

(SURAT LIGNITE POWER PLANT)

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

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Courier

SLPP/Vastan Mines/Environment Return/2022/ ソック

17.03.2022

To,
The Reginal Officer,
IRO – Gandhinagar,
Ministry of Environment, Forest & Climate Change (MOEF&CC),
A-407 & A -409, Aranya Bhavan,
CH-3 Circle, Sector No 10A,
Gandhinagar-382010

- <u>Sub</u>:- MOEF's EC & other compliance reports with respect to Vastan Lignite Opencast Mines, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from <u>July-21 to Dec.-2021</u>.
- Ref :- 1. Environmental Clearance accorded vide letter no J-11015/40/95-IA. II (M) dated 19th June 1996.
 - 2. Letter no 4-5/96(ENV) 2534, dated 7th September 1997.

Dear Sir,

Please find enclosed herewith following reports with respect to GIPCL's Vastan Lignite Opencast Mines, Taluka -Mangrol, District - Surat, and State - Gujarat for the period from <u>July-2021 to Dec.-2021</u>.

- 1. EC compliance report as ANNEXURE A.
- 2. Monitoring of the implementation of Env. Safeguard (Data Sheet Part I) as ANNEXURE B and
- 3. Env. Monitoring and analysis report Environmental Monitoring and analysis Report for period ANNEXURE C

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

N.K.Chauhan AGM (Mines)

Encl as above:-

CC :-

The 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

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CIN No : 199999GI1985PIC007868

17/03



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SLPP/Mining/Environment Return/2021/ 7 7 8

17.03.2022

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

Sub:
Report of monitoring the implementation of environmental safeguards in data sheet, Part – I and in respect of Vastan Lignite Mining project, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from July-2021 to Dec.-2021

Ref :-

- Environmental Clearance accorded vide letter no J-11015/40/95-IA. II (M) dated 19th June 1996.
- 2. Letter no 4-5/96(ENV) 2534, dated 7th September 1997.

Dear Sir,

Please find enclosed herewith following details with respect to GIPCL's Vastan Lignite Opencast Mines, Taluka -Mangrol, District - Surat, State - Gujarat for the period <u>July-21 to Dec.-2021</u>

- 1. Monitoring of the implementation of Env. Safeguard (Data Sheet Part I) as ANNEXURE B and
- Env. Monitoring and analysis report Environmental Monitoring and analysis Report for period ANNEXURE – C

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

N.K.Chauhan AGM (Mines)

Encl as above:-

AN IMS COMPANY

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE REGIONAL OFFICE (W), BHOPAL MONITORING REPORT

PART – I DATA SHEET

011		ַט	ATA SHEET
S.N.			
1	Project type: River/valley/Mining/Industry/ther mal/ nuclear/other /specify	:	Mining
2	Name of the project	:	Vastan Lignite Mine
3	Clearance & renewal letter (s) OM no. and date	:	F.No. J-11015/40/95-IA. II (M) dated 19 th June 1996 File No. 3-5/96(ENV)/260 Dated: 12/05/2020
4	a) District	:	Surat
	b) State	1:	Gujarat
	c) Latitude/Longitude	:	Latitude- 21° 22' 47" to 21° 26' 42" Longitude: 73° 05' 47" to 73° 08' 47"
5	Address for correspondence		
	a) Address of concerned Project Chief with pin code and Telephone/Telex/Fax No.		Sri N.K.Chauhan AGM (Mines) Vastan Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Tal: Mangrol, Dist.: Surat – 394 110 Phone: (M) 9909925341 Fax: 02629-261080
	b) Address of concerned Engineer with pin code and telephone/Telex/Fax No.	•	Shri Ananad Kumar Singh, Sr. Manager (Mines) Vastan Lignite Opencast Mine Surat Lignite Power Plant Village: Nani Naroli, Taluka: Mangrol, Dist.: Surat – 394 110. Phone –(M) 9099045783 Fax: 02629-261080
6	Salient Features of	\vdash	1 dx. 02020 201000
	a) 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.
i e i i i i i i i i i i i i i i i i i i	b) Environmental Management Plan		Greenbelt developments on <u>584.86</u> Hectares of mining lease area comprising of <u>9,39,902</u> no trees have been developed till <u>Dec2021</u> . 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. Plantation of on reclaimed area is being done. A brief endeavor of the work done is given in Annexure – I.
	b) Environmental Management Plan		Environmental monitoring for SPM, NOx, SOx, 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 (i.e. from July-21 to Dec2021) is enclosed herewith as Annexure – C.



