



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

At. Nani Naroli, Ta. Mangrol, Dist. Surat - 394 112

Phone : EPABX (02629) 261063 to 261072 Fax : (02629) 261080 E-mail : genslpp@gipcl.com

Courier

SLPP/Mangrol- Valia Mine/ENV. Return/ *708*

19th March- 2021

To,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan,
E-5 Arera Colony, Link Road-3,
Ravishankar Nagar,
Bhopal – 462016, (MP)

Sub :-	MOEF's EC & other compliance reports in respect of Mangrol-Valia Lignite Mines, of M/s Gujarat Industries Power Company Ltd, for the period from July to Dec -2020.
Ref :-	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, 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 **July to Dec - 2020**

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

M A Nipane
19/03/2021

M A Nipane
Dy. General Manager (Mines)
Mangrol-Valia Lignite mine

- Encl:-
- 1 EC Compliance Report for the period July to Dec 2020 as ANNEX-A
 2. Data Sheet Part – I As ANNEX-B along with Piezometer Reading.
 3. Six Monthly Environmental Monitoring & Analysis Report for the period of **July to Dec – 2020 As ANNEX-C**

- cc:-
- ✓ Regional Officer, Surat R.O.Gujarat Pollution Control Board, 338, Belgium square, Opp. Linear Bus Stand, Surat.
 - ✓ Regional Officer, Ankleshwar R.O. Gujarat Pollution Control Board, Plot No-1501, GIDC Estate, Above ARAIL Ltd, Ankleshwar,

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



Phone : EPABX (0265) 2230182 / 2230028 / 2232768
Fax : 2230029 **E-mail :** genbaroda@gipcl.com

COMPLIANCE REPORT OF MANGROL - VALIA MINE AS PER APPROVED MINING PLAN FOR 4.2 MTPA

Ref: - MoEF New Delhi Environment clearance No. -J-11015/38/33-IA.II (M) Dtd 21/07/2003

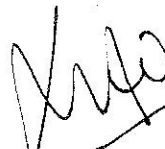
Sr.No	Condition	Compliance Status
SPECIFIC CONDITION AS PER MOEF		
i	Top Soil Should be stacked properly with proper slope at earmarked site (s) with adequate measure and should be used for reclamation and rehabilitation of mined out area.	Top soil comprises of black cotton soil and being stacked separately with proper slope with adequate measure. Separate dump area is earmarked.
ii	OB dumps of 204 ha in Mangrol Block and 107 ha of Valia Block would be made. OB should be stacked at earmarked dumpsite only. The total height of the dumps should not exceed 50 m in two stages of 25 m each. The overall slope should not exceed 28 degree. A stone masonry retaining wall will be constructed along the toe of the dump. Concurrent backfilling should be start from the 6 th year. Monitoring and Management of rehabilitated areas should be submitted to the Ministry of Environment & Forest and its Regional office located at Bhopal on years basis.	<ul style="list-style-type: none"> • In Mangrol block the overburden dumping has been done on the non mineral bearing area. The Overburden dump outside will be used for filling the void created during the mining of lignite as per approved mine plan in due course. The height of the dump is max 47 meters from the ground level & the overall slope is 16 degree. Retaining wall has been prepared all along the toe of the external dump by using stones. • Whereas in Valia block Overburden was dumped on the mineral bearing area, which is being rehandled and being used for backfilling the void created during mining in, as per approved mining plan. The height of the dump is max 32 meters from ground level & overall slope is 16 degree.
iii	<p>Catch drains and siltation ponds appropriate site should be constructed to arrest silt and sediment flows from soil. OB and minerals dumps. The water so collected should be utilized for watering the mine area, roads green belt development, etc. The drains should be regularly desilted and maintained properly.</p> <p>Garland drains (size, gradient & length) and sump capacity should be designed keeping 50 % safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mines site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.</p>	<p>In Mangrol Block Catch Drain of around 4500 mtrs length x 4 mtr wide & siltation ponds (4 Nos. , each of size 30 x 70 x 3.5 m³) and in Valia Block suitable drains along with 3 nos of siltation ponds admeasuring around 30X20X3 m³ have been constructed so as not to allow flow of debris, silt & sediment into the drainage channels. Collected water is used for plantation & water sprinkling.</p> <p>Garland Drain has been constructed for mine pit waste dumps which are de-silted and properly maintained.</p> <p>The dimensions of Garland drain suitable size has been constructed in and around the quarry area and the external dump with proper gradient to prevent the rain water decent into the active mine area.</p> <p>Sump capacity in Mangrol block 325000 M³ and in Valia block 250000 M³ has been designed considering Maximum rainfall and catchment area.</p>
iv	Dimension of retaining wall at the toe of dumps and OB benches the mine to toe check runoff and siltation should be based on the rainfall data.	The suitable retaining wall by using stones has been made considering the rainfall data.

