

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/ 2074

29th July- 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)

<u>Sub :-</u>		DEF's EC & other compliance reports in respect of Mangrol-Valia Lignite Mines, of M/s Gujarat lustries Power Company Ltd, for the period from <u>Jan to June- 2021.</u>
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 <u>Jan to June- 2021</u>

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

M A Nipane

Addl. General Manager (Mines) Mangrol-Valia Lignite mine

Encl :-

- 1 EC Compliance Report for the period <u>Jan to June- 2021</u> as ANNEX-A
- Data Sheet Part I As ANNEX-B along with Pieozometer Reading.
- Six Monthly Environmental Monitoring & Analysis Report for the period of <u>Jan to June-</u> 2021 As ANNEX-II

<u>cc :-</u>

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,

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

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Phone : EPABX (0265) 2230182 / 2230028 / 2232768

Fax : 2230029 E-mail : genbaroda@gipcl.com

Website: www.gipcl.com CIN No.: L99999GJ1985PLC007868

COMPLIENCE REPORT OF MANGROL - VALIA MINE AS PER APPROVED MINING PLAN FOR 4.2 MTPA FOR THE PERIOD OF JANUARY 2021 TO JUNE 2021

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

Sr.No	Condition Condition	Compliance Status
	SPECIFIC CONDITION AS	
ľ	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.
	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.	 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, as per approved mining plan The height of the dump is max 32 meters from ground level & overall slope is 16 degree.
	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. 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.	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. Garland Drain has been constructed for mine pit waste dumps which are de-silted and properly maintained. 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. Sump capacity in Mangrol block 325000 M3 and in Valia block 400000 M3 has been designed considering Maximum rainfall and catchment area.
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.	소계 이 마이트 전통 프라이트 보다 있습니다. 전 시간 이 전 시간 사람들은 경우 이 전 시간 사람들이 되는 경우를 하면 보면 하지 않는데 이 이 이 없는데 이 이 없는데 이 이 사람들이 되었다.

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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 acquired in non mineralized area for development of an alternate grazing ground.	area has been provided for double the
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.	through M/s DEEP Trust (an NGO promoted by GIPCL.) and Forest Department. Till date, in Mangrol block, 47591 tress 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 pizometer installed in Mangrol Valia block. Ground water quality monitoring is being carried out by M/s Eco system Envvironment.(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 water is used for Plantation.
kii	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.
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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.
В.	GENERAL CONDITION	ON AS PER MOEF
l .	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, SO2, NOx and CO monitoring. Location of the station should be decided based on the meteorological data, topographical feature and ecology sensitivity 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, SO2, NOx 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, haul roads & 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- • 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 confirm 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.	of 06 nos given to the registered refiners/ recyclers (Annexure –III) A & B
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.	



ANNEXURE- A

хī	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.	having following pollution monitoring & analysis
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 surveillance 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, Spirometery 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.

1/20 07/2021

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

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MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS MINISTRY OF ENVIRONMENT AND FOREST (MOEF) REGIONAL OFFICE (W), BHOPAL

MONITORING REPORT
PART - I

	DATA SHE	ET			
No.			Miles		
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	1	Surat		
	b) State	2	Gujarat		
	c) Latitude/Longitude	:	Latitude- 21° 25' to 21° 31' Longitude: 73° 06' to 73° 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		Greenbelt development on 25.5+2.4 Ha of peripheral mining lease area comprising of 44191+3400 no trees has been developed till date. 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 Environmenta Clearance vide letter no. J-11015/38/99-IA II (M) dated 21st July 2003. The detai 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.	:	The most of the mining lease land had previously used for agricultural purpose. There were no dwelling units/ houses previously existing in such area.
	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.		
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 &	:	Project cost is 325 Crores based on price reference of the year 2009. The details provided in Annexure – I with this data sheet.
	year wise break up.	:	Rate of return for the Mangrol- Valia Mining Project is @.2.15% for the year 2021.
	Whether (c) includes the cost environment management as shown in the above.		Environmental Management cost included.
	Actual Expenditure incurred so far on the project.	:	325.00Crores
	far 2021,	1	9.38145 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 a	:	NA
	c) The status of compensatory a 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

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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	:	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	1	
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.