		1	
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. 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 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. Following population lost only their agricultural land. 5 nos 102 nos 400 nos These figures are based on systematic survey carried out in the year December, 1997.
9	Financial Details 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.
	 b) Allocation made of environmental Management Plan with item wise & year wise break up. c) Benefit cost ratio/internal rate 	: :	The details are provided in Annexure – II with this data sheet. Rate of return on Investment is <u>32.75 %</u> for assessment
	of return and the year of assessment. d) Whether (c) includes the cost environment management as		year <u>2020-21.</u> Yes
	shown in the above. e) Actual Expenditure incurred so far on the project.	:	244.87 Crores.
	f) Actual expenditure incurred on EMP so far (till June 2021).	:	2325.18 Lakhs for Green belt development, Dump plantation, preparation of silting ponds, Environmental Monitoring instruments studies.
10	Forest Land requirement a) The status of approval for diversion of forestland for non-forestry use.	:	NA NA
	b) The Status of clear fellingc) The status of compensatory	:	NA NA
	aforestation, if any d) Comments on viability and sustainability of compensatory aforestation program in the light of actual field experience so far.		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)	:	31.05.1996 (Actual) 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	:	26.03.2007, 29.11.2014, 21.08.2019 21.08.2019 by Dr. H. V. C. Chary Guntupalli, Joint Director/Scientist 'D' Pagional Office
	monitoring		Director/Scientist 'D', Regional Office, Western Zone, Bhopal, MP
15	The monitoring report may contain the details of all the letters issued so far (vide the letters as mentioned)		 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 File No. 3-5/96(ENV)/260 Dated: 12/05/2020



N.K.Chauhan AGM (Mines)

Annexure – I PLANTATION ACTIVITY FROM 1997 to Dec.- 2021

Sr. No	Year	Code / Type of Plant	Location	Area (Ha)	No. of trees
(A)	Periph	neral green belt develop	oment		
1	1997	GBD-A	Lease boundary (Village-Vastan, Jhakharda & Shah)	33	50,967
2	1998	GBD-B	Lease boundary (Village-Vastan & Surali)	21	37,290
3	1999	GBD-C	Lease boundary(Vastan & Shah)	12	21,017
4	2000	GBD-D	Lease boundary(Village- Shah & Cheraetha)	3.5	56,000
5	2001		Near Vastan village	04	6,000
6	2002	GBD-J	Lease boundary(Village- Cheretha))	20	31,368
7	2003	GBD-K	Lease boundary(Village- Surali,Naugama & Tadkeshwar)	34	51,000
8	2004	GBD-L	Lease boundary(village-Vastan & Surali)	12	30,000
9	2005	GBD-M	Along Limestone road,& Vastan village)	16	26,550
10	2006	Jetropha	Lease boundary-Vastan & Surali)	05	13,500
11	2008	GBD-N	Lease boundary of South Pit	20	32,000
12	2009	GBD-O	Lease boundary of South Pit	20	32,000
13	2011	GBD-Q	Lease boundary of South Pit near Surali Village	8	12,800
14	2012	GBD-R South and North pit periphery area		19.5	25,100
15	2013	GBD-S	D-S Lease boundary of Vastan Mines		16700
16	2014	GBD-T	Lease boundary of Vastan Mines	13.5	4800
17	2015	GBD-U	-	-	
18			Lease boundary near north side of Limestone Pit	2	3800
19	2017	Forest species	South pit in west side of BC Dump	2.38	3300
20	2018	Forest species	South pit in west side of BC Dump as a gap filling	0.84	1355
21	2019	Junglee Variety	Eastern side Lease boundary of Vastan Mine near Nani Naroli Village	1.5	1670
22	2020	Bengali babul, Gulmohar, Neem etc	North west corner side of Pit No.1, along the limestone boundary	0.35	473
		Sevan, Pipdo, Sitafal, Mahuda, Kaju, Jambudo, Kanjo, Arjun and Neem	Eastern side Lease boundary of Vastan Mine near Nani Naroli Village after harvesting of Bamboo plantation new plantation have been carried out as a gap filling	30.00	33330
	2021 (July	Gmelina arborea, Ficus religiosa, Annona Squamosa, Modhuca indica, Anacardium	South-Eastern side Lease boundary of Vastan Mine near Nani Naroli Village after harvesting of Bamboo plantation, new plantation has been carried out.	12	13332
23	to Dec.)	Occidentale, Syzygium cumunii, Holoptelia integrifolia, Hardwic kia binata and Azadirachta indica	Western side Lease boundary of Vastan Mine near Charetha & Surali Village. Plantation have been carried out as a gap filling	18	19998
			Total (A)	311.57	5,24,350



