



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 110

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261073/74 E-mail : genslpp@gipcl.com

BY RPAD

SLPP/Mangrol- Valia Mine/ENV. Return/

16th July- 2020

To,
Regional Officer,
Ankleshwar R.O. Gujarat Pollution Control Board,
Plot No-1501, GIDC Estate, Above ARAIL Ltd
Ankleshwar.

<u>Sub :-</u>	Report of monitoring the implementation of environmental safeguards in data sheet, Part – I in respect of Mangrol-Valia Lignite Mines, of M/s Gujarat Industries Power Company Ltd, for the period from Jan. To June - 2020.
<u>Ref :-</u>	1. Environmental Clearance accorded vide letter no J-11015/38/99-IA. II (M) dated 21st July 2003.

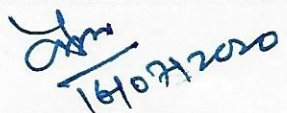
Dear Sir,

Please find enclosed the report, in data sheet Part – I, and monitoring of the implementation of environmental safeguards in respect of Mangrol-Valia Lignite Mines, M/s Gujarat Industries Power Company Ltd, for the period from **Jan. To June - 2020**

This is for your kind information.

Thanking you,

Yours faithfully,
For, Gujarat Industries Power Co. Ltd.


Prakash Chand
Addl. General Manager (Mines)
Mangrol-Valia Lignite mine
Surat Lignite Power Plant
P.O. - Nani Naroli, Taluka- Mangrol.
Dist. - Surat, 394110

<u>Encl :-</u>	1. Data Sheet Part – I. along with Piezometer Reading.
	2. Six Monthly Environmental Monitoring & Analysis Report for the period of Jan. To June - 2020.

Registered Office & Vadodara Plant :
P.O.Petrochemical, Dist. Vadodara 391 346 Gujarat - INDIA



Phone : EPABX (0265) 2232768/2213/0159
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Website : www.gipcl.com
CIN No.: L99999GJ1985PLC007868

ANNEXURE – IV

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS
MINISTRY OF ENVIRONMENT AND FOREST (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 ⁰ 25' to 21 ⁰ 31' Longitude: 73 ⁰ 06' to 73 ⁰ 09'
5	Address for correspondence		
	a)Address of concerned Project Chief with pin code and Telephone/Telex/Fax No.	:	Sri P.C.Goyal Addl. General manager (Mines) Mangrol –Valia Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Tal: Mangrol, Dist.: Surat – 394 110 Phone:02629-261087(M) 9978937702 Fax: 02629-261112
	b) Address of concerned Engineer with pin code and telephone/Telex/Fax No.	:	Shri P.C.Goyal, Addl. 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 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	:	I. Greenbelt development on 25.5+2.4 Ha of peripheral mining lease area comprising of 44191+3400 no trees has been developed till date. II. Greenbelt development on 95.50 Ha of peripheral mining lease boundary around Valia Pit comprising of 153509 no trees has been developed till date. III. 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. IV. A brief endeavor of the work done is

			given in Annexure – I.
	c) of Environmental Management Plan	:	a) 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(Hard Copy)
7	Break up of the project area a) Submergence area: Forest & Non forest b) Others	: :	There is no forestland 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 had 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 (c) 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 so far 2019.	: : : : : : :	Project cost is 325crores based on price reference of the year 2009. The details provided in Annexure – II with this data sheet. Rate of return for the Mangrol- Valia Mining Project is @.12.32% for the year 2019-20. Environmental Management cost included. 325.00Crores 58.07 Lac 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.
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 a aforestation, if any d) Comments on viability and sustainability of compensatory aforestation program in the light of	: : : :	NA NA NA NA

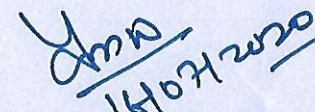
	actual field experience so far.		
11	The experience of clear felling in non forest area (Such as submergence area of reservoir, approach road) if any with quantitative information.	:	Area where active mining work is in progress contains no such vegetation and there are no such cases of clear felling.
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
Addl.General Manager (Mines)

