



GUJARAT INDUSTRIES POWER COMPANY LTD.

Courier

SLPP/Vastan Mines/Environment Return/ 6513

20 August 2011

To,
The Joint Director
Additional Director (S)
Ministry of Environment & Forest
Regional office, Western Region,
Kendriya Paryavaran Bhavan,
E-5, Ravishankar Nagar,
Bhopal - 462016, (MP)

Sub :-	Report of monitoring the implementation of environmental safeguards in data sheet, Part - I in respect of Vastan Lignite Opencast Mines, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from January 2011 to June 2011.
Ref :-	Environmental Clearance accorded vide letter no J-11015/40/95-IA. II (M) dated 19 th June 1996.

Dear Sir,


Please find enclosed the report, in data sheet Part - I, of monitoring of the implementation of environmental safeguards in respect of Vastan Lignite Opencast Mines, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from January 2011 to June 2011.

This is for your kind information.

Thanking you,

Yours faithfully,

For Gujarat Industries Power Co. Ltd.


N.K. Chauhan
Chief Manager (mines)
Surat Lignite Power Plant
P.O. - Nani Naroli, Taluka- Mangrol.
Dist. - Surat, 39411

Encl :-	1. Data Sheet Part - I.
	2. Environmental Monitoring Report for period of April 2011 to September 2011.
CC :-	Regional Officer, Surat R.O. Gujarat Pollution Control Board, 338, Belgium square, Opp. Linear Bus Stand, Surat.

Registered Office & Vadodara Plant :

P.O. Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA

Phone : EPABX (0265) 2232768/2213/0159 Fax : 2231207

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Website: www.gipcl.com

Surat Lignite Power Plant :

Village : Nani Naroli, Ta. Mangrol, Dist.: Surat 394 110. Gujarat-INDIA

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ANNEXURE - IV
MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS
MINISTRY OF ENVIRONMENT AND FOREST
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	: Vastan Lignite Mine
3	Clearance letter (s) OM no. and date	: F.No. J-11015/40/95-IA. II (M) dated 19 th June 1996
4	a) District	: Surat
	b) State	: Gujarat
	c) Latitude/Longitude	: Latitude- 21 ⁰ 22' 47" to 21 ⁰ 26' 42" Longitude: 73 ⁰ 05' 47" to 73 ⁰ 08' 47"
5	Address for correspondence	
	a) Address of concerned Project Chief with pin code and Telephone/Telex/Fax No.	: Sri N.K.Chauhan Chief Manager (Mines) Vastan Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Tal: Mangrol, Dist.: Surat - 394 110 Phone: (M) 09909925340 Fax: 02629-261080
	b) Address of concerned Engineer with pin code and telephone/Telex/Fax No.	: Shri Kumar ravi kant, Asst. Manager (Mines) Vastan Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat - 394 110. Phone -(M) 9099045781 Fax: 02629-261080
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 2 X 125 MW Power Plant.
	b) of Environmental Management Plan	: Greenbelt development on 340.1 Hectares of peripheral mining lease area comprising of 588785 no trees have been developed till date. a) Plantation of Waste dump: Plantation activity on plane & 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. A brief endeavor of the work done is given in Annexure - I.
	b) of Environmental Management Plan	: c) Environmental monitoring for SPM, NO _x , SO _x , CO emission are being carried out as per the condition of Environmental Clearance vide letter no. O. /M letter F.No. J-11015/40/95-IA. II (M) dated 19 th June 1996. The detail environmental monitoring report is enclosed herewith.
7	Break up of the project area	
	a) Submergence area: Forest & Non forest	: There is no forest land in and around of this project.
	b) Others	: Total areas of 1536 Hectare will be used for mining activity.
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agriculture land only, both dwelling unit and	: The most of the mining lease land was previously used for agricultural purpose. There were no dwelling units/ houses previously existing in such area. Following population lost only their

(6/1)

	<p>agricultural land.</p> <p>a) Scheduled Cast : 5 nos</p> <p>b) Scheduled Tribe : 102 nos</p> <p>c) Others : 400 nos</p> <p>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.</p>	<p>agricultural land.</p> <p>These figures are based on systematic survey carried out in the year December, 1997.</p>
9	<p>Financial Details</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year of price reference. : Project cost is 300 Crores based on price reference of the year 1997.</p> <p>b) Allocation made of environmental Management Plan with item wise & year wise break up. : The details are provided in Annexure – II with this data sheet.</p> <p>c) Benefit cost ratio/internal rate of return and the year of assessment. : Rate of return on Investment is 3.7896% for assessment year 2010-11.</p> <p>d) Whether (c) includes the cost environment management as shown in the above. : Yes</p> <p>e) Actual Expenditure incurred so far on the project. : 244.87 Crores</p> <p>f) Actual expenditure incurred on EMP so far (June 2011). : 580.64 Lacs for Green belt development, Dump plantation, preparation of silting ponds, Environmental Monitoring instruments studies.</p>	
10	<p>Forest Land requirement</p> <p>a) The status of approval for diversion of forestland for non-forestry use. : NA</p> <p>b) The Status of clear felling</p> <p>c) The status of compensatory afforestation, if any : NA</p> <p>d) Comments on viability and sustainability of compensatory afforestation program in the light of actual field experience so far. : NA</p>	
11	<p>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.</p>	
12	<p>Status of construction</p> <p>a) Date of commencement (actual or planned) : 31.05.1996 (Actual)</p> <p>b) Date of completion (Actual/Planned) : Project is planned for 30 years.</p>	
13	<p>Reason for delay if the project is yet to start : NA</p>	
14	<p>Dates of site visits</p> <p>a) The dates on which the project was monitored by Regional Office on previous occasion if any. : 26.03.2007</p> <p>b) Dates of site visit for this monitoring : 26.03.2007 by Dr.V.B.Apale, Joint Director (S), Regional Office, Western Region.</p>	
15	<p>The monitoring report may contain the details of all the letters issued so far (vide the letters as mentioned) :</p> <ul style="list-style-type: none"> • Environmental Clearance by OM No. J-11015/40/95/-IA. II (M) dated 19/6/1996. • Letter no 3-5/96(ENV)/1906 dt 4/11/1996 	