1 199 2 200 3 200 4 200 5 200 6 20 7 20 8 20 10 20 11 20 12 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	999 1001 1005 1006 1007 110 111 112 113 114 115 116 117 118 119 11	Plantation flower plant	External dump near ELHS External dump	2.5 04 02 42 30 5 8 0.5 - - - - - - - - - - - -	7500 12,000 3887 42,549 38,027 8,000 12800 1052 125815 No. of trees
2 200 3 200 4 200 5 200 6 20 7 20 8 20 10 20 11 20 12 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	001 005 006 007 010 011 012 013 014 015 016 017 018 019 (ear	flower plant flower plant	External dump External dump External dump External dump External dump near ELHS External dump Total (B) Location	02 42 30 5 8 0.5 - - - - - 94 Area (Ha)	3887 42,549 38,027 8,000 12800 1052 125815 No. of trees
3 200 4 200 5 200 6 20 7 20 8 20 9 20 10 20 11 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	005 006 007 010 011 012 013 014 015 016 017 018 019 (ear	flower plant flower plant	External dump External dump External dump External dump near ELHS External dump Total (B) Location	42 30 5 8 0.5 - - - - - - - - - - - - - - - - -	42,549 38,027 8,000 12800 1052 125815 No. of trees
4 200 5 200 6 20 7 20 8 20 9 20 10 20 11 20 13 20 14 20 16 20 Sr. Y No. Y (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	006 007 010 011 012 013 014 015 016 017 018 019 'ear eclair 007	flower plant flower plant Type of Plant med Area Plantation Jetropha Jetropha Jetropha	External dump External dump near ELHS External dump	30 5 8 0.5 - - - - 94 Area (Ha)	38,027 8,000 12800 1052 - - - - - - - - - - - - - - - - -
5 200 6 200 7 200 8 200 9 200 10 200 11 200 13 200 14 200 16 200 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	007 010 011 012 013 014 015 016 017 018 019 (ear	flower plant	External dump External dump near ELHS External dump	5 8 0.5 - - - - - - - 94 Area (Ha)	8,000 12800 1052 - - - - - - - - - - - - - - - - -
6 20° 7 20° 8 20° 9 20° 10 20° 11 20° 12 20° 13 20° 14 20° 16 20° Sr. Y No. (C) Re 1 20° 2 20° 3 20° 4 20° 5 20° 6 20° 7 20° 8 20°	110 111 112 113 114 115 116 117 118 119 (ear	flower plant	External dump External dump near ELHS External dump Total (B) Location	8 0.5 - - - - - - 94 Area (Ha)	12800 1052 - - - - - - - - 125815 No. of trees
7 20° 8 20° 9 20° 10 20° 11 20° 12 20° 13 20° 14 20° 16 20° Sr. Y No. (C) Re 1 20° 2 20° 3 20° 4 20° 5 20° 6 20° 7 20° 8 20°	111 112 113 114 115 116 117 118 119 (ear eclair 1007	Type of Plant med Area Plantation Jetropha Jetropha	External dump near ELHS External dump Total (B) Location	0.5 - - - - - - 94 Area (Ha)	1052 - - - - - - 125815 No. of trees
8 20° 9 20° 10 20° 11 20° 12 20° 13 20° 14 20° 16 20° Sr. Y No. (C) Re 1 20° 2 20° 3 20° 4 20° 5 20° 6 20° 7 20° 8 20°	112 113 114 115 116 117 118 119 (ear eclair 1007	Type of Plant med Area Plantation Jetropha Jetropha	External dump Total (B) Location	 - - - - - - 94 Area (Ha)	
9 20 10 20 11 20 12 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	013 014 015 016 017 018 019 (ear eclair 007	Type of Plant med Area Plantation Jetropha Jetropha		- - - - - 94 Area (Ha)	125815 No. of trees
10 20 11 20 12 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	014 015 016 017 018 019 (ear eclair 007	Type of Plant ned Area Plantation Jetropha Jetropha		- - - - - 94 Area (Ha)	125815 No. of trees
Sr. Y (C) Re 1 20 2 20 3 20 4 20 5 20 7 20 8 20	015 016 017 018 019 (ear eclair 007	Type of Plant ned Area Plantation Jetropha Jetropha		- - - - 94 Area (Ha)	- - - 125815 No. of trees
12 20 13 20 14 20 16 20 Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	016 017 018 019 (ear eclair 007	Type of Plant ned Area Plantation Jetropha Jetropha	Total (B) Location	- - - - 94 Area (Ha)	125815 No. of trees
Sr. Y No. (C) Red 2 2 20 3 20 4 20 6 20 7 20 8 20	017 018 019 /ear eclair 007	Type of Plant ned Area Plantation Jetropha Jetropha	Total (B) Location	- - - 94 Area (Ha)	125815 No. of trees
Sr. Y No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	18 119 /ear eclair 007 008	Type of Plant med Area Plantation Jetropha Jetropha	Total (B) Location	94 Area (Ha)	125815 No. of trees
Sr. Y No. (C) Re 1 20 2 20 3 20 4 20 5 20 7 20 7 20 8 20	/ear eclair 007	Type of Plant ned Area Plantation Jetropha Jetropha	Total (B) Location	94 Area (Ha)	125815 No. of trees
Sr. Y No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	eclair	Type of Plant ned Area Plantation Jetropha Jetropha	Total (B) Location	94 Area (Ha)	125815 No. of trees
No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	eclair 007 008	ned Area Plantation Jetropha Jetropha	Location	Area (Ha)	No. of trees
No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	eclair 007 008	ned Area Plantation Jetropha Jetropha	Location	Area (Ha)	No. of trees
No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	eclair 007 008	ned Area Plantation Jetropha Jetropha		(Ha)	trees 11,136
No. (C) Red 1 20 2 20 3 20 4 20 5 20 6 20 7 20 8 20	eclair 007 008	ned Area Plantation Jetropha Jetropha		(Ha)	trees 11,136
No. (C) Red 1 20 2 20 3 20 4 20 5 20 7 20 7 20 8 20	eclair 007 008	ned Area Plantation Jetropha Jetropha		04	11,136
1 20 2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	007 008	Jetropha Jetropha			
2 20 3 20 4 20 5 20 6 20 7 20 7 20 8 20	800	Jetropha			
3 20 4 20 5 20 6 20 7 20 7 20 8 20			-	05	13,504
4 20 5 20 6 20 7 20 7 20 8 20	009	Bamboo			1
5 20 6 20 7 20 7 20 8 20		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		25	32000
5 20 6 20 7 20 7 20 8 20		Plantation			
6 20 7 20 7 20 8 20	009	Junglee Variety		5	5000
7 20 7 20 8 20)11	Junglee Variety		12	19200
7 20 8 20)12	Junglee Variety		20	32000
8 20	013	Forest Species		22	33000
8 20	014	Forest Species	-	15	26500
	015	Forest Species	-	12.4	18600
9 20	016	Forest Species		12.27	18400
	017	-	-	-	_
	018	Bengali babul & Gulmohar	South-pit North-West side reclaimed area	1.74	2815
12 20	019	Bengali babul & Gulmohar	South-pit North-West side BC dump reclaimed area	2.75	4950
20	020	Bengali babul,	Reclaimed area (NW side) of South Pit	3.15	4091
13	020	Gulmohar, Neem	Limestone (Pit 1) reclaimed area	1.27	1575
	2021 July	Bengali babul, Gulmohar, etc	North-West corner side of south Pit Reclaimed Area	2.25	3015
14	to Dec.)	Paltro, Saptparni, Bengali babul, Limda, Nilgiri, etc	Limestone (Pit 1) near the eastern side of Reclaimed Area	1.28	1630
			↑ Total (C)	145.11	2,27,41

