



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

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

GIPCL/SLPP/Mangrol-Valia/EC/ 2441

Date: July 2, 2018

To,

Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan
Aliganj, Jor Bagh Road
New Delhi-110003

Kind Attention: Director, Impact Assessment (Coal Mining Projects)

Subject: Request for grant of EC for Mangrol-Valia Lignite Mine, Taluka - Mangrol and Valia in District Surat and Bharuch of Gujarat as per EIA Notification dated April 6, 2018.

File No: J-11015/325/2010-IA.II(M)

Dear Sir,

Our company, Gujarat Industries Power Co Ltd. (GIPCL) is operating a Lignite Mine in Taluka Mangrol and Valia in District Surat and Bharuch of Gujarat for 4.2 MTPA lignite production over 2080 ha for which EC was granted vide letter no. J-11015/ 38/ 99-IA.II(M), dt 21-07-2003. The chronology of subsequent developments is discussed briefly below and listed in tabular format along with supporting documents in **Enclosure-1**.

TOR application for expansion of mine production from 4.2 MTPA to 7.4 MTPA and area expansion from 2080 to 3710 ha was submitted in 2011 and considered in EAC dated 18-19th April 2011. As the area of external dump was more, MOEF vide letter dated 19.05.2011 directed to reduce the area from the proposed 3710 ha by accommodating the external dumps over the lignite bearing area, which can be re-handled later. MOEF issued letter no. J-11015/325/2010-IA.II(M), dt. 22.09.2011 scheduling the project for presentation in subsequent EAC meeting of 17.10.2011. GIPCL submitted letter dated 03.10.2011 seeking time extension. MOEF subsequently rescheduled the presentation and communicated vide their letter dt. 03.11.2011 for giving presentation on revised data due to reduction in area. The presentation was held in meeting dated 28-29 Nov, 2011 for reduction in area from 3710 to 3019 ha. TOR was issued vide MOEF letter no No. J-11015/325/2010-IA.II(M), dt. 11th January 2012.

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

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CIN No. : L99999GJ1985PLC007868

After this, the company (GIPCL) applied for Extension of TOR for a period for one year vide letter no. GIPCL/SLPP/Mangrol-Valia/EC/8755, dt. 07.11.2013 and subsequently on 26.11.2013 on the basis of MOEF MO no.J-11013/41/2006-IAII(I) dt 22.03.2010. Company again submitted letter GIPCL/SLPP/Mangrol-Valia/EC/ dt. 28.02.2014 informing MOEF that the Mining Plan has been submitted to MOC for further action. The project was considered in the EAC meeting of 27-28th Feb 2014 and TOR was extended for 1 year i.e. up to 10.01.2015. A letter to this effect was issued on 21.05.2014.

The company prepared a Draft EIA/EMP Report on the basis of TOR and submitted to Gujarat State Pollution Control Board for Public Hearing. The Public hearing was conducted on 02.04.2013 and 05.04.2013 in Surat and Bharuch district respectively, as per the provisions of EIA Notification 2006.

Final EIA/EMP Report after incorporating Public Hearing documents was submitted to MoEF&CC vide letter no GIPCL/SLPP/Mines/EC/9386, dt. 19.12.2014. The proposal came for presentation in 35th EAC (Thermal & Coal Mining Projects) meeting scheduled for 14-15th May, 2015 wherein GIPCL requested the Ministry to postpone the presentation for the next EAC meeting. The project was therefore deferred. The proposal was again included in the subsequent EAC of 11-12th June, 2015. The Company (GIPCL) requested to defer the proposal for presentation due to more time required for preparing for final proposal vide letter no. GIPCL/SLPP/Mines/EC/4546, dt. 06.06.2015. The same was recorded in the Minutes of Meeting.

In the interim period since June 2015, based on meetings and discussions held with mining experts and view of the constraints that will arise in land acquisition, it was decided by the management of GIPCL that the mine lease area shall not be expanded but be limited to that sanctioned in EC dated 21.07.2003 i.e. 2080 ha. Accordingly, the maximum production possible was going to be 5.4 MTPA instead of 7.4 MTPA submitted to MOEF. Due to change in production and mine lease area, Mining Plan was revised and submitted to Ministry of Coal for approval.

The Mining Plan and Mine Closure Plan for 5.4 MTPA over an area of 2080 ha has been submitted to Ministry of Coal by us on 19.01.2018. It is due for presentation and appraisal.


In view of the above developments of enhancement of capacity from 4.2 to 5.4 MTPA in same mine lease area, we are desirous of revising our submitted proposal of 7.4 MTPA over 3019 ha. As the public hearing has been already been conducted for a larger area (3019 ha against 2080 ha now) and higher production (7.4 MTPA against 5.4 MTPA now), we humbly submit to the MOEF to kindly consider the same public hearing and permit us to revise our proposal to one of lesser magnitude. The minutes of public hearing, their translation and our compliance to the points raised in public hearing are given in **Enclosure-2**. We will generate fresh baseline data as mandated by the upper limit of 3 years by MOEF. Accordingly we will submit the revised EIA/EMP to MOEF for appraisal.


Also, the above would aid in compliance to recent amendment to EIA Notification dated 06.04.2018 which applies in our case as well since our EC for 4.2 MTPA in 2080 ha was obtained under EIA Notification 1994.

In view of the above, please find enclosed **Enclosure-3** containing revised Form I and Pre Feasibility Report along with supporting Annexures for grant of revised Terms of Reference for enhancement of capacity from 4.2 to 5.4 MTPA in same mine lease area of 2080 ha. We again humbly request you to take into view the public hearing conducted on 02.04.2013 and 05.04.2013 in Surat and Bharuch district respectively for a larger area and production and permit us to revise our proposal as per approved Mining Plan and Mine Closure Plan Environmental Clearance. We request you to kindly consider our application for presentation before EAC at earliest.

Thanking you,

Yours faithfully
For Gujarat Industries Power Company Limited


(N. K. Purohit) 02/07/18.
Chief General Manager (Mines)



Enclosures:

1. Chronology of events along with supporting documents
2. Minutes of public hearing, their translation.
3. Revised Form-1 and Pre-Feasibility Report along with supporting Annexures for 5.4 MTPA production over same ML of 2080 ha

ENCLOSURES : 1

CHRONOLOGY OF EVENTS PERTAINING TO EXPANSION OF MANGROL-VALIA LIGNITE MINE FROM 4.2 MTPA TO 7.4 MTPA AND EXPANSION OF ML AREA FROM 2080 HA TO 3710 HA OF GUJARAT INDUSTRIES POWER COMPANY LTD. (GIPCL)

Attachment	Date	Subject
1	21.07.2003	MOEF issued Environmental Clearance for <u>4.2 MTPA</u> lignite production over <u>2080 ha</u> vide letter no. J-11015/38/99-IA.II(M)
2	17.08.2010	GIPCL applied for Terms of reference for expansion of mine production from <u>4.2 MTPA to 7.4MTPA</u> and area expansion from <u>2080 ha to 3710 ha</u>
3	18-19.04.2011	Proposal considered in the EAC meeting. Minutes of meeting issued
4	12.05.2011	GIPCL submitted letter to MOEF regarding reply to the Complaint by Charetha Village people addressed to the Hon'ble Prime Minister and Hon'ble Minister of Environment & Forest.
5	19.05.2011	MOEF issued letter directing the Company to reduce the area from the requested 3710 ha by accommodating the external dumps over the lignite bearing area which can be re-handled later.
6	16.09.2011	GIPCL submitted letter to MOEF regarding Expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion of ML area from 2080 ha to 3710 ha)-Terms of Reference (TOR).
7	22.09.2011	MOEF issued letter no. J-11015/325/2010-IA.II(M) intimating the company to give presentation in next meeting to be held on 17-18 Oct, 2011.
8	03.10.2011	GIPCL vide letter no. SLPP/Mines/2011/7763 sought additional time to rework the proposal and requested for consideration in subsequent EAC meeting
9	03.11.2011	MOEF issued letter no. J-11015/325/2010-IA.II(M) intimating the company to give presentation in next meeting to be held on 28-29 Nov, 2011.
10	28-29.11.2011	Proposal considered in the EAC meeting. Minutes of meeting issued.
11	11.01.2012	MOEF issued letter No. J-11015/325/2010-IA.II(M) for expansion from 2080 to 3019 ha (reduced from initially applied 3710 ha) and lignite production 4.2 to 7.4 MTPA.
12	07.11.2013	GIPCL applied for Extension of TOR for one year vide letter no. GIPCL/SLPP/Mangrol-Valia/EC/ 8755

Attachment	Date	Subject
13	26.11.2013	GIPCL sent the same request for extension vide letter no. GIPCL/SLPP/Mangrol-Valia/EC/8755 as reminder
14	28.02.2014	GIPCL submitted letter no. GIPCL/SLPP/Mangrol-Valia/ EC/ informing MOEF that the Mining Plan has been submitted to Ministry of Coal for further action.
15	27-28.02.2014	Proposal considered in the EAC meeting. Minutes of meeting issued. The Committee after detailed deliberations has recommended to extend the validity of the TOR by one year i.e. upto 10.01.2015.
16	21.05.2014	MOEF issued letter no. J-11015/325/2010-A.II(M) communicating extension of TOR up to 10.01-2015.
	02 & 05.04.2013	Public hearing was conducted
17	02.01.2014 (dt.19.12.14)	Submitted Final EIA based on TOR after Public Hearing vide letter no. GIPCL/SLPP/Mines/EC/9386,dated December 19, 2014
18	14-15.05.2015	Project put in agenda in scheduled EAC meeting. Project considered and minutes of meeting issued
19	06.06.2015	GIPCL requested to defer the proposal for presentation vide letter no. GIPCL/SLPP/Mines/ EC/ 4546. GIPCL requested MOEF to give more time till GIPCL informs MOEF in future when they will be ready with their final proposal
20	11-12.06.2015	37 th EAC Meeting was held. The MOEF noted in the minutes that "The proponent vide letter no. GIPCL/ SLPP/Mines/FC/4546 dated 06.06.2015 requested Ministry to postpone the presentation"

No.J-11015/38/99-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O.Complex, Lodi Road,
New Delhi-110003.

Dated: 21st July 2003

To

Shri Sunil Nakra.
DGM(Mines).
Gujarat Industries Power Company Ltd..
(Surat Lignite Power Project).
Nani Naroli, Mangrol Taluk,
SURAT District- 349110.
GUJARAT.

Subject: Mangrol-Valia Lignite Mine (4.2 MTPA) of M/s Gujarat Industries Power Company Ltd. located in villages Mangrol, Shah, Charetha, Amandera, Harsani, Timberva, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh, and Kosmadi in mangrol Valia Tehsil of Surat and Bharuch Districts of Gujarat – environmental clearance –reg.

Sir.

This has reference to Industries and Mines Department, Government of Gujarat letter No.MCR-1098-1109-CHH dated 30.03.2000, your letter dated 27.10.1999 and subsequent communications dated 07.04.2000, 16.09.2000, 06.11.2000, 01.05.2001, 08.09.2001, 01.01.2002, 18.05.2002, 19.06.2003, and 20.06.2003 regarding the project mentioned above. The Ministry of Environment and Forests has considered your application. It has been noted that the total mining lease area is 2080 ha. of which 2050 ha is agricultural land and remaining 30 ha is wasteland. Mining will be restricted to 1319.67 ha, 50 ha is for storage of topsoil and lignite stock pile and 311 ha is for OB storage. No forestland is involved. Working is by opencast mechanised method. Working will not go beyond 110 m below ground level (bgl). The annual targeted production capacity of the mine is 4.24 Million tonnes. Thirty-five hutments comprising the population of 125 people will be rehabilitated. Public Hearing was held on 30.07.1999. Water requirement of 3500 m³/d (mine site –2500 m³/d and drinking water including township – 1000 m³/d) will be met from harvested rainwater to be collected in a pond to be constructed before starting mining and from treated water from ash recovery pond. About 7.35 lakh m³/month of OB will be generated. Bark filling will be started from 2½ year of commencement of mining operations and the OB in the external dumps will be backfilled by 6th year of commencement of mining. The Gujarat Pollution Control Board granted Consent to Establish (NOC) for 17,500 MT per day of lignite production. The Ministry of Coal has approved the

Mining Plan for 4.2 million TPA production. Diversion of Kim river is proposed during the 17th year of Operation through backfilled area. Capital cost of the project is Rs.595.0 crores.

2. The Ministry of Environment and Forests hereby accords environmental clearance to the above-mentioned lignite mine of Gujarat Industries Power Company Ltd. to produce 4.2 million TPA by opencast mechanised method involving a lease area of 2080 ha under the provisions of the Environmental Impact Assessment Notification, 1994 as amended on 04.05.1994 and 10.04.1997 subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) Top soil should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.
- (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(s) only. The total height of the dumps should not exceed 50m 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 start from the 6th year. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhopal on yearly basis.
- (iii) Catch drains and siltation ponds of appropriate site should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilised for watering the ine 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.
- (iv) Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on 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-mineralised area for development of an alternate grazing ground.
- (vi) A detailed mine commissioning plan should be submitted to the Ministry of Environment & Forests 5 years in advance of approval.
- (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 dump 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 20th year, plantations should cover (a)

backfilled area - 1038.16 ha., (b) external OB dumps - 311 ha., (c) 50 ha of topsoil dump, and 328.84 ha of greenbelt.


- (viii) Regular monitoring of groundwater level and 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) seasons. Data thus collected should be submitted to the Ministry of Environment & Forests and the Central Ground Water Board, Ahmedabad quarterly within one month of monitoring.
- (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 to MOEF and CGWA, Delhi, within six months.
- (x) The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to de-watering of the mine.
- (xi) Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and CHP wastewater.
- (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 at Bhopal.
- (xiii) Efforts will be made to exclude acquisition of 25 ha of grazing land. If not found feasible, extra land will be acquired in non-mineralised area for development of an alternate grazing ground.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
- (iii) Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NO_x, and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the Gujarat State Pollution Control Board.
- (iv) Data on ambient air quality (RPM, SPM, SO₂, 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 once in six months.

- (v) Drills should be wet operated or with dust extractors and controlled blasting should be practised.
- (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.
- (vii) Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.
- (viii) Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (F) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.
- (ix) Vehicular emissions should be kept under control and regularly monitored.
- (x) Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority.
- (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.
- (xii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (xiii) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Company.
- (xiv) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.
- (xv) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- (xvi) A copy of the clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom and suggestion/representation has been received while processing the proposal.

- (xvii) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
- (xviii) The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment & Forests at <http://envfor.nic.in>.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.
5. The above conditions will be enforced, inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. T. Chandini)
Additional Director



(SURAT LIGNITE POWER PROJECT)

AT & POST: NANI NAROLI, TALUKA: MANGROL, DIST.: SURAT, PIN: 394 110 (GUJARAT)

Tel. Nos. : EPBX (02629) 261063 to 261072, 261090 to 261097, Fax Nos. :(02629) 261073, 261074, E-mail: slpp@gipcl.com

GIPCL/Mines/Mangrol –Valia Expn/2010/

Dated: August 17, 2010

By Courier

To,

The Director

Coal committee

Ministry of Environment & Forests (MOEF)

Paryavaran Bhavan

CGO Complex, Lodi Road

New Delhi – 110 510

Sub: Convening of TOR meeting for Mangrol Valia Lignite Mine Expansion project.

Ref: **Our letter No. GIPCL/Mines/Mangrol–Valia Expn /2010/ 2393 Dated 27/03/2010 addressed to The Director, MOEF.**

Dear Sir,

We would like to draw your kind attention to our communication letter cited above wherein we had submitted the following documents for obtaining the TOR from MOEF as contemplated in the MOEF notification.

- Form I duly filled up along with proposed TOR
- Feasibility report

Although these were dispatched on 27/03/2010, so far we haven't received any intimation as to the date of TOR meeting. We shall be grateful if the meeting is arranged at an early date so that we can expedite the process of obtaining E.C from MOEF.

Thanking you,
Yours faithfully,

For Gujarat Industries Power Company Limited

(N. K. Purohit)
Additional General Manager (Mines)

Partial Print Out**MINUTES OF 23rd EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 18th-19th APRIL 2011****COAL MINING PROJECTS**

The 23rd meeting of the reconstituted EAC (T & C) was held on 18th-19th April 2011 to consider the projects of coal mining sector. The list of participants of EAC and the proponents are given at Annexure-1 and 2 respectively.

Confirmation of minutes

The minutes of the 21st meeting of EAC (T&C) held on 28th -29th March 2011 was confirmed with the following correction:

1. Mangrol Valia Lignite Mine Expansion (expansion from 4.2 MTPA to 7.4 MTPA and expansion from 2080 ha to 3710 ha) of M/s Gujarat Industries Power Co. Ltd., in the districts of Surat and Baruch, Gujarat (TOR)

Prior to the presentation, the Committee discussed the representations received from Mangrol Taluka Farmers Association Tehsil Mangrol, Dist.Surat dated 12.11.2010 to Hon'ble MEF and letter dated 22.11.2010 from farmers of village Charetha addressed to Hon'ble Prime Minister objecting to the project and land acquisition due to adverse impacts of mining activity on Charetha village, and impact on the original flow of River Khokhri river, adverse effects on fertile agr. land has been due to pollution from mining activities modification of natural drainage and non-completion of R&R in the existing project. The Committee was also informed that a PIL has been filed against the project and MOEF has been named as a respondent.

The proponent made a presentation. It was informed that keeping in view the representations and the litigation filed against the project, the State Govt. had deputed the Spl. Land Revenue Officer involved in the matter for the meeting. It was informed that the company is partly (56%) owned by State PSUs and partly by FIIs & others. The mine was granted EC in July 2003 for a production capacity of 4.2 MTPA in an ML area of 2080 ha. The present proposal is for expansion from 4.2 MTPA to 7.2 MTPA covering a total project area of 3710 ha. It was explained that the lignite requirements of an existing 2x125 MW TPP and Stage-I (2x125 MW) TPP is being met from existing Vastan Lignite mine and from the Mangol-Valia mine. However, the proposed Stage-II expansion (2x125 MW) would require an expansion of the prod. capacity from 4.2 MTPA to 7.4 MTPA, whereby the existing Vastan Lignite Project is to provide 0.6 MTPA of lignite requirements of the linked TPP and the balance 7.32 MTPA would be met from Mangrol and Valia Lignite Blocks. Of the total ML area, 1210 ha is of Mangrol Block and 870 ha is Valia Block. It was informed that the annual requirement of 7.4 MTPA would be met from three pits working concurrently at a time. Pit -1 (Shah-pit) would produce 2.4 MTPA, Pit-3S (Mangrol pit) - 0.8 MTPA and Pit -3 N (Valia pit)- 4.2 MTPA. It was informed that after exhaustion of reserves from Pit-1, production from Pit-3S would be increased to 3.2 MTPA. The proposal for further expansion to 7.4 would be by going deeper from 110m bgl to 150m bgl. It was informed that expansion project involved an additional land requirement of 1630 ha of which 1500 ha is private land, 130 ha is Govt. land and the total area for the expansion project is 3710 ha as given below:

Existing ML area	=	2080 ha
Additional Area for ext. OB dump for Pit 1	=	30 ha]

Additional Ext. OB dump for Pit D/2	=	350 ha]	= 1630 ha
Additional Mine area for extending mine depth from 110m to 150m (450 ha in D3 and 200 ha in D1)	=	650 ha]	
Additional Mine and Dump Area for Pit 3S	=	600 ha]	

TOTAL ML AREA	=	3710 ha
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Mining Plan for the expansion has been approved by MOC on 08.06.2010. It was stated that despite a very high stripping ratio, only 17% (205.36 Mm³) the total OB generation of 1204.12 Mm³ over the life of the project, would be stored in ext. OB dump of a max. height of 60m and area of 475 ha and the balance 998.76 Mm³ (82.94%) would be stored in an area of 1513.38 ha of the total quarry area of 1838.21 ha and leaving 324.83 ha of the quarry as a void at the end of mine life. It was stated that despite dumping 85 Mm³ of OB into the Vastan mine void, which would be brought to ground level. The balance area is for extension of the mine to increase the depth from 110m to 150m. Mining would be shovel-dumper combination. The total water requirement is 770 m³/d. R&R for the expansion project involved 3 villages, but the expansion project does not involve homestead losers as no mining activity would be carried out in populated areas. The mine is drained by River Moti but it is not proposed to be diverted. There are no RFs/PFs and no ecologically sensitive areas. Lignite transportation would be by dedicated road-cum-conveyor from the mine stockyard to the linked TPP.

The Committee sought a response from the proponent on the issues raised in the representations and the gist of issues raised in the PIL. The Committee also sought a status of the present project, status of compliance of EC, R&R, CSR, etc. The Committee observed that an additional land of more than 1000 ha is required for external OB dumps. The Committee also observed that the Mining Plan proposed leaving voids at the end of Mine life. The Committee was of the view that the mining operation should be optimised to minimise the requirement of land for ext. OB dump and reduce the extent of permanent land use changes such as the mine void left at the post mining stage and creation of huge external OB dumps causing severe land degradation. The Committee sought details if sequential mining has been planned and details thereof. The Committee desired that the proponent re-examine removal of Ob dumps form forest land to mineralised area and re-handle the same to backfill the mine void. The details of compliance of MOEF Circular dated 31.03.2011 by furnishing copy of application for Stage-1 clearance for diversion of forestland were also sought. The Committee after discussions decided to further consider the project upon receipt of these details.

2. Tubed Opencast Coalmine Project (6 MTPA peak over 460 ha) of M/s Tubed Coal Mines Ltd., dist. Latehar, Jharkhand (Further consideration of EC based on TOR granted on 30.04.2009)

The proposal was considered in the EAC meeting held on 22nd -23rd November 2010 and the issues raised therein were further considered.

The proponent made a presentation. It was informed that the company consisted of 60% HINDALCO and 40% by Tata Power. It was informed that the permission of the State Water Resources Dept, has been obtained vide letter dated 18.01.2011 for diversion of River Sukri. It was stated that 55Mm³ of OB generated during the five years would be dumped externally on 63 ha of area and with the dump height of 90m, which would be vegetated and reclaimed. It was stated that rehandling may not be feasible as the dump would be completely reclaimed with vegetation by end of the end mine life of 30 years. It was explained that backfilling could start only upon reaching the bottom seam (200m) from the top seam



GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP/Mines/ 2011/ 3382

12 May 2011

To

The Chairman
Expert Appraisal Committee (Thermal & Coal Mining)
C/O Ministry of Environment & Forests
Paryavaran Bhavan, C.G.O. Complex
Lodhi Road,
NEW DELHI-110 510

Kind Attention: Dr.T.Chandani, Director

Sub :- Reply to the Complaint by Charetha Village people addressed to the Hon'ble Prime Minister and Hon'ble Minister of Environment & Forest

Ref :- 1. Letter dated 22.11.2010 addressed to Hon'ble Prime Minister.
2. Letter dated 10.10.2010 & 22.11.10 & nil to Hon'ble Minister of Environment & Forest

Respected Sir,

We would like to give a brief introduction of Gujarat Industries Power Company Limited (GIPCL). GIPCL was incorporated in the year 1985 by the Government of Gujarat through Gujarat Electricity Board, Gujarat Alkalies & Chemicals (GACL), Gujarat State Fertilizers & Chemicals (GSFC), and Petrofils Cooperative Ltd. GIPCL has set up and operates the following power plants:-

- a. 145 MW gas based Combined Cycle Power Plant at Vadodara since 1992 and 160 MW Gas based Combined Cycle Power Plant since 1997.
- b. 4 x 125 MW lignite based Power Plant viz. Surat Lignite Power Plant using environment friendly Circulating Fluidized Bed Combustion technology at Village Nani Naroli, Taluka Mangrol, District Surat. For catering the lignite requirements of 4 x 125 MW lignite based Power Plant. GIPCL is operating 2 lignite mines viz. Vastan Lignite Mine & Mangrol Valia Lignite Mine. Both the mines are located near the Lignite based Power Plant of Mangrol Taluka of Surat district.

Contd.. 2

Registered Office & Vadodara Plant :

PO Petrochemical, Dist - Vadodara 391 346 Gujarat - INDIA

Surat Lignite Power Plant :

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

With reference to the above mentioned letters addressed to Hon'ble Prime Minister and Hon'ble Paryavaran Minister, we would like to submit our point wise reply/clarification as under :-

1. A seasonal nallah namely Shah nallah is located on the northern boundary of the Vastan Lignite Mine and Southern side of Mangrol mine in zig zag manner and normally the nallah flows only during the monsoon season. For the advancement of Vastan mine and to recover the lignite from beneath the nallah, the nallah was diverted/ straightened up in the area within the mining lease of the company, after taking due permission from the concerned competent authority of the State. The portion of the village road between Shah and Charetha village, as alleged, is not disturbed by mining operation within the leasehold area. The part of the road disturbed by the nallah is falling well outside the mining lease area of the Company and was disturbed on account of the natural flood before 7 to 8 years. That time no mining operations were there in that area and even nallah was flowing on its original course. Even as a goodwill gesture, GIPCL has offered and constructed a new road within the mining lease hold area of the company as an alternative to the old road. Even people are using this road more frequently than the old road. Photographs enclosed (Annexure-A). The part of the seasonal nallah diverted is within the lease hold area and there is no change in the inflow and outflow of water flowing through the nallah. No mine water is discharged in this diverted nallah.
2. GIPCL is taking due care in planting the trees on external dump area, reclaimed area as well as in the greenbelt area. Till date, more than 7.4 lacs trees has been planted in Vastan Lignite Mine and Mangrol Lignite Mine. Photographs enclosed (Annexure-B).
3. In the year 1995-96, Gujarat Industries Power Company Limited (GIPCL) has acquired 165.24.44 Hectares (Ha.) of land from village Charetha's total land of 364.00.00 Ha. as per last census data. It is about 45% and not 70% of the total village land. Out of this 165.24.44 Ha, 151 Ha (92%) were acquired under the consent award and 14 Ha (8%) were acquired under regular award. Presently, proposals for acquisition of land admeasuring 95 Ha of village Charetha are at award stage.
4. According to the Charetha village revenue records & village Form No 7/12, the number of trees is about 3957. The land already acquired and under proposed acquisition is of agricultural land crops like sugarcane sorghum & pigeon pea are taken primarily.
5. The acquisition of land does not necessarily involve the applicants in loss of livelihood or consequent migration. Proposed acquisition does not include habitat and no shifting of village is involved. Since, there is no provision of land for land in the Land Acquisition Act, it is not possible for GIPCL to consider this.

6. GIPCL has already agreed to provide the benefits of resettlement of rehabilitation policy under National R & R Policy 2007 or the State government policy whichever is more beneficial to the Project affected people.
7. Various notifications of land acquisition issued by Revenue Department of Government of Gujarat are as per the provisions of Land Acquisition Act 1894. GIPCL first of all always tried and wanted to acquire the land through consent mode.
8. GIPCL is in process of acquiring land for lignite mining to support power generation. Such acquisitions are largely spread in 8 villages of Mangrol Taluka in Surat district and in 1 village of Valia Taluka in Bharuch district. In Mangrol Taluka, so far company has acquired 18% of total concerned village land and in Valia Taluka it is about 25% of the total concerned village land
9. The lands are acquired as per The Land Acquisition Act for the lignite mining purpose. Largely, they are acquired through consent mode.
10. All due care and due permissions from the concerned Government authorities are obtained for diversions of roads, diversion of transmission line etc. A green belt of at least 100 meter from the habitat area is maintained along the boundary of the mine and all mining operations are carried out as per approved Mining Plan.
11. GIPCL is following the highest standard of measures for environment protection like dust suppression, green belt development, noise pollution etc.
12. GIPCL very well understands its social responsibility for the surrounding villages and its people and carry out the CSR activities through its Trust viz. Development Efforts for Rural Economy & People (DEEP), established under the Bombay Charitable Trust Act.1950 The CSR activities of GIPCL cover 35 villages around power plant and mining area and a detailed major works carried out in last 3 years and some of the photographs are enclosed as (Annexure-C). The Company has been spending more than 5% of its profit every year on CSR related activities.

The above facts are kindly submitted to you for your kind information and perusal please

Thanking you,

Yours faithfully,

For Gujarat Industries Power Company Limited


(N.K. Purohit) 12/05/11

Additional General Manager (Mines)

Encl :- As above

No. J-11015/325/2010-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 19th May 2011

Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT – 391346.

Sub: Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of m/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat - Terms of Reference (TOR) – reg.

Sir,

This is with reference to consideration of the aforesaid proposal in the EAC (T&C) meeting held on 18th -19th April 2011. Prior to the presentation, the Committee discussed the representations received from Mangrol Taluka Farmers Association Tehsil Mangrol, Dist.Surat dated 12.11.2010 to Hon'ble MEF and letter dated 22.11.2010 from farmers of village Charetha addressed to Hon'ble Prime Minister objecting to the project and land acquisition due to adverse impacts of mining activity on Charetha village, and impact on the original flow of River Khokhri river, adverse effects on fertile agr. land has been due to pollution from mining activities modification of natural drainage and non-completion of R&R in the existing project. The Committee was also informed that a PIL has been filed against the project and MOEF has been named as a respondent.

Thereafter, in the presentation made, it was informed that keeping in view the representations and the litigation filed against the project, the State Govt. had deputed the Spl. Land Revenue Officer involved in the matter for the meeting. It was informed that the company is partly (56%) owned by State PSUs and partly by FIIs & others. The mine was granted EC in July 2003 for a production capacity of 4.2 MTPA in an ML area of 2080 ha. The present proposal is for expansion from 4.2 MTPA to 7.2 MTPA covering a total project area of 3710 ha. It was explained that the lignite requirements of an existing 2x125 MW TPP and Stage-I (2x125 MW) TPP is being met from existing Vastan Lignite mine and from the Mangrol-Valia mine. However, the proposed Stage-II expansion (2x125 MW) would require an expansion of the prod. capacity from 4.2 MTPA to 7.4 MTPA, whereby the existing Vastan Lignite Project is to provide 0.6 MTPA of lignite requirements of the linked TPP and the balance 7.32 MTPA would be met from Mangrol and Valia Lignite Blocks. Of the total ML area, 1210 ha is of Mangrol Block and 870 ha is Valia Block. It was informed that the annual requirement of 7.4 MTPA would be met from three pits working concurrently at a time. Pit -1 (Shah-pit) would produce 2.4 MTPA, Pit-3S (Mangrol pit) - 0.8 MTPA and Pit -3 N (Valia pit)- 4.2 MTPA. It was informed that after exhaustion of reserves from Pit-1, production from Pit-3S would be increased to 3.2 MTPA. The proposal for further expansion to 7.4 would be by going deeper from 110m bgl to 150m bgl. It was informed that expansion project involved an additional land requirement of 1630 ha of which 1500 ha is private land, 130 ha is Govt. land and the total area for the expansion project is 3710 ha as given below:

Existing ML area	=	2080 ha	
Additional Area for ext. OB dump for Pit 1	=	30 ha]
Additional Ext. OB dump for Pit D/2	=	350 ha	
Additional Mine area for extending mine depth from 110m to 150m (450 ha in D3 and 200 ha in D1)	=	650 ha]
Additional Mine and Dump Area for Pit 3S	=	600 ha	

TOTAL ML AREA = 3710 ha

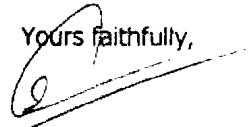
C.M. (Mines)
MSD *MSD*

Mining Plan for the expansion has been approved by MOC on 08.06.2010. It was stated that despite a very high stripping ratio, only 17% (205.36 Mm³) the total OB generation of 1204.12 Mm³ over the life of the project, would be stored in ext. OB dump of a max. height of 60m and area of 475 ha and the balance 998.76 Mm³ (82.94%) would be stored in an area of 1513.38 ha of the total quarry area of 1838.21 ha and leaving 324.83 ha of the quarry as a void at the end of mine life. It was stated that despite dumping 85 Mm³ of OB into the Vastan mine void, which would be brought to ground level. The balance area is for extension of the mine to increase the depth from 110m to 150m. Mining would be shovel-dumper combination. The total water requirement is 770 m³/d. R&R for the expansion project involved 3 villages, but the expansion project does not involve homestead losers as no mining activity would be carried out in populated areas. The mine is drained by River Moti but it is not proposed to be diverted. There are no RFs/PFs and no ecologically sensitive areas. Lignite transportation would be by dedicated road-cum-conveyor from the mine stockyard to the linked TPP.

The Committee sought a response from the proponent on the issues raised in the representations and the gist of issues raised in the PIL. The Committee also sought a status of the present project, status of compliance of EC, R&R, CSR, etc. The Committee observed that an additional land of more than 1000 ha is required for external OB dumps. The Committee also observed that the Mining Plan proposed leaving voids at the end of Mine life. The Committee was of the view that the mining operation should be optimised to minimise the requirement of land for ext. OB dump and reduce the extent of permanent land use changes such as the mine void left at the post mining stage and creation of huge external OB dumps causing severe land degradation. The Committee sought details if sequential mining has been planned and details thereof. The Committee desired that the proponent re-examine removal of Ob dumps from forest land to mineralised area and re-handle the same to backfill the mine void. The details of compliance of MOEF Circular dated 31.03.2011 by furnishing copy of application for Stage-1 clearance for diversion of forestland were also sought. The Committee after discussions decided to further consider the project upon receipt of these details.

We await your consolidated response in the matter.

Yours faithfully,



(Dr.T.Chandini)
Director

No. J-11015/325/2010-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 17th August 2011

Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT – 391346.


Sub: Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of m/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat - Terms of Reference (TOR) – reg.

Sir,

This is with reference to consideration of the aforesaid proposal in the EAC (T&C) meeting held on 18th -19th April 2011. The Committee had sought a response from the proponent on the issues raised in the representations and the gist of issues raised in the PIL. The Committee also sought a status of the present project, status of compliance of EC granted in July 2003, R&R, CSR, etc. We have received only partial response to the issues raised by the Committee.

It has been decided to close the file and de-list it from the list of pending projects. The file would be reopened after receipt of the complete information.

Yours faithfully,


(Dr.T.Chandini)
Director



GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP/Mines/2011/7262 ✓ by RPAD / Goutier

Date: September 16, 2011

To,

Dr. T. Chandani,
Director
C/o Ministry of Environment and Forests,
Paryavaran Bhavan, C.G.O. Complex,
Lodhi Road,
New Delhi – 110 510

Sub: Expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion of ML area from 2080 ha to 3710 ha)-Terms of Reference (TOR).

Ref: - 1. J-11015/325/2010-IA.II (M)/Dated 25/03/2011
2. J-11015/325/2010-IA.II (M)/Dated 19/05/2011
3. J-11015/325/2010-IA.II (M)/Dated 17/08/2011
4. SLPP/Mines/2011/3382/Dated 12/05/2011

Respected Madam,

With reference to above said letter, we would like to bring to your kind notice that we have responded vide our letter no. SLPP/Mines/2011/3382/Dated 12/05/2011, referring to the issues raised in the representations and the gist of issues in the PIL.

The updated status of the present project, status of R&R and CSR activities are also covered in the above referred letter. We are regularly submitting to Regional Office, Western Region, MoEF, Bhopal the Bi-monthly and half yearly environmental reports in respect of compliance of Environmental clearance granted to Mangrol-Valia Mine in 2003 (Copy of last Half yearly compliance report is attached here with).

As per the observations made by the Expert Appraisal Committee (Thermal and Coal Mining) w.r.t. minimising the requirement of agriculture land for external OB dump and reduce the extent of permanent land use changes such as the mine void left at the post mining stage and creation of huge external OB dumps causing severe land degradation, we are in the process of exploring the options for minimising the requirement of agriculture land for external OB dump. We are also exploring the options for re-examining the shifting of OB dumps from agriculture land to mineralised area and re-handle the same to backfill the mine void.