v	All efforts should be made by the project proponent to exclude acquisition of 25 Ha of grazing land, if not found feasible, extra land should be acquired in non mineralized area for development of an alternate grazing ground.	Suitable alternate (5.68Ha) land in non mineralized area has been provided for development of an alternate grazing ground before acquiring the grazing land.
vi	A detailed mine commissioning plan should be submitted to the Ministry of Environment & forest 5 years in advance of approval.	Mining Plan approved by Ministry of coal has been submitted.
vii	A Green belt of adequate width should be raised for suppression of dust by planting the native plant species around ML area, along ML boundary, roads, OB dumps sites, etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per ha. At the end of 20 th year, plantation should cover a) Backed fill area – 1038.16 Ha b) External OB dumps – 311 Ha c) 50 Ha of topsoil dump, and 328.84 Ha green belt.	We are implementing the program of plantation through M/s DEEP Trust (an NGO promoted by GIPCL.) and Forest Department. Till date, in Mangrol block, 47591 trees have been planted in 27.9 Hec area where as in Valia Block, 153509 trees have been planted in 95.5 hec area. Thus, total greenbelt development on 123.4 Hectares of peripheral mining lease area comprising of 201100 no. trees have been developed. (annexure-I)
viii	Regular Monitoring of Ground water level & quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring should be done four times a year in pre – monsoon (May), Monsoon (August) post – monsoon (November) and winter (January) season. Data thus collected should be submitted to the Ministry of Environment and Forests and the Central Ground Water Board Ahmadabad quarterly within 1 month monitoring.	Ground water level monitoring is being carried out through piezometer installed in Mangrol Valia block. Ground water quality monitoring is being carried out by M/s Eco system Environment. (annexure –II)
ix	Project authorities should furnish ground water resource estimation either block or buffer zone wise and also assess impact on ground water regime accordingly and submit report Ground water resources estimation report submitted MOEF CGWA, Delhi, within six months.	M/s M.G. Science institute Ahmadabad, carried out the initial survey of Ground water level and has submitted their report.
x	The project authorities should meet water requirement of nearby village(s) in case the villages wells go dry due to dewatering of the mine.	Till date there is no case of wells going dry in the nearby villages, due to mining activities. In future if this happens, we will meet the water requirement of the nearby villages.
xi	Sewage Treatment Plant should be installed for the colony. ETP should also be provided for workshop and CHP wastewater.	STP is installed in the colony (common for plants & Mines). The STP is used for Plantation.
xii	Digital processing of the entire lease area using remote sensing techniques should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its Regional Office Bhopal.	We have carried out Digital processing of the entire lease area using remote sensing techniques through Regional Remote Sensing Center west, Jodhpur to collect the data and report has been submitted in the year 2019 to the regional office MoEF & CC Bhopal. The Land use pattern is monitored using remote sensing regularly once in 3 years & the report is submitted to the Regional office MOEF, Bhopal.
xiii	Efforts will be made to exclude acquisitions of 25 ha Grazing Land. If Found feasible extra land will be acquired in non – mineralized area for development of an alternate grazing land.	Suitable alternate land (5.68Ha) has been provided for development of an alternate the grazing land.