(D)	046	14-4			
(D) 1	2000	lantation activity	1.0		
2	2000	CDD F	Mines road	02	3100
3		GBD-F	Ambawadi (Near DEEP nursery)	0.5	290
	2000	GBD-H	Near Demo Shed	03	13,200
4	2001		Mines road	1.6	2500
5	2005	 	Mines road	03	400
6	2007	Bamboo plantation	Near DEEP farm house	05	8000
7	2011	General Plantation	Near & at ELHS	2	3200
8	2012		Near & at ELHS	4	9600
9	2013	General Plantation	Near Limestone pit .	1	1200
10	2014	-		-	1200
11	2015	Forest Species	Near Limestone Crusher	2.67	8000
12	2016	Forest Species	Near East side of Limestone Pit	2.73	4100
		Mango trees	Near Vastan site Office	0.3	50
13	2017	-	-	-	
14	2018	trees, Kasid, Bengali babul, Peltro, Neem, Gulmohar etc	Near Vastan site Office & GVTC, Near Lime Stone crusher area	2.66	3543
15	2019	Mango (Kesar), Lemon & Amrud kalam	Near Vastan site Office gap filling of o.3 Ha area		50
		Bengali babul & Gulmohar	Along Limestone Transport Road around 600M from crusher area	2.37	3500
16	2020 (July to Dec	Bengali babul, Gulmohar,Neem, etc	Surface (NW side) of South Pit	0.52	678
10	20)	Bengali babul, Gulmohar,Neem, etc	Near eastern side of Limestone boundary, between crusher to Pit No.3	0.80	910
17	2021 (July to Dec.)				
			Total (D)	34.15	62,321
		-	GRAND TOTAL (A+B+C+D)	584.83	9,39,902