Page 1 of 2


Registered Office & Vadodara Plant :

PQ Petrochemical Dist. Vadodara 391 346 Gujarat - INDIA

Phone : EPARY (0765) 2732768/2713/0159 Fax : 2731207



Surat Lignite Power Plant :

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

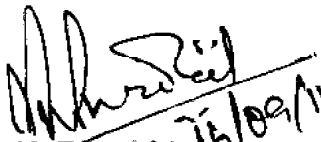
Phone : EPARY (07670) 261062 to 261072 Fax : 261072/74

After completing this exercise and finalizing the most appropriate option for minimising the requirement of agriculture land for external OB dump and reduce the extent of permanent land use, we will submit the required details.

The above facts are kindly submitted to you for your kind information and perusal please.

Thanking You

Yours faithfully,
For, Gujarat Industries Power Co Ltd.


(N. K. Purohit) 16/09/11
Additional General Manager (Mines)
N. K. Purohit
Addl. General Manager (Mines)
Gujarat Industries Power Company Limited
At & Po. Nani Naroli, Tal. Mangrol,
Dist. Surat - 394110 (Gujarat)
Enclosures: 1. Half yearly compliance report.

No. J-11015/325/2010-IA.II(M)
Government of India
Ministry of Environment & Forests

Agenda in the Instructions

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 22nd September 2011

Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT - 391346.

Sub: Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of m/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat - Terms of Reference (TOR) – reg.

Sir,

This is with reference to this Ministry's earlier correspondence dated 19th May 2011 regarding the decisions of the Expert Committee in the EAC (T&C) meeting held on 18th -19th April 2011 on the above mentioned project. Based on the information furnished by you vide letters dated 12.05.2011 and 16.09.2011 to the Ministry, it is now proposed to further consider the said proposal during the next meeting of the Expert Committee to be held **on 17th -18th October 2011 in SCOPE Convention Centre, SCOPE Complex, Lodi Road, New Delhi-110003 as per the enclosed agenda, which may be confirmed from the MOEF website: www.envfor.nic.in/project_clearances.**

2. In this regard, you are requested to forward a set of information/clarifications furnished by you vide your letters dated 12.05.2011 and 16.09.2011 in response to our letter dated 19.05.2011 to the members of the Expert Committee (Thermal & Coal Mining Projects) as per the enclosed list by courier/speed post so as to reach them well in advance (at least 10 days before the meeting). A copy of this letter may also be enclosed with the document as a reference.

3. Further, you are requested to depute your senior officer along with your consultant, who is familiar with the project proposal and can explain the issues raised by the Committee vide our letter dated 19.05.2011 and respond to the queries/ suggestions which Committee may ask during the discussions and may make as well necessary commitments, to attend the meeting. A set of Instructions is attached. The team would be required to make a presentation on the issues raised and the related issues that may arise during the presentation. You are requested to bring 15 hard copies of your presentation which may be circulated to the members of the Committee at the time of your presentation.

4. You/your representative/team are requested to be present at least 30 minutes before the scheduled time of presentation as indicated in the enclosed agenda. We await your confirmation.

Enc. As above.

Yours faithfully,

(Dr.T.Chandini)
Director

CMC/PK/P
NKP
27/09/11

DRAFT

AGENDA FOR 35th EAC (THERMAL & COAL MINING PROJECTS) MEETING BEING HELD ON
17th -18th OCTOBER 2011

Venue: SCOPE Convention Centre, SCOPE Complex, Lodi Road, New Delhi-110003.

[Pl. check the MOEF website: www.envfor.nic.in/projectclearances/environmentalclearances/Meetings/Agenda] for confirmation of venue and Agenda]

COAL MINING PROJECTS

MONDAY, 17th OCTOBER 2011

10 AM -10.15 AM - Confirmation of Minutes

1. **10.15 AM - 10.45 AM:** Patherdih NLW Coal Washery (Nominal capacity 5 MTPA and 6.5 MTPA peak) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, dist Dhanbad, Jharkhand - EC based on TOR granted on 23.09.2010)
2. **10.45 AM - 11.15 AM:** Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat (Further consideration of TOR)
3. **11.15 AM - 12.15 AM:** Surkha (North) Lignite Mine Project (3 MTPA) of M/s Gujarat Mineral Development Corporation Ltd., located in village Surkha, Tehsil Ghogha, District Bhavnagar, Gujarat- Further consideration of Modification of EC dated 07.05.2007
4. **12.15 AM: - 12.45 PM:** Lekhapani Opencast Coalmine Project (0.25 MTPA in an ML area of 235 ha) of North Eastern Coalfields of M/s Coal India Ltd., located in dist. Tinsukia, Assam - Further consideration of EC based on TOR)
5. **12.45 PM - 1.15 PM:** Tikak Extn. OCP (0.2 MTPA) of North-Eastern Coalfields of M/s Coal India Ltd., district Tinsukia, Assam (Further consideration of EC based on TOR granted on 23.05.2007)

LUNCH

6. **2.00 PM- 2.30 PM:** Thesgora Underground Coalmine Project of M/s Thesgora Coal Pvt. Ltd. dist. Chindwara, M.P
7. **2.30 PM -3.00 PM:** Bithnok Lignite Mine Project (2.1 MTPA) of M/s Neyveli Lignite Corporation Ltd. to be located at Bithnok, District Bikaner, Rajasthan (Further consideration of EC based on TOR 13.04.2007)
8. **3.00 PM - 3.30 PM:** Mandla (North) Underground Coal Mining Project (1.5 MTPA) of M/s Jaiprakash Associates Ltd., Dist. Chindwara, M.P. (Further consideration of EC based on TOR granted on 18.03.2007 read with corrigendum dated 18.06.2008 and Modification of TOR dated 07.11.2008)
9. **3.30 PM - 4.00 PM:** West Bokaro Opencast Expansion Coal Mine Project of M/s Tata Steel Ltd., Dist. Ramgarh, Jharkhand (Further consideration of TOR)

10. **4.00 PM -4.30 PM:** Expansion of Jamadoba Coal Washery (1 MTPA to 2 MTPA) of M/s Tata Steel Ltd., located in Jharia Coalfields, Dhanbad, Jharkhand (TOR)
11. **4.00 PM - 4.20 PM:** Cluster 1 (1.172 MTPA with a peak capacity of 1.570 MTPA in a combined ML area of 3692 ha) of M/s Eastern Coalfields Ltd., located in Raniganj Coalfields, dist. Dhanbad , Jharkhand (TOR granted on 15.06.2011)
12. **4.30 PM -5.00 PM:** Cluster 9 (15 mines of 3 MTPA with a peak prodn. of 4 MTPA in a combined ML area of 7145.4 ha) of M/s Eastern Coalfields Ltd., located in Raniganj Coalfields, Dist. Burdwan, West Bengal (TOR granted on 19.05.2011)
13. **5.00 PM - 5.30 PM:** Cluster 12 comprising of 17 mines of a combined prod. capacity of 13.321 MTPA with a peak production of 22.289 MTPA in a combined ML area of 11164 ha of M/s ECL, located in Raniganj Coalfields, in Tehsil Haripur Block, dist. Burdwan, West Bengal - TOR granted on 15.06.2011

TUESDAY, 18th OCTOBER 2011

14. **10.00 AM -10.30 AM:** TBA
15. **10.30 AM - 11.30 AM:** Dulanga Opencast Coal Mining Project (8 MTPA) of M/s National Thermal Power Corporation Ltd. (NTPC), Ib valley coalfields, Dist. Sundergarh, Orissa (EC based on TOR granted on 17.01.2008)
16. **11.30 AM- 12.15 AM:** Talaipalli Coalmine (OC at 18 MTPA capacity and UG at 0.72 MTPA capacity of a total project area of 2349.35 ha) of M/s NTPC located in Tehsil Gharghoda, district Raigarh, Chhattisgrah (Further consideration of EC based on TOR granted on 29.11.2009)
17. **11.30 AM- 12.30 PM:** TBA
18. **12.30 AM -1.00:** TBA

Lunch

19. **2.00 PM - 2.45 PM:** TBA
 20. **2.45 PM - 3.30 PM:** New Patrapara Coal Block of M/s Bhushan Steel Ltd. () to be located at Tehsil Chhendipada, Dist. Angul, Orissa (Modification of TOR granted on 17.01.2008) -
 21. **3.30PM -4.15 PM:** Belpahar OC Expn. Project (4.5 MTPA to 6.0 MTPA over 1503.683 ha) of M/s Mahanadi Coalfields Ltd., located in Ib valley coalfields, Dist. Angul, Orissa (Further consideration of EC based on TOR granted on 11.07.2008)
 22. **4.15 PM -5.00 PM:** Basundhara OCP (2.4 MTPA to 8 MTPA and increase in lease area from 401 ha to 437.10 ha) of M/s MCL, Dist. Sundergarh, Orissa (Further consideration of EC based on TOR granted on 11.07.2008)
-

EXPERT APPRAISAL COMMITTEE (THERMAL & COAL MINING)

- (1) Shri V.P. Raja,
Chairman,
Maharashtra Electricity Regulatory Commission,
13th Floor, Centre No.1,
World Trade Centre, Cuffe Parade,
Colaba, MUMBAI- 400 005.
- (2) Prof. KKS Bhatia,
Director,
Modinagar Institute of Technology, MIT,
MODINAGAR – 201204.
- (3) Shri Jawahar Lal Mehta,
Shanti Vihar,
514-A, Aryapuri Ratu Road,
RANCHI – 834001.
- (4) Prof. C.R. Babu,
Centre for Environmental Management of Degraded Ecosystems,
School of Environmental Studies,
University of Delhi, Delhi-110007.
- (5) Dr. Shiv Attri,
Senior Scientist
India Meteorological Dept.,
Lodi Road, New Dehi-110003.
- (6) Prof. G.S. Roonwal,
C-520, SFS Sheik Sarai-1,
New Delhi-110017.
- (7) Dr.C.B.S. Dutt,
Group Director (AS & OG)
National Remote Sensing Agency,
Hyderabad -500625.
- (8) Dr. V.B. Mathur,
Dean, Wildlife Institute of India,
Post Box #18, Chandrabani,
DEHRADUN – 248001.
- (9) Member-Secretary,
Central Pollution Control Board,
East Arjun Nagar, Shahdara,
Delhi -110032.
- (10) Shri T.K. Dhar,
31-B, Mansarovar Apartments,
Sector-61,
NOIDA – 201301.



GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP/Mines/2011/ 7763

Date: October 3, 2011

By Courier/ RPAD

To,

Dr. T. Chandani,
Director
C/o Ministry of Environment and Forests,
Paryavaran Bhavan, C.G.O. Complex,
Lodhi Road,
New Delhi – 110 510

Sub: Expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion of ML area from 2080 ha to 3710 ha)-Terms of Reference (TOR).

Ref: - 1. SLPP/Mines/2011/7262/Dated 16/09/2011
2. J-11015/325/2010-IA.II (M)/Dated 22/09/2011

Respected Madam,

With reference to above referred letter, regarding consideration of our proposal for the Environmental Clearance for Mangrol-Valia Lignite Mine Expansion in the meeting of the Expert Appraisal Committee on 17/10/2011, we would like to submit as below;

As per the observations made by the Expert Appraisal Committee (Thermal and Coal Mining) w.r.t. minimising the requirement of agriculture land for external OB dump and reduce the extent of permanent land use changes such as the mine void left at the post mining stage and creation of huge external OB dumps causing severe land degradation, we are in the process of exploring the options for minimising the requirement of agriculture land for external OB dump. We are also exploring the options for re-examining the shifting of OB dumps from agriculture land to mineralised area and re-handle the same to backfill the mine void.

This being a complete re-working of the already approved Mining Plan, It will take at least one more month for detail re-workout and finalizing the most appropriate option for minimising the requirement of agriculture land for external OB dump and reduce the extent of permanent land use as suggested by the MoEF.

After completing this exercise and finalizing the most appropriate option for minimising the requirement of agriculture land for external OB dump and reduce the extent of permanent land use, we would be in a position to submit the required details.

Page 1 of 2


Registered Office & Vadodara Plant :

PO Petrochemical, Dist Vadodara 391 346 Gujarat - INDIA

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

E-mail : genbaroda@aiocl.com



Surat Lignite Power Plant :

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

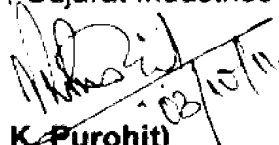
Phone : EPABX (02629)261063 to 261072 **Fax :** 261073-74

E-mail : genlignite@aiocl.com

In view of this, you are kindly requested to extend the time limit and considerer our proposal for presentation in the next meeting of the Expert Appraisal Committee.

Thanking You, Madam,

Yours faithfully,
For, Gujarat Industries Power Co Ltd.


(N. K. Purohit)
Additional General Manager (Mines)

No. J-11015/325/2010-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 3rd November 2011

Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT - 391346.

Sub: Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of m/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat – Further consideration of Terms of Reference (TOR) – reg.

Sir,

This is with reference to this Ministry's earlier correspondence dated 19.05.2011 regarding the decisions of the Expert Committee in the EAC (T&C) meeting held on 18th -19th April 2011 on the above mentioned project. Based on the information furnished by you vide letters dated 12.05.2011 and 16.09.2011 to the Ministry, it is now proposed to further consider the said proposal during the next meeting of the Expert Committee to be held on **28th -29th November 2011 in Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi-110003 as per the enclosed agenda.** which may be confirmed from the MOEF website: www.envfor.nic.in/project_clearances

2. In this regard, you are requested to forward a set of information/clarifications furnished by you vide your letters dated 12.05.2011 and 16.09.2011 in response to our letter dated 19.05.2011 to the members of the Expert Committee (Thermal & Coal Mining Projects) as per the enclosed list by courier/speed post so as to reach them well in advance (at least 10 days before the meeting). A copy of this letter may also be enclosed with the document as a reference.

3. Further, you are requested to depute your senior officer along with your consultant, who is familiar with the project proposal and can explain the issues raised by the Committee vide our letter dated 19.05.2011 and respond to the queries/ suggestions which Committee may ask during the discussions and may make as well necessary commitments, to attend the meeting. A set of Instructions is attached. The team would be required to make a presentation on the issues raised and the related issues that may arise during the presentation. You are requested to bring 15 hard copies of your presentation which may be circulated to the members of the Committee at the time of your presentation.

4. You/your representative/team are requested to be present at least 30 minutes before the scheduled time of presentation as indicated in the enclosed agenda. We await your confirmation.

Enc. As above.

Yours faithfully,



(Dr.T.Chandini)
Director

**AGENDA FOR 37th EAC (THERMAL & COAL MINING PROJECTS) MEETING BEING HELD ON
28th -29th NOVEMBER 2011**

*Venue: Room No.623, 4th Floor, Conference Room, Parjataran Bldg, CGO Complex, New Delhi-110003.
[Pl. check the MOEF website: www.cmyfor.nic.in/projectclearances/environmentalclearances/Meetings/Agenda] for confirmation of venue and Agenda]*

COAL MINING PROJECTS

MONDAY, 28th NOVEMBER 2011

10 AM -10.15 AM - Confirmation of Minutes

1. **10.15 AM – 10.45 AM:** Cluster I Group of Mines of M/s BCCL located in Jharia Coalfields, dist Dhanbad, Jharkhand (EC ???)
2. **10.45 AM - 11.15 AM:** Madhuband Coal Washery of M/s BCCL, Dhanbad, Jharkhand (Further consideration of EC based on TOR)
3. **11.15 AM – 12.15 PM:** Arkhapal-Srirampur Opencast Coalmine Project (30 MTPA in a Project area of 2250.2 ha) of M/s Strategic Energy Technology Systems Private Ltd., located in Talcher Coalfields, dist. Angul, Orissa (TOR)
4. **12.15 PM: - 1.00 PM:** Durgapur-II Farimar Opencast (3 MTPA)-cum-Underground (1 MTPA) Coalmine Project (4 MTPA) and linked Coal Washery (4 MTPA) in an ML area of 1070 ha of M/s BALCO located in Tehsil Dharamjagarh, District Raigarh Chhattisgarh - Further consideration of EC based on TOR granted on 26.08.2008

LUNCH

5. **2.00 PM- 2.30 PM:** Expansion of Mangrol Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3710 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsils Mangrol and Valia in districts Surat and Bharuch, Gujarat (Further consideration of TOR)
6. **2.30 PM -3.00 PM:** Merta Road Lignite Mine (1 MTPA) of M/s NSL Nagapatnam Power and Infratech Pvt.Ltd., Dist. Nagaur, Rajasthan (TOR)
7. **3.00 PM – 3.30 PM:** Radhikapur East including (Utkal F) Coal Mine Block (5 MTPA) with Coal Washery (5 MTPA) of M/s Tata Sponge Iron Ltd. located in Chendipeda Tehsil, Angul District, Orissa (Further consideration of EC based on TOR granted on 16.11.2007)
8. **3.30 PM – 4.00 PM:** Urtan North Underground Coal Mine Project (0.6 MTPA in 475 ha) of M/s Urtan North Mining Company Ltd., Dist. Anuppur, M.P. (TOR)
10. **4.00 PM -4.30 PM:** Captive Coal Washery of M/s R..P. Associates Pvt. Ltd., located in vill. Ambher, Dist. Kamrup, Assam
11. **4.30 PM – 5.00 PM:** Wani Coal Washery (4 MTPA) at Khasra No. 19, 37 of M/s Gupta Coalfields & Washeries Ltd., in village Brahmani, Tehsil Wani, Dist. Yavatmal, Maharashtra - Further consideration of EC based on TOR granted on 17.12.2007

13. 4.40 PM – 5.15 PM: Mahavir Coal Washery (5 MTPA) of M/s Mahavir Coal Washeries Pvt. Ltd., located at village Bhengari, Tehsil Gharghora, Dist. Raigarh, Chhattisgarh (TOR)

TUESDAY, 29th NOVEMBER 2011

14. 10.00 AM -10.30 AM: Piparwar OCP (10 MTPA (nominal) and 11.5 MTPA of M/s Cnetral Coalfields Ltd., located in Piparwar Area, Dist. Chatra, Jharkhand (TOR)
15. 10.30 AM - 11.00 AM: Ashoka OCP Expn. (10 MTPA to 15 MTPA with a peak capacity of 20 MTPA and expansion in ML area from 1834.60 ha to 1916.63 ha) of M/s CCL, located in dist. Chatra, Jharkhand (TOR)
16. 11.00 AM- 11.30 AM: Proposed Dhori Group of Mines ((0.846 MTPA normative and 1.282 MTPA peak)) of M/s Central Coalfields Ltd. located in dist. Bokaro, Jharkhand – EC based on TOR granted on 09.02.2009.
17. 11.30 AM -12.00 PM: Cluster No. 11 of M/s Eastern Coalfields Ltd., Dist. Burdwan, West Bengal (TOR)
18. 12.00 PM - 12.30 PM: Krishnashila OCP of M/s Northern Coalfields Ltd., Dist. Sonbhadra, U.P (TOR)
17. 12.30 PM -1.00 PM: Macherkunda Underground Coal Mines Project of M/s Bihar Sponge Iron Ltd., Village Marwai Kelan, Barichatan (B), Jargarh and Saidup, tehsil Barwadih, Dist. Latehar, Jharkhand

Lunch

18. 2.00 PM – 2.30 PM:
19. 2.30 PM – 3.00 PM: Gare IV/1 Opencast Coalmine Project (Expn. of ML area from 705.556 ha to 978.654ha at 6 MTPA) and Expn. of Coal Washery from 2.4 MTPA to 3.2 MTPA) of M/s Jindal Steel & Power Ltd. located in dist. Raigarh, Chhattisgarh (Further consideration of EC based on TOR 24.04.2008)
20. 3.00 PM - 3.30 PM: Thesgora Underground Coalmine Project of M/s Thesgora Coal Pvt. Ltd. dist. Chindwara, M.P.
21. 3.30 PM- 4.00 PM: Proposal on Flyash Utilisation of 1200 MW TPP of M/s NALCO in an abandoned coalmine void of Bharatpur (South) of M/s Mahanadi Coalfields Ltd., Talcher Coalfields, Dist. Angul, Orissa
21. 4.00 PM -4.30 PM: Belpahar OC Expn. Project (4.5 MTPA to 6.0 MTPA over 1503.683 ha) of M/s Mahanadi Coalfields Ltd., located in Ib valley coalfields, Dist. Angul, Orissa (EC based on TOR granted on 11.07.2008)
22. 4.30 PM -5.00 PM: Basundhara OCP (2.4 MTPA to 8 MTPA and increase in lease area from 401 ha to 437.10 ha) of M/s MCL, Dist. Sundergarh, Orissa (EC based on TOR granted on 11.07.2008)
-

EXPERT APPRAISAL COMMITTEE (THERMAL & COAL MINING)

- (1) Shri V.P. Raja,
Chairman,
Maharashtra Electricity Regulatory Commission,
13th Floor, Centre No.1,
World Trade Centre, Cuffe Parade,
Colaba, MUMBAI- 400 005.
- (2) Prof. KKS Bhatia,
Director,
Modinagar Institute of Technology, MIT,
MODINAGAR – 201204.
- (3) Shri Jawahar Lal Mehta,
Shanti Vihar,
514-A, Aryapuri Ratu Road,
RANCHI – 834001.
- (4) Prof. C.R. Babu,
Centre for Environmental Management of Degraded Ecosystems,
School of Environmental Studies,
University of Delhi, Delhi-110007.
- (5) Dr. Shiv Attri,
Senior Scientist
India Meteorological Dept.,
Lodi Road, New Delhi-110003.
- (6) Prof. G.S. Roonwal,
C-520, SFS Sheik Sarai-1,
New Delhi-110017.
- (7) Dr.C.B.S. Dutt,
Group Director (AS & OG)
National Remote Sensing Agency,
Hyderabad -500625..
- (8) Dr. V.B. Mathur,
Dean, Wildlife Institute of India,
Post Box #18, Chandrabani,
DEHRADUN – 248001.
- (9) Member-Secretary,
Central Pollution Control Board,
East Arjun Nagar, Shahdara,
Delhi -110032.
- (10) Shri T.K. Dhar,
31-B, Mansarovar Apartments,
Sector-61,
NOIDA – 201301.

Partial Print Out

MINUTES OF 37th EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING) MEETING HELD ON 28th -29th NOVEMBER 2011 IN PARYAVARAN BHAWAN, CGO COMPLEX, LODI ROAD, NEW DELHI.

COAL MINING PROJECTS

The 37th meeting of the reconstituted EAC (T & C) was held on 28th-29th November 2011 in Paryavaran Bhawan, C.G.O Complex, New Delhi to consider the projects of coal mining sector. The list of participants of EAC and the proponents are given at Annexure-1 and 2 respectively.

Confirmation of minutes

The minutes of the 35th meeting of EAC (T&C) held on 17th-18th October 2011 was confirmed.

The agenda items were taken up as given below:

1. Cluster-1 (Damoda Group of 3 Mines – Damoda (Albion Section) OCP, Damoda UGP and Damuda BJ Section OCP) Group of Mines (of 0.9 MTPA normative and 1.17 MTPA (peak) in a combined ML area of 575 ha) of M/s BCCL located in Jharia Coalfields, Block Chandrapur, dist. Dhanbad, Jharkhand (EC based on TOR granted on 03.07.2009)

The proponent made a presentation. It was informed that the Damoda Group of mines (Cluster-1) consists of 3 mines of which 2 are operating mines - Damoda (Albion Section) OCP and Damoda UG mine and the third is a proposed mine - Damuda BJ Section OCP. One mine - Ghutway is a closed mine and is not included in the application for EC. The mines falls under single lease hold area and are separated distinctly from other mines of Jharia Coalfields. River Jamunia, which is a 4th Order river flows along the boundary of Cluster and joins River Damodar which flows near the eastern boundary of Cluster-I. A seasonal nala - Podo Jore originates from the centre of the ML and joins River Jamunia. The entire infrastructure including project colony is shared by all the mines and fall within the lease area. The mines have common transport system. The proponent informed that backfilling of OB in Damoda OC and development of Damoda UG is on-going. OC mining is by Shovel-Dumper and underground mining is by Board and Pillar involving depillaring. Four seams by OC mining upto 105m depth would be undertaken.

The present land use of combined ML area of 575 ha of the cluster includes 77.25 ha of active mining area (abandoned, running, OB dump, coal dump, pit/CHP), 88.57 ha is settlements, 1 ha is water body, 204.67 ha is agricultural land, 4 ha is plantation, 9 ha is rail/road, 190.51 ha is wasteland/barren land. The entire 204.67 ha has not been acquired. It was stated that most of the 190 ha of barren land would be reclaimed and finally reduced to 40.64 ha. One water body of 20.84 ha would be left as a water body at the end of mining. No forestland is involved. Ground water level is in the range from 1.37m to 8.75 m during pre-monsoon and 0.37m to 4.79 m during post-monsoon in the core zone. Total water requirement is 1383 m³/day, of which 533m³/day is for mining operations and 850m³/day is for domestic use. A provision of Rs 5/T of coal has been made. R&R involves 51 PAFs, to be rehabilitated near Ghutway in 4.42 ha of area in Phase-I at the cost of Rs 3.5 crores. Funds allocated for EMP is Rs 2.50/T of coal in case of UG mine and Rs 5.50/T of coal in case of OC mine. The life of Damoda (Albion section OC) is 8 years, Damoda underground mine is 10 years, and the proposed Damoda (BJ –Section) OCP is 10 years. The project has been approved by BCCL Board. Consent to operate has also been obtained from JSPCB. Public Hearing was held on 11.05.201.

Cluster-I (Damoda Group of Mines)				
S.N	Mines in Cluster-1	ML Area (Ha)	Normative Prod. Capacity (MTPA)	Peak Prod. capacity (MTPA)

The Committee noted that UG mining is proposed underneath the OC mine/dump, even as OC mining is in progress. The Committee also noted that the Mining Plan is vague on the status of OC mine and the year of commencement of UG mining and merely states "after substantial progress of the OC mine, depillaring operation can be commenced". The details of comprehensive calendar plan of the OC-cum-UG mine has not been given in the approved Mining Plan of the MOC. The Committee also noted that depillaring operation is to begin 12 years after commencement of UG mining. The Committee was of the view that the only after due diligence of the safety issues of dumping to a max. height of 300m of dump height; UG mining below the OC mining should be undertaken. The Committee was also of the view that the aspect of depillaring with/without caving needs to be reviewed thoroughly at that stage. The Committee after discussions was of the view that the decision on the matter of undertaking UG mining below OC mine/internal dump and the process of depillaring 12 years thereafter with caving thereafter should be reviewed prior to start of UG mining and in case of serious safety issues, UG mining should not commence or could do so after a thorough risk assessment by DGMS and its prior approval. The Committee decided that no flyash should be used for backfilling of mine voids without proper study.

The Committee desired that the grassland should be developed as part of habitat restoration for elephants using the area as habitat. The Committee desired that the Wild life Conservation Plan should be raised from Rs 2.5 crores to Rs 5 crores for 25 years. The Committee recommended a time limit of 5 years for the establishment of MGR for coal transportation and that the MGR route should be aligned to cause minimal disturbance to movement of wild fauna. For the initial 5 years, the transportation could be by road to railway siding at Kharsia which is 60 km from mine and thereafter to Korba. The Committee desired that proponent should in consultation with PCCF (WL), Govt. of Chhattisgarh introduce alert/waning system such as whistle, horn, etc and train their drivers of MGRs for reducing train speeds to enable the wild animals including wild elephants to move away from the MGR tracks.

The Committee recommended provision of annuities of Rs 2500/month to vulnerable persons found in and around the project area. The Committee recommended that the relocation of 750 PAFs should be completed within a time frame in consultation with the District Administration. The Committee recommended that the proponent continue with the CSR Plan prepared for the 15 villages for the life of the project.

The Committee after discussions recommended the project for environmental clearance with the aforesaid conditions.

5. Expansion of Mangrol Valia Opencast Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat (Further consideration of TOR)

The proposal was earlier considered for TOR in the EAC meeting held on 18TH -19TH April 2011, and the issues raised/clarifications sought by the Committee were further considered.

The proponent made presentation. It was informed that the annul requirement of 7.4 MTPA of lignite would be met from 3 working pits – Pit-1 (2.4 MTPA), Pit-2 (4.2 MTPA) and Pit-3 (0.8 MTPA which would be enhanced to 3.2 MTPA after exhaustion of Pit-1). It was informed that the proponent had examined three options to reduce the area for external dumping of OB with a view to minimising agricultural land for OB dumping:

- Option-1 To keep all the OB on the mineralised area until mine void becomes sufficient to start backfilling.
- Option-2 Keep all the OB in external OB dump until the mine voids are ready for backfilling.
- Option-3 Keep part of the OB in the mineralised area and part in ext. Ob dump till mine voids are ready for backfilling and to re-handle the total OB at the end of mine life.

It was informed that Options 1 and 2 were found to be unfeasible, as in option-1, the OB if stored in the mineralised area, would block the mine from advancing and reaching the bottom seam and in option-2, the external OB dump area would be over 710 ha and requires to be reduced as per MoEF suggestion. Option-3 has therefore been selected as given below:

Total Area for External OB Dump and Mining area				
S.N.	Particular	Area in ha		
		Original Proposal	Revised Proposal (Option-3)	Reduction In ML area
1	Mining Lease area (A)	2080	2060	20
2	Additional area for External Dump	980	309	671
3	Additional Mine area for extension of Mine from 110 depth to 150 m depth	650	650	0
	Total area required for extension	3710	3019	691

DETAILS OF LAND REQUIREMENT AS PER OPTION-3

S.N.	Particulars	Agriculture land (ha)	Waste land (ha)	Total area (ha)
1.	Original ML area	1971.29	108.71	2080
2.	Revised ML area(a)	1951.29	108.71	2060
3.	Additional area (b)	723.40	235.60	959
	Total Project Area (a+b)	2674	344.31	3019

Proposed Land Use Pattern As Per Option-3

Land Use	ML Area (ha) under Option-3	Additional area (ha)	Total Project area (inclusive of additional area) in ha
Mining	1188.21	650	1838.21
Dumping	147.63	309	456.63
Top soil stacking	50	-	50
Lignite stacking	10	-	10
Infrastructure	2.80		2.80
Area of rationalisation	661.36		661.36
Total	2060	959	3019

It was informed that in Option-3, the rated capacity of the expansion would remain unchanged at 7.4 MTPA. Mining would be mechanised using diesel hydraulic shovels in combination with dumpers. Mining would start at 20m and the ultimate working depth would be 150m. Stripping ratio would be 6.02/T of lignite (including re-handling). The total estimated OB generation would be 1204.12 Mm³, of which 156.34 Mm³ of OB would be temporarily stored in an external dump of 50m height in 394 ha area and 36.44 Mm³ of OB would be temporarily stored in the mineralised area and re-handled. Thus, the total quantity of OB to be re-handled and backfilled would be 192.78 Mm³. The balance 947.02 Mm³ would be backfilled and 64.32 Mm³ of OB would be backfilled into the neighbouring Vastan Lignite Mine void. It was informed that the company would incur an additional cost of Rs 1200 crores for re-handling of OB. The total life of the mine is 35 years/38 years with backfilling and

re-handling. The total water requirement is 770 m³/d. R&R involves 3 villages within the additional ML area. R&R does not involve homestead losers. The ML is drained by River Moti. There are existing road, railway line, electric power line and streams present in the Mangrol mine lease extended area. There are no National Parks, WL Sanctuaries, RF/PFs, etc in the study area. Coal transport & evacuation would be by dedicated road and then by conveyor from the mine stock yard to the linked power plant. The proponent also made a presentation on the status of compliance of environmental conditions stipulated in earlier EC dated 21.07.2003. The details of CSR activity were also presented.

The Committee after discussions agreed to Option-3. The Committee desired that the CSR funds of Rs 7.75 crores earmarked for 2010-2011, should also continue for life of mine for Rs 7.75 crores/annum. The Committee observed that most of the conditions stipulated in the EC are being complied with.

The Committee after discussions recommended TOR at Annexure 4 along with specific conditions recommended by the Committee above read with general conditions given in Annexure 7.

6. Durgapur II/Sariya Coal Block (2 MTPA) of M/s DB Power Limited, located in Mand-Raigarh Coalfields, District Raigarh, Chhattisgarh (EC based on TOR granted on 23.10.2008)

The proponent made a presentation. It was informed that Durgapur II/Sariya Coal Mine Block was allotted to M/s DB Power Limited on 6.11.2007 by MOC for linked 2x600MW TPP at village Baradarah, dist. Raigarh as per MOU entered with Govt. of Chhattisgarh. The total land requirement is 540.75 ha of which 290.399 ha is forest land, 238.38 ha is agricultural land, 3.642 ha is waste land, 0.542 ha is surface water bodies, and 9.813 ha is others (which totals 542.776 ha) Mining Plan has been approved by MOC on 25.06.2009.

Proposed Land use

S.N	Description	As per revised Mine Plan September 2011		
		Area (ha) at the end of		
		5 th year	8 th year	Mine life
1.	a)Mining/Excavation	112.56	192.5	517.48
	b)Settling pond at surface*	5.00	5.00	0.00
2.	Surface Dump			
	a) Surface Dump Within ML area	96.05	150.00	0.0
	b)Top soil dump	2.00	2.00	0.00
3	Facilities			
	a)Office buildings, coal stockpile etc.	5.5	5.5	0.00
	b) Road	5.00	5.00	2.00
	c) Undisturbed	314.64	180.75	21.27
	Total ML area (ha)	540.75	540.75	540.75

The rated capacity of coal production is 2 MTPA. Mining would be mechanised using a combination of shovel-dumper and surface miner. Ultimate working depth is 180m which would be reduced to 40m at the post mining stage. Grade of coal is D to F. The ML is drained by River Mand and its tributaries. A few first streams traverse through the ML. The drainage of the Block is River Mand flowing at a distance of 3.5 km in the west and Sariya Nala flowing at 0.1 km in the south. It was clarified that no embankment is required as the RL of the mining is higher than the nala. However,

No. J-11015/325/2010-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex,
New Delhi-110510.

To

Dated: 11th January 2012

Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT – 391346.

Sub: Expansion of Mangrol Valia Opencast Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat (-Terms of Reference (TOR) –reg.

Sir,

This is with reference to letter no. GIPCL/Mines/Mangol-Valia Expn./2010/6339 on the aforesaid subject and subsequent letters dated 17.08.2011, 12.05.2011 and 16.09.2011 on the issues raised in the consideration of the proposal for TOR in the EAC meeting held on 18th -19th April 2011 and further consideration in EAC (T&C) meeting held on 28th -29th November 2011. The mine was granted EC in July 2003 for a production capacity of 4.2 MTPA in an ML area of 2080 ha. The present proposal is for expansion from 4.2 MTPA to 7.2 MTPA covering a total project area of 3710 ha. Mining Plan for the expansion has been approved by MOC on 08.06.2010. It was explained that the lignite requirements of an existing 2x125 MW TPP and Stage-I (2x125 MW) TPP is being met from existing Vastan Lignite mine and from the Mangol-Valia mine. However, the proposed Stage-II expansion (2x125 MW) would require an expansion of the prod. capacity from 4.2 MTPA to 7.4 MTPA, whereby the existing Vastan Lignite Project is to provide 0.6 MTPA of lignite requirements of the linked TPP and the balance 7.32 MTPA would be met from Mangrol and Valia Lignite Blocks. Of the total ML area, 1210 ha is of Mangrol Block and 870 ha is Valia Block. It was informed that the annual requirement of 7.4 MTPA would be met from three pits working concurrently at a time. Pit -1 (Shah-pit) would produce 2.4 MTPA, Pit-3S (Mangrol pit) - 0.8 MTPA and Pit -3 N (Valia pit)- 4.2 MTPA. It was informed that after exhaustion of reserves from Pit-1, production from Pit-3S would be increased to 3.2 MTPA. The proposal for further expansion to 7.4 would be by going deeper from 110m bgl to 150m bgl.