ANNEXURE - I


PLANTATION ACTIVITY FROM 2011 TO June. - 2020

S.No.	Year	Code	Location	Area (Ha)	No. of trees
(A) Peripheral green belt development					
1	From	GBD-MA	Both side of alternative Shah Road & Lignite Transport Road & Out plant stockyard	11.0	16410
2	year 2012 to June 2018	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
		GBD-VA	Lease Boundary around Valia Pit	95.5	153509
TOTAL(A)				121.0+2.4	197700+3400
(B) Dump Plantation					
1	2012	---	External dump	-	-
(C) Seed Spraying					
1	2012	----	External dump	02.0	100 Kg
2	2013	----	Vastan north pit dump	05.0	200 Kg
3	2014	----	Along periphery of Mangrol Mine	08.0	100 Kg
			Along OB dump benches of Valia Mine	05.0	05 Kg
4	2015	----	Along periphery of Mangrol Mine	-	-
			Along OB dump benches of Valia Mine		
5	2018	-	-----	-	-
6	2019	-	-----		
7	2020


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

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

Year → →		2016	2017	2018	(2019	Jan.June 2020
Item ↓	Particulars of the activities					
Development of Peripheral Green Belt.	Green Belt development along lease boundary of Mangrol – Valia Mine using Forest Species & Seeding	6.05	-----	-----	-	---
Maintenance & protection of Greenbelt	Maintenance & protection of Greenbelt (Along lease boundary of Valia Mine & Lignite Transport Road)	20.34	-----	-----	-	-----
Dump plantation & maintenance	Plantation on black cotton at External Dump	0.96	-----	-----	-	-
	Plantation through seeding at External Dump					
Preparation , cleaning of settling pond, catch drains, Garland drains etc	Silting pond for settlement of suspended solids from the discharge mine water, being pumped out during the monsoon season.	6.90	26.4	12.39	20.56	16.5
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.	4.22	2.81	2.47	1.14	0.57
Dust suppression measures in mines	Round the clock water spraying and road grading prevents formation & emission of Dust	81.0	67.5	56.6	60.4	40.5
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.	-	-----	3.26	-	-
Ground Water quality monitoring	Ground water level & quality monitoring in the core as well as buffer zone	0.67	-----	0.65	0.50	0.50
Total....		120.14	96.71	75.37	82.60	58.07
Total (Cumulative)		1004.35	1101.06	1221.8	1304.40	1362.47


 16/07/2020
 P.C.Goyal
 Addl. General Manager (Mines)

Piezometer Reading.

DATALOGGER ID	DATE/TIME	BATTERY VOLTAGE (V)	WATER LEVEL (mWC)	TEMPERATURE (degC)	BAROMETRIC (hPa)
B010	2/5/2020 16:26	3.13	-5.58E+00	28.4	1005.1
B010	2/6/2020 10:32	3.13	-5.49E+00	28.4	1009.1
B010	2/7/2020 8:00	3.13	-5.67E+00	28.4	1008.9
B010	2/9/2020 8:00	3.13	-5.41E+00	28.4	1011.3
B010	2/11/2020 8:00	3.13	-5.99E+00	28.3	1008.9
B010	2/13/2020 8:00	3.13	-5.72E+00	28.4	1011.2
B010	2/15/2020 8:00	3.13	-6.01E+00	28.3	1008.3
B010	2/17/2020 8:00	3.13	-6.26E+00	28.3	1009
B010	2/19/2020 8:00	3.13	-5.91E+00	28.4	1007.3
B010	2/21/2020 8:00	3.13	-5.72E+00	28.3	1008.7
B010	2/23/2020 8:00	3.13	-7.82E+00	28.4	1009.2
B010	2/25/2020 8:00	3.13	-8.66E+00	28.4	1007.5
B010	2/27/2020 8:00	3.13	-9.56E+00	28.4	1007.7
B010	2/29/2020 8:00	3.13	-1.01E+01	28.4	1004
B010	3/2/2020 8:00	3.13	-8.99E+00	28.4	1006.1
B010	3/4/2020 8:00	3.13	-8.13E+00	28.4	1007
B010	3/6/2020 8:00	3.13	-7.86E+00	28.4	1003.7
B010	3/8/2020 8:00	3.13	-7.10E+00	28.4	1007.8
B010	3/10/2020 8:00	3.13	-6.95E+00	28.4	1005.5
B010	3/12/2020 8:00	3.13	-6.95E+00	28.4	1008.6
B010	3/14/2020 8:00	3.13	-7.89E+00	28.4	1009.3
B010	3/16/2020 8:00	3.13	-7.08E+00	28.4	1006.9
B010	3/18/2020 8:00	3.13	-7.24E+00	28.4	1007.3
B010	3/20/2020 8:00	3.13	-7.44E+00	28.3	1006.4
B010	3/22/2020 8:00	3.13	-9.59E+00	28.4	1006.5
B010	3/24/2020 8:00	3.13	-8.67E+00	28.4	1004
B010	3/26/2020 8:00	3.13	-8.26E+00	28.4	1004.2
B010	3/28/2020 8:00	3.13	-7.05E+00	28.4	1007.7
B010	3/30/2020 8:00	3.13	-7.71E+00	28.4	1004.5
B010	4/1/2020 8:00	3.13	-7.39E+00	28.3	1006.5
B010	4/3/2020 8:00	3.13	-8.95E+00	28.4	1004.3
B010	4/5/2020 8:00	3.13	-8.48E+00	28.4	1005.2
B010	4/7/2020 8:00	3.13	-9.11E+00	28.4	1004.8
B010	4/9/2020 8:00	3.13	-1.04E+01	28.4	1006.3
B010	4/11/2020 8:00	3.13	-9.61E+00	28.4	1006.7
B010	4/13/2020 8:00	3.13	-1.12E+01	28.4	1004.6
B010	4/15/2020 8:00	3.13	-1.21E+01	28.3	1005.7
B010	4/17/2020 8:00	3.13	-1.16E+01	28.4	1004.2
B010	4/19/2020 8:00	3.13	-1.04E+01	28.4	1004.9
B010	4/21/2020 8:00	3.13	-9.18E+00	28.4	1003.4
B010	4/23/2020 8:00	3.13	-9.37E+00	28.4	1003.6
B010	4/25/2020 8:00	3.13	-9.10E+00	28.4	1003.2
B010	4/27/2020 8:00	3.13	-9.20E+00	28.4	1005.4
B010	4/29/2020 8:00	3.13	-9.39E+00	28.4	1002.9
B010	5/1/2020 8:00	3.13	-1.16E+01	28.4	1004.3
B010	5/3/2020 8:00	3.13	-1.15E+01	28.4	1003.2
B010	5/5/2020 8:00	3.13	-1.22E+01	28.4	1003.1
B010	5/7/2020 8:00	3.13	-1.19E+01	28.4	1002.3