A

No.	Year	ar Code /Type of Location		Area (Ha)	No. of trees
(E)	Seed S	praying			
1	1998	Dump-A	External dump	05	3000 Kg
2	1999	Dump-B	External dump	05	300 Kg
3	2000	Dump-C	External dump	28	790 Kg
4	2001	Dump-D	External dump	124	5760 Kg
5	2003	Dump-E	External dump	54	1620 Kg
6	2011	Dump-F	External dump, Bund near ELHS road	8	450 Kg
7	2012	Dump-G	Vastan Mines Cheretha Site	6	120 Kg
8	2013	1	Western side edge of Vastan north Pit	2	100kg
9	2014	_	-	-	-
10	2015			-	_
17	2016		Reclaimed area	5	62 KG
18	2017	-	-	-	_
19	2018	-	-	-	
	2010		Reclaimed area		
20	2019		(su-babool and Bangali Babool)	2	30 Kg
21	2020			W 20 10 10	
	2020		Total (E)	239	12202 Kg
1					2150 Kg
1	1999				2150 Kg
2	2000				
3	0004				550 Kg
	2001				5760 Kg
4	2002				5760 Kg 2600 Kg
5	2002 2003				5760 Kg 2600 Kg 280 Kg
5 6	2002 2003 2004				5760 Kg 2600 Kg 280 Kg 525 Kg
5 6 7	2002 2003 2004 2005				5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg
5 6 7 8	2002 2003 2004 2005 2007				5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg
5 6 7	2002 2003 2004 2005		External Dump		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg
5 6 7 8	2002 2003 2004 2005 2007		External Dump		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg
5 6 7 8 9	2002 2003 2004 2005 2007 2008				5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg
5 6 7 8 9 10	2002 2003 2004 2005 2007 2008 2009		External Dump		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg
5 6 7 8 9 10 11	2002 2003 2004 2005 2007 2008 2009 2010		External Dump Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL
5 6 7 8 9 10 11 12	2002 2003 2004 2005 2007 2008 2009 2010 2011		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg
5 6 7 8 9 10 11 12 13	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL
5 6 7 8 9 10 11 12 13 14	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL NIL
5 6 7 8 9 10 11 12 13 14 15	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL
5 6 7 8 9 10 11 12 13 14 15 16 17	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL NIL
5 6 7 8 9 10 11 12 13 14 15 16 17	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL NIL NIL
5 6 7 8 9 10 11 12 13 14 15 16 17 18	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018		External Dump Bund of Garland drains Bund of Garland drains		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL NIL NIL
5 6 7 8 9 10 11 12 13 14 15 16 17	2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017		External Dump Bund of Garland drains Bund of Garland drains South pit west side near BC bund		5760 Kg 2600 Kg 280 Kg 525 Kg 1000 Kg 1000 Kg 1000 Kg 400 Kg 400 Kg NIL NIL NIL NIL NIL SOKg