It was informed that the annual requirement of 7.4 MTPA of lignite would be met from 3 working pits – Pit-1 (2.4 MTPA), Pit-2 (4.2 MTPA) and Pit-3 (0.8 MTPA which would be enhanced to 3.2 MTPA after exhaustion of Pit-1). It was informed that the proponent had examined three options to reduce the area for external dumping of OB with a view to minimising agricultural land for OB dumping:

- | | |
|----------|---|
| Option-1 | To keep all the OB on the mineralised area until mine void becomes sufficient to start backfilling. |
| Option-2 | Keep all the OB in external OB dump until the mine voids are ready for backfilling. |
| Option-3 | Keep part of the OB in the mineralised area and part in ext. OB dump till mine voids are ready for backfilling and to re-handle the total OB at the end of mine life. |

It was informed that Options 1 and 2 were found to be unfeasible, as in option-1, the OB if stored in the mineralised area, would block the mine from advancing and reaching the bottom seam and in option-2, the external OB dump area would be over 710 ha and requires to be reduced as per MoEF suggestion. Option-3 has therefore been selected as given below:

Total Area for External OB Dump and Mining area				
S. N.	Particular	Area in ha		
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1	Mining Lease area (A)	2080	2060	20
2	Additional area for External Dump	980	309	671
3	Additional Mine area for extension of Mine from 110 depth to 150 m depth	650	650	0
	Total area required for extension	3710	3019	691

DETAILS OF LAND REQUIREMENT AS PER OPTION-3

S.N.	Particulars	Agriculture land (ha)	Waste land (ha)	Total area (ha)
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2.	Revised ML area(a)	1951.29	108.71	2060
3.	Additional area (b)	723.40	235.60	959
	Total Project Area (a+b)	2674	344.31	3019

Proposed Land Use Pattern As Per Option-3

Land Use	ML Area (ha) under Option-3	Additional area (ha)	Total Project area (inclusive of additional area) in ha
Mining	1188.21	650	1838.21
Dumping	147.63	309	456.63
Top soil stacking	50	-	50
Lignite stacking	10	-	10
Infrastructure	2.80		2.80
Area of rationalisation	661.36		661.36
Total	2060	959	3019

It was informed that in Option-3, the rated capacity of the expansion would remain unchanged at 7.4 MTPA. Mining would be mechanised using diesel hydraulic shovels in combination with dumpers. Mining would start at 20m and the ultimate working depth would be 150m. Stripping ratio would be 6.02/T of lignite (including re-handling). The total estimated OB generation would be 1204.12 Mm³, of which 156.34 Mm³ of OB would be temporarily stored in an external dump of 50m height in 394 ha area and 36.44 Mm³ of OB would be temporarily stored in the mineralised area and re-handled. Thus, the total quantity of OB to be re-handled and backfilled would be 192.78 Mm³. The balance 947.02 Mm³ would be backfilled and 64.32 Mm³ of OB would be backfilled into the neighbouring Vastan Lignite Mine void. It was informed that the company would incur an additional cost of Rs 1200 crores for re-handling of OB. The total life of the mine is 35 years/38 years with backfilling and re-handling.

The total water requirement is 770 m³/d. R&R involves 3 villages within the additional ML area. R&R does not involve homestead losers. The ML is drained by River Moti. There are existing road, railway line, electric power line and streams present in the Mangrol mine lease extended area. There are no National Parks, WL Sanctuaries, RF/PFs, etc in the study area. Coal transport & evacuation would be by dedicated road and then by conveyor from the mine stock yard to the linked power plant. The proponent also made a presentation on the status of compliance of environmental conditions stipulated in earlier EC dated 21.07.2003. The details of CSR activity were also presented.

The Committee after discussions agreed to Option-3. The Committee desired that the CSR funds of Rs 7.75 crores earmarked for 2010-2011 CSR, should continue for the life of mine. The Committee observed that most of the conditions stipulated in the EC are being complied with.

The Committee after discussions recommended TOR as given below:

- (i) An EIA-EMP Report would be prepared for expansion of production capacity from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha, based on the generic structure specified in Appendix III of the EIA Notification 2006.
- (ii) An EIA-EMP Report would be prepared for expansion of production capacity from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha and cover the impacts and management plan for the project specific activities on the environment of the region, and the environmental quality – air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modelling for 7.4 MTPA of coal production based on approval of project/Mining Plan for 7.4 MTPA in an ML area of expansion of production capacity from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha. Baseline data collection can be for any season except monsoon. The EIA-EMP Report shall be prepared based on Option-3, i.e. Keep part of the OB in the mineralised area and part in ext. Ob dump till mine voids are ready for backfilling and to re-handle the total OB at the end of mine life. One-season data (except) monsoon for environmental quality parameters shall be collected and details provided in the EIA Study. The latest monitoring report of the environmental quality being carried for the existing project should also be provided.
- (iii) A map specifying locations of the State, District and Project location.
- (iv) A Study area map of the core zone and 10km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage of rivers/streams/nalas/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km area of the buffer zone should be given.
- (v) Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note of the land use. Satellite imagery per se is not required.
- (vi) Map showing the core zone delineating the agricultural land (irrigated and unirrigated, uncultivable land (as defined in the revenue records), forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (vii) A contour map showing the area drainage of the core zone and 2-5 km of the buffer zone (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated as a separate map.
- (viii) A detailed Site plan of the mine showing the various proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area and if any, in topography such as existing roads, drains/natural water bodies are to be left undisturbed along with any natural drainage adjoining the lease /project and modification of thereof in terms of construction of embankments/bunds, proposed diversion/rechannelling of the water courses, etc., approach roads, major haul roads, etc.
- (ix) In case of any proposed diversion of nallah/canal/river, the proposed route of diversion/modification of drainage and their realignment, construction of embankment etc. should also be shown on the map.
- (x) Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown.
- (xi) Break up of lease/project area as per different land uses and their stage of acquisition.

LANDUSE DETAILS FOR OPENCAST PROJECT

(A) EXISTING PROJECT

(B) EXPANSION PROJECT

S.N.	LANDUSE	Within ML Area (ha)	Outside ML Area (ha)	TOTAL
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			
	TOTAL			

- (xii) Break-up of lease/project area as per mining operations (existing project and expansion project) vide Section 4 of the MOEF Mining Questionnaire.
- (xiii) Impact of changes in the land use due to the start of the projects if much of the land being acquired is agricultural land/forestland/grazing land.
- (xiv) Collection of one-season (non-monsoon) primary baseline data on environmental quality - air (PM₁₀, PM_{2.5}, SO_x, NO_x and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil along with one-season met data coinciding with the same season for AAQ collection period.
- (xv) Map of the study area (1: 50, 000 scale) (core and buffer zone clearly delineating the location of various stations superimposed with location of habitats, other industries/mines, polluting sources. The number and location of the stations in both core zone and buffer zone should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Values should be provided based on desirable limits.
- (xvi) Study on the existing flora and fauna in the study area (10km) carried out by an institution of relevant discipline and the list of flora and fauna duly authenticated separately for the core and buffer zone and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I fauna, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a comprehensive Conservation Plan should be prepared and submitted with EIA-EMP Report and comments from the CWLW of the State Govt. also obtained and furnished.
- (xvii) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until end of mine life should be reflected on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures.
- (xviii) Details of mining methods, technology, equipment to be used, etc., rationale for selection of that technology and equipment proposed to be used vis-à-vis the potential impacts.
- (xix) Impact of mining on hydrology, modification of natural drainage, diversion and channelling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
- (xx) Detailed water balance should be provided. The break up of water requirement for the various mine operations should be given separately.
- (xxi) Source of water for use in mine, sanction of the competent authority in the State Govt. and impacts vis-à-vis the competing users.
- (xxii) Impact of mining and water abstraction use in mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term modelling studies on. Details of

1.	1 st year									
2.	3 rd year									
3.	5 th year									
4.	10 th year									
5.	15 th year									
6.	20 th year									
7.	25 th year									
8.	30 th year									
9.	34 th year (end of mine life)									
10.	34-37 th Year (Post- mining)								85	

* As a representative example

- (xxviii) Conceptual Final Mine Closure Plan, post mining land use and restoration of land/habitat to pre-mining. A Plan for the ecological restoration of the area post mining and for land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of rehandling (wherever applicable) and backfilling and progressive mine closure and reclamation.

Table 3: Post-Mining Landuse Pattern of ML/Project Area (ha)

S.N.	Land use during Mining	Land Use (ha)				
		Plantation	Water Body	Public Use	Undisturbed	TOTAL
1.	External OB Dump					
2.	Top soil Dump					
3.	Excavation					
4.	Roads					
4.	Built up area					
5.	Green Belt					
6.	Undisturbed Area					
	TOTAL	85				110

- (xxix) Flow chart of water balance. Treatment of effluents from workshop, township, domestic wastewater, mine water discharge, etc. Details of STP in colony and ETP in mine. Recycling of water to the max. possible extent.
- (xxx) Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine.
- (xxxi) Risk Assessment and Disaster Preparedness and Management Plan.
- (xxxii) Integrating in the Env. Management Plan with measures for minimising use of natural resources - water, land, energy, etc.
- (xxxiii) Including cost of EMP (capital and recurring) in the project cost and for progressive and final mine closure plan.
- (xxxiv) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan.
- (xxxv) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project.
- (xxxvi) Public Hearing should cover the details of notices issued in the newspaper, proceedings/minutes of public hearing, the points raised by the general public and commitments made by the proponent should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.
- (xxxvii) In built mechanism of self-monitoring of compliance of environmental regulations.

- (xxxxi) Submission of sample test analysis of:
Characteristics of coal - this includes grade of coal and other characteristics – ash, S and heavy metals including levels of Hg, As, Pb, Cr etc.
- (xxxxii) Copy of clearances/approvals – such as Forestry clearances, Mining Plan Approval, NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

(A) FORESTRY CLEARANCE

TOTAL ML/PROJECT AREA (ha)	TOTAL FORESTLAND (ha)	Date of FC	Extent of forestland	Balance area for which FC is yet to be obtained	Status of appl. for diversion of forestland
		If more than one, provide details of each FC			
(B)	MINING PLAN/PROJECT APPROVAL				
	Date of Approval of Mining Plan/Project Approval:				

B) MINING PLAN/PROJECT APPROVAL

- Date of Approval of Mining Plan/Project Approval:
Copy of Letter of Approval of Mining Plan/Project Approval

(xxxviii) Corporate Environment Responsibility:

- a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
- d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

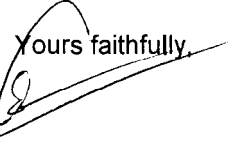
The following general points should be noted:

- (i) All documents should be properly indexed, page numbered.
- (ii) Period/date of data collection should be clearly indicated.
- (iii) Authenticated English translation of all material provided in Regional languages.
- (iv) After the preparation of the draft EIA-EMP Report as per the aforesaid TOR, the proponent shall get the Public Hearing conducted as prescribed in the EIA Notification 2006 and take necessary action for obtaining environmental clearance under the provisions of the EIA Notification 2006.
- (v) The letter/application for EC should quote the MOEF file No. and also attach a copy of the letter prescribing the TOR.
- (vi) The copy of the letter received from the Ministry on the TOR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.
- (vii) The final EIA-EMP report submitted to the Ministry must incorporate the issues in TOR and that raised in Public Hearing. The index of the final EIA-EMP report, must indicate the specific chapter and page no. of the EIA-EMP Report where the specific TOR prescribed by Ministry and the issue raised in the P.H. have been incorporated. Mining Questionnaire (posted on MOEF website) with all sections duly filled in shall also be submitted at the time of applying for EC.
- (viii) General Instructions for the preparation and presentation before the EAC of TOR/EC projects of Coal Sector should be incorporated/ followed.

(viii) The aforesaid TOR has a validity of two years only.

The following additional points are also to be noted:

- (i) Grant of TOR does not necessarily mean grant of EC.
- (ii) Grant of TOR/EC to the present project does not necessarily mean grant of TOR/EC to the captive/linked project.
- (iii) Grant of TOR/EC to the present project does not necessarily mean grant of approvals in other regulations such as the Forest (Conservation) Act 1980 or the Wildlife (Protection) Act, 1972.
- (iv) Grant of EC is also subject to Circulars issued under the EIA Notification 2006, which are available on the MOEF website: www.envfor.nic.in

Yours faithfully,


(Dr. T. Chandini)
Director

Copy to: Chairman, **Gujarat State Pollution Control Board**, Paryavaran Bhavan, Sector 10-A,
Gandhinagar – 382010.



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

Phone: (02629) 261087 Fax: (02629) 261112 Email: cgmminesoffice@gipcl.com

GIPCL/SLPP/Mangrol-Valia/EC/ 8755

Dated: November 7, 2013

To,

Dr. (Ms.) SAROJ,
Director (IA Division), Coal Mining
Ministry of Environment and Forests, Govt. of India
CGO Complex, Paryavaran Bhawan,
Lodi Road,
New Delhi-110 003

Sub: Extension of TOR period for one year for enhancement of production from our Mangrol-Valia Lignite Mines from 4.2 MTPA to 7.4 MTPA

Ref.: Terms of Reference letter No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012

Respected Sir,

We would like to draw your kind attention that, we have obtained Terms of reference vide letter No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012 based on the approved Mining Plan.

As required by the EAC (T&C) during the deliberation to obtain TOR, certain modification in Mining and management of solid waste with an aim to reduce external dumping area was required. For this purpose the Mining Plan and Mine Closure Plan have been revised and submitted to Ministry of Coal vide letter no. GIPCL/SLPP/Mangrol-Valia/ Mining Plan/1441/dated 25.02.2013 for approval, and they are under the process of approval.

In view of above, you are kindly requested to extend the TOR period for another one year ending on 10.01.2015 as per the office memorandum No. J-11013/41/2006-IA.II(I) dated 22.03.2010.

Submitted for your kind consideration and approval please.

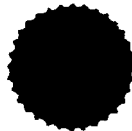
Thanking You, Sir

Yours faithfully,
For Gujarat Industries Power Co Ltd.


(N. K. Purohit)
General Manager (Mines)

Encl: 1. Copy of Submission letter of Modified Mining Plan to Ministry of Coal.
2. Copy of Terms of Reference No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012.

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



Phone : EPAX (0265) 2232768/2213/0159
Fax : 2231207 E-mail : genbaroda@gipcl.com

Website : www.gipcl.com



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

Phone: (02629) 261087 Fax: (02629) 261112 Email: cgmminesoffice@gipcl.com

GIPCL/SLPP/Mangrol-Valia/EC/ 87 5 5

Dated: November 26, 2013

To,

Director (IA Division), Coal Mining
Ministry of Environment and Forests, Govt. of India
CGO Complex, Paryavaran Bhawan,
Lodi Road,
New Delhi-110 003

Sub: Extension of TOR period for one year for enhancement of production from our Mangrol-Valia Lignite Mines from 4.2 MTPA to 7.4 MTPA

Ref.: Terms of Reference letter No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012

Respected Sir,

We would like to draw your kind attention that, we have obtained Terms of reference vide letter No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012 based on the approved Mining Plan.

As required by the EAC (T&C) during the deliberation to obtain TOR, certain modification in Mining and management of solid waste with an aim to reduce external dumping area was required. For this purpose the Mining Plan and Mine Closure Plan have been revised and submitted to Ministry of Coal vide letter no. GIPCL/SLPP/Mangrol-Valia/ Mining Plan/1441/dated 25.02.2013 for approval, and they are under the process of approval.

In view of above, you are kindly requested to extend the TOR period for another one year ending on 10.01.2015 as per the office memorandum No. J-11013/41/2006-IA.II(I) dated 22.03.2010.

Submitted for your kind consideration and approval please.

Thanking You, Sir

Yours faithfully,
For, Gujarat Industries Power Co Ltd.


(N. K. Purohit)
General Manager (Mines)

Encl: 1. Copy of Submission letter of Modified Mining Plan to Ministry of Coal.
2. Copy of Terms of Reference No. J-II015/325/2010-IA.II (M) Dated: 11th January 2012.

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



Phone : EPABX (0265) 2232768/2213/0159

Fax : 2231207 **E-mail :** genbaroda@gipcl.com

Website : www.gipcl.com



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

Phone: (02629) 261087 Fax: (02629) 261112 Email: cgminesoffice@gipcl.com

GIPCL/SLPP/Mangrol-Valia/EC/

Dated: February 28, 2014

To,

Director, (IA - Coal Mining)
Ministry of Environment and Forests, Govt. of India
CGO Complex, Paryavaran Bhawan,
Lodi Road,
New Delhi-110 003

Sub: **Extension of TOR period for one year for enhancement of production from our Mangrol-Valia Lignite Mines from 4.2 MTPA to 7.4 MTPA**

Ref.: Expert Appraisal Committee meeting held on 27/02/2013. (Agenda item no. 12.3)

Respected Sir,


We would like to draw your kind attention that, we obtained Terms of reference vide letter No. J-11015/325/2010-IA.II (M) Dated: 11th January 2012 based on the approved Mining Plan.

As required by the EAC (T&C) during the deliberation to obtain TOR, certain modification in Mining and management of solid waste with an aim to reduce external dumping area was required. For this purpose the Mining Plan and Mine Closure Plan have been revised and submitted to Ministry of Coal vide letter no. GIPCL/SLPP/Mangrol-Valia/ Mining Plan/1441/dated 25.02.2013 for approval, and they are under the process of approval.

The above facts are kindly submitted to you for your kind information and perusal please.

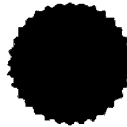
Thanking You, Sir

Yours faithfully,
For, Gujarat Industries Power Co Ltd.


(N. K. Purohit)
General Manager (Mines)

Encl: 1. Copy of letter, Submitted to Ministry of Coal for modification of Mining Plan and Mine Closure Plan.

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



Phone : EPAX (0265) 2232768/2213/0159
Fax : 2231207 E-mail : genbaroda@gipcl.com

Website : www.gipcl.com

MINUTES OF THE 12th EAC (THERMAL & COAL MINING PROJECTS) MEETING HELD ON 27th – 28th FEBRUARY, 2014 IN NEW DELHI

The 12th EAC (Thermal & Coal mining projects) Meeting held on 27th – 28th February in New Delhi to consider the proposals in coal mining sector. The list of participants of EAC and the proponents are given at Annexure-1 and 2 respectively.

B. Confirmation of Minutes: The Committee confirmed the minutes of the 7th EAC meeting held on 20-21 January, 2014.

C. The following proposals were considered:

12.1 Piparwar Mangardaha UGP (1.38 MTPA Normative and 1.587 MTPA Peak in an ML area 662.90 ha) of M/s Central Coalfields Ltd., located in district Chatra, Jharkhand - EC based on TOR granted on 08.04.2010.

12.1.1 The proposal is of environmental clearance for Piparwar Mangardaha UGP (1.38 MTPA Normative and 1.587 MTPA Peak in an ML area 662.90 ha) of M/s Central Coalfields Ltd., located in dist. Chatra, Jharkhand. The proponent made the presentation and informed that:

- i. It is an underground coal mining project of M/s Central Coalfields Ltd, to which Ministry accorded TOR vide letter no. J-11015/12/2010-IA.II (M) dated 08.04.2010.
- ii. The latitude and longitude of the project are 23° 42' 38" to 23° 44' 45" N and 85° 01' 34" to 85° 03' 15" E respectively.
- iii. Presently, Piparwar OCP is in operation in Piparwar block in the overlying seams (upto Lower Dakra seam). Lower Bachra seam is proposed to be extracted in Piparwar-Mangardaha UGP by deployment of continuous miner & LHDs.
- iv. Major Mining Area falls below existing Piparwar Opencast Project. Total land requirement is 662.90 Ha, out of which 485.50 Ha falls within quarry boundary of Piparwar OCP.
- v. The land usage of the project will be as follows:

Pre mining land use (in Ha.):

Sl No.	Class	Area/Hectares
1	Open Forest	2.29
2	Scrubs	80.02
3	Water Body	8.64
4	Quarry	67.68
5	OB Dump	136.74
4	Plantation on OB Dump	126.09
5	Agricultural land	15.82
5	Plantation	120.53
6	Others like sand body, open land, waste land etc	105.09
	Total	662.90

Post Mining land use (in Ha.):

Sl No.	Details of land use	Area in Ha
1	Reclaimed back filled area	419.10
2	Forest land	43.08

- ii. The impact on water quality from bore wells and on the intersecting aquifer be submitted. The report prepared by Roorkee University be sent to Dr. Arjit Dey of Ministry of Water Resources, Government of India for his expert comments.
- iii. The MoC approved mine plan and mine closure plan be submitted. The mine plan be re-examined and the approved plan be submitted for further discussion. Details of Pre- & Post-Mining land use details be submitted.
- iv. There shall be no external OBD after the mining is over.
- v. All internal filling shall be upto the ground level.
- vi. The air quality data be re-examined and the data submitted. Sources of the increase in the PM₁₀ and PM_{2.5} be studied and report submitted. alongwith mitigatory measures.
- vii. Grasses or firewood plants be planted on the OBD which is to be rehandled into the mine void.
- viii. A Conservation Plan be prepared and submitted to the Forest Department of the State Government and the approval be presented to the EAC alongwith the budgetary provisions provided in the plan
- ix. The height of the OB dump shall not be more than 30 meters.
- x. Haulage roads to be black topped.
- xi. Roads from working face to waste dumps, lignite stack piles, etc. to be sprayed with water.
- xii. One person from each affected family shall necessarily be offered training facilities for development of entrepreneurship, technical and professional skills for self-employment

12.3 Expansion of Mangrol Valia Opencast Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat – TOR Validity

12.3.1 Project proponent submitted that, in compliance to the suggestions made by the EAC while recommending TOR, certain modifications in mining and management of solid waste, with an aim to reduce external dumping area, were required. Accordingly, the Mining plan and Mine Closure Plan had been revised and submitted to MOC for their approval vide letter no. GIPCL/SLPP/Mangrol-Valia/Mining /1441/dated 25.02.2013, The MOC is under process of approval. In view of the above the PP requested for extension of the TOR validity by one more year i.e. upto 10.01.2015

12.3.2 The Committee after detailed deliberations has recommended to extend the validity of the ToR by one year i.e. upto 10.01.2015.

12.4 Coal Washery (expansion from 1 MTPA to 5 MTPA in an ML area 16.12 ha) of M/s Mahavir Beneficiation Private Ltd. in District Anuppur, Madhya Pradesh – TOR.

12.4.1 The proposal is for Terms of Reference (TOR) of Expansion of existing 1 MTPA Coal Washery [wet process] to 5 MTPA by adding two more modules of 2 MTPA each using dry process [Air Jig] in District Anuppur, Madhya Pradesh. The proponent made the presentation and informed that:

- i. The coal washery was established with prior “Consent to Establish” granted by the MPSPCB in 2005 when there was no requirement of granting environmental clearance to coal beneficiation projects under the applicable Rules Laws.
- ii. It is a three product Coal Washery.
- iii. The latitude and longitude of the project are :
 - A : 23°07’53.91” N - 81°36’00.40” E
 - B : 23°07’52.16” N - 81°35’44.84” E
 - C : 23°07’39.35” N - 81°35’35.75” E

No. J-11015/325/2010-IA.II(M)
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT AND FORESTS
IA-II (Coal-Mining) Division

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi- 110 003
Dated: 21st May, 2014

To,
Shri N.K. Purohit,
Additional General Manager (Mines),
M/s Gujarat Industries Power Company Ltd.,
P.O. Petrochemical, Dist. Vadodara,
GUJARAT – 391346.

Sub: Expansion of Mangrol Valia Opencast Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat - Extension of TOR validity reg.

Sir,

This is with reference to the Ministry's letter no. J-11015/325/2010-IA.II(M) dated 11.01.2012 granting Terms of Reference to the above mentioned project and the request from the proponent, vide its letter no. GIPCL/SLPP/Mangrol Valia/EC/8755 dated 7.11.2013 and subsequent communications dated 26.11.2013; 28.02.2014 for extension of validity of TOR.

2. The proposal was considered by the Expert Appraisal Committee (EAC) in its 12th EAC meeting held during 27th -28th February, 2014. The proponent informed that, since, certain modifications in mining and management of solid waste, with an aim to reduce external dumping area, were required. Accordingly, the Mining plan and Mine Closure Plan had been revised and submitted to MOC for their approval vide letter no. GIPCL/SLPP/Mangrol-Valia/ Mining /1441/dated 25.02.2013, The MOC is under process of approval. Therefore needs extension of validity of TOR.

3. The proposal was considered by the Expert Appraisal Committee in its 12th EAC meeting held during 27th -28th February, 2014 and recommended for extension of the validity of TOR by one year i.e. 10.01.2015.

4. Based on the recommendations of the Expert Appraisal Committee (EC), the Ministry Environment and Forests herewith extends the validity of TOR period by one year i.e. 10.01.2015.

5. All other conditions as stipulated in the ToR letter no J-11015/325/2010-IA.II(M) dated 11.01.2012 remains unchanged.

Yours faithfully,


(Dr. Manoranjan Hota)
Director

Copy to: Chairman, Gujarat State Pollution Control Board, Paryavaran Bhavan, Sector 10-A, Gandhinagar – 382010.



GUJARAT INDUSTRIES AND POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

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

Ref: GIPCL/SLPP/Mines/EC/ ૩૩૮૬

Date: December 19, 2014

To,

The Director

IA Division (Coal Mining),

Ministry of Environment & Forest, Government of India

Indira Paryavaran Bhavan, Aliganj, Jor Bagh Road, 3rd Floor, Vayu Wing,
New Delhi-110 003.

શ્રી. સચ. પર્યાવરણ અને વન ક્ષેત્ર
Received by CR Section
સરકાર, ગુજરાત સરકાર પર્યાવરણ અને
Ministry of Environment, Forests & Climate Change
સરકાર, ગુજરાત / Govt. of India
શ્રીમતી વાયુવન ભવન / Indira Paryavaran Bhavan
જોરબાગ રોડ, અલિગંજ / Jorbagh Road, Aliganj
નવ દેહી - 110003

[Handwritten signature]
02/10/15

Sub: **Submission of Application for Environment Clearance for enhancement of production of Lignite from 4.2 MTPA to 7.4 MTPA from Mangrol-Valia Lignite mines in Surat and Bharuch District of Gujarat.**

Dear Sir,

As per the TOR issued on 11.01.2012 by MOEF, GoI, we have applied for public hearing for enhancing the production of Lignite from 4.2 MTPA to 7.4 MTPA from Mangrol-Valia Lignite Mine to Gujarat Pollution Control Board (GPCB). As per the EIA Notification 2006, GPCB has conducted the public hearing on 02.04.2013 in Village Harsani of Surat District & 05.04.2013 in Village Rajgarh of Bharuch District of Gujarat state. We have finalized the final Environmental Impact Assessment incorporating the Public hearing proceeding.

Based on extension of TOR 21st May 2014, we are submitting herewith the Application (Schedule-II), final EIA, Point wise compliance to TOR, Public Hearing Proceeding and filled up Questionnaire format for Mining Project for your kind consideration. You are requested to kindly consider our application and issue the Environmental Clearance.

Thanking You

Yours Faithfully

for & on behalf of M/s Gujarat Industries and Power Company Ltd.

[Handwritten signature]

(N. K. Purohit)

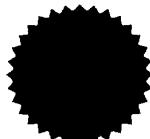
General Manager (Mines)/ Agent

- Encl: 1. Application (Schedule-II),
2. Final EIA,
3. Point wise Compliance of EC
4. Online Acknowledgement
5. Questionnaire for Mining Project along with soft copy (CD).

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. : L99999GJ1985PLC007868

**MINUTES OF THE 35th EAC (THERMAL & COAL MINING PROJECTS)
MEETING SCHEDULED FOR 14th -15th May, 2015**

The 35th EAC (Thermal & Coal mining projects) Meeting was held on **14th -15th May, 2015** in New Delhi to consider the proposals in coal mining sector. The list of participants of EAC and the proponents are given at Annexure-1 and 2 respectively.

B. Confirmation of Minutes: The Committee confirmed the minutes of the 33rd EAC meeting held on 9th -10th April, 2015.

C. The following proposals were considered.

35.1 Restructuring of Mine-1 Lignite Mine (reduction from 10.5 MTPA to 8 MTPA and expansion in ML area from 3178.4 ha to 3635.4 ha; latitude 11° 33' 00'' N to 11° 35' 00'' North and longitude 79° 28' 00'' E to 79° 32' 00'' East) of M/s Neyveli Lignite Corp. Ltd. Dist. Cuddalore, Tamil Nadu- (EC based on TOR granted on 20.05.2014 & TOR Modification on 22.10.2014).

35.1.1 The proposal is for restructuring of Mine-1 Lignite Mine (reduction from 10.5 MTPA to 8.0 MTPA) and expansion in ML area from 3178.4 ha to 3635.4 ha of M/s Neyveli Lignite Corp. Ltd. Dist. Cuddalore, Tamil Nadu. The proponent made the presentation and informed that:

- i. The project was accorded TOR vide letter no. J-11015/01/2012-IA.II (M) on 20.05.2014 and TOR Amendment vide letter no. J-11015/01/2012-IA.II (M) on 22.10.2014.
- ii. **Environmental Clearance for 10.5 MTPA** capacity was obtained vide letter no. J-11015/11/88-IA dated 06.03.1989.
- iii. The latitude and longitude of the project are 11° 33' 00'' N to 11° 35' 00'' North and 79° 28' 00'' E to 79° 32' 00'' East respectively.
- iv. Joint Venture: There is no Joint Venture
- v. Coal Linkage: Lignite will be used to sustain the Lignite requirement till the end of life of proposed linked Thermal Power Station (NNTPS) of 1000 MW at Neyveli.
- vi. Employment: Existing manpower 6515 (Executives – 596, Non-Executive – 2838; Contract workers – 3081),
- vii. Benefits of the project: Mine-I restructuring will help to sustain the Lignite production till the end of life of proposed linked Thermal Power Station (NNTPS) of 1000 MW at Neyveli.
- viii. The land usage of the project will be as follows:

35.13 Expansion of Mangrol Valia Opencast Lignite Mine Project (from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha; Latitude 21° 26'03'' N - 21° 31'10'' N and Longitude 73°06'58'' E - 73°13'44 '' E) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat- (EC based on TOR granted on 11.01.2012 /TOR Extn 21.05.2014).

35.13.1 Project proponent informed the Ministry to postpone the presentation for next EAC meeting. The project was therefore deferred.

35.14 Coal Beneficiation Plant of 1 MTPA capacity in a project area of 3.5 Ha; Latitude 21°21'33.12"N and Longitude 81°39'22.02"E)of M/s Shree NakodaIspatLimited, located in Plot No. 109 and 75 in Siltara Industrial Growth Centre, district Raipur, Chhattisgarh – (EC amendment)– further consideration.

35.14.1 The proposal is for amendment to EC for Coal Beneficiation Plant of 1 MTPA capacity in a project area of 3.5 Ha; (Latitude 21°21'33.12"N and Longitude 81°39'22.02"E) of M/s Shree NakodaIspat Limited, located in Plot No. 109 and 75 in Siltara Industrial Growth Centre, district Raipur, Chhattisgarh. Background to the proposal is as follows:

- a. M/s Shree Nakoda Ispat Ltd. Is operating a Sponge iron plant at Siltara Industrial Area, Raipur and applied for EC for 1 MTPA Coal Beneficiation Plant within the sponge iron plant premises.
- b. Environmental Clearance for the Cola Beneficiation Plant (1 MTPA) at Siltara Industrial Growth Center, Raipur, Chhattisgarh was granted by MoEF vide letter No. J-11015/473/2008-IA.II (M) dated 10th February, 2010.
- c. As per EC Specific Conditions : Specific Condition No.2 (A) (ii) : “The Circulating Fluidized Bed Combustion (CFBC) based Thermal Power Plant (TPP), which would entirely use the coal rejects from washery, shall be established within one year of commissioning of the washery and with prior environmental clearance”.
- d. Specific Condition No: 2 (A) (x): “The entire coal waste rejects shall be utilized in the linked CFBC based TPP located at within their plot and transported from the washery to TPP by closed conveyors”.
- e. Department of Industry and Commerce, Government of Chhattisgarh, Raipur (C.G)) has imposed a ban on setting up of new sponge iron and coal based thermal power plants in Uria, Sitara and Borzara industrial areas in Raipur vide its letter No.783/203/07/11/-dated 16.03.2007 and subsequent letter vide lette NO. 3529/205/11/- dated 12.12.2007.
- f. As a result, it is not possible to establish a Circulating Fluidized Bed Combustion (CFBC) based Thermal Power Plant (TPP) in the Coal Beneficiation Plant Premises for in-house utilization of the coal rejects generated from the coal beneficiation plant.
- g. Chhattisgarh Environment Conservation Board (CECB), Raipur, has sought to obtain necessary amendment in the environmental clearance issued by MoEF regarding use of reject coal vide Condition No. (10) of the Consent to Operate under Air (P&CP) Act, 1981.



GUJARAT INDUSTRIES POWER COMPANY LIMITED

(SURAT LIGNITE POWER PLANT)

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

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

Ref: GIPCL/SLPP/Mines/EC/ 4546

Date: June 6, 2015

To,

Dr. R Warriar,
Director, (IA-Coal Mining),
Ministry of Environment & Forest, Government of India
Indira Paryavaran Bhavan, Aliganj, Jor Bagh Road, 3rd Floor, Vayu Wing,
New Delhi-110 003.

Sub: - Request to defer the proposal for presentation w.r.t. Expansion of Mangrol-Valia Opencast Lignite Mine Project (from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha; Latitude 21° 03' N - 21° 10' N and Longitude 73° 06' 58" E - 73° 13' 44" E) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat- (EC based on TOR granted on 11.01.2012 /TOR Extn 21.05.2014).

Ref: - (i) 36th EAC (Thermal & Coal Mining Projects) meeting held on 15/05/2015
(ii) Agenda for 37th EAC (Thermal & Coal Mining Projects) meeting scheduled for 11th -12th June' 2015.

Respected Madam,

With reference to above referred agenda, regarding consideration of our proposal for the Environmental Clearance of Mangrol-Valia Lignite Mine Expansion in the next meeting of the Expert Appraisal Committee on 12th June' 2015, we would like to submit as below:

Our proposal for Expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 Ha to 3019 Ha) was considered in the last meeting of EAC on 15/05/2015, **where we requested to defer the proposal for some time.** With the above referred agenda, we came to know that our proposal for expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 Ha to 3019 Ha) has been again re-considered in the next meeting of EAC on 12/06/2015.

Since we still need some more time, you are kindly requested to defer the proposal for presentation and oblige. We will inform to your kind office when we are ready with our final proposal for Expansion of Mangrol-Valia Lignite Mine Project (4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 Ha to 3019 Ha).

Thanking You,

Yours faithfully,

For Gujarat Industries Power Co Ltd.

