.- 2016	GBD-MA	Both side of alternative Shah Road & Lignite Transport Road & Out plant stockyard	11.0	16410
2	Year 2014	GBD-MB	Both side of Lignite Transport Road	9.5	15344
3		GBD-MC	Lease Boundary of Mangrol Pit	5.0	12437
4		GBD-MD	Lease Boundary of Mangrol Pit	2.4	3400
5		GBD-VA	Lease Boundary around Valia Pit, developed 12000 No. of trees (Forest Species) in 8 Hec. Area	102.07 + 8.0	163309 + 12000
TOTAL(A)				137.97	222900
(B) Dump Plantation					
1	2011	---	External dump (Mangrol Pit)	5.0	8000
(C) Seed Spraying					
1	2014	---	Along periphery of Mangrol Mine	08.0	100 Kg
			Along OB dump benches of Valia Mine	05.0	05 Kg
2	2015	---	Along periphery of Mangrol Mine		
			Along sloping surface of OB dump benches of Valia Mine	11.0	150 Kg
3	2016		On benches of OB dump yard No. 1 & 2 of Valia Mine	11.0	180 Kg

Handwritten signature and date: 15/02/12

P.C.Goyal
Dy. General Manager (Mines)

Handwritten signature

ANNEXURE – II

Sub: Expenditure made for the Environmental Management Plan & Environmental Impact Assessment (EMP & EIA)
With item wise & year wise break-up. (All figures are in Lac Rs.)

Year → →	Particulars of the activities	2014	2015	2016 (Jan- June)	2016 (July – Dec.)
Item ↓					
Development of Peripheral Green Belt.	Green Belt development along lease boundary of Mangrol – Valia Mine using Forest Species & Seeding	11.47	17.95	2.87	3.18
Maintenance & protection of Greenbelt	Maintenance & protection of Greenbelt (Along lease boundary of Valia Mine & Lignite Transport Road)	37.45	31.7	20.34	-----
Dump plantation & maintenance	Plantation on black cotton at External Dump	2.51	3.7	0.96	-----
	Plantation through seeding at External Dump				
Preparation , cleaning of settling pond, catch drains, Garland drains etc	Siltng pond for settlement of suspended solids from the discharge of mine water, being pumped out during the monsoon season.	12.72	32.65	6.90	-----
Monitoring of Environmental parameter	Monitoring of Environmental parameters viz. Air quality (SPM, Sox, Nox, CO), Water quality (Physical, Chemical & Biological tests), Noise survey & Dust fall measurement in villages peripheral to the mining lease area & Micro meteorological monitoring of the season/quarter.	2.64	3.46	2.31	1.91
Dust suppression measures in mines	Round the clock water spraying and road grading prevents formation & emission of Dust	162.89	137.7	56.7	24.3
Remote sensing Imageries of the region.	Three year stage remote sensing to monitor the changes in the land use pattern and related impacts due to mining.	-----	1.90	-	-----
Ground Water quality monitoring	Ground water level & quality monitoring in the core as well as buffer zone	2.56	1.98	0.26	0.41
Total....		232.24	231.04	90.34	29.8
Cumulative Total (From 2014 to Dec., - 2016)		653.17	884.21	974.55	1004.35

P.C.Goyal
Dy. General Manager (Mines)