B. GENERAL CONDITION AS PER MOEF		
i	No change in mining technology and Scope of working should be made without prior approval of the Ministry of Environment and Forests.	In case of any change, we will intimate and take necessary approval from MOEF.
ii	No change in the calendar plan including excavation, quantum of mineral, coal and waste should be made.	Will be done as per approved Mining Plan.
iii	Four Ambient air quality monitoring station should be establish I the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x and CO monitoring. Location of the station should be decided based on the meteorological data, topographical feature and ecology sensivity targets in consultation with the Gujarat State Pollution Control Board.	Complied. Regular air quality monitoring is being carried out by M/s Ecochem, Surat as per the guidelines of GPCB.
iv	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x and CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and the Gujarat State Pollution Control Board and the Central Pollution Control/ Board.	The data on the ambient air quality is regularly submitted to the Regional office MOEF, Bhopal & the Gujarat State Pollution Control Board.
v	Drill Should be wet operated or with dust extractors and controlled Blasting Should be practiced.	Drilling & Blasting is not practiced at our mine & hence the condition is not applicable.
vi	Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading dump trucks (loading & unloading) points should be provided and properly maintained.	Dust emission at the faces, haulroads & loading/unloading points are controlled by the effective water sprinkling system. We uses total 4 Nos of water sprinklers capacity ranging from 18 KL to 20 KL. The dust emission is regularly monitored by portal to portal & static monitoring system & the record is maintained properly.
vii	Adequate measure should be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting and drilling operation, operations of HEMM, etc Should be provided with ear plug/muffs.	Adequate measure have been taken to control the work noise level within stipulated limit Some of the measure are- <ul style="list-style-type: none"> • Mining equipment is provided with Noise proof cabins. • Regular maintenance of noise generating machinery. • Development of green belt along the roads. Workmen engaged in HEMM operation are provided with ear plugs/muffs.
viii	Industrial waste (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standard prescribe under GSR 422 (E) dated 19 th May 1933 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	No waste from the mine is discharged outside. Used oil quantity to the tune of -1200 ltr/ annum and discarded container quantity of 06 nos given to the registered refiners/ recyclers (Annexure - III)
ix	Vehicular emissions should be kept under control and regularly monitored.	All vehicles in the mine have been checked and pollution under control Certificates has been taken by Govt authorized Vendor.
x	Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribe by the competent authority.	No mine water has been allowed to become acidic. However if so needed water will be treated to keep it under prescribed limit of the GPCB.

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xi	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the Gujarat State Pollution Control Board.	Environmental laboratory has been established having following pollution monitoring & analysis equipments. a) Noise level monitoring dozometer b) Digital lux meter c) High volume Dust sampler d) PDS (CIP – 10) e) Weight Balance (L.C. – mg) etc.
xii	Person working in dusty areas should wear protective respiratory devises and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillence program of the worker should be under taken periodically to observe any contraction due to exposure to dust and take corrective measure if needed.	Dust mask has been provided to all workmen working in the dusty areas and the necessary training has been imparted at our Vocational training center. For periodical Occupational health check up in connection to dust related disease, our occupational Health Center is equipped with X - Ray machine, Spirometry and other equipment. Occupational health survillence programme is under taken periodically as per the Mines rule - 1955 (Annexure-IV)
xiii	A separate Environmental Management Cell with suitable qualified personnel should be set up under the controller of Senior Executive, who will report directly to the Head of the company.	Environment Management cell has been set up.
xiv	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other propose. Year –wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.	Separate financial provisions for environmental protection allocated in every year annual budget the year wise expenditure is also reported to the MOEF Regional office, Bhopal vide our half yearly report.


 19/03/2024
 M. Nipane
 Dy. General Manager (Mines)
 Valia Lignite Opencast Mine
 Surat Lignite Power Plant,
 Gujarat Industries Power Company Ltd,
 P.O- Nani Naroli, Taluka- Mangrol,
 Dist- Surat, - 394110
 Gujarat.

(4/4)

(ANNEXURE-1)
Sub: Expenditure made for the Environmental Management Plan with item wise & year wise break-up.
 (All figures are in Lac Rs.)