N. K. Purohit
General Manager (Mines)

(N. K. Purohit) Gujarat Industries Power Company

Registered Office & Valia Naroli,
General Manager (Mines)
P.O. Petrochemical, Dist. Vadodra, Taluka Mangrol, INDIA

Dist. Surat-394 110. (Gujarat)
Website : www.gipcl.com

Phone : EPABX (0265) 2232768/2213/0159

Fax : 2231207 **E-mail :** genbaroda@gipcl.com

CIN No. : L99999GJ1985PLC007868

**37th EAC (THERMAL & COAL MINING PROJECTS) MEETING
SCHEDULED FOR 11th -12th June, 2015**

AGENDA

Venue: Brahmaputra Conference Hall, First floor, Vayu Wing, Indira Paryavaran Bhawan, Jorbagh, New Delhi-110003.

Pl. check the MoEF website:

<http://environmentclearance.nic.in/Report/Default3.aspx>

Important Note:

- i. Please send the information as per Annexure 1 by E-mail in word format and also a signed & scanned copy, to the Member-Secretary at warrier@nic.in at least one week prior to the EAC meeting.**
 - ii. Please indicate the agenda number on the document submitted as well as in the e-mail while forwarding the relevant information.**
 - ii. Without this information, EAC has discretion to invite the proponent for the meeting.**
 - iii. Please also provide a copy to the EAC Members during the meeting.**
 - iv. No consultant is permitted into the meeting who has no accreditation with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) as per the MoEF OM dated 2nd December, 2009.**
-

COAL MINING PROJECTS

Thursday, 11th June, 2015

10:00 AM -10:15 AM: Confirmation of Minutes

- 37.1** Kusmunda Opencast Expansion Project (Normative 15 MTPA to 50MTPA & Peak 18.75 MTPA to 62.50 MTPA in an ML area 3510.348 Ha); Latitude 220 15' 18" to 220 21' 30" North and Longitude 820 38' 39" to 820 42' 08" East of M/s South Eastern Coalfields Ltd., located at dist. Korba, Chhattisgarh - **(EC based on TOR granted on 01.12.2014).**
- 37.2** Expansion of Amera Opencast Project (from 1.0 MTPA to 2.0 MTPA in an ML area of 664.184 Ha; Latitude- 230 02' 50" to 230 04' 34" N and Longitude 830 01' 34" to 83⁰ 03' 38" E) of M/s South Eastern Coalfields Limited located at village Amera, Tahsil Lakhanpur in District Sarguja Chhattisgarh – **(EC Expansion under 7(ii) of EIA Notification, 2006).**
- 37.3** Coal Washing Plant of (3.5 MTPA in an area of 7.55 Ha; Latitude 19°46'6.44" N and Longitude 79°19'52.65" E) by M/s N.N. Global Mercantile Pvt. Limited, Dist. Chandrapur, Maharashtra –**TOR- further consideration.**

LUNCH

- 37.4** Junad Deep Extension Project (0.60 MTPA normative and 1.5 MTPA peak and expansion in an ML area of 174.28 Ha to 449.63 Ha; Latitude 20° 01' .05" N to 20° 04' .10" N and Longitude 79° 03' .09" E to 79° 05' 00" E) of M/s Western Coalfields Limited, located at district-Yavatmal, Maharashtra **(EC based on TOR granted on 21.11.2014).**
- 37.5** Khadia Opencast Coal Mine Expansion Project (from 10 MTPA to 14 MTPA and lease area from 1460 ha to 1640 ha) of M/s Northern Coalfields Limited, located in District Sonbhadra, Uttar Pradesh and in Tehsil Singrauli in District Sidhi, Madhya Pradesh – **(EC under 7(ii) of EIA Notification 2006) - further consideration.**
- 37.6** Amlohri Opencast Expansion Project of (Normative 10 MTPA to Peak 14 MTPA in an ML area 2175 Ha; latitudes 24° 07' 30" to 24° 09' 30" North and Longitudes 82° 34' 30" to 82° 36' 30" EAST) M/s Northern Coalfields Limited, located at dist. Sidhi, Madhya Pradesh – **(EC under 7 (ii) of EIA Notification, 2006) - further consideration.**

Friday, 12th June, 2015

- 37.7** Coal Washery (Wet Process 2 x 2 MTPA capacity in an area of 8.195 ha) of M/s CG Coal & Power Ltd. Dist. Korba, Chhattisgarh. – **TOR - further consideration.**
- 37.8** Expansion of Mangrol Valia Opencast Lignite Mine Project (from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha; Latitude 21° 26' 03" N - 21° 31' 10" N and Longitude 73° 06' 58" E - 73° 13' 44" E) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat- **(EC based on TOR granted on 11.01.2012 /TOR Extn 21.05.2014).**
- 37.9** Amod Lignite Mine Project (G-19 Extn.) (1 MTPA) of M/s Gujarat Mineral Development Corporation Limited (GMDC), located in Village Amod, Tehsil Jhagadia, District Bharuch, Gujarat – **Amendment in EC conditions.**

LUNCH

- 37.10** Expansion of Bellampalli OC Mine Extension Project – II (from 0.40 MTPA to 1.00 MTPA in a total lease area of 191.98 ha; Latitude: 19° 12' 34" to 19° 12' 56" N and Longitude: 79° 20' 53" to 79° 21' 41" E) of M/s Singareni Collieries Company Ltd., located in village Abbapur, Mandal Tandur, District Adilabad, Andhra Pradesh (Presently in the State of Telangana- **(EC Expansion under 7(ii) of EIA**

Notification, 2006).

37.11 Coal Washery of 10 MTPA capacity in an area of 39.35 Ha of M/s Mahanadi Coalfields Limited located at Ib Valley in Lakhanpur area village Chharla, in district Jharsuguda Odisha –**TOR.**

37.12 Discussion on any other matters with the permission of the Chair.

Basic Information

Important Note: Please send the information by e-mail **in word format and a signed & scanned copy** to the Member-Secretary at warrier@nic.in prior to the EAC meeting. Please also provide a copy to the members of the EAC during the EAC meeting.

I. PROJECT DETAILS

- 1.Name of the project:
- 2.Name of the Company, Address Tele No. & E-mail :
- 3.Latitude and Longitude of the project
- 4.If a Joint venture, the names & addresses of the JV partners including their share
- 5.Details of coal linkage:
- 6.Whether the project is in the Critically Polluted Area (CPA):
- 7.Cost of the project :**
- 8.Employment generated/to be generated:**
- 9.Benefits of the project:**
10. Whether new or expansion project .If expansion:
 - i from MT to MT
 - ii What is the % of expansion
11. If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.
12. If expansion, please indicate the number and date of the **certified Compliance Report** of Regional Office of the MoEF
13. No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC)
14. No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)
15. If the project was considered in EAC, Pl. give dates of the meeting (s).
16. Type of Mine: (Open cast/Underground/mixed):
17. Capacity of the mine applied for
18. ML Area
 - i. As per block allotment
 - ii. As per approved mine plan
19. Date of approval of mine plan, mine closure plan, status & date
20. Date of Board's approval:
21. Date of Ground water clearance:
22. Date of mine closure approval
23. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.

Signature of Proponent
Date

II. TECHNICAL DETAILS

24. Geological Reserve:

- i. Total geological reserve
- ii. Mineable reserve
- iii. Extractable reserve
- iv. Per cent (%) of extraction
- v. Range of ground water level
- vi. Total estimated water requirement:

25. Details of Seams:

- i. No of seams
- ii. Thickness of seams to be worked on
- iii. Grade of coal
- iv. Stripping ratio
- v. Category of gaseousness
- vi. Average gradient
- vii. Maximum thickness of seams

26. Method of mining:

27. Life of mine

28. Whether ambient air quality seasonal data has been documented. If so, from which season to which season and whether the results are within the prescribed limits.

29. Whether the certificate of compliance of earlier EC from MoEF Regional Office has been obtained, if the proposal is for expansion.

30. Details of O.B.

- i. External OB dumps
- ii. No of OB dumps
- iii. Area
- iv. Height
- v. Quantity (in MCM)
- vi. Year of back filling

31. Details of Internal Dumps

- i. Number of internal dumps
- ii. Area
- iii. Height
- iv. Quantity

Signature of
Proponent
Date

32. Details of final Mine Voids

Area
Depth

33. Details of Quarry:

Total quarry area :

Backfilled quarry area ofha shall be reclaimed with plantation.

A void of ha at a depth of m which is proposed to be converted into a water body.

34. Details of Land usage

LANDUSE DETAILS

S.N.	LANDUSE	Within ML Area (ha)	Outside ML Area (ha)	TOTAL
1.	Agricultural land			
2.	Forest land			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
6.	Settlements			
7.	Others (specify)			
	TOTAL			

Pre-mining:

Post- Mining:

S.N.	Land use during Mining	Land Use (ha)				
		Plantation	Water Body	Public Use	Undisturbed	TOTAL
1.	External OB Dump					
2.	Top soil Dump					
3.	Excavation					
4.	Roads					
4.	Built up area					
5.	Green Belt					
6.	Undisturbed Area					
	TOTAL	85				110

Core area

Signature of Proponent
Date

35. Details of Forest issues

- i. Total forest area involved (in ha) for mining
- ii. Status of Forest Clearance
- iii. Is there any National Park, eco-sensitive Zones, within 10 km radius? If so, give the details.
- iv. If the project is within 10 KM of radius of the wild life sanctuary, whether the Wild Life Management Plan has been prepared and approved. If so, pl give the status, date of approval with the budgetary provision.
- v. Extent of forest land in the project (including safety zone and all types of forest land) (in ha)
- vi. Total forest land for which Stage-1 FC is available (give area in ha), provide breakup of this area in following format:

Area (in ha)	Stage-1 FC issued vide letter no.& date	Validity period of FC

- vii. Balance forest land for which Stage-1 FC is not available (give area in ha)
- viii. Details of wild life issues involved, if any. If so, whether WL management plan has been prepared and pl. indicate the status.

36. Cost of the project :

- i) Total capital Cost:
- ii) Cost of Production:
- iii) Sale Price:
- iv) CSR cost:
- v) R&R Cost:
- vi) No of PAFs:
- vii) Environmental Management cost:

37. Details of transportation of coal

- i. In pit:
- ii. Surface to siding:
- iii. Siding to loading:

38. Details of reclamation:

- a. Total Afforestation plan shall be implemented covering of mining. This will include:
 - i. Reclaimed external OB dump (in ha) :
 - ii. internal dump (in ha),
 - iii. Green belt (in ha)
 - iv. Density of tree plantation (in no of plants)
 - v. void (in ha) at a depth of (in m)which is proposed to be converted into water body
 - vi. Others in ha (such as excavation area along ML boundary, along roads and infrastructure, embankment

area and in township located outside the lease etc).

Signature of Proponent

Date

III. LEGAL ISSUES

39. Pl give details , if the proposal is under any investigation
40. Any court cases pending. If so, please provide a list with details as annexure.
41. Any violation cases pending. If so, please provide a list with details as annexure
42. Give details of actual coal production vis-à-vis sanctioned capacity since the inception of mine in following format :

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity

IV. PUBLIC HEARING ISSUES

43. Date and Place of public hearing:
44. Issues raised during Public Hearing and assurance given alongwith the financial provisions, if any, by the project proponent.(Please attach as an annexure in a tabular form.)

V. Consultant:

45. Name of the consultant who prepared the EIA/EMP report
46. Whether the consultant has been accredited by the QCI and NABL and whether it is accredited with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) as per the MoEF OM dated 2nd December, 2009

VI. IMG of Ministry of Coal :

47. Whether the project was considered by the IMG of Ministry of Coal for any irregularities. If so the no. and date of the show cause notice and the response of the MoC.

Signature of

Proponent

Date

GENERAL INSTRUCTIONS FOR SUBMISSION & CONSIDERATION OF TOR/EC APPLICATIONS OF COAL SECTOR PROJECTS

I TOR/EC APPLICATION

1. Proponents should clearly specify the date of application, location (village, coalfield, Tehsil, District, State), production capacity (MTPA) and lease/project area (in ha), in the application and in the forwarding letter. (In case the lease area does not cover all aspects of the mining activities /operations such as infrastructure, buildings, roads, ext. OB dumps, etc., then the total project area should be given which includes the lease area and area falling outside the lease for mining activities/operations). In case of expansion projects, in case of expansion in production from _____ MTPA to _____ MTPA or for ML/ project area from _____ ha to _____ ha should be given.
2. Production capacity should indicate both normative and peak capacity. Both TOR and EC applications should be on this basis. Peak capacity means the highest achievable production capacity from the mine taking into consideration the geo-mining characteristics, equipment, manpower deployment, man hours, etc achievable for the mine and exigencies for enhancement of production. The peak capacity that is achievable for the project, for which EC has been applied for, should be also reflected in the approved Mining Plan.
3. The Name and address of the Consultant who has prepared the EIA-EMP Report should also be given on the cover of the EIA-EMP and on the cover of the Hard copy of the presentations made to the EAC. The details of QCI registration along with the No. should also be indicated.
4. Details of Land use breakup of the lease area and study area should be based on land use - details of agricultural land, forest land, wasteland, grazing land, surface water bodies, settlements, etc. and not based on land ownership such as tenancy land, Govt. land, revenue land, etc.
5. The application should be signed by a person of the Company or someone authorised by the company and **the name of the signatory and the position in the company** should be clearly stated in the forwarding letter and in the application (Form-I) and in the EC application. Applications not with the aforesaid details would be treated as incomplete applications.
6. In case the Ministry of Coal has allocated the Coal Block to one or more companies, and the Allotment letter stipulates constitution of a Joint Venture, however, the lease is in the name of one of the members of the JV, then the application for EC (TOR and EC based on TOR) must be made by the concerned lessee of the JV only. If the lease is jointly allotted to the JV, the application should be made by the JV allotted the lease. Individual members of the JV cannot make the application unless they are the lessee of the coal block.

7. Such an application must include the following: (i) The MOC Allotment Letter of the Coal Block, (ii) Copy of constitution of the JV under the Companies Act, (iii) MOU entered by the JV companies vide MOC Allotment letter.
8. The Application for TOR should be made **only when** toposheet of the study area has been procured.
9. The Application for TOR should be made **only after** the geological report of the coalmine project has been completed for the project area for which the coal mining project is being formulated and is being sought TOR.
10. All the sections in the Form-I (Revised) should be filled in. No section should be left blank.
11. A CD (soft form) in PDF and in WORD format of the TOR Application containing the Form-I and the Pre-feasibility report) and EIA-EMP and supporting documents for the EC application should be submitted to the MOEF at the time of application. These should be forwarded to the EAC members at the time of circulation of the application along with MOEF covering letter indicating its inclusion in the agenda for the EAC meeting.
12. Pl. send all your communications to **MOEF by SPEED POST** (India Post) as most of the Courier agencies are not permitted within the CGO Complex. Copies to EAC members could be by Courier/Speed Post.
13. **No change can be made in the application** (Form-I and the pre-feasibility Report) **at the time of circulation to EAC members**. In case the details provided in Form-1 and the pre-feasibility Report require changes, then a formal letter from the company along with the revised application should be made to the Ministry indicating the specific changes made. In case the application requires revision, the revised application should state at the top of the Form-I (Revised along with date of revision). **Only after obtaining prior permission from MOEF**, the revised application (or original applications can be circulated for presentation before the Committee.
14. An approved Mining Plan is not required at the TOR stage. In case of new projects, it is desirable to submit applications for TOR when the Mining Plan is under finalisation/draft stage, the details of which can be provided in the pre-feasibility report). **An approved Mining Plan along with MOC approval letter is required at the EC stage.**
15. In case of applications under Section 7.2 (ii) for expansion projects with prior EC for the project of a lesser production capacity/lease area/both and the present application is for expansion in production/ lease area/ both/ modernisation, the application (Form-I) should be submitted under Section 7 (ii) of the EIA Notification 2006, enclosing the following: (i) a copy of the EC letter, (ii) a copy of the EIA-EMP Report of the earlier EC, (iii) copy of the proceedings of Public Hearing conducted on the project of earlier EC (and authorised English translation in case the P.H. is not in English) and status of implementation of issues raised

therein, (iv) An Addendum EIA-EMP Report of not more than 25-30 pages which will form part of the pre-feasibility report of the expansion project report covering all aspects of EIA-EMP for the proposed expansion - status of env. quality, specific issues on which impacts are anticipated and the proposed EMP/ mitigative measures proposed for the expansion project vis-à-vis the project for which EC was obtained.

In addition, a detailed compliance report on the earlier EC along with status of implementation of R&R (in case the project involved an R&R) should be also furnished in the Addendum EIA-EMP Report.

16. Applications for new/expansion Projects having a baseline data of more than 3 years will require fresh generation of baseline data based on the recent NAQPM Notification of 2009. Baseline data for AAQ should be consistent with meteorological data for the same season. It can be for any season except monsoon. **In case, baseline data has been collected before application has been made for the TOR**, the details of the data are required to be presented before the EAC for their approval for grant of TOR. **The minutes of the meeting must make a definite reference that the baseline data has been collected before the application was made for TOR**, however, EAC has approved the base line data and locations of stations.

17. If a captive coal washery is proposed to be constructed within the lease/project area or in the vicinity of the proposed (new) coalmining project for which TOR application is being made, then for such cases, an application for TOR for the integrated coalmine-cum-washery unit should be submitted.

18. Production capacities of coal mining as well as for the washery should be in ROM.

19. Circulation of the application for TOR should be made so as to reach the EAC members at least 10 days before the scheduled date of the meeting. The applications (Form-I and the pre-feasibility report) should be photocopied back-to-back while submitting to the Ministry and while circulating to the EAC members.

20. Once a TOR has been granted by the Ministry, the project proponent cannot make any changes to any TOR Condition or project parameters without prior approval of the Ministry.

21. The name and address of the Consultant who is registered with QCI can prepared the EIA-EMP Report. The name of the Consultant who has prepared the EIA-EMP Report should be available on the hard cover of the Reports (pre-feasibility report at the TOR stage and the EIA-EMP Report at the EC stage). Wherever secondary data has been included, it should be specifically stated so along with source of data and year of data collection.

II TOR/EC PRESENTATION TO THE EAC COMMITTEE

22. Presentation to EAC should be made by the lessee only. However, representatives of

the JV could also attend. In case the JV or one of the companies of JV is making the presentation on behalf of the lessee, a letter of Power of Attorney by the lessee/JV owning the lease is required for making the presentation for TOR/EC.

23. A senior level representative of the Company who is of a level of decision maker should appear before the Committee. If the company so desires, the senior representative could be accompanied by his team along with consultants who is registered with QCI. The name of the consultant and the registration No with QCI should be provided on page 1 of the Hard Copy circulated at the time of presentation.

24. The following maps/topo sheets and schematic diagrams are essential for the presentation:

Land use maps (1: 50,000 scale) based on recent satellite imagery indicating the topographical and land use features of the study area (10km buffer zone surrounding the core zone) should be furnished. In case of ecologically sensitive areas as defined in the EIA Notification 2006 – Appendix I Form 1 – III Sensitivity of (for eg. Areas near Wildlife Sanctuaries/Tiger Reserves/National Parks/Archaeological monuments, areas falling near/within elephant habitats/migratory corridors), a 15km map of the buffer zone should be presented. Satellite imagery should also be provided.

Land use Map of the study area (core zone and 10km of the buffer zone) on the topo sheet (1: 50,000 scale) indicating the broad topographical features of the land use (agricultural land, forestland, grazing land, wasteland and surface water bodies) **and not based on land ownership** of the core zone and buffer zone should be furnished. The maps should also contain the other features such as major roads, Highways, Railway lines, other mines and industries, habitations, etc.

25. In case the features are not clear in the topo sheet, map of the study area (core zone and buffer zone) superimposed on the topo sheet (1: 50,000 scale) preferably on Computer-Aided-Design (CAD) should be presented.

26. **Landuse map of the coalfield** showing major landuse features including forests and drainage and location of project within the coalfield along with locations of other coal mines, main coal transportation routes, etc should be shown.

27. **A landuse map based on toposheetof the study area (1: 50,000 scale)** indicating the hydrological features (rivers, canals, streams, nallas, water tanks, etc.) within the core zone and buffer zone should also be provided.

28. A more detailed **area drainage contour map** of the core zone and 2-5 km of the buffer zone (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in a separate map.

29. In case of any proposed diversion of nallah/canal/river, the proposed route of diversion/modification of drainage and their realignment, construction of embankment etc.

should also be shown (in dotted lines) on the map.

30. Similarly if the project involves diversion of any road/railway line passing through the ML/ project area, the proposed route of diversion (in dotted lines) and its realignment should be shown.

31. A **separate map of the core zone** indicating the proposed locations of quarry area, ext. OB dumps, and other mining operations should be shown on the map. For projects where the Mining Plan is under finalisation, the progressive mine development and final mine closure plan should also be shown as figures.

32. A schematic diagram of the route of coal transportation form mine face to end user along with km distance should be shown.

33. TOR application/presentation should indicate details of secondary data available on the study area. In addition, method of collection of the baseline data, along with met. data of nearest station of IMD along with wind roses along with proposed locations of monitoring stations shown on the study area map (Core zone and buffer zone), etc should be furnished. Similarly details of proposed locations of stations for water quality monitoring and noise levels should also be provided.

34. All presentation slides and maps should be clear and legible with proper indexing and colour

as per standard colour codes. The slides on the presentation material should be numbered.

35. Hard copies of Presentation made on TOR during the meeting should be page numbered and **photocopied back-to-back** (except for maps which should be preferably in A3 size).

36. Hard copy of the presentation should contain the following information on its cover:

- a. Name of the Project & Location (village, Tehsil, Name of the Coalfield, District, State)
- b. Name of the Company
- c. Production capacity (in Million tonnes per annum) (MTPA) (in ROM)
- d. Lease/project area (in ha)
- e. If it is a case of expansion, then from ... MTPA to MTPA or from ha to ha or both (if it involves expansion in lease area and production capacity)
- f. Date of presentation (each time it comes up for consideration should be indicated along with the date in addition to the above).
- g. Presentation before the EAC can also be made only by consultants who are registered with QCI vide MOEF Circulars. The name of the Consultant and address should also figure on the Cover of the presentation/slide 1 of the presentation.

MEMBERS OF THE EXPERT APPRAISAL COMMITTEE (THERMAL & COAL MINING)

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**MINUTES OF 37thEAC (THERMAL & COAL MINING PROJECTS) MEETING
HELD ON 11th-12th June, 2015**

The 37th EAC (Thermal & Coal mining projects) Meeting was held on 11th-12th June, 2015 in New Delhi to consider the proposals in coal mining sector. The list of participants of EAC and the proponents are given at Annexure-1 and 2 respectively.

B. Confirmation of Minutes: The Committee confirmed the minutes of the 35th EAC meeting held on 14th -15th May, 2015.

C. The following proposals were considered.

37.1 Kusmunda Opencast Expansion Project (Normative 15 MTPA to 50MTPA & Peak 18.75 MTPA to 62.50 MTPA in an ML area 3510.348 Ha); Latitude 22^o 15' 18" to 22^o 21' 30" North and Longitude 82^o 38' 39" to 82^o 42' 08" East of M/s South Eastern Coalfields Ltd., located at dist. Korba, Chhattisgarh - (EC based on TOR granted on 01.12.2014).

37.1.1 The proposal is for Environmental Clearance of Kusmunda Opencast Expansion Project (Normative 15 MTPA to 50MTPA & Peak 18.75 MTPA to 62.50 MTPA) in an ML area 3510.348 Ha of M/s South Eastern Coalfields Ltd., located at dist. Korba, Chhattisgarh - The project proponent made the presentation and informed that:

- i. The project was accorded TOR vide letter no. **No. J-11015/176/2014-IA.II (M) Dated 01.12.2014.**
- ii. The sub-committee made site visit to three mines (Kusmunda, Gevra and Depika), a pithead coal washery of Gevra and the surrounding areas on 9th- 10th October 2014 before according the TOR.
- iii. The latitude and longitude of the project are 22^o 15' 18" to 22^o 21' 30" North and 82^o 38' 39" to 82^o 42' 08" East respectively.
- iv. In view of present of forest land, the proposal for EC is being requested in two phases:
 - Phase I: Proposal without Forest Land (1655.825 ha.)
 - Phase II: Proposal with Fresh Forest Land (3510.348 ha) including Phase I.
 - The Land applied under Phase I (1655.825 ha) lies within the area of existing environmental clearance (18.75 MTPA)
- v. Joint Venture: There is no Joint venture
- vi. Coal Linkage :Various thermal power plants including Chhattisgarh State Electricity Board (CSEB)
- vii. Employment generated / to be generated: 2017 persons / 4130 Persons
- viii. Benefits of the project: Enhancement in production will considerably improve the socio-economic status of the adjoining areas. This will result in following benefits
 - Improvements in Physical Infrastructure
 - Improvements in Social Infrastructure
 - Increase in Employment Potential
 - Contribution to the Exchequer
 - Meet energy requirement
 - Post-mining Enhancement of Green Cover
- ix. LAND DETAILS (0-50 MTY)

coal mines of SECL. The proposed site is located only at about 2.5 km from the Dipka mine and thus, it requires very short distance for transportation of coal. Thus, this will avoid long distance transportation of raw coal, thereby reducing additional dust generation due to transportation of rejects. The proposed coal washery will be operated on wet process. Hence, there will be very less dust generation during coal washing. Also, suitable dust control measures like bag filters, covered conveyors, regular water sprinkling on coal stack-yard, blacktopping of internal roads, periodic maintenance of transport road, covered transport of raw and washed coal, thick plantation around plant boundary, etc. will be adopted to minimise dust emissions from the coal washery project. Hence, no major impact will be occurred on the nearby village habitations. The proposed site is located only at about 2.5 km from the Dipka mine and 0.5 km away from coal transportation road connecting Dipka, Gevra mines to NH-111 connecting Korba to Bilaspur & Raipur. Thus, most of the coal transportation is carried out through this road. The user industries, which are presently transporting raw coal from mines to their industries, will use the proposed coal washery facilities, for washing their raw coal and will further transport only washed coal, thereby avoiding reject transportation. This will help in reducing traffic load on the transportation route and also in dust generation (due to reduction in traffic).

- v. **Coal policy vis-à-vis the land use of Chhattisgarh Industrial area:** Chhattisgarh State Industrial Development Corporation has not notified any industrial area in the vicinity of the proposed project site and there is no defined coal policy of the CSIDC for the applied area. The land for proposed coal washery site has been acquired by CSIDC and allotted to M/s C. G. Coal & Power Ltd. CSIDC has allotted land to M/s C. G. Coal & Power Ltd. for the purpose of Coal beneficiation, coal dust, power plant, etc. over 10.25 acre area (Government land) on 99 year lease in the year on 15th February 2008 valid upto 23.09.2106 and land over 10 Acre area (Private land) on 99 year lease on 2nd June 2014 valid upto 1.06.2113 in village Batari, Tehsil Katghora, District Korba, Chhattisgarh

37.7.3 The Committee after detailed deliberation found that the site is environmentally unsuitable for the proposed coal washery on the following grounds:

- i. The site which has been selected is not located in Notified Industrial Area.
- ii. The current land use is an agriculture land.
- iii. The site is in proximity to a number of villages who would be affected by the pollution from the coal washery.
- iv. Mine water is not available for washing of coal at the present site. In the present case ground water is proposed to be used which would be in conflict with the nearby villagers.
- v. Transportation is proposed by road.
- vi. There are several issues raised by the South Eastern Koyala Mazdoor Congress (INTUC) dated 13.12.2014 which needs to be addressed.
- vii. The PP has also not provided information w.r.t. other coal Washeries in the surrounding area.

In light of the above the Committee did not agree for grant of TOR for the present site and recommended that alternate site may be explored.

- 37.8 Expansion of Mangrol Valia Opencast Lignite Mine Project (from 4.2 MTPA to 7.4 MTPA and expansion in ML area from 2080 ha to 3019 ha; Latitude 21° 26'03'' N - 21° 31'10'' N and Longitude 73°06'58'' E - 73°13'44 '' E) of M/s Gujarat Industries Power Company Ltd., located in Tehsil Mangrol and Valia in districts Surat and Bharuch, Gujarat- (EC based on TOR granted on 11.01.2012 /TOR Extn 21.05.2014).**

The proponent vide letter no. GIPCL/SLPP/Mines/FC/4546 dated 06.06.2015 requested Ministry to postpone the presentation.

37.9 Amod Lignite Mine Project (G-19 Extn.) (1 MTPA) of M/s Gujarat Mineral Development Corporation Limited (GMDC), located in Village Amod, Tehsil Jhagadia, District Bharuch, Gujarat – Amendment in EC conditions.

The proposal was earlier considered in 33rd EAC meeting held on 9th -10th April, 2015 wherein the Committee had sought additional information. PP informed that the same will be submitted shortly.

37.10 Coal washing plant of (3.5 MTPA in an area of 7.55 Ha; Latitude 19°46'6.44" N and Longitude 79°19'52.65" E) by M/s N.N. Global Mercantile Pvt. Limited, Dist. Chandrapur, Maharashtra–TOR- further consideration.

The proponent vide letter no. Nil dated 10.06.2015 requested Ministry to postpone the presentation.

37.11 Coal Washery of 10 MTPA capacity in an area of 39.35 Ha by M/s Mahanadi Coalfields Limited located at 21° 42' 12" N to 21° 47' 20" (N) and 83° 48' 00" E to 83° 52' 41" (E) Ib Valley in Lakhanpur area village Chharla, in district Jharsuguda Odisha-TOR.

37.11.1 The proposal is regarding TOR for Coal Washery of 10 MTPA capacity in an area of 39.35 Ha by M/s Mahanadi Coalfields Limited located at 21° 42' 12" N to 21° 47' 20" (N) and 83° 48' 00" E to 83° 52' 41" (E) Ib Valley in Lakhanpur area village Chharla, in district Jharsuguda Odisha. The project proponent made the presentation and informed that:

- i. This is green field project. The latitude and longitude of the project are 21° 42' 12" N to 21° 47' 20" (N) and 83° 48' 00" E to 83° 52' 41" (E) respectively.
- ii. IB Valley Washery is located in the present land area of Belpahar OC in Lakanpur Area of Ib valley Coalfield in Jharsuguda District, Odisha
- iii. Joint Venture: There is no joint venture.
- iv. Coal Linkage: Linked to Proposed Lakhanpur-Belpahar-Lilari Integrated OCP (30 MTY), however presently Lakhanpur OCP(18.75 MTY), Belpahar OC Expn.(9.00MTY) and Lilari OCP(0.8 MTY) is in operation where from coal will be supplied till linked OCP starts operation.
- v. Employment generated / to be generated: Washery will be constructed on BOM concept and employment will be generated by BOM operator.
- vi. Benefits of the project: It will lead to improvement in performance of power plant, reduction in particulate emission, Reduction in load on railway network and cost of handling and transportation.
- vii. The total land area required for the washery is 39.35 Ha. The entire land is already acquired by MCL and is in possession of MCL. Out of this (Site-A) measuring 13.95 Ha. is non-coal bearing virgin area, Site-C & Site-E measuring 6.67+15.95= 22.62 Ha. is coal bearing area within mining lease area of existing Belpahar OC Expn. in which the extraction of coal is in progress which will subsequently be back filled after complete extraction of full coal seam prior to start of construction of proposed washery. There is no building on proposed site. Small Bushes exist on a small portion of washery construction site. Bushes will be cleared and leveling and dressing of land will be done as per requirement. Belpahar OCP is already operating and the proposed land for washery is within the acquired mining lease area of Belpahar OCP for which environmental clearance has been granted.

ENCLOSURES : 2

Annexure – B (English)

As per Notification No. S.O.1533 dated September 14, 2006 and subsequent amended notifications of Ministry of Environment and Forests, Government of India, New Delhi, Public Hearing is fixed on 05.04.2013 at 11.00 hrs, at Farm House, Gram: Rajgarh, Taluka Valia, District Bharuch for the following project covered under “Category A” of M/s. Gujarat Industries Power Company Limited for Mangrol-Valia Lignite Mine for production of 7.4 MTPA of lignite from Surat & Bharuch District, Village Nani Naroli, Taluka Mangrol, District Surat.

All the present people were welcomed and proceeding of public consultation was commenced under the chairmanship of Shri R. S. Ninama, Additional Resident Collector, Bharuch.

Shri J. D. Kalyani, Regional Officer (RO), Ankleshwar, GPCB and Member Secretary, Gujarat Pollution Control Board welcomed all people present in Public Hearing. He told in brief about the conditions and various notifications in EIA related to Public Hearing. He told about the work done from GPCB end and notice published for Public Hearing in local news paper. Moreover, he informed that as per notification, only those who are local and affected can raise their queries verbally, and other persons can submit their queries in writing, which will be noted in the Minutes of Meeting.

He also told that video recording of the complete proceeding is done, which will be sent to Ministry of Environment & Forest, New- Delhi. Then, after, taking permission from Additional Resident Collector for starting the proceeding, he asked Project Proponent to present their proposal and impact on environment via presentation.

In the beginning, Shri. H.T. Shukla Manager (Geology) welcomed all the people present in the Public Hearing and briefly told about the project. Later on, he presented the technical aspect and environment impact and its assessment in detail. Further, Shri Narendra Parmar, DGM (CSR) presented the CSR activity done in surrounding area.

After the presentation form project proponent, RO, GPCB, with the permission of Additional Resident Collector, Bharuch opened the forum for verbal queries / problems / issues form the local / affected people present in Public Hearing.

The questions / objections – suggestions / opinions of the people present in the public hearing and the replies given by representatives of Project Proponent are as below:

Sr. No.	Name and address	Points represented	Replies from Company representatives
1	Sh. Shyam Singh Soma Bhai Vasava At /PO: Rajgarh Village Tal.: Valia Distt. Bharuch	<ol style="list-style-type: none">1. Animals/ Birds/ Trees/ leaves/Ant /Human beings all are part of the Environment. Who are benefitted or looser from the presently given 30.00 Km range mentioned in EIA report?2. After land acquisition and award declaration in Mangrol, in place of 11.00 Lakh, 13.00 Lakh rupees are given per hector of land. In Harsani and Shah in place of 13.00 Lakh, 15.00 Lakh rupees were given. In Valia we are paid Rs. 5.75 per hectare. What about our remaining amount? Please note.	<p>Sh. K. Taunk, Chief Manager (Mines) responded that Project area has Buffer zone of 10.00 Km and not of 30.00 Km. Due care will be taken for minimizing the effect on Environment.</p> <p>There was no reply or comments from the company with regard to matter of compension of land acquisition.</p>

		<p>3. Scarcity of the water is the major question in the Environment. What has company arranged for the animals and humans?</p> <p>4. The development work of the DEEP trust is proper. We want that an English school should be started in the Bhaga Village.</p> <p>5. Five years have already passed after land acquisition. What are company's policies for the land looser and for the workers, as till date they have not got any employment?</p> <p>6. He informed that we do not wish that mines operation should be closed otherwise it will create impact on the livelihood of many people. Hence project should be continued.</p> <p>7. Only we from the Rajgarh and Kosmadi had approached the Supreme Court (For more payment against land acquisition) instead</p>	<p>Sh. K. Taunk, Chief Manager (Mines) responded that parameters for air and water in Environment as shown in the presentation are for your reference. Due care will be taken for reducing the negative effect on Environment.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) responded that English school will be opened in the Rajgarh Village for which architecture plan and estimates are ready and approval, from government is awaited. After the approval construction of the school will be started.</p> <p>Sh. V. B. Bhadola Additional General Manager (HR & A) responded that framing of the policy for the employment of affected and land looser is under process. Accordingly affected and land looser will be given employment.</p> <p>In this regard Sh. Narendra Parmar, Deputy General Manager (CSR), further mentioned that alternative employment schemes i.e. transportation from Valia to Power Plant, Animal husbandry, Passenger vehicle, and allotment of fly ash quota for selling or making bricks for making more profit. Free education for two children's of land losers per block of the acquired land is available in our English medium school.</p> <p>There was no response from the company with regard to this suggestion.</p> <p>There was no reply from the company in this regard.</p>
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		people from all four villages should have gone, so that 250 peoples would have been benefited.	
2	Sh. DaulatSinh Vansiya At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch	<p>Written representation was given as C-1, C-2 and C-3 and below said are the oral representations:</p> <ol style="list-style-type: none"> 1. Before starting of any mines, permission & Environment Clearance is necessary. Where and on which date the Public Hearing for 4.2 MTPA mine was held? 2. As per notification, public hearing of the mines should not be held at the mine itself? 3. The public hearing of Valia was held at Surat, so how many persons form Valia and from which villages were present their? 4. Is permission of mines taken under PESA Act? 5. Tribal People are not aware about the Gram Shaba, meeting hence the work of the mines should be stopped. 	<p>Written replies as Annexure D-1, D-2 and D-3 are annexed.</p> <p>Sh. H. T. Shukla, Manager (Geology) responded that previous public hearing for 4.2 MTPA was held at Circuit House, Surat on dated 30/07/1999 vide EIA notification 1997.</p> <p>Sh. J. D. Kalyani, Regional Officer, Gujarat Pollution Control Board (Ankleshwar) replied that public hearing was conducted in accordance with the provisions of Notification No.318E and 319E dated 10/04/1997 of Ministry of Environment and Forests, Government of India, New Delhi.</p> <p>Sh. J. D. Kalyani, Regional Officer, Gujarat Pollution Control Board (Ankleshwar) mentioned that the said public hearing was conducted at Surat so its records would be available with Surat Regional Office.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that during the land acquisition, gram Sabha meeting was held under PESA Act. According to which land has been acquired.</p> <p>Additional Resident Collector, Bharuch informed that judgment regarding old land acquisition and the land compensation was given by the court which is binding to them. In spite of that company forwarded us the matter for the inquiry. An officer of the Additional Collectorate rank from our office will do investigation / inquiry in this matter.</p>
3	Sh. DilipSinh Atordariya At /PO: Sodgam Village	Written representation was given as C-4, C-5 and C-6 and below said are the oral	Written replies as Annexure D-4, D-5 and D-6 are annexed.