 N.K. Chauhan
 Chief Manager (mines)

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ANNEXURE - I


PLANTATION ACTIVITY FROM 1997 TO JUNE 2011

Sr. No.	Year	Code	Location	Area (Ha)	No. of trees
(A) Peripheral green belt development					
1	1997	GBD-A	Lease boundary (Village-Vastan, Jhakharda & Shah)	33	50,967
2	1998	GBD-B	Lease boundary (Village-Vastan & Surali)	21	37290
3	1999	GBD-C	Lease boundary (Vastan & Shah)	12	21,017
4	2000	GBD-D	Lease boundary (Village- Shah & Cheraetha)	3.5	56,000
7	2001	--	Near Vastan village	04	6000
8	2002	GBD-J	Lease boundary (Village- Cheretha))	20	31,368
9	2003	GBD-K	Lease boundary (Village- Surali, Naugama & Tadkeshwar)	34	51,000
10	2004	GBD-L	Lease boundary (village- Vastan & Surali)	12	30,000
11	2005	GBD-M	Along Limestone road, & Vastan village)	16	26,550
12	2006	Jetropa	Lease boundary- Vastan & Surali)	05	13,500
13	2008	GBD-N	Lease boundary of South Pit	20	32,000
14	2009	GBD-O	Lease boundary of South Pit	20	32,000
Total (A)				200.5	387692
(B) Dump Plantation					
1	1999	---	External dump	2.5	7500
2	2001	--	External dump	04	12,000
3	2005	--	External dump	02	3887
4	2006	--	External dump	42	42,549
5	2007	--	External dump	30	38,027
6	2010	---	External dump	5	8,000
Total (B)				85.5	1,11,963
(C) Reclaimed Area Plantation					
1	2007	Jetropa	--	04	11,136
2	2008	Jetropa	--	05	13,504
3	2009	Bamboo Plantation		25	32000
4	2009	Junglee Variety		5	5000
Total (C)				39.0	61640

A. K. J. K. V.

(D) Other plantation activity.					
1	2000	--	Mines road	02	3100
4	2000	GBD-F	Ambawadi (Near DEEP nursery)	0.5	290
5	2000	GBD-H	Near Demo Shed	03	13,200
2	2001	--	Mines road	1.6	2500
3	2005	--	Mines road	03	400
3	2007	Bamboo plantation	Near DEEP farm house	05	8000
			Total (D)	15.1	27,490
			GRAND TOTAL	340.1	588785
(E) Seed Spraying					
1	1998	Dump-A	External dump	05	3000Kg
2	1999	Dump-B	External dump	05	300 Kg
3	2000	Dump-C	External dump	28	790Kg
4	2001	Dump-D	External dump	124	5760 Kg
5	2003	Dump-E	External dump	54	1620Kg
			Total (E)	216	11470 Kg
(F) Seed spraying by Mining Contractors					
1	1999				2150 Kg
2	2000				550 Kg
3	2001				5760 Kg
					grass seeds
4	2002				2600Kg
5	2003				280Kg
6	2004				5.25Kg
7	2005				1000Kg
8	2007				1000 Kg
9	2008		External Dump		1000 Kg
10	2009		External Dump		1000 Kg
11	2010		Bund of Garland drains		400 Kg
12	Jan 2011 - June 2011		Lease boundary(Village- Cheretha), Bund of Garland drains		500 Kg
			Total (F)		15765 Kg

Permit


 N.K. Chauhan
 Chief Manager (mines)

ANNEXURE -II

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

Year →	→	2005	2006	2007	2008 (Jan-Dec)	2009 (Jan-Dec)	2010 (Jan-Dec)	2011 (Jan-June)
Item ↓	Particulars of the activities							
Development & maintenance of Greenbelt and Jetropha Plantation (Surali village & Reclaimed area)	Greenbelt Development along lease boundary, along Haul road & plantation on the available area in mining premises.	20.00	30.00	22.72	23.27	15.31	4.91	7.04
Dump plantation	Dump plantation through seeding, plantation and gap filling.	0.73	20.00			2.70	6.02	
Preparation of settling pond	Silting pond for settlement of suspended solids from the discharge mine water, being pumped out during the monsoon season.	2.00	2.00	nil				0.64
Monitoring of Environmental parameter	Monitoring of Environmental parameters viz. Air quality (SPM, SO _x , NO _x , 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.	1.25	0.50	0.54135	1.62534	1.93		1.08
Dust suppression measures in mines	Round the clock water spraying and road grading prevents formation & emission of Dust							80.00
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.		1.41			2.00		
Total....		23.98	76.57	23.25,932	24.89043	22.41		92.01
Cumulative Total (From 1997 to June 2011)				393.33132	418.22175	440.63175		532.64
								48.00
								580.64

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N.K. Chauhan
Chief Manager (mines)

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20/11/11