Year → →	Particulars of the activities						Jan- June 2020	Jun- D 20
Development Peripheral Green Belt.	of Green Belt development along lease boundary of Mangrol - Vaila Mine using Forest Species & Seeding & Gap Filling	2016	2017	2018	2019			
Maintenance & protection of Greenbelt	Maintenance & protection of Greenbelt (Along lease boundary of Vaila Mine & Lignite Transport Road)	6.05						
Dump plantation & maintenance	Plantation on black cotton at External Dump	20.34					66.5	
Preparation , cleaning of settling pond, catch drains, Garland drains etc	Plantation through seeding at External Dump	0.96						
Monitoring of Environmental parameter	Sitting 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	8.54	
Dust suppression measures in mines	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	0.57	
Remote Imageries of the region.	Round the clock water spraying and road grading prevents formation & emission of Dust	81.0	67.5	56.6	60.4	40.5	22.91	
Ground Water quality monitoring	Three year stage remote sensing to monitor the changes in the land use pattern and related impacts due to mining. Ground water level & quality monitoring in the core as well as buffer zone	-		3.26	-	-	-	
Total.....		0.67		0.65	0.50	0.50	0.5	
Total (Cumulative)		120.14	96.71	75.37	82.60	58.07	99.072	
		1004.35	1101.06	1221.8	1304.40	1362.47	1461.54	

Deputy General manager (Mines)

M A Nipane
 19/08/2024

V. S. S.

(Annexure-II)

DATALOGGER ID	DATE/TIME	BATTERY VOLTAGE (V)	WATER LEVEL (mWC)	TEMPERATURE (degC)	BAROMETRIC (hPa)	INSTANT RAIN (mm)	DAILY RAIN (mm)
B010	6/30/2020 8:00	3.13	-1.08E+01	28.4	997.5	0	0
B010	7/2/2020 8:00	3.13	-1.06E+01	28.4	996.5	0	0
B010	7/4/2020 8:00	3.13	-1.02E+01	28.4	993.2	0	0
B010	7/6/2020 8:00	3.13	-9.71E+00	28.4	990.6	0	0
B010	7/8/2020 8:00	3.13	-9.84E+00	28.4	995.2	0	0
B010	7/10/2020 8:00	3.13	-9.21E+00	28.4	996.7	0	0
B010	7/12/2020 8:00	3.13	-9.24E+00	31.3	997.6	0	0
B010	7/14/2020 8:00	3.13	-8.73E+00	29.3	997.2	0	0
B010	7/16/2020 8:00	3.13	-8.47E+00	28.5	993.7	0	0
B010	7/18/2020 8:00	3.13	-8.92E+00	28.4	995	0	0
B010	7/20/2020 8:00	3.13	-8.38E+00	28.4	997.1	0	0
B010	7/22/2020 8:00	3.13	-9.16E+00	28.4	1000	0	0
B010	7/24/2020 8:00	3.13	-8.15E+00	28.4	1000.3	0	0
B010	7/26/2020 8:00	3.13	-7.99E+00	29	1001.4	0	0
B010	7/28/2020 8:00	3.13	-7.86E+00	28.7	1000.3	0	0
B010	7/30/2020 8:00	3.13	-7.61E+00	28.5	997.6	0	0
B010	8/1/2020 8:00	3.13	-8.01E+00	28.5	997.2	0	0
B010	8/3/2020 8:00	3.13	-7.71E+00	28.4	994.4	0	0
B010	8/5/2020 8:00	3.13	-7.73E+00	28.4	988.8	0	0
B010	8/7/2020 8:00	3.13	-7.59E+00	28.4	992.6	0	0
B010	8/9/2020 8:00	3.13	-7.02E+00	29.5	996.5	0	0
B010	8/11/2020 8:00	3.13	-6.69E+00	29.4	997.4	0	0
B010	8/13/2020 8:00	3.13	-6.13E+00	29.3	996.6	0	0
B010	8/15/2020 8:00	3.13	-5.79E+00	29	993.5	0	0
B010	8/17/2020 8:00	3.13	-5.48E+00	28.9	994.6	0	0
B010	8/19/2020 8:00	3.12	-5.12E+00	29.3	996.4	0	0
B010	8/21/2020 8:00	3.12	-4.86E+00	28.9	996.1	0	0
B010	8/23/2020 8:00	3.12	-4.56E+00	29.2	996.8	0	0
B010	8/25/2020 8:00	3.12	-4.32E+00	29.3	1000.7	0	0
B010	8/27/2020 8:00	3.12	-4.35E+00	29.3	1001.2	0	0
B010	8/29/2020 8:00	3.12	-1.00E+03	29.3	997.6	0	0
B010	8/31/2020 8:00	3.12	-1.00E+03	29.8	999.3	0	0
B010	9/2/2020 8:00	3.12	-1.00E+03	30.1	1003.5	0	0
B010	9/4/2020 8:00	3.11	-1.00E+03	30.2	1001.4	0	0
B010	9/6/2020 8:00	3.11	-1.00E+03	30.2	999.9	0	0
B010	9/8/2020 8:00	3.11	-1.00E+03	29.7	1002	0	0
B010	9/10/2020 8:00	3.11	-1.00E+03	29.6	998.6	0	0
B010	9/12/2020 8:00	3.11	-1.00E+03	29.2	998.5	0	0
B010	9/14/2020 8:00	3.11	-1.00E+03	28.9	1000.4	0	0
B010	9/16/2020 8:00	3.11	-1.00E+03	28.8	1000.9	0	0
B010	9/18/2020 8:00	3.1	-1.00E+03	28.7	1000.2	0	0
B010	9/20/2020 8:00	3.1	-1.00E+03	28.7	996.5	0	0
B010	9/22/2020 8:00	3.1	-1.00E+03	28.6	995.5	0	0
B010	9/24/2020 8:00	3.09	-1.00E+03	28.9	1000.9	0	0
B010	9/26/2020 8:00	3.09	-1.00E+03	29.3	1001.1	0	0
B010	9/28/2020 8:00	3.09	-1.00E+03	29.2	1004.2	0	0
B010	9/30/2020 8:00	3.09	-1.00E+03	28.8	1002.5	0	0
B010	10/2/2020 8:00	3.09	-1.00E+03	28.9	1003	0	0
B010	10/4/2020 8:00	3.09	-1.00E+03	28.9	1004.3	0	0
B010	10/5/2020 8:00	3.09	-1.00E+03	28.9	1003.9	0	0
B010	10/8/2020 8:00	3.09	-1.00E+03	28.9	1003.9	0	0
B010	10/10/2020 8:00	3.09	-1.00E+03	28.9	1002.7	0	0
B010	10/12/2020 8:00	3.09	-1.00E+03	28.7	999.2	0	0