	Tal.: Valia Distt. Bharuch	<p>representations:</p> <ol style="list-style-type: none"> 1. Enquiry on the above stated old land acquisition was given on 01/10/2012, but till date after the completion of six months, the report has not been submitted. 2. The matter at Supreme Court was for compensation; whereas here it is an issue of irregularity in inquiry. 3. When the consent award was declared, then signature of the person should be on Annexure No. 15, and then only consent award can be declared. In one case, person was declared dead but he is still alive, his name is Shri Gambir SamaBhai Vasava of village Dansoli and present here. Consent award was declared on the basis of 80% wrong signatures. The said consent award should be cancelled as per the Act 11(2) and as per the Act (1), the regular awards should be declared. 	<p>Additional Resident Collector, Bharuch informed that investigation is under process. Before taking final decision on the said matter, a meeting will be arranged to provide you an opportunity of hearing. After completing the investigation, we will submit the report.</p> <p>Additional Resident Collector, Bharuch told there will not be any compromise in the investigation and it will be neutral.</p> <p>Additional Resident Collector, Bharuch told that this is Public Hearing for Environment Clearance, but still we heard your other issues, and we are already conducting inquiry on it.</p>
4	Sh. DaulatSinh Vansiya At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch	<ol style="list-style-type: none"> 1. Total land of 3019.00 hectare will be acquired for increasing production from 4.2 MTPA to 7.4 MTPA in Mines out of which how many hectares of land from different villages of Valia area will be acquired? 2. How many persons will be affected from this land acquisition? 3. How many persons will be rehabilitated? Is part of the Kosmadi 	<p>Sh. H. T. Shukla, Manager (Geology) responded that total acquisition of the land for expansion is 365.00 Ha in Luna, Rajgarh and Bharadiya of Valia Taluka as shown in the presentation.</p> <p>Sh. V. B. Bhadola Additional General Manager (HR & A) responded that process for the collection of 7/12 for the land acquisition is going on, from which the information regarding affected peoples can be found out as per government rule.</p> <p>Additional Resident Collector, Bharuch informed that rehabilitation</p>

		<p>faliu going to be rehabilitated? Our farm labors will not be rehabilitated?</p> <p>4. With reference to the same Sh. Dilipsinh Atodariya informed that in draft EIA report, there is no information on such package related to the rehabilitation, so they lodge protest against the draft EIA Report.</p> <p>5. Will the rehabilitation will be done according to Narmada Yojna?</p> <p>6. With reference to the same Sh. Dilipsinh Atodariya told that as per the Right to Information Act, we had demanded minutes of the meeting dated 04/11/2007 from Special Land Acquisition Officer, Bharuch and same was transferred by him to GIPCL, as the matter was pertaining to GIPCL. Even after 2 months, we have not been given the information.</p>	<p>shall be done as per norms of government.</p> <p>Sh. H. T. Shukla, Manager (Geology) responded that rehabilitation will be done as per the National R & R Policy. Information is already given in the draft EIA report.</p> <p>Additional Resident Collector, Bharuch informed that this company is controlled by Government; hence the action for rehabilitation will be done as per Government Policy.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that this company is controlled by the Government. It does not come under the purview of RTI Act.</p> <p>After further course of discussion Additional Resident Collector, Bharuch suggested that GIPCL should replay to applicant with regard to non applicability of RTI Act to their company. He further added that since this matter is related with land acquisition, the applicant should contact collector office.</p>
5	<p>Sh. Dilip Singh Atodariya, Village: Sodgam, Taluka: Valia, District: Bharuch</p>	<p>1. What is company's planning for the Higher Education (to children of surrounding area)?</p> <p>2. Sh. Dilip Singh Atodariya, Sodgam asked about the company's planning for skill development?</p>	<p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that we will put up your request to our management for consideration.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that our proposal for skill development course is pending at Labor and Employment Ministry. We are proposing to spend Rs. 35.00 lakh for the construction of building for this. As per the need basis, we will start new trade and as per the requirement we will appoint new tutors also. We have already started tailoring course in the Luna village.</p>

		<p>3. With reference to the same Sh. Harshad Pandya, Bhilwada informed that till date, as per the previous public hearing, our children are not given any training. Bus facilities are not available for children going to school at Nani Naroli.</p> <p>4. We are not interested in the closing mining work; because if the mines will operate, then only we will get our daily wages otherwise there will be a question of employment.</p> <p>5. Like Mangrol there should be dispensary from Company in Valia also.</p>	<p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that presently we do not have bus facilities right now. We will put up your request to our management for further deliberation. Further, Additional Resident Collector, Bharuch informed that your CSR related requests will be recommended to Managing Director of the company through Collectorate.</p> <p>There was no response from the company in this regard.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that we have noted this request and will put up this request to our management for consideration. Our company is going to start the mobile medical unit in due course.</p>
6	Sh. Harshad Pandya At /PO: Bhilwada Village Tal.: Valia Distt. Bharuch	1. If there is more than one owner in particular block of acquired land then all of them should be considered for benefit from the company.	There was no reply or comment by the company in the said matter of benifites for the land lossers.
7	Sh. DaulatSinh K Vansiya At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch	<p>1. What is proposed by the Company for employment?</p> <p>2. There is no any Mining College in the Gujarat.</p> <p>3. In continuation to the same Sh. Harshad Pandya, Bhilwada asked whether there is any recruitment other</p>	<p>Sh. V. B. Bhadola Additional General Manager (HR & A) responded that if your children are Mining Engineers or Diploma in Mining Engineer then we are in a position to give them immediate jobs and if they are Mechanical or Electrical Engineer than we will give priority to the land losers as per their experience and qualifications. Hence you are advised to go for Mining Engineering course.</p> <p>Sh. V. B. Bhadola Additional General Manager (HR & A) informed that mining engineering colleges are in Gandhinagar and Bhuj.</p> <p>Sh. V. B. Bhadola Additional General Manager (HR & A) informed that presently we require</p>

		than Mining Engineer ?	Mining engineer.
8	Smt. Smitaben Mangrola At /PO: Luna Village Tal.: Valia Distt. Bharuch	1. Injustice is done to the farmers due to the project. Company acquired the land. As per company there is no pollution, but there is effect on the animals and birds Also there is major issue for water.	Sh. H. T. Shukla, Manager (Geology) informed that since the opening of the mine, pollution due to the air, water and noise is within the range prescribed by GPCB for which we take due care. We are not discharging polluted water from our mines. The seepage water from mines is discharged after passing through the settling pond. Continuous water sprinkling is done for the suppression of dust in the mining field.
9	Sh. DaulatSinh K Vansiya At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch	1. The inquiries of the irregularities in the previous land acquisition should be concluded as early as possible. Due to this expansion, what about the 5000 labors in this area? I sold my land then how I can buy trolley/Jeep? Presently animals are grazing in this land. Now, we have 100 hectares of remaining land in the Dhansoli village, and animals are coming in this land for grazing. What about their protection? What about water for the animals? And what about farmers? 2. Essar Company's application for the Environment Clearance was rejected in the Singrauli (Uttar Pradesh). Here also this application should be rejected.	Sh. H. T. Shukla, Manager (Geology) informed that land acquisition will be done as per the Mining lease application and approved Mining Plan and will be utilized for Mining only. There was no reply or comment from the company in this regard.
10	Sh. MahendraSinh Ratan Sinh Karmariya At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch	Written representation was given as C-7 C-8 and below said are the oral representations 1. This Company should not be given Environmental Clearance. My Village is 6.00 km away from this project. The underground water of our village will get diverted to deep mines of the company. The water requirement is much higher for the power generation by using the Coal as fuel from where you are arranging required water? 2. What arrangements do you have for the use of water?	Written replies as Annexure D-7 and D-8 are annexed. Sh. H. T. Shukla, Manager (Geology) informed that as per the present EIA report, we require 770 CuM of water per day from mines area, which is obtained from accumulated rainy water in our mines area. Water requirement for power generation will be fulfilled with government permission, from Tapi river which is far away from this place. Sh. H. T. Shukla, Manager (Geology) informed that presently

		<p>3. Due to above said mines, underground water will be depleted.</p> <p>4. We are grateful to the company for CSR activities through the DEEP Trust. Our land falls under area which requires irrigation under on permanent bases. Whether DEEP Trust is proposing any irrigation scheme / project for bringing water in this area?</p> <p>5. This project should not be granted Clarence.</p> <p>6. In this reference, Sh. Dilipsinh Atodariya informed that, in which 5 to 10% should be people's contribution, further in place of infrastructure works, Deep Trust should do work for development of human resource.</p>	<p>we are using rainy water in Mangrol Mine and seepage water in the Valia Mine.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that Scientifically ground water is available beneath basalt layer and company is doing mining above basalt hence there is no question of disturbing any ground water. In addition to this, two years before mining activities, monitoring data of Ground water level and quality is being carried out quarterly and being sent to CGWB on regular basis. Based on this it can be said that increase and decrease of water level is due to seasonal variation and not due to mining activities. Reports of the same are being sent to Central Ground Water Board (CGWB) on regular basis.</p> <p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that since the irrigation Scheme / Project are very capital intensive, Company or DEEP trust alone can't take up the responsibility. But if approved by the government then we may share some contribution.</p> <p>Public contribution for the drinking water in the government is to be paid, we are ready to pay 10-20% public contribution toward capital cost.</p> <p>There was no reply or comment from the company in this regard.</p> <p>Additional Resident Collector, Bharuch informed that in the Bharuch District, District level platform is created for each company and stake holder. Under this platform, there are regular independent meeting of land losers and prominent villagers with companies viz GSFC, GNFC, etc.</p>
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			and works are under taken as per local requirement, similarly here also a meeting can be arranged between the company and your five representatives and Managing Director of the company may be recommended to undertake proposals as per the observations in the meeting.
11	Sh. Hemant Sinh Sutriya At /PO: Sodgam Village Tal.: Valia Distt. Bharuch	Written representation was given as Annexure C-9 and C-10 and below said are the oral representations: 1. Up to how much depth this mine will operate? 2. During the boring, at some place we got water at 40.00 feet and at some place at 150.00 feet. Due to seepage of water in mines, there will be depletion in the ground water.	Written replies as Annexure D-9 and D-10 are annexed. Sh. H. T. Shukla, Manager (Geology) informed that above said mine will go up to 120.00 to 150.00 meter depth. Sh. H. T. Shukla, Manager (Geology) informed that Scientifically ground water is available beneath basalt layer and company is doing mining above basalt hence there is no question of disturbing any ground water. In addition to this, two years before mining activities, monitoring data of Ground water level and quality is being carried out quarterly and being sent to CGWB on regular basis. Based on this it can be said that increase and decrease of water level is due to seasonal variation and not due to mining activities. Reports of the same are being sent to Central Ground Water Board (CGWB) on regular basis.
12	Sh. HitendraSinh Vansadiya At /PO: Sodgam Village Tal.: Valia Distt. Bharuch	Written representation was given as C-11 and C-12 below said are the oral representations: 1. Sh Hitendrasinh Vansadiya mentioned that year wise rainfall data in table format given in chapter no. 2 of EIA report for 7.4 MTPA are pertaining Mangrol Taluka. You have not considered the yearly rainfall data of the Valia Taluka only. You have not conducted survey for the underground and irrigation water for	Written replies as Annexure D-11 and D-12 are annexed. Sh. H. T. Shukla, Manager (Geology) informed that water at the upper level will be due to the unconfined water sources. Hence increase and decrease of water level is due to seasonal variation and not due to mining activities.

		<p>the Valia area. Presently the water table in the borewell of Jayendrasinh Pratapsinh Rana at block no 215/2 has gon down as it got diverted in mines. So this EIA report should not be accepted.</p> <p>2. Is Deep trust/Company is doing some work for the Water harvesting?</p> <p>3. The generation cost from Coal based power plant is costly, whereas the generation cost from Atomic Power Plant is very cheap.</p> <p>4. The underground water of our village will be depleted because of the greater depth of the mines by the company. Hence this project should not be granted any clearance.</p>	<p>Sh. Narendra Parmar Deputy General Manager (CSR) informed that DEEP Trust has carried out the deepening of ponds in the Bhaga village as a Water harvesting scheme.</p> <p>There was no reply or comment from the company in this regard.</p> <p>It was not replied seperately by the company but this question was replied earlier in Sr. No.1 of same person that water at the upper level will be due to the unconfined water sources. Hence increase and decrease of water level is due to seasonal variation and not due to mining activities.</p>
13	<p>Sh. KiranSinh FatehSinh Sutariya At /PO: Sodgam Village Tal.: Valia Distt. Bharuch</p>	<p>Written representation was given as C-13 and below said are the oral representations:</p> <p>1. EIA report is prepared by M/s Geomin Pvt Limited, Bhubaneswar-Odisha, India for the expansion of 7.4 MTPA. In the EIA report, table no 4.3 for Ambient Air Quality Monitoring, in which from A-1 to A-16 are shown concentration in Microgram per cubic meter PM_{2.5}/PM₁₀/SO₂/ NO_x/CO are shown, which are different in the published executive summary report. Why this irregularity is there?</p> <p>2. Pollution will increase due to lignite production. Lignite will be excavated from 150-200 feet depth. In which COD/ BOD/ HM/ Ammonia Nitrogen/ Chloride/ Fluoride quantity are shown. Where you will discharge water? Will it not result into pollution? Whether electricity generation cannot be done from any other source?</p>	<p>A written reply as Annexure D-13 is annexed.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that there is no irregularities in the Draft EIA Report and the Executive summary in English. During the translation in Gujarati language, there is a typographical error. As per the suggestion, the corrected report will be submitted to MoEF, New Delhi.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that this matter is already clarified during the presentation. The seepage and rainy water from mines will be discharged after passing through the settling pond, due to which water will be free from dust. Hence the question of water pollution does not arise. Water accumulated due to monsoon and seepage will be used for sprinkling for the suppression of dust.</p>

		3. Presently how many settling ponds are there? As the misleading information's are provided hence this report should be cancelled and this Environmental clearance should be cancelled.	Company has not replied.
14	Sh. GahnshyamSinh Gohil At /PO: Sodgam Village Tal.: Valia Distt. Bharuch	<p>Written representation was given as C-14, C-15, C-16 and below said are the oral representations:</p> <ol style="list-style-type: none"> 1. Presently what is the system for discharging water through settling ponds? Water is being discharged into Tokri River. 2. As per the report, Lignite Handling Plant will be put up. Where will these plants are erected in Valia mines? 3. Whether you are providing the compound wall around the Lignite Handling Plant? What are their specifications? Whether this compound wall will be made before or after the operation of the plant? 4. As per the condition of present environmental clearance, where you have made environmental laboratory? 5. In the EIA report, it is mentioned that new laboratories are made at different places, which are not put up till date. 6. As the misleading information's are 	<p>A written reply as Annexure D-14, D-15 and D-16 are annexed.</p> <p>Sh. K. Taunk, Chief Manager (Mines) informed that presently water at Valia mines is not accumulated due to monsoon, but water is accumulated only due to seepage, which is utilized for the dust suppression.</p> <p>Sh. K. Taunk, Chief Manager (Mines) informed that Lignite Handling Plant in Valia Mines will be erected on South side of the Valia Pit which is far away from habitation.</p> <p>Sh. K. Taunk, Chief Manager (Mines) informed that green belt will be developed all around the Lignite Handling Plant, protection wall will also be constructed on the sides of the ramp. Designing part of the lignite handling system is going on, in which we already considered ramp with protection wall and green belt.</p> <p>Sh. K. H. Mistry, Chief Manager (Civil) informed that we have developed central laboratory in our Power Plant, which will be used by our all the mines. Presently this laboratory is utilized by Vastan and Mangrol Mines. After the commencement of Valia Lignite Mine, necessary equipments and lab technicians will be increased for the utilization of all the mines.</p> <p>It was not replied seperately by the</p>

		<p>provided in the EIA Report hence this report should be cancelled and the Environmental clearance issued to company should also be cancelled.</p> <p>7. How much fund you have allocated for Mine Closure Plan? How much percentage is this?</p> <p>8. From which place you are collecting the Air monitoring samples in the core and buffer zone of the Vastan Mines? Work has been started in Valia Mines since January'2013. You have to take the samples, then why these samples are not taken out?</p> <p>9. Please tell us the policy for the local employment? Till date how many land losers got employment in your company?</p>	<p>company but this question was replied earlier for the Question No. 1 of Shri. Kiran Sinh Sutariya (Sr. No. 13) .</p> <p>Sh. N. K. Purohit, General Manager (Mines) informed that Mine Closure will be as per the notification "Guidelines for Preparation of Mine Closure Plan" issued by the Ministry of Coal (MoC), Govt. of India (GoI), on 27/08/2009. Further, amendments in the said Guidelines issued by the MoC vide its letter dated 07/01/2013. It has been estimated that mine closure cost for an opencast mine will come around Rs. 6.00 Lakh per Hectares of the lease hold area. Annual closure cost is to be computed considering total lease hold area at the above mentioned rates and dividing the same by the life of the mine. Rs. 5 to 7 crore is to be deposited each year throughout the mine life. We have made Tri-Partite agreement with the Coal Controller. We have also opened Escrow account, in which we will deposit mine closure cost very shortly. 80% of the amount will be released at the end of 5 years for mine closure expenditure.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that sample stations are shown in the report. Sample stations are changed in the core and buffer zone as per the direction of air. The collections of samples are done quarterly by the NABAL approved laboratory. The work was commenced since January in the Valia Mines. We are going to start collection of the samples very shortly.</p> <p>Sh. V. B. Bhadola Additional General Manager (HR & A) informed that framing of policy for the employment of local people is in process, in which we will give first</p>
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15	<p>Sh. Rakesh KeshriSinh At /PO: Dhansoli Village Tal.: Valia Distt. Bharuch</p>	<p>Written representation was given as C-17 and below said are the oral representations:</p> <ol style="list-style-type: none"> 1. How much distance should be there in between mines and village? 2. Falia of Kosmadi village falls within the 50.00 meter range from Mines. What your comments on this regard? 3. Is company having any powers for Rehabilitation under any Law? 4. Environmental Surveillance should be carried out in presence of villagers 	<p>A written reply as Annexure D- 17 is annexed.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that minimum 50 meters distance in between village and mines should be kept.</p> <p>Sh. H. T. Shukla, Manager (Geology) informed that presently mine is far away from Falia of Kosmadi. Before reaching to this faliu, rehabilitation will be done as per the National R & R Policy.</p> <p>Rehabilitation will be done as per the National R & R Policy.</p> <p>Shri H T Shukla, Manager (Geology) informed that quarterly / annual sampling of environmental parameter are carried out independently by NABL accredited third party as per norms.</p> <p>Environmental Monitoring Report also includes Satellite Imagery of this area, which cannot be altered.</p>
16	<p>Shri Kishor Singh Ganpat singh Atodaria , Deputy Sarpanch , Village Sodgam , Taluka Valia</p>	<p>Written representation was given as C-18 and below said are the oral representations:</p> <ol style="list-style-type: none"> 1. Our Land has been acquired. Deep trust has carried out school 	<p>A written reply as Annexure D- 18 is annexed.</p> <p>Shri Narendra Parmar, Deputy General Manager (CSR) informed</p>

	Dist Bharuch	<p>related work. No benefit has been given to tribal & non tribal population of our village. Electricity & Burial ground / crematorium for tribal population has not been provided. Construction work for Panchayat building has not been taken up.</p> <p>2. Cows have been given to the tribal for their appeasement. No arrangement for cattle fodder for these Cows has been done.</p>	<p>that, as per the company's policy, work is being taken up in those villages, wherein revenue land has been acquired. If the land looser of these villages are residing in Surat or Ankleshwar, work are not being taken up there. Despite this, education work has been taken up in Sodgam village with a special consideration.</p> <p>Shri Narendra Parmer, Deputy General Manager (CSR) informed that 29 Cows have been given in Dhansoli village, which are given to not only to tribal & but both tribal & non tribal population of the village. Further beneficiaries have opted for Cows as per their choice of benefit.</p> <p>Other benefits like cattle for milk production, fly ahs for fly ash brick manufacturing, truck for lignite transport, jeep for passenger transport in company, free education in company's school have been provided to Land Losers. These benefits are not only for the tribal but for tribal & non tribal land looser population of the village.</p> <p>Resident Additional Collector informed that all requirements will be included in the co ordination committee's agenda and fund will be arranged from the other Grant of Government. Regarding the Electricity , D.G.V.C. Ltd will be informed</p>
17	Shri Jayendra Singh Ganpatsingh Vasiya , At/Po: Sodgam , Taluka Valia Dist Bharuch	Human being, Creatures and Water are included in the Environment. GIPCL has acquired 3000 Ha land. The prices of land (paid) in Mangrol & Valia Taluka are different.	Resident Additional Collector informed that Land acquisition matters have already been discussed earlier.
18	Shri Kanak Singh Ishwar Singh Vasava , Village Dhansoli , Taluka Valia , Dist Bharuch	Written representation was given as C- 19 and below said are the oral representations: What is the width of Green belt for 4.2 MTPA mines? How many saplings have been planted in Valia Mines, where mining work is being carried out?	A written reply as Annexure D- 19 is annexed. Shri H T Shukla, Manager (Geology) informed that about 50 meter wide green belt comprising of 78450 trees in 76 Hector area have been



			developed (in Valia mine area). Some 8000 Saplings has been damaged in the green belt near mines area, which is being replanted.
19	Shri Harshad Pandya Village Bhilwada Taluka Mangrol Dist Surat	Due to Soil dumping in mine area, flow of monsoon water is blocked which may damage the nearby agricultural area.	Shri H T Shukla, Manager (Geology) informed that garland drain around soil dump will be prepared similar to one at Mangrol Mine and flow of monsoon water will not be blocked.
20	Shri Dilip Singh Atodaria , At/Po Sodgam Taluka Valia Dist Bharuch	According to the conditions no 5 & 13 under Para no. 4.2 of Environmental clearance for 4.2 MTPA Mangrol-Valia Mines, allotment of alternate 25 Hectare gauchar land has not made. This condition of E.C. is violated. Hence E.C should be cancelled and mines should be closed.	Shri N K Purohit, General Manager (Mines) informed that need for allotment of 25 Hectare land for Gauchar has not been arised, because no gauchar land has been transferred to company till date. Applications for transfer of Gauchar Land have been made to Collector office and whenever such transfer is made by collector, equivalent area of land will be provided by Company, as substitute Gauchar land to the villagers. No Gauchar land will be taken or utilized before giving substitute land to villagers. Hence no conditions of environmental clearance have not been violated.

Regional Officer, GPCB further informed that additionally eight written representation were received from Shri Dilipsinh Ishwarsinh Atodaria (two representation), Shri Nimeshbhai N. Valera & other affected, Shri Nileshbhai N. Valera and other land looser, from Shri Maheshbhai Pandya, Paryavaran Mitra - Ahmedabad based NGO, Shri Rajdenrasinh Mansinh Mangrola, Shri Amrutbhai Vechanbhai Vasava and another from Shri Pravinbhai Sheth, Ankleshwar based senior citizen prior to public hearing, which are enclosed as Annexure C20 to C27 along with the reply submitted by the project proponent as Annexure D20 & D27. Further twenty six representations were also received during public hearing from Shri (name not legible), Shri Manish K. Pandya (two representation), Shri Kishorsinh M. Rathod, Shri Pravinsinh Ishwarsinh Atodaria, Shri Jayendrasinh Pratapsinh Rana, Gram Panchayat Dansoli, Ladies of Luna Village, Shri Kajaratbhai Vasava, Shri Nikhil S. Bunker, anonymous, Shri Chandrasinh Laljibhai Vasava, Shri Bachubhai Gulabbhai Vasava (two representation), Shri Vikramsinh Bhikhusinh Kharachiya, Shri Ranjitbhai N. Vasava (two representation), Shri Prabhat Co-op. Agricultural Produce Processing & Marketing Society Limited – Valia, Shri Chandrasinh B. Mahida, The Sarvodaya Sewa Sahakari Mandali Limited – Sodgam, The Sodgam Group Vividh Karyakari Sahakari Mandali Limited – Sodgam, Sarpanch - Luna Gram Panchayat (two representation), Sarpanch - Gram Panchayat Sodgam and from Shri Ajitbhai Arvindbhai Vasava (two representation) which are enclosed as Annexure C28 to C53 along with the reply submitted by the project proponent as Annexure D28 & D53. Two representations indicating CSR activities carried out by the industry from Mrs. Manuben Daulatsinh Mahida of Jay Dashama Mahila Mandal – Dansoli and Mrs. Rupalben

Kamaljitsinh Mangrola have been received which are enclosed as Annexure C54 & C55 which is acknowledged by the project proponent as Annexure D54 & D55.

Resident Additional Collector Shri R S Ninama, declared the completion of the meeting because no further query or issue was raised in the meeting. He further suggested that public enterprises should maintain cohesive relation with the residents of surrounding area and should try to resolve their problems peacefully & positively.

Public hearing was concluded with vote of thanks.

<p>Place : Rajgarh Taluka : Valia Dist : Bharuch Date 05.04.2013</p>	<p> (J. D. Kalyani) Regional Officer GPCB , Ankleshwar & Representative of Member Secretary , GPCB , Gandhinagar</p>	<p> (R. S. Ninama) Resident Additional Collector Bharuch District</p>
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ANNEXURE – B (ENGLISH)

As per the Ministry Of Environment And Forest, Government of India, New Delhi vides its Notification No. S.O. 1533 Dated 14/09/2006, and subsequent amendment S.O.3067(E) dated 1st December 2009, public hearing was fixed on 02.04.2013 at 11:00 hrs at Mangrol-Valia Mine area of M/s. Gujarat Industries Power Company Limited, Near Harsani Primary School, Village Harsani, Ta: Mangrol, Dist.: Surat” for the project covered under Schedule 7(E) category “A” of **M/s. Gujarat Industries Power Company Limited-Mangrol Mines** ,Nani Naroli, Ta: Mangrol, Dist. Surat for Proposed **Expansion of Mangrol Valia Opencast Lignite Mine Project (4.2 MTPA to 7.4 MTPA and Expansion in ML area 3019 Ha.)**

Shri R.B.Barad, Res. Additional Collector, Surat supervised and presided over the entire public hearing process.

Shri A.G.Patel, Regional Officer, GPCB, Surat and representative of Member Secretary, GPCB welcomed all present to the public hearing. He outlined the project details and added that it was as per the advertisement published in the local daily news paper in “**Indian Express**” Dtd. 01.03.2013 and in Gujarati in “**Gujarat Samachar**” and “**Gujarat Mitra**” Dtd. 01.03.2013. He also mentioned that the documents related to the project were displayed at the various places mentioned in the advertisement. He announced that as per the provisions of the notification, only locally affected persons will be allowed to represent in the Public hearing, while others having plausible stake may give their representation in writing which would be included in the proceedings.

He then opened public hearing after due permission from the **Res. Additional Collector, Surat** and invited the project proponent to give their introduction and to make the presentation of their project.

He also mentioned that after the presentation is over, the forum would be open to the concern locally affecting people of the area.

M/s. Gujarat Industries Power Company Limited-Mangrol Mines representative Shri H.T.Shukla, Manager- Geology gave brief introduction of upcoming project and presented audio-visual presentation before the gathering covering the aspect regarding the technical, commercial, environmental management system, of the proposed project.

After the presentation by the project proponent, Regional officer, GPCB with the due permission of the **Res. Additional Collector** opened the forum for representations, suggestions from the locally affected people.

The statement showing issues raised by the participants and responded by the representative of the applicant during public hearing are as under.

Sr. No.	Name and address of the Representative	Details of Representation.	Reply by Project Proponent
1	Shri Daulatsinh K. Vansia, At. PO. Dansoli, Ta: Valia, Dist: Bharuch	<p>1. Present mining activity of Valia Mines should be closed. In Magrol-Valia Mines, Public Hearing for 4.2 MTPA was conducted in which date, when and which place? Please provide the details thereof.</p> <p>At the time of Public Hearing how many persons were present and they belong to which village? Whether Gram Panchayat was informed for the same?</p> <p>2. Public Hearing was not conducted for 4.2 MTPA, moreover Shri Daulat Sinh informed that Public Hearing was not conducted for 4.2 MTPA, and if it was been conducted, then it has not been conducted in nearby Taluka or nearby place. Affected people were not informed. Therefore, we request you that this mine should be closed immediately.</p> <p>The lease area for Mangrol-Valia Lignite Mine in 4.2 MTPA was shown as 2060 Hectare; whereas for production expansion of 4.2 MTPA, lease area is shown as 3019 Hectare, So please let us know the details of land falling under Valia & Mangrol Taluka.</p> <p>3. The land details are old; please provide the fresh details of land.</p> <p>4. How many families were affected by land acquisition process?</p>	<p>Company informed that Public Hearing for presently working Valia Mines was arranged by GPCB in 1999 at Circuit House, Surat, in which 80-90 people were present.</p> <p>Company informed that land acquisition has been done in which 2309.64 Hectares of land falls in Mangrol whereas 503 Hectares of land falls in Valia</p> <p>Company informed that for new mines, land falling in Surat district is 594 Hectares and 365 Hectare in Bharuch district. In Surat district, Mangrol, Harsani, Kargara, Nani-Pardi, Cheratha, Kanwada, Amendera villages are falling, whereas in District Bharuch, Taluka: Valia, Kosmadi, Luna, Dansoli and Rajgarh villages are falling.</p> <p>Company's representative informed that land acquisition process is not started; hence the details of land and land owners are not available.</p> <p>Company is doing mining activity in Vastan/Mangrol Mine, in which regular health checkup is done, and no evidence of such health related problems were seen till now.</p>

		<p>5. There were issues related to health near village Dungri where present power plant operated, in which lungs related problems were seen. What does company want to say about that?</p> <p>6. Present power plant is of 600MW, now will be expanding to 1200MW. We will not be getting electricity; moreover irrigation is also stopped now. Farmers will lose everything. In Uttar Pradesh Essar Company was closed due to the same reason.</p>	<p>Company informed regarding ground water that it lies in Basalt Zone and mining is restricted above the Basalt Zone; hence there is no question of contamination and drop down of the level of ground water. In addition, Company informed that they will use the world's best technology so that there will be no harm to environment. In new plant, water management is done at its best possible way.</p>
<p>➤ Res. Additional Collector informed villagers to ask question related to Environment, instead of land acquisition.</p> <p>➤ In addition Res. Additional Collector informed that Company will do health check up.</p>			
2	Shri Jaychand Vasava, At. PO. Nani-Pardi, Taluka: Mangrol, Dist: Surat	I find myself lucky to be a part of CSR activity done by GIPCL, in which education, women awareness, employment; health care are the trust areas.	
<p>➤ Res. Additional Collector informed that all this matter is covered in the presentation; tell us about any new query.</p>			
3	Shri Harshad Pandya, At. PO. Bhilwara, Taluka: Mangrol, Dist: Surat	<p>1. In your report, at page no. 6, water requirement shown is 7,700 M³, weather it will be taken from nearby source? In nearby, all the Rivers and ponds are dried-up, so from where you will take water and specify the quantity of water?</p> <p>2. After monsoon, water collected from the rain finishes, and then from which source you will take water?</p> <p>3. In page no. 18, it is written that water is required, so from which source you will take water?</p> <p>4. Due to mining activity, many bore well will be dried up. Condition of farmers of remaining 30% land will become worst. Is there any provision for them?</p> <p>5. There is difference in project report regarding water in page no. 6 and 18.</p>	<p>Company informed that they will use the water collected in monsoon. Water will not be taken from River.</p> <p>Company informed that as earlier, water collected during monsoon will be used for dust suppression.</p> <p>Company informed that water is collected and stored from mine seepage and monsoon water, and will use the same. Water will not be taken from any outside source.</p> <p>Company informed that they are regularly doing groundwater monitoring since last 2-3 years and the data are send to Central Ground Water Board.</p> <p>Company informed that report was not read properly.</p>

		<p>6. But till 10 years, near mining area, farmers will do irrigation or stop farming? As the mining work progress and mines go deeper, water level will also fall down. We are uneducated farmers, but we know that as mining activity go deeper, water flow will increase to mining area of remaining land.</p>	<p>Ground water will not be used. While backfilling, 16 Hectare of will be left for water storage and this will recharge water in surrounding.</p> <p>Company informed that water will not be taken from outside source. Moreover it was informed that water fluctuation is only seen in the unconfined zone, which is seasonal. Water seepage in mining area is restricted to about 50 mts, which is recharged in monsoon and drop down in summer.</p>
4	<p>Shri Maksood Manjra, At. PO. Mosali, Taluka: Mangrol, Dist: Surat</p>	<p>1. In earlier Public Hearing, GIPCL informed that mining will be done in Bhilwara and Plant is at Nani Naroli, in which Lignite will be transported through their own road and through conveyor belt. Where is the road of lignite transportation?</p> <p>2. Own road should be used, 1km of road is passing through the village. Which road to be used? Whose permission has been taken? What about safety?</p> <p>3. Permission was not taken from Gram Panchayat? What about the compensation of road which has been widened?</p>	<p>Company informed that company could have managed through conveyor belt, but to encourage employment to local people, transportation will be done through dumpers. After land acquisition, company will prepare dedicated road and consider installation of Belt Conveyor.</p> <p>At present, Company will use common road. Dedicated road will be made after land acquisition. For safety, Company has identified critical points, where security guards will be appointed to avoid accident.</p> <p>Company informed that it is not required to take permission for using common road, hence permission was not taken.</p>
<p>➤ Moreover, Res. Additional Collector informed that answers of all these types of question were given, so please don't repeat the same question again and again.</p>			
5	<p>Smt. Rukhmaniben Choudhary, At. PO. Bhadkua, Taluka: Mangrol, Dist: Surat</p>	<p>In earlier Public Hearing, question related to water has been raised.</p> <p>People of the area are aware through this plant. Women awareness should be increased by the Company. In earlier Public</p>	<p>Company informed that suggestion for leaving alcohol is welcome and they will make joint project to eradicate it.</p>