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N.K.Chauhan AGM (Mines) Annexure - II

Year →		2013	2014	2015	2016	2017	2018	2019	2020	2021 (Jan. to June)	2021 (July to Dec.)
Item ▼	Particulars of the activities										<u> </u>
Development & maintenance of Plantation (Greenbelt, Reclaimed area and other)	Greenbelt Development along lease boundary, along Haul road & plantation on reclaimed area in mining premises. 1) New plantation by MDO at peripheral green belt development & maintenance. 2) At peripheral green belt development & maintenance. 3) After preparatory work done at reclaimed area, plantation was done. 4) Preparation of land for plantation	113.70	71.50	94.19	33.65	12.68	1.03	1.19	103.53	85.59	0.79
Dump plantation	Dump plantation maintenance, development and plantation cost	6.094	0.13	0.10	0.03	-	-	-	-		-
Preparation of settling pond	Silting pond for settlement of suspended solids from the discharge mine water, being pumped out during the monsoon season.	0.30	0.63	0.57	0.30	0.30	0.30	3.33	6.19	0.87	5.22
Monitoring of Environmenta I 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.	1.39	1.85	2.31	2.40	2.44	1.85	1.04	1.0	0.61	0.61
Dust suppression measures in mines	Round the clock water spraying and road grading prevents formation & emission of Dust.	105.47	137.28	135.02	89.71	121.89	132.2	89.42	70.51	59.90	15.56
Remote sensing	Three-year stage remote sensing.	2.00	_	1.99	-	-	3.25				
Total Amount	(in Lac Rs)	228.95	211.39	234.18	126.09	137.31	138.63	94.98	181.23	146.97	22.52
Cum. Total	(Period from 1997 to June- 2021)	1032.8 (1997 to 2012)	1244.10	1478.28	1604.37	1741.68	1880.31	1975.29	2156.52	2303.49	2326.01



N.K.Chauhan AGM (Mines)



(SURAT LIGNITE POWER PLANT)

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

Phone: (02629) 261087 Fax: (02629) 261112 E-mail: cgmminesoffice@gipcl.com

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SLPP/Vastan Mines/Environment Return/2022/ ソック

17.03.2022

To,
The Reginal Officer,
IRO – Gandhinagar,
Ministry of Environment, Forest & Climate Change (MOEF&CC),
A-407 & A -409, Aranya Bhavan,
CH-3 Circle, Sector No 10A,
Gandhinagar-382010

- <u>Sub</u>:- MOEF's EC & other compliance reports with respect to Vastan Lignite Opencast Mines, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from <u>July-21 to Dec.-2021</u>.
- Ref :- 1. Environmental Clearance accorded vide letter no J-11015/40/95-IA. II (M) dated 19th June 1996.
 - 2. Letter no 4-5/96(ENV) 2534, dated 7th September 1997.

Dear Sir,

Please find enclosed herewith following reports with respect to GIPCL's Vastan Lignite Opencast Mines, Taluka -Mangrol, District - Surat, and State - Gujarat for the period from <u>July-2021 to Dec.-2021</u>.