[Handwritten signature]



H I Industries [54366]
(Hazardous Waste Manifest)

(Annexure - III)
Manifest No:
1260272
23/02/2021

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details					
Sender Name	Mangrole Lignite Mine-Gujarat Industries Power Company Ltd. [29713]				
Address	Taluka :MAG Distict:SUR Pin no:394110				
Contact Details	9978937702 goyalpc@gipcl.com	GPS Coordinates	Lat :21.2500 Long :73.0600		
Receiver's Details					
State	Gujarat	Type of Facility	Actual user (within state)		
Facility Details	H I Industries [54366]				
Contact Details	9898740278 memon.toufik111@gmail.com	GPS Coordinates	Lat :23.0012 Long:72.5744		
Address	Near AMC Solid Waste Dump site Bherampura ,- Taluka :ADC Distict:ABD Pin no:380022				
Waste Details					
Waste Details	I~5~5.1~Used or Spent Oil				
Waste Intended for	Recycling	Total Qty	0.522MT	Consistency	liquid
Transporter Details					
Name	H I INDUSTRIES	Contact Details	9898740278 memon.toufik111@gmail.com		
Address	Sr No.141,142,143,Near AMC Solid Waste Dump Site, Behrampura District :Ahmedabad Taluka :Ahmedabad				
Vehicle Details					
Vehicle no	GJ19V2539	GPS Enabled	Yes	Type of Vehicle	Tempo
Driver name	HARUN BHAI	Driver Contact No	9265923144		
Waste Transportation Details					
Vehicle Depart.	22/02/2021 3:15PM	Number of Drums	3	Loose Waste	0.000
Remarks	WASTE OIL.		No of bags	0	
Sender's Declaration :					
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.					
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.					
Name and stamp of sender:		Date:	Signature:		
Transporter's Acknowledgement of Receipt of waste Stamp:		Date:	Signature:		
Receiver's Certification of Receipt of Hazardous waste					

In Principal Approval Details :Accepted - 22/02/2021 4:31PM -Remarks :HI INDUSTRIES

Stamp:

Date: 22-2-2022

FOR, H. I. INDUSTRIES
Signature: *[Handwritten Signature]*

PARTNER

FORM-O

(See Rule 29F (2), and 29L)
Report of medical examination under rule 29B
(The issued in triplicate)