		Hearing, women of the area were not given chance to raise their query. In Ankleshwar area, pollution is done in any ways, then why people don't protest against that pollution. Why protest is done here only? Earlier in the hearing it was informed that pollution is created through mining which leads to diseases related to lungs, is not true, but the lung diseases is found in 95% of people due to intake of alcohol. For the same women should be made more aware.	
6	Shri Chandubhai Vasava, At. PO. Mosali, Taluka: Mangrol, Dist: Surat	<p>1. Industrial area is nearby Mangrol village. In Karanj, Birla Company is having its own hospital. Here the question is of environment. Whether GIPCL wants to built hi - tech hospital in which affected people would be treated free of cost.</p> <p>2. Compensation money has given some boost to farmers, but what about the labours working in those farming land?</p> <p>3. Earlier the question has came, but still I am repeating that road will be passing through crowded area, hence, thinking has to be done for the same.</p>	<p>Company informed that earlier they had made provision of Doctor through CHC. In near future, we will start mobile medical unit in association with Government. Matter for hospital will be put to board for consideration.</p> <p>Company informed that earlier company has started combined farming with the labours to facilitate them, but some villagers has opposed for the same, so company has dropped the same. In future at new plant, if required, unskilled labours will be taken from the same labour category, if the land loser do not have any objection.</p>
7	Shri Kamrat . Vasava, At PO. Bhilwara, Taluka: Mangrol, Dist: Surat	<p>1. Any provision made for affected people from Mangrol-Valia for giving permanent, temporary employment.</p> <p>2. What are the selection criteria for affected people please provide the details, thereof?</p> <p>3. According to Mangrol-Valia EIA report, 125 nos of persons will be rehabilitated, but of which village? How many families? If earlier rehabilitated, please provide the details.</p> <p>4. Please provide the medical</p>	<p>Company informed that in power plant, many kinds of employment opportunities are present, in which for new project, unskilled labours will be taken in large scale. For land loser, Company will make new policy for permanent employment, in which if the Company needs 1st class merit, but for affected people and land loser, higher 2nd class people will be given 1st priority. If land loser educate their children in</p>

		<p>checkup reports in negative/positive for the persons working in lignite mines.</p>	<p>Mining Engineering degree, then there is a possibility of getting employment, and if the education is done in electrical or mechanical degree, then when required, people will be given employment on new merit policy as stated earlier.</p> <p>Company informed that at present policy is under process.</p> <p>Company informed that at present no rehabilitation is done. Many houses of Vadsol and Kosmadi villages are to be rehabilitated, for the same, Panchayat will be taken in confidence and as per guidelines of national R&R policy, more facilities would be provided.</p> <p>Company informed that till date no negative impact has been seen. No such dangerous disease is identified due to dust.</p>
8	<p>Shri Dilip Singh Atodariya Vill. Sod Gam, Ta: Valia, Dist.: Bharuch</p>	<p>1. As per the Environment Clearance from Ministry of Forest & Environment, dated: 21/07/2003, in clause no. A-10, 25 hectare land has to be provided in the name of Gaucher. Mining work is started, but till date no such land has been provided in the name of Gaucher to any Gram Panchayat, and if provided, details thereof.</p> <p>2. This land is acquired in December 2007. It is mentioned clearly in Environment Clearance that if this type of land is not in your possession, then also you have to acquire additional land for development of Gaucher. From 2007 to 2013, no such development of Gaucher and animal husbandry work has been done. Environment Clearance has been issued from Ministry of Forest & Environment, dated:</p>	<p>Company's representative informed that in land acquisition, no such Gaucher land has been acquired so far and process of acquisition of Gaucher is underway. As per Company's policy, Company will offer substitute Gaucher land of same area to the village Panchayat against of the Gaucher land acquired. After this only Gaucher land will be acquired. Before this process, no Gaucher land will be acquired.</p> <p>Company's representative informed that application has been done to convert Gaucher land, but they have received guideline from Collector Office that they</p>

		<p>21/07/2003, and it's a violation for the same, hence I request you to close the mining activity of 4.2 MTPA with immediate effect.</p> <p>3. First of all they had acquired land, out of which they had to provide land for gaucher development, and if not, then they have to acquire additional land. Still they can't provide 25 hectare of land out of their acquired land? It's due to their non willingness, animal husbandry facing adverse effect.</p> <p>4. People present in Public Hearing were asked, if they agree with the same, and if not, and then raise your hand.</p> <p>5. In earlier project there was provision, but not followed. Additional Collector informed that from this project Company will made provision for the same. This has also been taken, but still not followed.</p> <p>6. Violation has been done in clauses of Environment Clearance; hence mining activity should be closed.</p> <p>7. Question is, as per Environment Clearance clause, whether 25 Hectare of land has to be provided for Gaucher, Goucher Development?</p> <p>8. Is any provision is there? Wrongly said. Secondly, in 2013, mining activity has started and water seepage can be seen in the mines. They have said that information has come on paper and no such water discharge has been done from mine, is this true? This is a violation. They will no water discharge, and will be used for their purpose only. Is there any provision of water discharge out of mine?</p> <p>9. Is this written in English or Gujarati?</p> <p>10. Res. Additional Collector informed that we meet together for the same, so that there will be no misunderstanding and it should be</p>	<p>should try to find out a way by taking the villagers in confidence.</p> <p>We want to say that in Vadoli village we have provided land from the land acquired for development of green belt. In future, we will provide substitute land out of the land falling under the project.</p> <p>In past, we have not acquired any Gaucher land, except in one case. Before acquiring Gaucher land, the same area of optional land has to be developed and provided.</p> <p>As per the condition, same area of substitute land has to be provided to Gram Panchyat and after that only Gaucher land is used. If said land would be used after 15 years, the substitute land will be developed 2-3 years prior to the use of Gaucher land and will be handed over to the Gram Panchayat before acquiring and using Gaucher land.</p> <p>We have not done violation of any clause.</p> <p>I want to clarify that, as in EIA Report, there will be zero discharge of polluted water from the mines, but water collected in mines during monsoon will be discharged to the River, nallah or surface after passing it through proper desilting pond. This has been mentioned in EIA Report.</p> <p>As I informed earlier, water encountered during mining activity is seepage water and it is required to be pumped</p>
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		<p>clear between all, they will not discharge polluted water, but they clearly mention that they will discharge additional rain water, and that also has been taken in minutes.</p> <p>11. In present mining, there are 2 nos of diesel operated engine and one motor is present through which water has been discharged in Tokri River. Is this true?</p> <p>12. Is water being discharged in River?</p> <p>13. Limits provided in Environment Clearance will be crossed, and it's a violation, hence I request you to close the mining activity of 4.2 MTPA with immediate effect.</p>	<p>out to operate the mine smoothly.</p> <p>Water is discharged on the surface.</p>
<p>➤ Res. Additional Collector informed that any question to be asked from ladies side, if there, they can ask.</p>			
9	Shri Raju Pathak, At& Ta. Mangrol, Dist: Surat.	<p>1. It is not clearly mentioned regarding employment and project proponent has also not replied properly for the same.</p> <p>2. For employment Company should count the number of local people employed, this much employment, what is the critical area? Company should do this; we feel that affected people should be given permanent employment instead of temporary employment in GIPCL. One person per family will be employment according to the qualification, skill, unskilled. For farmer and labours, what Company has plan for their financial growth? And in future what Company will do for them, please specify in detail. Among affected families, how many persons were given permanent employment? Case is pending in court for compensation of our people. We demand that affected people should get permanent employment</p> <p>3. In past have you ever done any such process in consultation with affected people for collection of data. Advertise has been done in English Paper and interview and</p>	<p>In the upcoming project, land losers will be given first priority and local people will be given second priority. Qualification and experience will be considered as per company's requirement.</p> <p>At present plant, the matter is sub judicial hence no further comment on the matter.</p> <p>For employment, advertisement is always given in one English newspaper and two local newspapers.</p> <p>Mangrol is located in such a way that it gets befits of newspaper published in both districts. We generally publish advertisements in Gujarat Mitra and Times of India.</p>

		<p>recruitment has been done in Baroda.</p> <p>4. In this tertiary, to aware people, information regarding employment should be displayed in local news paper, Gram Panchayat or public places. By doing so, whether you really want to raise the financial growth, are you willing to do so?</p> <p>5. We have proof of past that we raise issue, then whether you have implemented?</p> <p>6. You should do procedure from which people residing in extreme interior will get such information, in past why you have not implemented?</p> <p>7. You just give 10-15 days temporary employment to farmers and labours, and leave them saying 90 days criteria. Then you take other persons. Same way you should include every survey number.</p> <p>8. It is our humble request for animal husbandry. Lot of land acquisition has been done and land is presently idle, so as discussed earlier with respect to engagement of persons in communal farming, land losers and agricultural laborers should also be associated with animal husbandry business.</p>	
10	Shri Kishor Singh Rathod, At. & Ta.: Mangrol, Dist: Surat.	<p>1. For providing employment to local people and land losers, list should be prepared by door to door survey. I am affected too and my son is Engineer, encourage him.</p> <p>2. Land of Bhilwara & Rajgarh has been acquired 5 years back, how many local people were employed since then? Other than those, how many people have been given employment?</p>	<p>As informed earlier, in mining department, there are plenty opportunities. As per available data with me, there is no mining engineer from affected families.</p> <p>If qualification is of Mechanical Engineer, some delay in employment opportunity might be there.</p> <p>Your suggestions will be considered and we will take proactive steps.</p> <p>In my opinion, its better that those people whose children are ready for employment can</p>

			send their applications, instead of preparing list, as list will be changing every year.
11	Smt. Smitaben D. Mangrola, At PO. Luna, Taluka: Valia, Dist: Bharuch.	Employment will be given to diploma holders; we have doctors, engineer, MBBS, Homeopathic, and then where rest will go? You should think of them also.	In their family, one boy is Homeopathic doctor, and our requirement was of MBBS doctor, that's why we could not accommodate son of Smt. Smitaben Mangrola.
12	Shri Arvind P. Vasava, At PO: Rajgarh, Taluka: Valia, Dist: Bharuch	Deep Trust has created Sakhi Mandal & Bank Account was opened. There is no benefit of Sakhi Mandal. In Sakhi Mandal, if someone is land loser lady, they only get benefits. I am farmer, my daughter has deposited Rs. 15000/- for cow, then only she got 2 cows, then why you have created Sakhi Mandal. In 7/12 form if there are 4-5 names, then why only one person is getting benefits, others are not farmers?. We have deposited Rs. 15000/- and we got 2 H.F. cow, but they don't give milk. Businessmen have cheated us. Only 3 persons in the village have been benefited.	Company's representative informed that through company one NGO – Self Help Group was created in which there are 100 groups. In this there are 1000 member having Rs. 2600000/- is saving amount. Their internal bank savings is decided by lady members only. After thinking a lot for land losers, there are lot of projects presently working. Firstly, to provide free education to children of land loser, for example in one block no. if there are 4 land owners, then consent will be taken from all regarding educating 2 child free of cost including free uniform and books. Moreover another 4 benefits were indicated, in which, firstly, Lignite transportation, secondly, Bricks making from Fly Ash value addition, third is Animal Husbandry, forth is internal transportation by providing the LMV. At present out of 38 vehicles, 36 vehicles are of land losers. For lignite transportation we require 50 more vehicles and that would be taken from land losers only. Total 4 lac ton of Fly Ash will be distributed to land losers and affected people; we have already partly stopped to distribute fly to other people who were getting benefits earlier. According to 7/12 form, 1 person will get one

			benefit, favourable benefit will be provided after internal understanding. In Animal Husbandry Rs. 15000/- is deposited as public contribution for token amount for their ownership, in which company can spend approx. Rs. 80,000/-. As, Rs. 15000/- is not a big amount and it belongs to the beneficiary, company has put a panel of Sumul's business, which unload their goods, in which beneficiary will come to the place and will take out three times milk from cow, whereas we provide the facility of taking five times milk from the cow. The veterinary care for the same is provided by Sumul. Director of the same is Shri Rajubhai, and he is quite helpful and he will also provide necessary support for fodder. Choice of the animal is done by employee of Deep Trust, Sumul doctors, who do tagging; moreover beneficiary himself chose the animal. If unloaded goods are not favourable, then we don't accept it. This policy is under getting 1 benefit after losing 1 block. Only in child education for 2 children per block, we provide free admission.
13	Shri Anil Vasava, At & Po- Harsani, Ta-Mangrol, Dist-Surat.	<ol style="list-style-type: none"> 1. I am working with Lignite. I am affected farmer of Harsani, I want to just know that the land which is confiscated for the road, is there any benefit given for the looser. 2. The vehicle required for Transportation costs around 50 Lacs. How the affected farmer can bring the vehicle of 50 lacs. 3. Who is responsible for safety due to road? Is that village? 4. Do not make our condition like Vastan and Shah villages. The 	Company representative clarified that as informed earlier; a dedicated road will be constructed considering safety & security aspects after land acquisition.

		<p>road from my village is up to Netrang. How many vehicles will pass through that road per minute.. What about villagers? What about accidents? How much benefit has been given to the village on account of road? How much development has been taken place in affected village. I am operating dairy in my village. Each affected persons should be given a cow, then why it is given to two-three farmers only?</p> <p>5. The pollution from Godrej company is observed during night. What about the dusting going to happen due to mining? Company has paid @ Rs.90000; farmers are in problem, pay the escalated price.</p> <p><i>In further discussion, Rajubhai Pathak informed that due consent of farmers should be taken and compensation should be given if applicable. This question is raised twice and it should be resolved in coordination with R & B department. Further, criteria should be different for the marginal farmer having five brothers and becoming landless.</i></p>	
<p>➤ Res. Additional Collector informed not to consider confiscation related question.</p> <p>➤ Res. Additional Collector informed that the answer is covered.</p> <p>➤ Res. Additional Collector informed that this answer is also covered. Other matter should not be raised except environment related questions.</p>			
14	Shri Kishor sinh Rathod, At & Po-Mangrol, Ta-Mangrol, Dist-Surat.	<p>1. After what time coal shall be transported from mines?</p> <p>2. Five primary schools of villages Morambli, Bhilvada, Timbarva, Harsani and Mangrol are there. School of Harshani is situated 5 meters away from the road and total number of student studying around 70 -80.Students from villages Vadsol and Harsani use to cross the road to reach the school.</p> <p>3. If the mining is starting</p>	<p>Company representative informed that as per planning, it may commence approximately by May.</p> <p>Company representative informed that let me answer the question asked earlier by Shri. Anilbhai, I will be glad to show the infrastructural works done at every village if anybody is ready to come with me. Another question related to school, we have already applied to collector office and education</p>

		<p>from May then what about safety of the students in June?</p> <p>4. Timbarva and Bhilvada scholls is located around 50 meters, what about the effect of noise pollution on study of children?</p> <p><i>During further discussion, Shri. Rajubhai Pathak informed that the issue of compensation for confiscation should be resolved before commencement of the work in May.</i></p> <p><i>Shri Rajubhai informed that company is misguiding. There is 30% share. Company should declare, why 30% share is given for road? A consent from farmers should be taken and compensation to be provided. If it is Government land then we have no issue.</i></p>	<p>department, in which the resolution is passed by Gram Panchayat regarding no objection on construction of school at another safe location and as per that resolution of Gram Panchayat, company is agreed to construct the school with better amenities at company's own land located near to the Harsani village. For that we have also prepared plans. This matter is regards to Vadsol faliya. We have sent a file to collector's office and the work will be started after the approval. Before that, if started, in the month of June the fencing surrounding the present school will be done along with gate and security point for safety of school, so that the students coming to the school are not disturbed. And when a new school building with better amenities gets ready, the school will be shifted.</p> <p>Company representative informed that for the road safety if it is required to put the guard, then if possible same shall be provided when and where required.</p> <p>Company representative informed the chairperson with a request that this matter is pertaining to R&B department as the ownership of the road with R&B.</p> <p>Company representative informed that company does not mean to misguide but the contribution was made for road construction work and ownership of the same lies with R&B hence R&B only knows about its ownership.</p>
<p>➤ Res. Additional Collector informed that this question should be resolved separately and R&B shall be intimated from our office also for the issue</p>			
15	Shri Dilipsinh	The matter related to the	Company representative

	Rathod At & Po- Mangro Ta-Mangrol, Dist-Surat.	employment has been discussed earlier also but many of us have a feeling that in future, employment opportunities which will be generated, affected farmers and land losers should be called for application & as the demand raises them should be employed on the basis of merits of affected people & land losers. Since years, company has policy that company operates here & for employees who are recruited here, interviews and medical check-up carried out at Baroda due to which local people remains unaware of this recruitment procedure. For this job fair should be organized.	informed that we will surely think over the suggestions given by Dilipbhai and also proper feedback shall be given.
16	Shri Harshad Pandya At & Po- Bhilvada Ta-Mangrol, Dist-Surat.	It is a humble request that the children of the land losers who are studying and will graduate in two to three years should be guided and a list of them should be prepared and as and when there is an interview call, farmers shall be informed.	
17	Shri Kishor sinh Rathod, At & Po-Mangrol, Ta-Mangrol, Dist-Surat.	As informed by DEEP trust regarding free education given to affected people for which it is required to go up to Naroli due to which we have to spend Rs1200 to Rs 1500/- for the transportation which should be relieved. GIPCL to provide vehicle for the same. <i>In further discussion Shri Rajubhai Pathak informed that Kishorbhai meant that GIPCL should arrange for transportation.</i>	Company representative informed that Kishorbhai has suggested a new matter and it has to be thought about. Further I would like to clarify that similar question was raised that for Central board school it is required to come to Naroli so, considering Rajgadh as the centre area of proposed Valia & Mangrol acquisition area, we have planned for a Gujarat board approved English medium school costing about 2-4 crores will be constructed by company and its administration would be carried out by trust. Work of the same will commence after getting the approval. Company representative informed that suggestion given by Rajubhai will be put-up to company's management.

18	Shru Chandu bhai vasava At & Post Mangrol Surat	In this region, 2 mines are coming up, Valia & Mangrol. After excavation of mines, water shortage will happen. At present in my village Mangrol we are facing water problem. We are taking water from Amandera village through Gaypagla Group's water Supply scheme. Whatever amount per liter we are paying in this scheme; same should be paid by company.	Representative of company informed that if there is any public fund scheme or Capital, Big scheme is there, the matter will be put up to the management for considering Partnering in recurring cost.
19	Shri Jayendra Sinh Vansia Village: Sod Gam, Ta:Valia, Dist. Bharuch	<p>1. Many land losers of Sod Gam are residing in Sod Gam itself & their land is in the part of Rajgad. In Gram Panchayat Open area there is 4 to 5 Bore well but there is no drinking water. Nobody is doing anything in this regard. DEEP trust should think about this.</p> <p>2. Publicity / praise had done for Deep trust great. But they have done actually 1 % out of 100. In every village roads were building but how much length of road is in Village & out of that how much is built by DEEP? Actual survey should be shall be done for the same. How many hand pumps were installed & out of that how many are working & in future for how much time it will work? Every system should be systematically organized for life time. Deep trust is not only for spending money in schemes but step by step they should fix life of the scheme so that People can get benefit from that in future.</p> <p>3. In environment, human, animals, insects are including. & out of these living beings, humans are most intelligent. Due to this environment first of all land looser will get affected if they are losing 3019 hectare land then how much it will affect human progress. Same shall be taken in consideration. How many families' progress will be blocked & how many families progress will get</p>	<p>Company representative informed that Company is ready to contribute for developing the Gaucher under the present system to satisfy the demand of the people. We are not going to reduce any system presently available with villager. We will try to supplement wherever requests are received.</p> <p>Company representative informed that no ponds are acquired by company. At present, the matter of pond relocation is pending in Collector office. In future, if any pond is acquired then substitute pond of equal area will be provided to the village.</p> <p>Company representative informed that application for Gaucher land is already done. After confirmation, if Gram Panchayat will provide support then substitute Gaucher land will be developed & provided in place of proposed Gaucher land. After that only, Gaucher land will be utilized.</p> <p>Company representatives informed that direct and indirect opportunities for employment are a matter of development. The benefits</p>

		<p>slow. 15-20 thousand animals (cattle) depend on 3000 hectare land, for that solution for fodder should be required and when it will come in action?</p> <p>4. Ponds for irrigation are in every village and some are acquired by company. In place of that new irrigation pond shall be provided.</p> <p>5. What about Gaucher land?</p> <p>6. Land acquired for mining is from Surat & Bharuch in that due to difference in rate of land, illiterate villagers & farmers were affected mentally & economically. Is this not related to environment issue?</p> <p>7. Is there any permanent plan for development and security of land looser farmers?</p> <p>8. Have you forgotten economical development?</p> <p>9. What about colleges for child education after 10th to 12th for their future?</p> <p>10. What you have thought about land loser economical development after they have consumed all amount received against lands?</p> <p>11. Fly ash has been allotted by company itself. GST No. has been made compulsory.</p> <p>12. Main Question is that for providing loan to land losers for purchase of truck worth Rs. 27 Lac and TATA/Bolero car worth Rs. 12 Lac.</p> <p>13. Company shall reply for difference in date and compensation for Land acquisition of Mangrol and Valia.</p>	<p>availed through the CSR plan of company are the symptoms of development. Mobile medical van or any other health related help provided in future after coordination shall be provided by handbook which is a matter of security. And similar type of other works suggested by people for development and security will be considered by us.</p> <p>Company representative informed that giving fly ash to land losers is the matter of economical development, which will be given by the company. It will lead to a source of double earning from market and there is no other investment in it. Further, by value addition of it through preparing bricks from fly ash will lead to economical earnings.</p> <p>Company representative informed that suggestion for higher education is welcome and we will put it up to management. Further we have contributed by adopting ITI and co operated for admissions of children.</p> <p>Company representative informed that as earlier informed, keeping land losers in mind, various plans have been devised like Lignite transport, Fly ash, animal husbandry, bricks etc. Any other suggestion if given from your side will be welcome and incorporated.</p> <p>Company representative informed that a quota of 330 Tonnes has been allotted to each land looser due to which any land looser needing fly</p>
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		14. Air pollution report showing pollution more than 0.5 is prepared by a Hyderabad based company. It should be prepared by GPCB and should be declared.	ash will take it after completing company's procedure. If you will apply as a land loser, fly ash shall be allotted. Company representative informed that we are not willing to make any person dependant and anybody who has capacity or desire of business can come forward. Although, we will put up this matter to management.
<p>➤ Res. Additional Collector informed that this issue is related to land accusation so leave it.</p> <p>➤ Res. Additional collector informed that it is the question of acquisition and not related to environment.</p> <p>➤ RO, GPCB informed that as per EIA notification recognized Schedule-I and Schedule-2 auditors are preparing reports. GPCB does not prepare any such report.</p>			
20	Shri Umedbhai ShivaBhai Vasava, At & PO : Dansoli, Ta : Valia, Dist : Bharuch	8 Hectare land has been lost, 26 inheritors are there, and family of 150 people is there. We have not taken money and land has been acquired without permission. By whose permission, reserved area has been acquired and who will pay the compensation?	
<p>➤ Res. Additional collector informed that it is the question of acquisition and not related to environment.</p>			
21	Shri Dilipsinh Atodariya, At & PO : Dansoli, Ta : Valia, Dist : Bharuch	<ol style="list-style-type: none"> 1. 503 hectare Land of 875 farmers of Valia mines, about 80% of land acquisition has been done without appendix 15 of written agreement in which I am also affected. This land has been acquired on my dummy signature and the affidavit of the same is available. 2. 4.2 MTPA mines in which mining work is under progress should be stopped. Rules of environment clearance or the conditions have not been followed and on that ground mining should be stopped and if it has to be stopped then there is no question of giving support for increasing the capacity of 7.4 MTPA mines. 	

The Regional Officer GPCB said that the representation in writing received from various representatives and their replies would be included as a part of the proceedings annexure C.

The Res. Additional Collector has informed that proceedings of the public hearing with original CD of videography will be submitted to competent authority.

The Public Hearing was concluded with thanks to the Chair and all those present.

Place:
Village Harsani,
Ta: Mangrol,
Dist.: Surat.
Date: 02.04.2013



A.G. Patel

**Regional Officer, GPCB, Surat
As representative of The
Member Secretary, GPCB.**



R.B. Barad

**The Res. Additional Collector,
Surat**

ENCLOSURES : 3

FORM 1
(Issue 01, Rev 0, July 2018)

(I) Basic Information

1	Name of the Project/s :	Mangrol-Valia Lignite Mine
2	S. No. in the Schedule	1(a)
3	Proposed capacity/ area/ length/ tonnage to be handled/ command area/ lease area/ number of wells to be drilled	Proposed lignite production = 5.4 MTPA (expansion from 4.2 MTPA) Proposed Lease area = 2059.6829 Ha (same as present)
4	New/ Expansion/ Modernization	Expansion
5	Existing capacity/ area etc	Present lignite production = 4.2 MTPA Present Lease area = 2059.6829 Ha (based on mine lease agreements executed with Government of Gujarat)
6	Category of Project	A
7	Does it attract general condition? If yes, please specify	No, as there is no state boundary, sanctuary/ National Park/ Ecological Sensitive area/ critically polluted area in 10 km radius of the project. Nearest : <ul style="list-style-type: none">▪ State Boundary- Maharashtra, 53 km, SE▪ Wildlife Sanctuary -Shoolpaneswar, 37 km, NE▪ Critically polluted area- GIDC Jhagadia, 13.8 km, N
8	Does it attract specific condition? If yes, please specify	No
9	Location Plot/ Survey/ Khasra no. Village Tehsil District State	Refer Annexure I for location plan Several, as shown on map in Annexure II Mosali, Mangrol, Shah, Charetha, Amandera, Harsani, Timberwa, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh and Kosmadi (1) Mangrol and (2) Valia (1) Surat and (2) Bharuch Gujarat

10	Nearest railway station/ airport along with distance in kms	Railway Station - Mota Miya Mangrol, 0.2 km, E and Airport - Surat, 52 km, SW
11	Nearest town, city, district head quarters along with distance in kms	Town- Valia, 6.7 km, N District HQ - Bharuch - 29 km, NW Surat - 40 km, SW
12	Village Panchayat, Zilla Parishad, Municipal Corporation, Local Body (complete postal addresses with telephone nos. to be given)	<ol style="list-style-type: none"> 1. Taluka Panchayat Bhavan Mosali-394421 Dist –Surat, State :Gujarat 2. District Panchayat Bhavan, Darya Mahal, Surat-395001, Ph No-(0261) 2425751 to 2425755, State :Gujarat 3. Taluka Panchayat Bhavan, Valia Dist –Bharuch, State :Gujarat 4. District Panchayat Bhavan, Bharuch-392301. Ph No - (02642) 240603, State :Gujarat
13	Name of the applicant	M/s Gujarat Industries Power Company Ltd.
14	Registered Address	P.O. Petrochemical, Dist. Vadodara, Gujarat-391 346
15	Address for correspondence : Name Designation (Owner/ Partner/ CEO) Address Pin Code Telephone no.	<p>Sh. N. K. Purohit Chief General Manager, (Mines) Surat Lignite Power Plant (SLPP) Nani Naroli Taluka, Mangrol District, Surat – 394 110. Mail : nkpurohit@gipcl.com 394110 02629-261087</p>
16	Details if Alternative sites examined, if any. Location of these sites should be shown in a Toposheet	This is an expansion project from 4.2 to 5.4 MTPA lignite in an operational project, hence, no alternatives have been considered.
17	Interlinked Projects	Surat Lignite Power Plant (Captive Power Plant) Station-1 of 2X125 MW and SLPP-2 of 2X125 MW at Nani Naroli, Dist. Surat, Gujarat
18	Whether separate application of interlinked project has been	The interlinked project already has environmental clearance. Refer Annexure

	submitted?	/// for EC letter.
19	If yes, date of submission	EC granted vide MoEF Letter No. J-13011/18/93-IA-II/dated 26/06/1996 for Phase I of 250 MW and J-13011/17/2000.IA-II (T)/dated 10/11/2003 for Phase II of 250 MW
20	If no, reason	Not applicable
21	Whether the proposal involves approval/ clearance under : if yes, details of the same and their status to be given:	
	(a) The Forest (Conservation) Act, 1980?	Yes. 4.48 ha Protected Forest Land (Social Forestry along SH-166). The Government of Gujarat vide his Gazette Notification declares road side area to be into Protected Forest. Accordingly, FC under process. Joint inspection conducted. Query received from Dy. Conservator of Forests, reply to be submitted by GIPCL.
	(b) The Wildlife (Protection) Act, 1972?	Not Applicable as mine is not within 10 km radius nor within ESZ of any wildlife sanctuary
	(c) The CRZ Notification, 1991?	Not Applicable as mine is not near sea shore
22	Whether there is any Government Order/ Policy relevant/ relating to the site?	Nil
23	Forest land involved (Hectares)	4.80 of Protected Forest land (4.80 ha social forestry along the existing SH166) is present within ML Area.
24	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up?	
	(a) Name of Court	Hon'ble Supreme Court of India, Hon'ble High Court of Gujarat, District Court, Surat and Mangrol Court.
	(b) Case No.	1. SLP No. 33208/33212/2014 in the Hon'ble Supreme Court of India.

2. SLP No. 33722/2014 in the Hon'ble Supreme Court of India.
3. SCA No. 18353 of 2014 at Hon'ble High Court of Gujarat.
4. SCA No. 3826 of 2015 at Hon'ble High Court of Gujarat.
5. SCA No. 10369 of 2015 at Hon'ble High Court of Gujarat.
6. Divani Mu.No. 31/2014 at District Court, Surat.
7. Divani Mu.No. 30/2014 at District Court, Surat.

(c) Orders/ directions of the Court, if any and its relevance with the proposed project

Still Pending. Above cases are related to land.

(II) Activity

1. **Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)**

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data												
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	<p>The area in general is more or less flat with some minor undulations. The mine is already operational and has been planned for three mine pits i.e. South Pit, Central Pit and North Pit, the location of which can be seen in Annexure VII. Presently, South Pit and North Pit are under operation. The total mine lease area is 2059.68.29 Ha, out of which 284.53 ha is excavated area. At the end of life of mine, 1453.00 ha of land shall be excavated by opencast mining. Rest of the area will be partly used for ancillary activity of mining and ecological development of the area. The disturbed area will comprise of excavated land, dump area, infrastructure, roads, etc.</p> <p>Pre-mining land use was as follows:</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Area in Hectares</th> </tr> </thead> <tbody> <tr> <td>Protected Forest*</td> <td>4.80</td> </tr> <tr> <td>Agricultural land</td> <td>1953.3426</td> </tr> <tr> <td>Waste land</td> <td>23.5393</td> </tr> <tr> <td>Nala / River</td> <td>00.5000</td> </tr> <tr> <td>Road</td> <td>10.1192</td> </tr> </tbody> </table>	Particulars	Area in Hectares	Protected Forest*	4.80	Agricultural land	1953.3426	Waste land	23.5393	Nala / River	00.5000	Road	10.1192
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			Annexure VII. The post mine closure plan (33 rd year) is also enclosed in Annexure VIII.
1.2	Clearance of existing land, vegetation and buildings	Yes	Three Pits namely North Pit, Central Pit and South Pit have been carved out jointly from Valia area and Mangrol area. While South and Central Pits completely lie within Mangrol area, the North Pit partly lies in Valia area and partly in Mangrol area as seen in 30 th year stage plan (Annexure VII). South Pit (Mangrol Area) started operation from the year 2009-10 and the North Pit (Valia Area) started operation from 2012-13. These pits will last for 18 and 30 years, respectively, after implementation of expansion. The Central Pit which also falls in Mangrol area will start operation from the 22 nd year and last till 27 th year. The annual targeted production of 5.4 MTe will be achieved from the 9 th year.
1.3	Creation of new land uses	Yes	Excavated area, plantation, dumps, etc. will be there during the operational period. Mine Office, Garage, First Aid Room, Rest Shelters, Toilets, Tool/ Store Rooms, etc. are provided at mine site. Proposed topography and land use at the end of life (30 th year) within ML is given in Annexure VII . In the post mining scenario, the project area will comprise of surface dump, backfilled and void area of the opencast mine besides plantation. The post mine closure plan (33 rd year) is given in Annexure VIII .
1.4	Pre-construction investigations e.g. bore holes, soil testing	No	Pre-construction investigations e.g. bore holes, soil testing, etc were carried out prior to the construction of core infrastructure like mine office, stores, workshop, canteen, first aid centre, etc., which are already present at the mine.
1.5	Construction works	Yes	Core infrastructure like mine office, stores, workshop, canteen, first aid centre etc are already present. However, they will be further enhanced to cater to the additional manpower and their requirements, if needed.
1.6	Demolition works	No	
1.7	Temporary sites used for	No	All construction activities have been

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data
	construction works housing of construction workers		completed and no additional construction work is envisaged.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	No additional building construction is envisaged. The above ground buildings and structures such as mine office, stores, workshop, canteen, first aid centre etc. are already present within the site. Enhancement of the buildings by minor modifications may occur to accommodate the additional manpower employed for 4.2 to 5.4 MTPA increase in production. Earthworks for mines in form of excavation from pit, dumping in OB dump or backfill will be continued till the end of life of mine.
1.9	Underground works including mining or tunneling	No	No underground mining will be done in this project. All mining is opencast.
1.10	Reclamation works	Yes	Plantation over excavated area, external dump, road, settling pond/ reservoir and green belt will be done. Out of 2059.6829 Ha of ML area, 1453.0 Ha will be the mined out and 1243.0 Ha will be backfilled and planted, while 210.0 ha will remain in the form of a void at conceptual stage and will ultimately become a water reservoir. Ultimate depth of mine would be 150 m.
1.11	Dredging	No	No dredging will be done.
1.12	Offshore structures	No	Not applicable
1.13	Production and manufacturing processes	No	It is not a factory, hence manufacturing process is not applicable. Lignite is excavated during mining.
1.14	Facilities for storage of goods or materials	Yes	Facilities for the storage of lignite, diesel, oil, machinery, etc. have already been created.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents	Yes	Solid waste management : <ul style="list-style-type: none"> ▪ Overburden: There are 4 dumps existing at present, D1, D2, D3 and D4 as seen in Present Surface Plan in Annexure IV. The volume of OB handled in the life of mine (including past) will be 943.69 MCuM (bank). Total area under surface dumps at present is 277.14 Ha which will increase to 294.90 Ha by the end of 1st year. Later it will reduce to 253.87 Ha and 144.80 Ha by the end of 5th year and 30th

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data
			<p>year respectively due to rehandling of D4 as the northern Pit advances towards SW. Out of total Surface OB dump 144.80 ha, 64.66 ha will be planted and 80.14 ha will be converted into agriculture during post mine closure as seen in Annexure VIII.</p> <ul style="list-style-type: none"> ▪ Top Soil: The total topsoil generated will be 8.72 MCuM (Bank) during the life of the mine. Un-utilized part of the same will be stacked separately in a soil stack pile located near the pits. The top soil stockpile will be low height not exceeding 30 m and will be grassed to retain fertility. Besides this, there would be temporary stacks near the excavation area and area to be reclaimed which will be made use of for concurrent filling without bringing the topsoil to the soil stack near the OB dump. ▪ Municipal Solid Waste: Solid waste generated from manpower at mine and residents of colony. It is and shall be mostly of organic and recyclable nature. The organic waste shall be composted and used as manure while recyclable component will be sold to recycling agencies. <p>Effluent Management:</p> <ul style="list-style-type: none"> ▪ The waste water from mine site offices shall be treated in septic tank- soak pit system. ▪ The mine sump water is regularly monitored for pH level and treated, if required, prior to discharge. ▪ The waste water from workshop will be treated in oil water separator followed by settling tank and reused in washing. ▪ The sewage from colony will be treated in STP and the treated water reused
1.16	Facilities for long term	No	The mine is already operational and has

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data
	housing of operational workers		experienced manpower in place. Additional manpower required for expansion will be available in the surrounding area. If outside workers are required, they will be adjusted in existing colony, which is present outside the mine lease.
1.17	New road, rail or sea traffic during construction or operation	Yes	<p>There will be increase in road traffic due to increase in lignite production. Lignite from the North Pit to Thermal Power Plant will be transported by trucks through the internal road and Public Road which is black topped and is capable to transport the lignite. The distance of the TPP from South Pit (Mangrol area) and North Pit (Valia mine) is 6 KM and 18 KM respectively.</p> <p>No new road for OB transportation will be required as it will be managed within the ML area.</p>
1.18	New road, rail, air, waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc	No	Road network is already in place and is capable to take care of additional production. No new road for lignite or OB transportation will be required as it will be managed within the ML area.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements	Yes	<p>A stretch of land totaling to 4.80 ha along the existing State Highway (SH166) (Kosamba-Vankal measuring about 2.0 KM) between Mosali Chokri and Ukai-Kankrapar Main canal, passing through the block has been planted by Social Forestry Department and has been booked under protected forest in the records.</p> <p>This stretch of the road shall be re-aligned parallel to the existing Narrow Gauge Kosamba- Zankhvav railway line passing through the block, within the proposed surface barrier against the railway line from the quarry edge. Accordingly 4.80 ha green belt will be developed along the proposed diverted alignment of the SH166.</p>
1.20	New or diverted transmission lines or pipelines	No	Two 220 KV transmission lines belonging to GETCO and PGCIL and one 11 KV transmission line belonging to DGVCL pass through the lease area have already diverted

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data
			and will not be diverted further
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers	No	Kim river is the only water body traversing on the Southern side of the Mining Lease area. It is a seasonal river, carrying water only during monsoon. As per the mining scheme planned, this river will not be diverted and 100 m barrier will be left on Southern & Northern side of block.
1.22	Stream crossings	No	No crossing is planned over the seasonal Kim river mentioned in point 1.21. There are other seasonal first order drains visible in the Toposheet and passing through the mine lease area will be suitably diverted.
1.23	Abstraction or transfers of water from ground or surface waters	Yes	The net water requirement of the project will be 736 KLD out of which 633 KLD will be industrial water and 103 KLD will be potable water requirement. Potable water shall be sourced from ground water.
1.24	Changes in water bodies or the land surface affecting drainage or run-off	Yes	It is proposed to divert the surface run-off away from the mine cut by constructing "Peripheral Drains" or "Garland Channels" around the mine pit and thereby avoid flooding of the mines during the monsoon season.
1.25	Transport of personnel or materials for construction, operation or decommissioning	Yes	Refer 1.17 above
1.26	Long-term dismantling or decommissioning or restoration works	Yes	<p>After finishing the OC mining operation by the end of 30th year, a period between 31st and 33rd year will be termed as post mine closure for the OC mine.</p> <p>All transportable HEMM, which have working life, will be removed from the leasehold and transferred to other mines of the company. Surveyed-off equipment will be auctioned out along with scrap which would have accumulated over the years. All fixed equipment viz. Workshop, P&M, HT transformers, Pumps, etc. shall be transferred to other sister mines or auctioned off. Only a skeleton fleet of water sprinklers, utility vehicles and equipment for monitoring of the environment for the closing operation completion shall remain.</p>

Sl. No.	Information/Checklist confirmation	Yes/ No	Details there of (with approximate quantities /rates, wherever possible) with source of information data
1.27	Ongoing activity during decommissioning which could have an impact on the environment	Yes	Improvement of environment will take place due to reclamation and plantation activities
1.28	Influx of people to an area in either temporarily or permanently	Yes	After proposed expansion, the project will employ 1279 people (including present employees). They will be preferred from local population but if not available, will be coming from outside and living permanently. A colony is present outside the ML area which will accommodate the people.
1.29	Introduction of alien species	No	
1.30	Loss of native species or genetic diversity	No	
1.31	Any other actions	No	

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply)

Sl. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	<p>Land use of different stages has been given in point 1.1 earlier already. Agricultural land in pre-mining stage was 1953.3426 ha, Protected Forest land (social forestry along SH166) 4.80 ha, Gaucher 67.3818 ha and balance waste land, nallah/ river and road. Out of this, as on 31.03.2017, 708.91 ha have been disturbed.</p> <p>At the end of life of mine, out of total area of 2059.6829 ha, 1803.4400 ha land shall be disturbed comprising excavation, surface dump, topsoil dump, facilities, green belt, Lignite-OB transport road and magazine.</p>
2.2	Water (expected source & competing users) unit: KLD	Yes	The net water requirement of the project will be 736 KLD out of which 633 KLD will be industrial water and 103 KLD will be potable water requirement. Potable water shall be sourced from ground water.