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



ANNEXURE - I

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	2020	Jan -Jun 2021
Item ↓	Particulars of the activities						
Development of Peripheral Green Belt.	Green Belt development along lease boundary of Mangrol – Valia Mine using Forest Species & Seeding & Gap Filling	6.05		-	1	66.55	9.38
Maintenance & protection of Greenbelt	Maintenance & protection of Greenbelt (Along lease boundary of Valia Mine & Lignite Transport Road)	20.34	I			1	1
Dump plantation &	Plantation on black cotton at External Dump	96.0	1	1		•	ı
maintenance	Plantation through seeding at External Dump	1	i	1	-	1	
Preparation , cleaning of settling pond, catch drains, Garland drains etc	35 9 90	6.90	26.4	12.39	20.56	25.04	17.79
Monitoring 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	41.1	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	63.41	44.19
S	Three year stage remote sensing to monitor the changes in the land use pattern and related impacts due to mining.	12	1	3.26			1
Ground Water quality monitoring	Ground water level & quality monitoring in the core as well as buffer zone	0.67		0.65	0.50	1.0	
Total		120.14	96.71	75.37	82.60	157.14	71.93
Iotal (Cummulative)		1004.35	1101.06	1221.8	1304.40	1461.54	1533.47

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

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PLANTATION ACTIVITY FROM 2011 TO June. - 2021

S.No.	Year	Code	Location	Area (Ha)	Area (Ha) No. of trees
(A)	Perip	Peripheral green belt dev	belt development		01101
-	0 8	GBD-MA	Both side of alternative Shah Road & Lignite Transport Road & Out plant stockward	11.0	16410
c	1000	aw dag	Both eide of Lionite Transport Road	9.5	15344
7 0	2012	SBD-MD	Lease Boundary of Manarol Pit	5.0	12437
2 4	1 5	GBD-MD	Lease Boundary of Mandrol Pit	2.4	3400
-	June	GBD-VA	Lease Boundary around Valia Pit	95.5	153509
	2010		TOTAL(A)	121.0+2.4	197700+3400
(B)	Dump	Dump Plantation			
1	2012		External dump Valia Mine	1	
0	Seed	Seed Spraying			7,000
	2012	-	External dump(Valia Mine)	02.0	100 Kg
2	2013	1	Mangrol pit dump	02.0	200 Kg
	2014	1	Along periphery of Mangrol Mine	0.80	100 Kg
)	: }		Along OB dump benches of Valia Mine	02.0	05 Kg
4	2015		Along periphery of Mangrol Mine	•	
1			Along OB dump benches of Valia Mine		
S.	2018	1		•	
6.	2019			•	
7	2020			•	

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



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SLPP/Mangrol- Valia Mine/ENV. Return/ 2073

29th July- 2021

To, Regional Officer, Surat RO Gujarat Pollution Control Board, 338, Belgium square, Opp. Linear Bus Stand, Surat.

Sub :-	res	port of monitoring the implementation of environmental safeguards in data sheet, Part – I in spect of Mangrol-Valia Lignite Mines, of M/s Gujarat Industries Power Company Ltd, for the riod from Jan to June- 2021.
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This is for your kind information.

Thanking you,

Encl :-

For Gujarat Industries Power Co. Ltd.

M A Nipane

Addl. General Manager (Mines)

Mangrol-Valia Lignite mine

Data Sheet Part – I. As ANNEX-B along with Pieozometer Reading.

Six Monthly Environmental Monitoring & Analysis Report for the period of <u>Jan to June-2021</u>.

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SLPP/Mangrol- Valia Mine/ENV. Return/ 2072

29th July- 2021

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

Sub :-	res		g the implementati -Valia Lignite Mine June- 2021.								
Ref :-	1.	Environmental 2003.	Clearance accorde	d vide	letter no) J-11015/38	3/99-IA.	II (M)	dated	21st	July

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