JW
16/7/20

B010	5/9/2020 8:00	3.13	-1.01E+01	28.4	1003.3
B010	5/11/2020 8:00	3.13	-1.10E+01	28.4	1004.4
B010	5/13/2020 8:00	3.13	-1.26E+01	28.4	1001.8
B010	5/15/2020 8:00	3.13	-1.12E+01	28.4	1001.8
B010	5/17/2020 8:00	3.13	-1.07E+01	28.4	1000.5
B010	5/19/2020 8:00	3.13	-1.18E+01	28.4	999.3
B010	5/21/2020 8:00	3.13	-1.06E+01	28.4	1000.2
B010	5/23/2020 8:00	3.13	-9.97E+00	28.4	1001.6
B010	5/25/2020 8:00	3.13	-1.13E+01	28.4	1003
B010	5/27/2020 8:00	3.13	-1.22E+01	28.3	1001.6
B010	5/29/2020 8:00	3.13	-1.32E+01	28.4	1001.1
B010	5/31/2020 8:00	3.13	-1.15E+01	28.4	1002.5
B010	6/2/2020 8:00	3.13	-1.20E+01	28.4	1001.3
B010	6/4/2020 8:00	3.13	-1.24E+01	28.4	996.2
B010	6/6/2020 8:00	3.13	-1.26E+01	28.4	999.1
B010	6/8/2020 8:00	3.13	-1.41E+01	28.4	999
B010	6/10/2020 8:00	3.13	-1.38E+01	28.4	999.5
B010	6/12/2020 8:00	3.13	-1.36E+01	28.4	995.6
B010	6/14/2020 8:00	3.13	-1.24E+01	28.4	996.6
B010	6/16/2020 8:00	3.13	-1.18E+01	28.4	995.1
B010	6/18/2020 8:00	3.13	-1.11E+01	28.4	996.2
B010	6/20/2020 8:00	3.13	-1.10E+01	28.4	999.2
B010	6/22/2020 8:00	3.13	-1.07E+01	28.4	997
B010	6/24/2020 8:00	3.13	-1.10E+01	28.4	998.8
B010	6/26/2020 8:00	3.13	-1.10E+01	28.4	998.2
B010	6/28/2020 8:00	3.13	-1.08E+01	28.4	998.7
B010	6/30/2020 8:00	3.13	-1.08E+01	28.4	997.5
B010	7/2/2020 8:00	3.13	-1.06E+01	28.4	996.5