Sl. No.	Information/checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.3	Minerals (MT)	No	The project itself will mine lignite, hence it does not require any mineral.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	No	
2.5	Forests and timber (source – MT)	No	
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	At present, almost all of the equipments are diesel operated for mining activities. Diesel generator backup is available for emergency power supply. The mine receives power from 11/ 440 KV DGVCL's Mangrol & Valia Sub- Station to cater to the power requirement.
2.7	Any other natural resources (use appropriate standard units)	No	

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	The hazardous substances are engine oil, transformer oil etc., which will be stored in leak proof cans or drums. Hence, no contamination anticipated. No explosives shall be used or stored as the strata is soft.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No water borne diseases anticipated since due precautions for treatment and disposal of waste-water are and will be taken.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	After proposed expansion, the project will employ 1279 people (including present employees). Changes for the poor class will be towards betterment of life. The company is already conducting CSR activities in the vicinity of the project which shall be continued in future also.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	Yes	Mining and transportation activity will generate SPM in ambient air, which can affect health of vulnerable groups in nearby villages. However, with proper

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
			management planning such as sprinkling of water, use of dust extractors, etc. the ambient air is and will be maintained clean.
3.5	Any other causes	No	

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Soil, overburden or mine wastes	Yes	The over-burden in this block constitutes black cotton soil at the top, followed by variegated clay and sands with grey clay underlying them. The total topsoil generated will be 8.72 MCuM (B) during the life of the mine.
4.2	Municipal waste (domestic and/or commercial wastes)	Yes	As per current provisions, sludge from septic tanks in mines & facilities area, is removed and used as manure. Sludge from domestic wastewater will be meager quantity and can be used as manure after composting. In mine, the sludge generation will be about 10-15 gm/capita/day.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Used oil from transformers, generated once in two years will be sold to CPCB/SPCB authorized recycling vendors.
4.4	Other industrial process wastes	Yes	Oil and grease from the workshop effluent will be skimmed through oil-water separator and sold to authorized recycling vendors. The generated sludge will be disposed off in specially constructed pit.
4.5	Surplus product	No	-
4.6	Sewage sludge or other sludge from effluent treatment	Yes	As given in point 4.2 above and will be used as manure in gardens/ horticulture after composting.
4.7	Construction or demolition wastes	No	
4.8	Redundant machinery or equipment	No	
4.9	Contaminated soils or other	No	

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
	materials		
4.10	Agricultural wastes	No	
4.11	Other solid wastes	No	

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	Fossil fuel (diesel) is being used in operation of machinery. The excavation and dumping activities cause mine emissions which includes PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ . Regular monitoring is and shall be carried out by the company at the mine site in line with the requirements of the State Pollution Control Board and Ministry of Environment, Forest & Climate Change.
5.2	Emissions from production processes	Yes	The production process involves excavation, which generates Particulate Matter.
5.3	Emissions from materials handling including storage or transport	Yes	The emissions are included in production emission as given in point 5.1.
5.4	Emissions from construction activities including plant and equipment	No	
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	
5.6	Emissions from incineration of waste	No	No incineration processes is and shall be there within the mine.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	No burning process is and shall be there within the lease area.
5.8	Emissions from any other sources	No	

6. Generation of Noise and Vibration, and Emissions of Light and Heat

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	HEMM is required for excavation of OB and lignite. These are high noise generating machinery in the range of 60-100 dB (A) for which noise proof air conditioned cabins has been provided for operator. The same shall be continued in future.
6.2	From industrial or similar processes	Yes	Plants & machinery have been provided with suitable devices to reduce the noise level and is being maintained well within the statutory requirements. Ear plugs are being used by workers in noisy areas.
6.3	From construction or demolition	No	
6.4	From blasting or piling	No	Noise and vibration due to blasting is not anticipated as the strata are soft and medium hard in nature it can be excavated directly by Shovels / Hydraulic excavators. As such no drilling and blasting operations are envisaged for the proposed mine.
6.5	From construction or operational traffic	Yes	The mine is already operational and road transport by tippers has been in use for this project since inception (December, 2009) and the same has been proposed to be continued. Since the number of trucks will increase, there shall be increase in the associated noise.
6.6	From lighting or cooling systems	Yes	Heat generated only in immediate vicinity of light bulb, air conditioners, machinery, etc.
6.7	From any other sources	No	

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	The hazardous materials are engine oil, transformer oil etc., which will be stored in leak proof drums. Hence, no contamination

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			anticipated.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	<ul style="list-style-type: none"> Run-off water from mine facilities area as well as pumped out mine water will be led to settling ponds and after removal of Suspended Solids, a part will be utilized for industrial purpose, sprinkling, greenbelt watering, etc and the excess will be discharged into natural drain. The sewage from the pit head facility is treated in septic tanks and soak pits. Workshop waste water is and will continue to be passed through oil-water separator and subsequently through settling tank prior to reuse.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Water released from the mine site may result in the deposition of suspended solids. In that case, settlement of suspended solids will be done in settlement tanks before discharging. Deposition of dust on land and plants from air due to mining activities and transportation will be there which will be minimized through water sprinkling.
7.4	From any other sources	No	
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Dust falling on land/ plants will be washed off during rains.

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	Yes	Explosives are not proposed to be used due to soft strata. Risk of accidents can be from HEMM operation and crushing installation for prevention of which proper training is and will be given to operators. Lignite itself is inflammable and precautions for handling and storage is and continues to be followed.
8.2	From any other causes	No	
8.3	Could the project be affected	No	The project is not under moderate seismic

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
	by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst, etc)?		zone (Zone-III). The project area is not prone to floods, landslides or cloudburst etc.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	<p>Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	<p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>No</p>	<p>The development of road, power, medical health and education facilities to nearby areas. The same is being and will be maintained by the company as a part of its CSR activities.</p> <p>Colony is present outside mine lease area. Additional manpower shall be accommodated in the existing colony if required.</p> <p>Small kiosks have been set up along the road side and in parking areas to serve the requirements of the drivers.</p>
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	The mine will close as per Mine Closure Plan, which will involve rehabilitation of mined out areas by plantation & development of void that will ultimately get converted into water reservoir.
9.3	Set a precedent for later developments	No	

Sl. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	There are 7 industries and mines in 10 km radius. The nature and range of the pollutants from mines is mostly related to localized air pollution, pollution due to transportation and impact on surface & ground water besides ecology and land.

(III) Environmental Sensitivity

(Refer **Annexure IX** for topography and features map of 15 km radius around ML)

Sl. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	As listed in point 2	
2.	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Water Bodies	
		Bhaga Nadi	within
		Tokari Nadi	0.5, N
		Kim Nadi	1.0, NW
		Ukai Right Bank Main canal	0.6, W
		Amrawati Nadi	8.5, N
		Dolutpura Main Canal	1.5, NW
		Kakadupura Right Bank Main canal	7.8, SSW
		Wasethi Branch	11.6, WSW
		Walesa Branch	14.2, WSW
		Kavery Nadi	13.6, N
		Kondhki Khadi	12.1, NW
		Vare Khadi	14.6, ESE
		Kevaliya Talav	12.0, NW
		Isur Dam	14.6, SE
		Ratadiya Talav	7.7, NNE
Kadva Talav	14.1, N		
	Forests		
	Kalnoi RF	9.9, SE	

Sl. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
		R F near Taked	8.6, SSE
		R F near Lindia	10.0, SE
		R F near Ratati	10.6, SE
		R F near Kantavav	7.4, SE
		R F near Vad	4.0, ESE
		R F near Kevdikund	7.6, ESE
		R F near Zankhvav	10.7, SE
		R F near Balethi	13.1, SE
		R F near Ghodbar	12.2, SE
		R F near Wadi	12.8, SE
3.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Forests are present as mentioned in point 2 above	
4.	Inland, coastal, marine or underground waters	Water bodies are present as mentioned in point 2 above	
5.	State, National boundaries	Nil	
6.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Roads	
		SH-166, Kosamba - Mangrol Valia	Within
		SH-165, Bahruch-Vansda Road	Within
		SH-13, Ankleshwar - Sagbara	6.7, N
		NH-48, Delhi-Mumbai-Chennai-	12.6, W
		SH-65, Sahol - Sagbara	10.3, SW
		NH-953, Vayara -Bodili	11.9, ESE
		Railway Line	
		Kosumba-Umarpada Western Railway Section	within
7.	Defense installations	Nil	
8.	Densely populated or built-up area	Mangrol Valia	0.2, E 6.7, N
9.	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of</i>	Hospitals, Schools, Community facilities are present within 10 km of	

Sl. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
	worship, community facilities)	the study area. List of amenities in Villages in 10 km as per Census 2011 is given in Annexure X .	
10.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil	
11.	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil	
12.	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	The project is not under actively seismic zone (Zone-III). The project area is not prone to floods, landslides or cloudburst etc.	

(IV) Proposed Terms of Reference for EIA studies: Refer Annexure XI

I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be revoked at our risk and cost.

Date: July 2, 2018
Place: Mangrol Valia, Gujarat



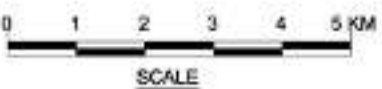
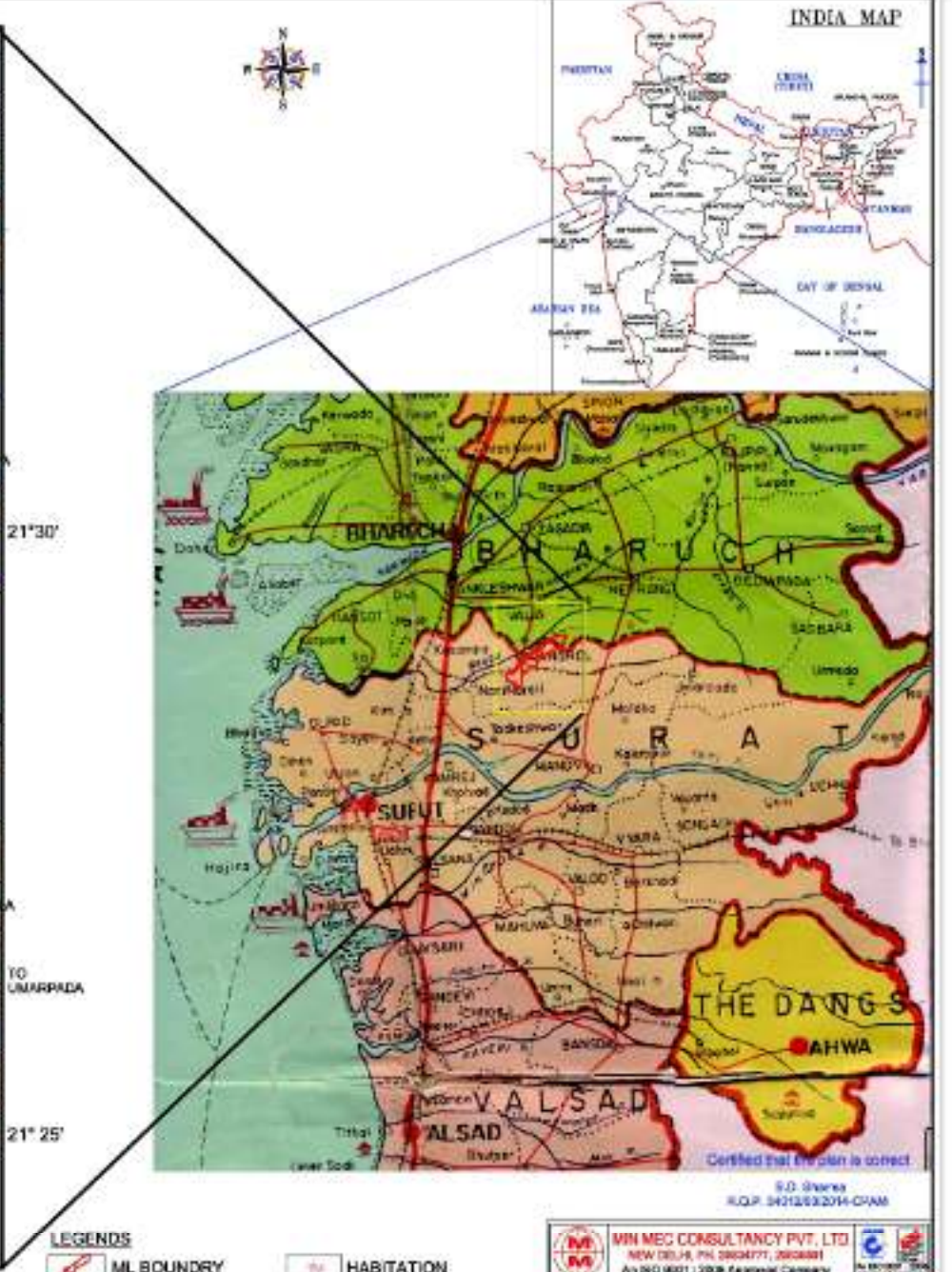
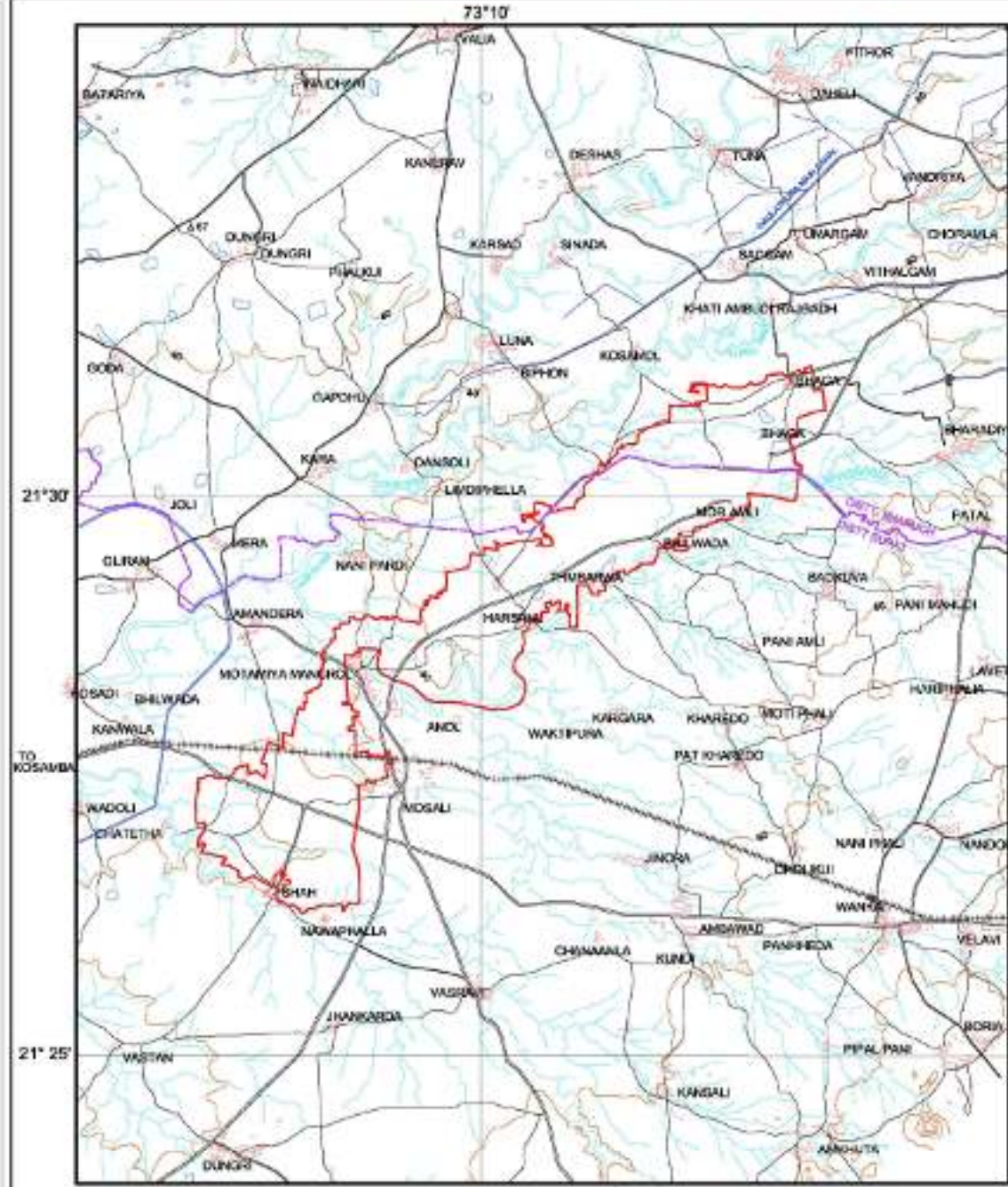
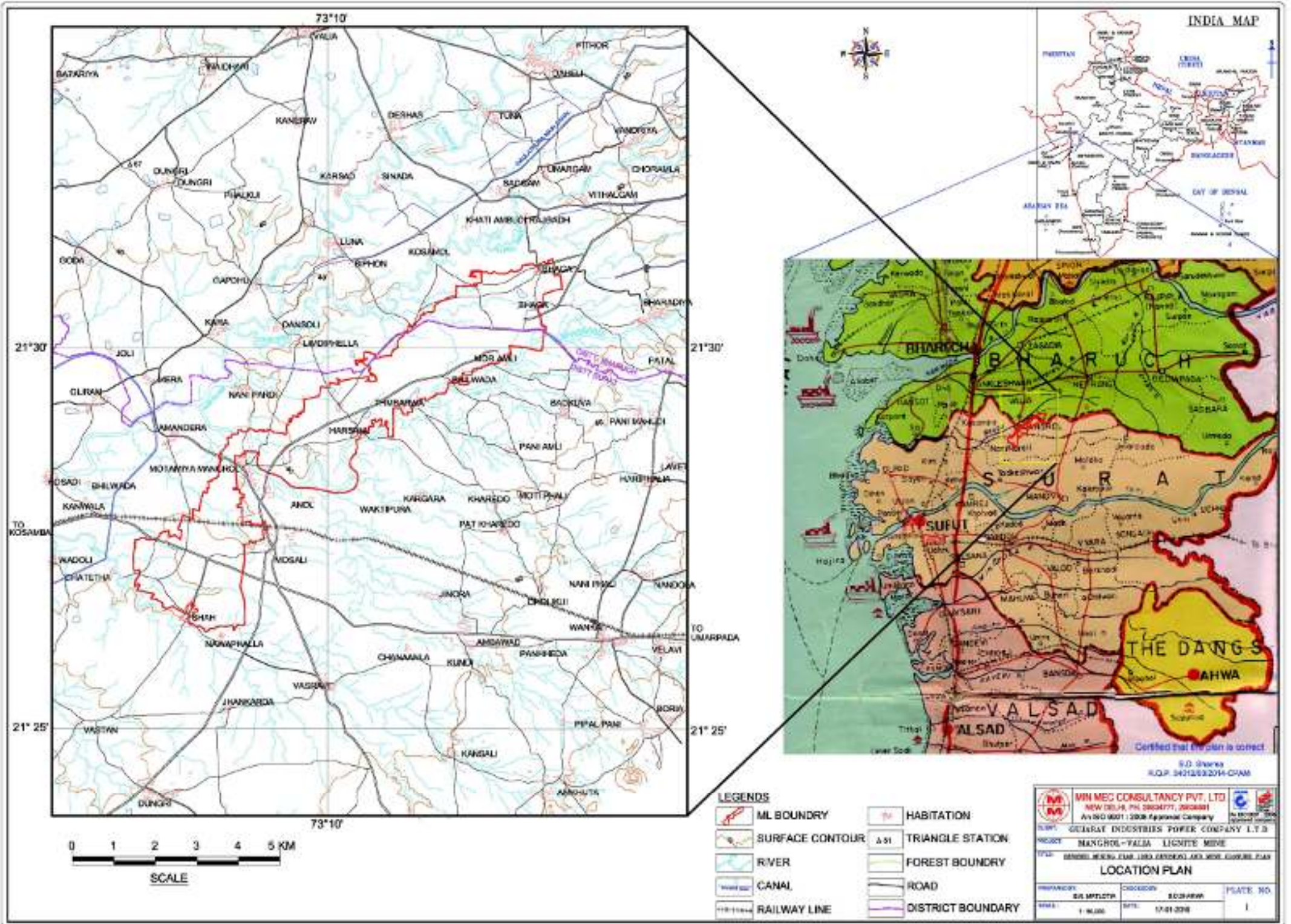
Signature of the Applicant

(Handwritten Signature)
N. K. Purohit

Chief General Manager (Mines)
Authorized Signatory
Village: Nani Naroli, Taluka: Mangrol,
Dist. Surat- 394110, Gujarat

LIST OF ANNEXURES FOR FORM-1

Annexure No.	Description
I	Location map
II	Khasra Map
III	EC letter of Power Plant
IV	Present working plan
V	Geological plan
VI	Geological sections
VII	Stage plan at end of life of mine (30 th year)
VIII	Post mine closure plan (33 rd year)
IX	Map showing study area 15 km radius around project
X	List of amenities in villages within 10 km radius
XI	Proposed Terms of Reference for EIA
XII	Authorized signatory through board resolution
XIII	Pre-feasibility Report



LEGENDS

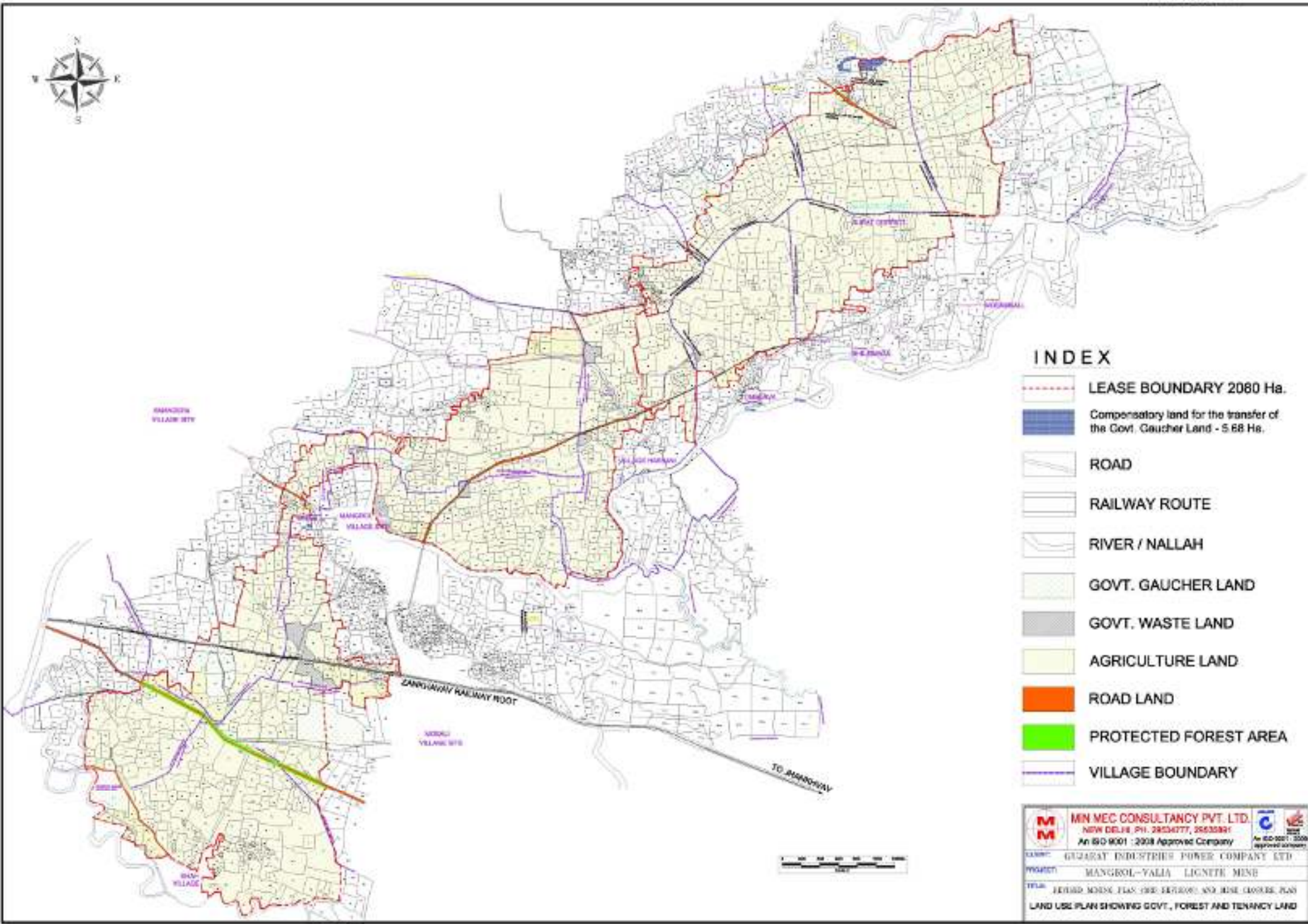
	ML BOUNDARY		HABITATION
	SURFACE CONTOUR		TRIANGLE STATION
	RIVER		FOREST BOUNDARY
	CANAL		ROAD
	RAILWAY LINE		DISTRICT BOUNDARY

MIN MEC CONSULTANCY PVT. LTD.
 NEW DELHI, PH: 2604777, 2604881
 An ISO 9001:2008 Approved Company

GSECL INDUSTRIES POWER COMPANY LTD.
 MANGROL-FALGA LIGHTED MINE

LOCATION PLAN

PROJECT NO.	DATE	SCALE	PLATE NO.
1-1000	17-01-2018	1:5000	1



INDEX

-  LEASE BOUNDARY 2080 Ha.
-  Compensatory land for the transfer of the Govt. Gaucher Land - 5.68 Ha.
-  ROAD
-  RAILWAY ROUTE
-  RIVER / NALLAH
-  GOVT. GAUCHER LAND
-  GOVT. WASTE LAND
-  AGRICULTURE LAND
-  ROAD LAND
-  PROTECTED FOREST AREA
-  VILLAGE BOUNDARY

	MIN MEC. CONSULTANCY PVT. LTD. NEW DELHI, PH. 28534777, 28533891	
	An ISO 9001 : 2008 Approved Company	
CLIENT:	GUJARAT INDUSTRIES POWER COMPANY LTD.	
PROJECT:	MANGROL-YALLA LIGNITE MINE	
TITLE:	FEASIBILITY STUDY, SITE DEVELOPMENT AND MINING PLAN	
	LAND USE PLAN SHOWING GOVT., FOREST AND TENANCY LAND	

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भारत सरकार

पर्यावरण एवं वन मंत्रालय

GOVERNMENT OF INDIA

MINISTRY OF ENVIRONMENT & FORESTS

पर्यावरण भवन सी० जी० कॉम्प्लेक्स

PARYAVARAN BHAWAN, C.G.O. COMPLEX

लोदी रोड, नई दिल्ली-110003

LODHI ROAD, NEW DELHI-110003

No. J-13011/18/93-IA-II

June 26, 1996

Office Memorandum

Subject : Lignite Based Power Project at Mangrol
(2x125 MW), District Surat, Gujarat -
Environmental Clearance - Reg.

(S/PP)
ef file
M/s. Gujarat Industries Power Company Ltd., may refer to their proposal on the subject mentioned above. The proposal has been examined and accorded clearance from environmental angle subject to effective implementation of the following conditions and environmental safeguards :

1. All the conditions stipulated by the Gujarat State Pollution Control Board shall be implemented effectively.
2. CFBC technology with lime injection shall only be adopted.
3. It shall be ensured that at least 90 per cent of SO₂ generated is absorbed at source and only the remaining one is allowed to pass through the stack.
4. A bi-flue stack of height 120 metres will be provided to ensure effective dispersal of gaseous pollutants and provision shall be made for continuous monitoring of stack emissions.
5. Closed circuit cooling with cooling towers shall be provided.

-2-

6. The treated liquid effluents shall be re-used to the extent possible.

7. Adequate precaution shall be taken to ensure that the noise levels do not exceed the prescribed standards. Workers in the high noise area will be provided with ear protection devices and their use by the workers shall be ensured.

8. High efficiency Electro Static Precipitators with efficiency not less than 99.8 per cent shall be provided to ensure that the particulate emission from the stack does not exceed 100 mg/Nm³.

9. Concerted efforts shall be made for utilisation of flyash right from the beginning. At least 20% of the ash generated shall be utilised during the first year which shall gradually increase by 10% every year so as to achieve 100% ash utilisation by the end of the ninth year.

10. A green belt of adequate width and tree density (1500-2000 trees/ha.) with suitably selected species shall be developed all around the power plant. At least one-third of the land area shall be covered under green belt. The guidelines issued by the Central Pollution Control Board for raising of green belt may be followed in this regard.

11. Regular monitoring of the air quality shall be carried out in and around the power plant and records maintained. A periodic report (six monthly) shall be submitted to this Ministry.

12. A separate environment monitoring cell with suitably qualified staff shall be set up for implementation of the environmental safeguards.

13. A half-yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry.

14. Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions.

15. Separate environmental clearance will be obtained from this Ministry for the linked mining project.

16. Separate funds should be allocated for implementation of environment protection measures along with itemwise breakup. These costs should be included as part of the project costs. The funds earmarked for environment protection measures should not be diverted for other purposes and yearwise expenditure should be reported to this Ministry.

II. The conditions stipulated may be varied or new ones added or the clearance revoked if felt necessary in the interests of environment protection.

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III. The stipulations will be implemented among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991 and the EIA Notification, 1994 along with the amendments made therein from time to time.



(S.K. Aggarwal)
Joint Director

To

The Managing Director,
Gujarat Industries Power Co. Ltd,
PO Petrofils-391347. Dist. Baroda

Gujarat.



Recd on 18/11/03
MJP

By Speed Post

No. J- 13011/17/2002.IA-II(T)

भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

10th November, 2003.

To

The General Manager,
Gujarat Industries Power Company Limited,
Village Nani Naroli, Taluk Mangrol,
Dist. Surat,
Gujarat - 394110.

Sub: 2x125 MW Surat Lignite Power Plant, Stage-II (units 3&4)
Expansion Project at village Nani Naroli, Distt. Surat, Gujarat of
M/s Gujarat Industries Power company Limited- Environmental
clearance regarding.

Sir,

The undersigned is directed to refer to your communications no. SLPP/Envt./MoEF/Ph.II/8169 dated 14.09.2002, SLPP/Envt./MoEF/Ph.II/11122 dated 14.12.2002, SLPP/Envt./FlyAsh/MoEF/11384 dated 24.12.2002, SLPP/Envt./MoEF/Ph.II/859 dated 28.01.2003, SLPP/Envt./MoEF/Ph.II/4694 dated 20.05.2003 on the above mentioned subject.