Certificate No: 202115-38/4396

Certified that Shri/Smt Vijaykumar Chandhary employed as Machine Operator in GIPCL VALIA LIGNITE MINE, Form A No.....has been examined for an initial/periodical medical examination. He/She appears to be 27 years of age. The findings of the examining authority are given in the attached sheet. It is considered that Shri/Smt Vijaykumar Chandhary

- www. is medically fit for any employment in mines.
- xxx. is suffering from.....and is medically unfit for
 - (i) any employment in mine; or
 - (ii) any employment below ground; or
 - (iii) any employment or work.....

c. is suffering fromand should get this disability cuerd/controlled and should be again examined within a period of months. He/She will appear for re-examination with the result of test of.....and the opinion ofspecialist from He/She may be permitted/not permitted to carry on his duties during this period.



Signature of the examining authority

.....
Name and designation in Block letters

202115-38/4396

Place: GIPCL VALIA LIGNITE MINE

Date: 12-Jan-21



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 ^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 M A Nipane Deputy 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) 9727757613 Fax: 02629-261112
	b) Address of concerned Engineer with pin code and telephone/Telex/Fax No.	:	Sri M A Nipane Deputy 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) 9727757613 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, NO _x , SO _x , 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 2020.	:	Project cost is 325 Crores based on price reference of the year 2009. The details provided in Annexure – I with this data sheet. Rate of return for the Mangrol- Valia Mining Project is @.12.32% for the year 2020. Environmental Management cost included. 325.00Crores 157.142 Lakh 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 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 NA
11	The experience of clear felling in non forest area (Such as submergence area of	:	Area where active mining work is in progress contains no such vegetation and there are no

	reservoir, approach road) if any with quantitative information.		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	:	
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.

M A Nipane
19/03/2021

M A Nipane
Deputy General manager (Mines)

ANNEXURE - I

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

Particulars	2016	2017	2018	2019	Jan- June 2020	July - Dec 2020
Particulars of the activities						
Development of peripheral Green Belt.	6.05	-----	-----	-	---	66.55
Maintenance & protection of Greenbelt (Along lease boundary of Valia Mine & Lignite Transport Road)	20.34	-----	-----	-	---	
Dump plantation & maintenance	0.96	-----	-----	-	-	
Preparation, cleaning of silt pond, catchment ponds, Garland drains etc	6.90	26.4	12.39	20.56	16.5	8.54
Monitoring of environmental parameter	4.22	2.81	2.47	1.14	0.57	0.57
Dust suppression measures in mines	81.0	67.5	56.6	60.4	40.5	22.91
Remote sensing agencies of the region.	-	-----	3.26	-	-	
Ground Water quality monitoring	0.67	-----	0.65	0.50	0.50	0.5
Total....	120.14	96.71	75.37	82.60	58.07	99.072
Total (Cumulative)	1004.35	1101.06	1221.8	1304.40	1362.47	1461.54



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Deputy General manager (Mines)

15

PLANTATION ACTIVITY FROM 2011 TO JUNE. - 2020

S.No.	Year	Code	Location	Area (Ha)	No. of trees
(A)	Peripheral green belt development				
	1	Fto m	GBD-MA Both side of alternative Shah Road & Lignite Transport Road & Out plant stockyard	11.0	16410
	2	year	GBD-MB Both side of Lignite Transport Road	9.5	15344
	3	2012	GBD-MC Lease Boundary of Mangrol Pit	5.0	12437
	4	to June 2018	GBD-MD Lease Boundary of Mangrol Pit GBD-VA Lease Boundary around Valia Pit	2.4 95.5	3400 153509
			TOTAL(A)	121.0+2.4	197700+3400
(B)	Dump Plantation				
	1	2012	External dump Valia Mine	-	-
©	Seed Spraying				
1	2012	---	External dump(Valia Mine)	02.0	100 Kg
2	2013	---	Mangrol pit dump	05.0	200 Kg
3	2014	---	Along periphery of Mangrol Mine	08.0	100 Kg
4	2015	---	Along OB dump benches of Valia Mine	05.0	05 Kg
5	2018	-	Along periphery of Mangrol Mine	-	-
6	2019	-	Along OB dump benches of Valia Mine	-	-
7	2020	-	-----	-	-----


 M. A. Nipane 19/03/2021
 Deputy General manager (Mines)