- 1. EC compliance report as ANNEXURE A.
- 2. Monitoring of the implementation of Env. Safeguard (Data Sheet Part I) as ANNEXURE B and
- 3. Env. Monitoring and analysis report Environmental Monitoring and analysis Report for period ANNEXURE C

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

N.K.Chauhan AGM (Mines)

Encl as above:-

CC :-

The 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

Website: www.gipcl.com



Phone : EPABX (0265) 2232768/2213/0159
Fax : 2231207 E-mail : genbaroda@gipcl.com
CIN No : 199999GI1985PIC007868

17/03



(SURAT LIGNITE POWER PLANT)

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Courier

SLPP/Mining/Environment Return/2021/ 7 7 8

17.03.2022

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

Sub:
Report of monitoring the implementation of environmental safeguards in data sheet, Part – I and in respect of Vastan Lignite Mining project, Vastan Village, Mangrol Taluka, Surat District, Gujarat State for the period from July-2021 to Dec.-2021

Ref :-

- Environmental Clearance accorded vide letter no J-11015/40/95-IA. II (M) dated 19th June 1996.
- 2. Letter no 4-5/96(ENV) 2534, dated 7th September 1997.

Dear Sir,

Please find enclosed herewith following details with respect to GIPCL's Vastan Lignite Opencast Mines, Taluka -Mangrol, District - Surat, State - Gujarat for the period <u>July-21 to Dec.-2021</u>

- 1. Monitoring of the implementation of Env. Safeguard (Data Sheet Part I) as ANNEXURE B and
- Env. Monitoring and analysis report Environmental Monitoring and analysis Report for period ANNEXURE – C

This is for your kind information.

Thanking you,

For Gujarat Industries Power Co. Ltd.

N.K.Chauhan AGM (Mines)

Encl as above:-

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ANNEXURE - A

Status of compliance of the conditions under Environment Clearance F.No. J-11015/40/95 – IA.II (M) dated 19-06-1996 by ministry of environment & forest, GOI, for Vastan Lignite Mines of M/s Gujarat Industries Power Company Limited for the period from <u>July-21 to Dec.-2021</u>.

Sr. no.	Conditions	Compliance
01	No change in the calendar plan including excavation, quantum of lignite and wastes/OB dumps should be made.	Complied During monsoon the mining operation is being temporarily suspended due to sticky nature of soil which does not allow mining operation.
02	The top soil and OB dumps should be stacked in earmarked dump sites. Garland drains along the lease boundary along with the settling tanks should be made.	In the initial years, top soil and overburden wastes were stacked separately and the top soil has been used for spreading over the reclaimed land of back filled area and external dump for successful grass and tree plantations etc. Currently the top soil that is removed is being used simultaneously for progressive reclamation of back filled area.
		The external OB dumps have been developed in the Vastan Lease area. The dumps are of approx 50 meter height.
		The external dump overburden area is 217 Ha to accommodate about 85 M.cum of overburden. The dump has been stabilized and about 125815 plantations have been done in the about 94 Ha area of the external dump.
		Garland drains and settling tanks are made to arrest silt and sediment flows from soil and before & during monsoon garland drains & settling tanks are maintained for the same.
03.	The level of SPM should not exceed 500 ug/cum at any station within the leasehold. Emission of SO2, Nox and CO should be maintained below the levels prescribed by the competent authority.	The level of SPM, SO2, NO2, CO emission is being monitored bi-monthly basis. Data related with each of the above parameters are within prescribed limits. The last half yearly return (i.e. Jan2021 to June-2021) has already submitted vide letters no - SLPP/Vastan Mines/ Environment Return/2021/2135, dated 30.07.2021 and current half yearly monitoring report (i.e. July-2021 to Dec2021) is enclosed herewith as ANNEXURE – C
04.	The quality of effluent finally discharged should conform to the standards prescribed under GSR422 (E) dated 19.05.1993 and 31.12,1993.	There is no solid or liquid waste being disposed from the mine. Further, no lignite is being storage in the mine during monsoon season. Only rain water, which collected in monsoon, season, is pumped out in monsoon period only for resuming the mining activity. This water is being sampled at various stages and analyzed. Result is reported well within the prescribed limits.



Proponent Name - M/s Gujarat Industries Power Company Limited Project Name - Vastan Lignite Mines, EC.No. - J-11015/40/95 - IA.II (M) dated 19-06-1996 File No. 3-5/96(ENV)/260 Dated: 12/05/2020 Period of compliance - from <u>July-21 to Dec.-2021</u>.

Sr.	Conditions	Compliance
05.	Regular monitoring of air, water and noise should be made in and around the core zone. Recorded data should be furnished to this ministry (regional office) and the state pollution control board quarterly, Noise levels should not exceed the limit of 85 Ddb, Ear plugs/ear muffs may be provided to the workers engaged in the noisy atmosphere.	Bimonthly & Quarterly monitoring of air, water dust fall, meteorological data of the region and noise level in core and buffer zone are being carried out by M/s. ECOSYSTEM RESOURSE MANAGEMENT Pvt. Ltd., Surat. Recoded data are being submitted to the regional office of Ministry of Environment, Forest and Climate Change at Bhopal as well as GPCB. Last Quarterly report has already submitted vide letters no SLPP/Vastan Mine/Quarterly Environment Report/533, dated 16.02.2022
		Noise level monitoring in core or buffer zone are not exceeding the 85 dB.
06.	The anti-pollution measures with regards to environmental quality prescribed in the EMP should be implemented on schedule in a time bound program.	The anti pollution measures like 1. Water sprinkling on the haul roads and lignite stock, 2. Green Belt Development, 3. Water drainage system surrounding the pit, 4. Making of garland drains around dump, 5. Provision of inner slope on the dumps for proper drainage, 6. Settling tanks for discharging monsoon water, 7. Effective maintenance of the HEMM for controlling exhaust emission level, and 8. Provision of ear plugs/ear muffs in the mine All measures are implemented towards pollution control.
07	A 100- meter greenbelt around the mine lease area should be developed. The density of the trees be at least 1600 saplings /Ha. Mixed species of saplings should be selected for enhancing bio-diversity. Also the reclamation program in the leasehold area should be implemented phase wise as envisaged.	
08	Three year – stage remote sensing imageries to monitor the changes in the land use pattern and related impacts due to mining in the region should be submitted.	mining project from ISRO and gets analyzed through RRSSC – Jodhpur. Imageries were taken for the block year



Period of compliance - from <u>July-21 to Dec.-2021</u>.

Sr. no.	Conditions	Compliance
09.	Environmental Man agent Cell has to be established to carry out functions relating to environmental management actions plans. The head of the cell should directly report to the Chief Executive.	An Environmental Management Cell has been established in the company. Head of Management/GM (Mines) is the head of the Environmental Management Cell.
10	Adequate fund provision (capital and recurring expenditure) should be provided for implementation of all safeguards including socioeconomic development program. The fund earmarked for environmental measures will not be diverted for any other purpose.	Adequate fund provision (Capital and recurring expenditure) is made in the yearly budget of the mining project for implementation of all environmental safeguards and for environmental measures Rs 22.52 Lakhs expanded for the year 2021 (July to Dec21) detail enclosed in data Monitoring Report, Part – I of Data Sheet ANNEXURE - B Moreover the company is also directly funding in CSR (i.e. DEEP) by various means for carrying out the various activities including socio-economic development program.
11	Environmental Compliance Status vis-à-vis project implementation report should be submitted for the scrutiny of this Ministry once in 6 months regularly.	Compiled Environmental Compliance Status vis-à-vis project implementation report is being submitted to the Ministry of Environment, Forest and Climate Change, Regional Office (WZ) at Bhopal during once in six month on regular basis. The last six-monthly Environmental Compliance Status reports (from Jan21 to June-21) was already submitted vide letter no SLPP/Vastan Mines/Environment Return/2021/2135, dated 30.07.2021 and current half yearly Environmental Compliance Status report (i.e. July-21 to Dec2021) is enclosed herewith as ANNEXURE – A

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