2. The proposal is regarding expansion of Surat Lignite Power plant by installation of two units of 125 MW each based on Circulating Fluidised Bed Combustion (CFBC) technology in the premises of existing power plant. The existing infrastructure facilities will be utilized. Lignite and Limestone requirement will be 5000 TPD and 4000TPD respectively. Full utilization of entire ash generated is envisaged by ten years. Capital cost of the project will be Rs. 998.71 Crores.
3. On the basis of the information submitted by the project proponent from time to time and after its consideration by the Expert Committee for Thermal Power Projects, environmental clearance is:

जहाँ है हरियाली।
वहाँ है खुशहाली।।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली-1100 03 सूचना सुविधा केन्द्र फोन : 24361669
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI-110003 website : <http://envfor.nic.in>

:2:

hereby accorded subject to implementation of following terms and conditions:

- i) All the conditions stipulated by Gujarat Pollution Control Board vide their letter no. PC/NOC/SRT-1091/25197 dated 05.09.2002 no. PC/SRT-1022/37644 dated 18.11.2002 should be strictly implemented.
- ii) Utilisation of land should be restricted to 98 ha which is already in possession of the project authorities.
- iii) SO₂ and NO_x will be controlled by use of CFBC technology through low temperature combustion for NO_x and limestone injection for SO₂ removal.
- iv) Water requirement for Stage II would be 20500 m³/day. The source of water will be Tapi river through intake well near Bodhan village. A closed cooling water system should be provided for the Plant to avoid thermal pollution of the water source. Efforts should be made to use recycled water to the maximum extent.
- v) A twin flue stack of 122 m with exist velocity of 19m/sec and exhaust gas temperature of 140°C should be provided with continuous on-line monitoring equipment and the data collected should be analysed and submitted regularly.
- vi) Lignite should be used @ 5000 TPD and Limestone @ 4000 TPD for the expansion project, having ash content of 15%, sulphur content of 1.12% and calorific value of 2658 kcal/kg. The lignite will be transported from the mine about 4 km away through enclosed belt conveyor system and limestone will be taken from captive Tadkeshwar mine.
- vii) Ash generated to the tune of 1200 TPD should be used in phased manner as per provisions of the notification on Fly Ash Utilisation issued by the Ministry in September, 1999 and its subsequent amendments.

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- viii) High efficiency Electro Static Precipitator (ESP) with 99.77% efficiency should be installed to limit outlet SPM emission to 150 ug/m³.
- ix) Both the units of 125 MW of stage-II should be retrofitted with dry fly ash collection for further use and backfilling of abandoned mines.
- x) A greenbelt in another 5 ha area should be developed for the proposed units in addition to 15 ha greenbelt area already developed for the existing units.
- xi) Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six monthly report should be submitted to this Ministry.
- xii) For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.
- xiii) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- xiv) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- xv) A half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office/CPCB/SPCB.

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- xvi) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact assessment Report and Management Plan should be forwarded to the Regional Office for their use during monitoring.
 - xvii) Separate funds should be allocated for implementation of environmental protection measures alongwith item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
 - xviii) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bhopal/the CPCB/the SPCB who would be monitoring the compliance of environmental status.
4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
 5. The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant. In case, if the project proponent fails to do so within this stipulated period, then the project proponent has to seek re-validation of the environmental clearance two months prior to expiry of the environmental clearance failing which the clearance accorded shall stand lapsed automatically.
 6. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(S) imposed and to add additional environmental protection measures required, if any.

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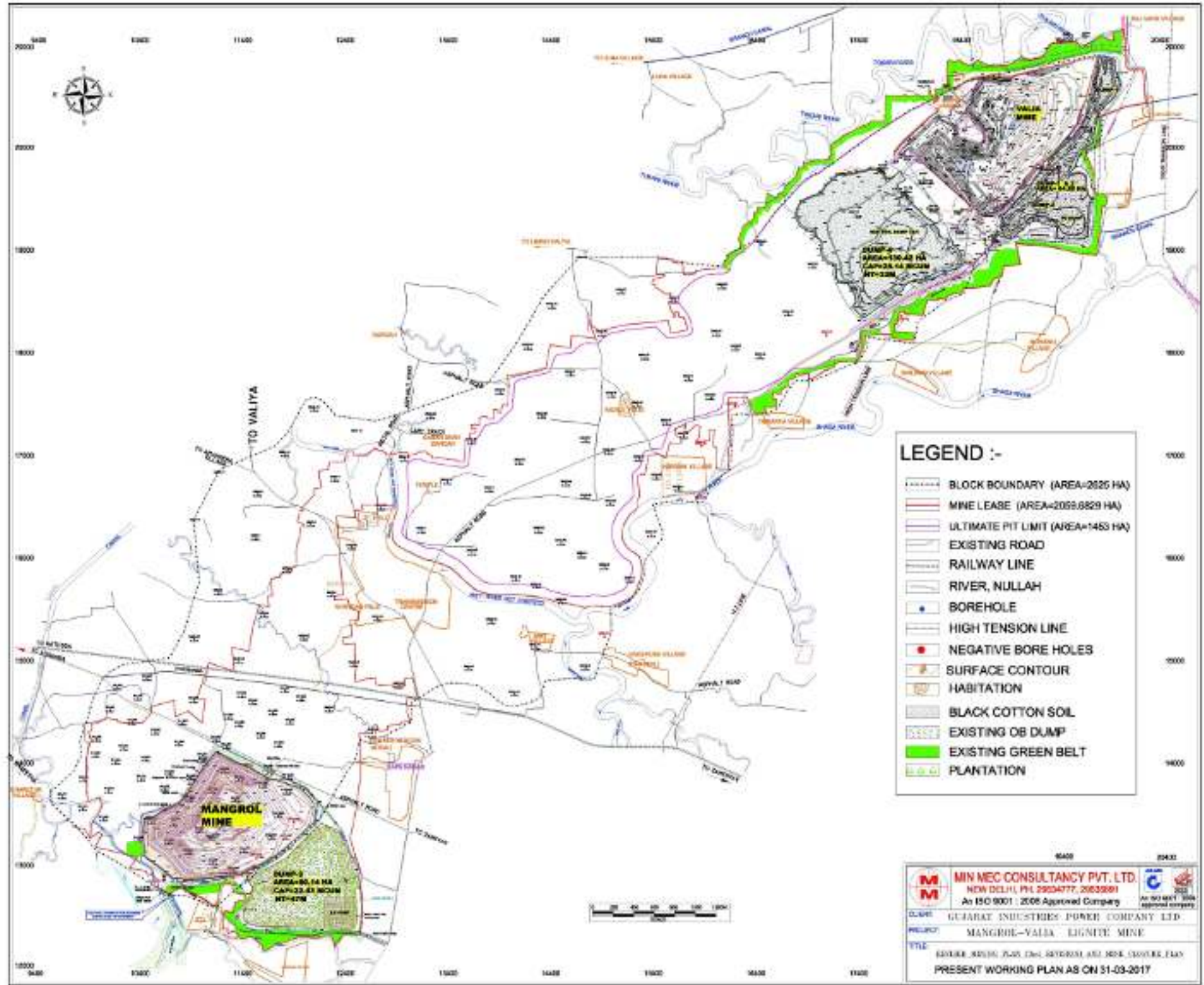
7. The above stipulations would be enforced among others under the Water(Prevention and Control of Pollution) Act, 1974, the Air(Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act,1991, the Environment Impact assessment Notification of January,1994 and its subsequent amendments.


(A. DURAISAMY)
DIRECTOR

Copy to:

1. Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. Secretary (Environment & Forests), Government of Gujarat, Gandhinagar-382001.
3. Chairman, Central Electricity Authority, Sewa Bhawan, R.K.Puram, New Delhi-110066.
4. Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhinagar-382010 with respect to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. Chief Conservator of Forests, Regional Office (WZ), Ministry of Environment & Forests, E-3/240, Arera Colony, Bhopal – 462016.
7. Sr. Advisor (EI), MOEF.
8. Guard file.
9. Monitoring file.

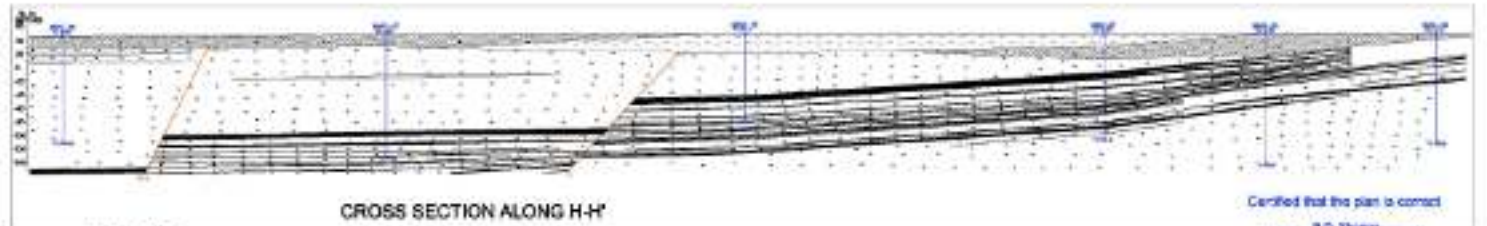
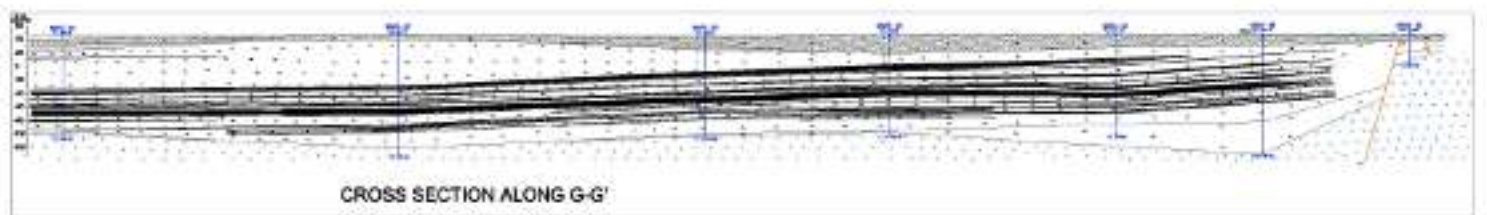
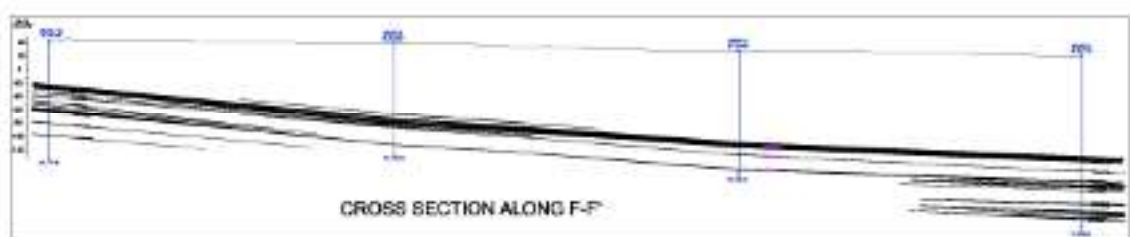
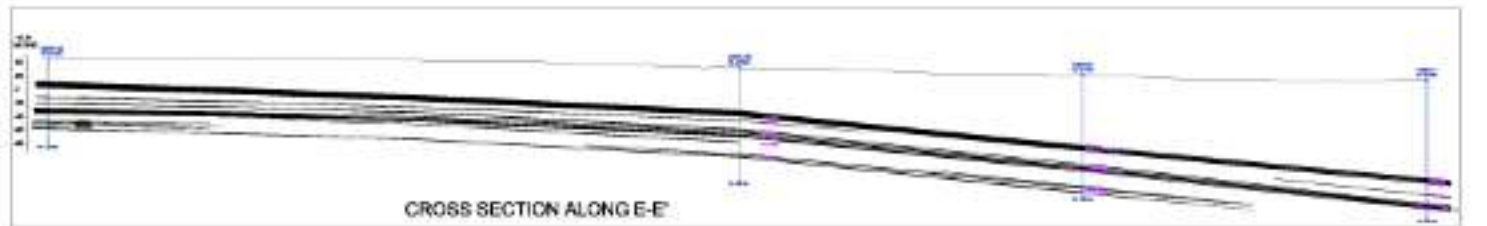
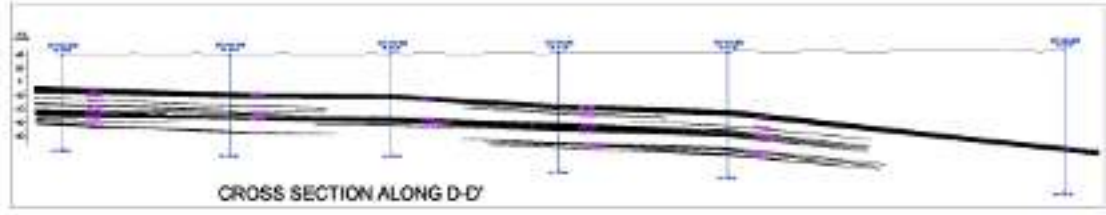
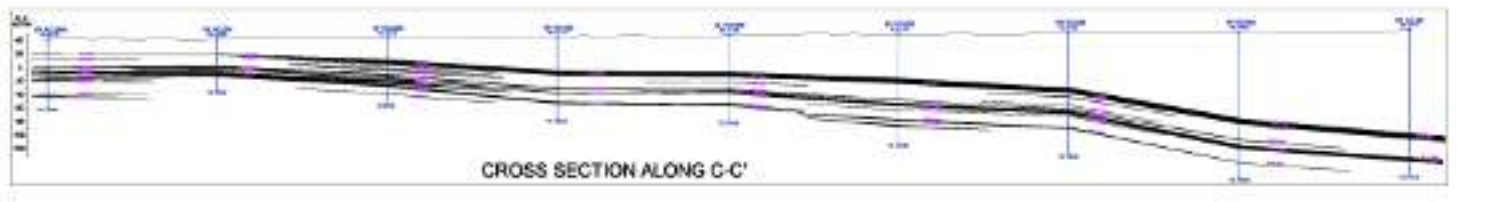
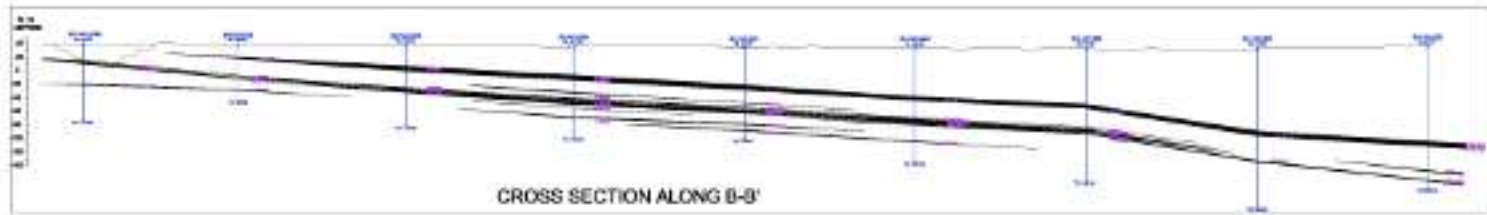
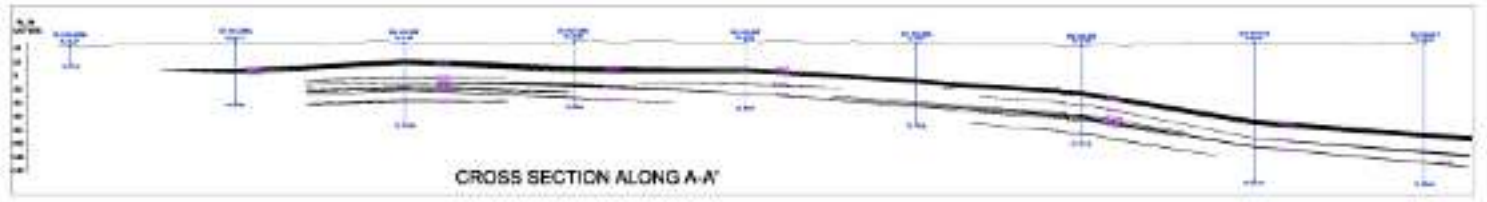

(A.DURAISAMY)
DIRECTOR



LEGEND :-

- BLOCK BOUNDARY (AREA=2626 HA)
- MINE LEASE (AREA=2059.6829 HA)
- ULTIMATE PIT LIMIT (AREA=1463 HA)
- EXISTING ROAD
- RAILWAY LINE
- RIVER, NULLAH
- BOREHOLE
- NEGATIVE BORE HOLES
- SURFACE CONTOUR
- HABITATION
- BLACK COTTON SOIL
- EXISTING OB DUMP
- EXISTING GREEN BELT
- PLANTATION

	MIN MEC CONSULTANCY PVT. LTD. NEW DELHI, PH: 2924777, 2923991 An ISO 9001 : 2008 Approved Company	
	CLIENT: GUJARAT INDUSTRIES POWER COMPANY LTD. PROJECT: MANGROL-VALIA LIGNITE MINE TITLE: SURFACE WATER PLAN FOR MANGROL AND VALIA COALFIELD, EMU PRESENT WORKING PLAN AS ON 31-03-2017	

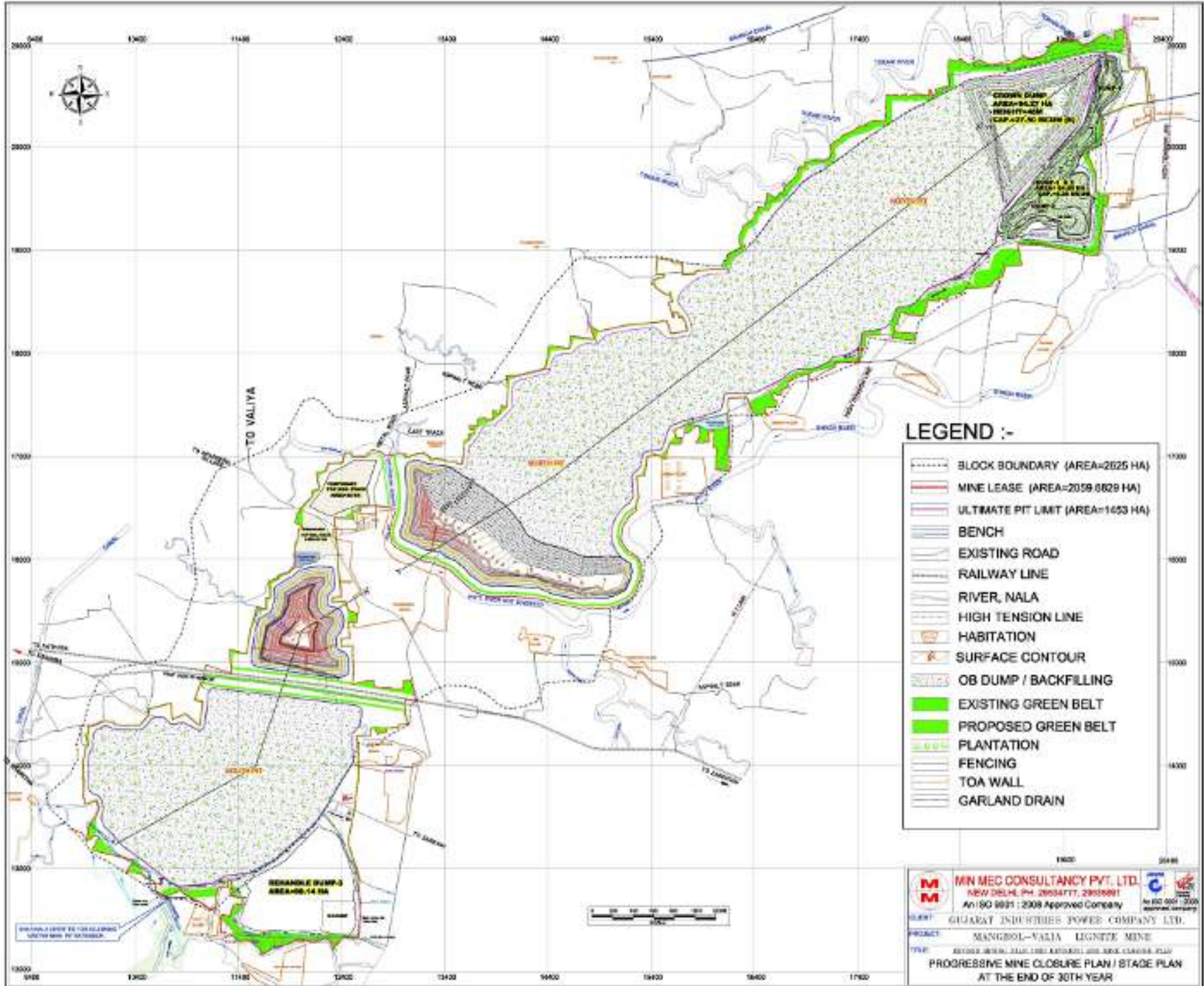


Certified that the plan is correct
 R.D. Sharma
 R.Q.P. 3401203214-07AM

LEGEND

- CL - CLAY
- BLACK COTTON SOIL
- SILT
- TRAP
- SAND CLAY
- BENTONITIC CLAY
- LIGNITE
- BORE HOLES
- TOTAL DEPTH
- FAULT

MN MEC CONSULTANCY PVT. LTD. NEW DELHI, PH: 26534777, 26535881 An ISO 9001 : 2008 Approved Company			
CLIENT: GUANAI INDUSTRIES PAPER COMPANY LTD. PROJECT: MANGROL-VALIA LIGNITE MINE WORK: GEOTECHNICAL DATA COLLECTION AND ANALYSIS FOR GEOLOGICAL CROSS SECTIONS			
PREPARED BY:	CHECKED BY:	DATE:	PLATE NO.
SK. MALHOTRA	S.D. SHARMA	17/11/2018	VI
SCALE:			
1 : 4000			



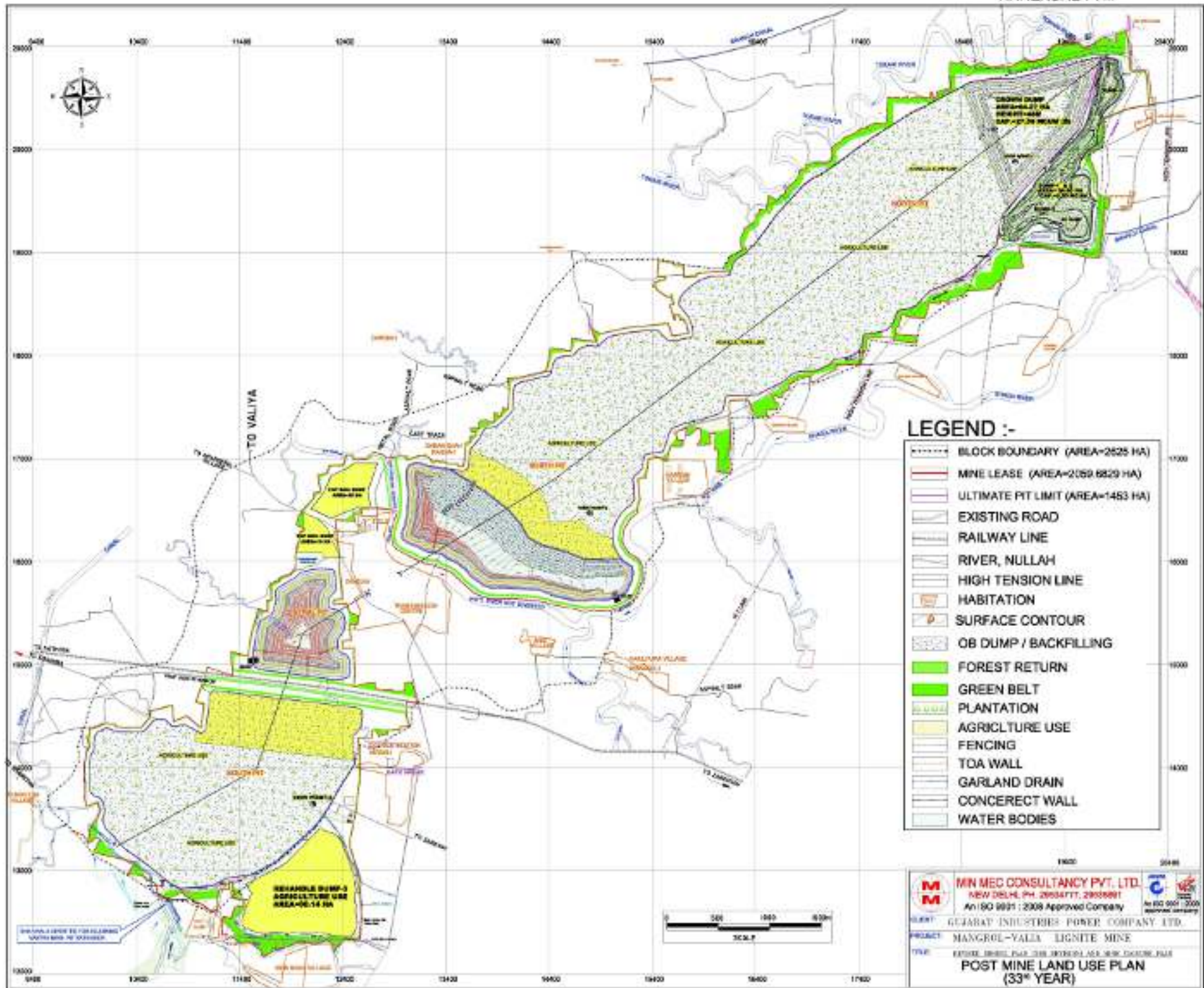
- LEGEND :-**
- BLOCK BOUNDARY (AREA=2625 HA)
 - MINE LEASE (AREA=2059.8629 HA)
 - ULTIMATE PIT LIMIT (AREA=1453 HA)
 - BENCH
 - EXISTING ROAD
 - RAILWAY LINE
 - RIVER, NALA
 - HIGH TENSION LINE
 - HABITATION
 - SURFACE CONTOUR
 - OB DUMP / BACKFILLING
 - EXISTING GREEN BELT
 - PROPOSED GREEN BELT
 - PLANTATION
 - FENCING
 - TOA WALL
 - GARLAND DRAIN

M MIN MEC CONSULTANCY PVT. LTD.
 NEW DELHI, PH. 29334771, 2933881
 An ISO 9001 : 2009 Approved Company

GIGANT INDIAN POWER COMPANY LTD.
 PROJECT: NANGOL-VALIYA LIGNITE MINE
 TITLE: PROGRESSIVE MINE CLOSURE PLAN / STAGE PLAN AT THE END OF 30TH YEAR

SCALE: 1:50,000





- LEGEND :-**
- BLOCK BOUNDARY (AREA=2625 HA)
 - MINE LEASE (AREA=2069.6829 HA)
 - ULTIMATE PIT LIMIT (AREA=1453 HA)
 - EXISTING ROAD
 - RAILWAY LINE
 - RIVER, NULLAH
 - HIGH TENSION LINE
 - HABITATION
 - SURFACE CONTOUR
 - OB DUMP / BACKFILLING
 - FOREST RETURN
 - GREEN BELT
 - PLANTATION
 - AGRICULTURE USE
 - FENCING
 - TOA WALL
 - GARLAND DRAIN
 - CONCRETE WALL
 - WATER BODIES



M MIN MEC CONSULTANCY PVT. LTD.
 NEW DELHI, PH. 26034771, 29038891
 An ISO 9001 : 2008 Approved Company

CLIENT: GUJARAT INDUSTRIES POWER COMPANY LTD.
PROJECT: MANGROL-YALIYA LIGNITE MINE
TYPE: POST MINE LAND USE PLAN (33RD YEAR)

APPROVED BY: [Signature]
 DATE: [Date]

SUMMARY OF AMENITIES AVAILABLE (CENSUS 2011) IN VILLAGES WITHIN THE STUDY AREA OF MANGROL VALIA LIGNITE MINE OF GIPCL, GUJARAT

AMENITIES	NOS.	AMENITIES	NOS.	AMENITIES	NOS.
EDUCATION FACILITIES		DRINKING WATER FACILITY		APPROACH TO VILLAGE	
PPS (Pre-Primary School)	1	TWT (Tap Water-Treated)	0	NH (National Highway)	6
PS (Primary school)	269	TWUT (Tap Water Untreated)	173	SH (State Highway)	49
MS (Middle school)	0	CW (Covered Well)	11	MDR (Major District Road)	119
SS (Secondary school)	25	UW (Uncovered Well)	114	ODR (Other District Road)	175
SSS (Sr. Sec. School)	10	HP (Hand Pump)	176	BTPR (Black Topped (pucca) Road)	178
DCAS (Deg. College Arts & Science only)	2	TW/ BW (Tube Wells/Borehole)	92	GCR (Gravel (kuchha) Roads)	158
EC (Engg. College)	2	S (Spring)	3	WBM (Water Bounded Macadam)	85
MC (Medicine College)	1	R/C (River/Canal)	98	AWR (All Weather Road)	157
MI (Management Institute)	0	T/P (Tank/Pond/Lake)	57	NWR/C (Navigable Waterways (River/Canal))	0
P (Polytechnic)	0	WO (Others)	2	FP (Foot Path)	185
VTS/ITI (Vocational Trg School/ITI)	5				
NFTC (Non Formal Training Centre)	0	COMMUNICATION SYSTEM		BANKS AND COMMERCIAL SOCIETIES	
SFD (School For Disabled)	0	PO (Post Office)	7	ATM (ATM)	2
EO (Others)	0	SPO (Sub Post Office)	71	CB (Commercial bank)	10
		P&T (Post & Telegraph office)	0	COB (Co-operative bank)	5
MEDICAL FACILITIES		PIN (Village PIN code)	185	ACS (Agricultural Credit Societies)	23
CHC (Community Health Centres)	3	T (Telephone (landline))	167	SHG (Self-Help Group (SHG))	183
PHC (Primary Health Centre)	14	PCO (Public Call Office/ Mobile PCO)	90	PDS (Public Distribution System (PDS))	75
PHSC (Primary Health Sub-Centre)	77	MPC (Mobile phone coverage)	183	M/RM (Mandis/Regular Market)	9
MCWC (Maternity And Child Welfare Centre)	0	IC/CSC (Internet Cafes/Common Service Centre)	166	WH (Weekly Haat)	7
TBC (TB Clinic)	1	PCF (Private Courier Facility)	1	AMS (Agricultural Marketing Society)	2
HA (Hospital Allopathic)	0			NCICDS (Nutritional Centres-ICDS)	2
HAM (Hospital Alternative Medicine)	1	TRANSPORT SYSTEM		NCAC (Nutritional Centres-Anganwadi Centre)	167
D (Dispensary)	2	PBS (Public Bus Service)	183	NCO (Nutritional Centres-Others)	185
VH (Veterinary Hospital)	3	PvtBS (Private Bus Service)	4	ASHA (ASHA)	164
MHC (Mobile Health Clinic)	0	RS (Railway station)	6	CC-TV (Community Centre with/without TV)	84
FWC (Family Welfare Centre)	1	MA (Auto/Modified Autos)	55		
NGMF-OP (Non Govt. Med. facilities Out Patient)	29	Taxi (Taxi)	9	SPORTS AND ENTERTAINMENT	
NGMF-IOP (Non Govt. Med. facilities In And Out Patient)	6	Van (Vans)	34	SF (Sports Field)	48
NGMF-C (Non Govt. Med. facilities Charitable)	3	T (Tractors)	154	SC/RC (Sports Club/Recreation Centre)	0
NGMF-MBBS (Non Govt. Med. facilities Medical Prctitioner with MBBS Degree)	12	CPR-Man (Cycle-pulled Rickshaws (manual driven))	0	C/VH (Cinema/Video Hall)	1
NGMF-OD (Non Govt. Med. facilities Medical Prctitioner with other Degree)	37	CPR-Mec (Cycle-pulled Rickshaws (machine driven))	26	PL (Public Library)	8
NGMF-ND (Non Govt. Med. facilities Medical Practitioner with no Degree)	7	CDA (Carts Drivens by Animals)	170	PRR (Public Reading Room)	9
NGMF-TPFH (Non Govt. Med. facilities Traditional Practitioner and Faith Healer)	62	S/R/FS (Sea/River/Ferry Service)	0	DNS (Daily Newspaper Supply)	181
NGMF-MS (Non Govt. Med. facilities Medicine Shop)	18			APS (Assembly Polling Station)	182
NGMF-O (Non Govt. Med. facilities Others)	0	POWER SUPPLY		BDRO (Birth and Death Registration Office)	172
		PSDU (Power Supply For Domestic Use)	185		
		PSIAU (Power Supply ForAgriculture Use)	185		
		PSCU (Power Supply For Commercial Use)	0		
		PSALL (Power Supply For All Users)	185		

SUMMARY OF AMENITIES AVAILABLE (CENSUS 2011) IN TOWNS WITHIN THE STUDY AREA OF MANGROL VALIA LIGNITE MINE OF GIPCL, GUJARAT

AMENITIES	NOS.	AMENITIES	NOS.	AMENITIES	NOS.
EDUCATION		Private-MS Office (Nos.)	0	WATER SUPPLY AND SANITATION	
Govt. Primary School (Nos.)	1	Govt.-Desk Top Publishing (Nos.)	0	Latrines-Pit (Nos.)	0
Private Primary School (Nos.)	1	Private-Desk Top Publishing (Nos.)	0	Latrines-Flush/Pour Flush (Nos.)	218
Govt. Middle School (Nos.)	0	Govt.-Vocational(Others) (Nos.)	0	Latrines-Service (Nos.)	0
Private Middle School (Nos.)	0	Private-Vocational(Others) (Nos.)	0	Latrines-Others (Nos.)	0
Govt. Secondary School (Nos.)	0	Govt.-Non Formal Education (Nos.)	0	Protected Water Supply Source-1	0
Private Secondary School (Nos.)	1	Private-Non Formal Education (Nos.)	0	Capacity Source-1 (KL)	15500
Govt. Senior Secondary School (Nos.)	0	Govt.-Special School for Disabled (Nos.)	0	Protected Water Supply Source-2	0
Private Senior Secondary School (Nos.)	1	Private-Special School for Disabled (Nos.)	0	Capacity Source-2 (KL)	0
Govt. Degree College-Art Only (Nos.)	0	Govt.-Others(Specify) (Nos.)	0	Protected Water Supply Source-3	0
Private Degree College-Art Only (Nos.)	0	Private-Others(Specify) (Nos.)	0	Capacity Source-3 (KL)	0
Govt. Degree College-Science Only (Nos.)	0	MEDICAL		Protected Water Supply Source-4	0
Private Degree College-Science Only (Nos.)	0	Hospital Allopathic (Nos.)	0	Capacity Source-4 (KL)	0
Govt. Degree College-Commerce Only (Nos.)	0	Hospital Alternative Medicine (Nos.)	0	Protected Water Supply Source-5	0
Private Degree College-Commerce Only (Nos.)	0	Dispensary/Health Centre (Nos.)	1	Capacity Source-5 (KL)	0
Govt. Degree College-Art and Science Only (Nos.)	0	Family Welfare Centre (Nos.)	0	TRANSPORT	
Private Degree College-Art and Science Only (Nos.)	0	Maternity and Child Welfare Centre (Nos.)	0	Bus Route Road Distance (in kms.)	10
Govt. Degree College-Art and Commerce Only (Nos.)	0	Maternity Home (Nos.)	0	Pucca Road Length (in kms.)	4.5
Private Degree College-Art and Commerce Only (Nos.)	0	Maternity Home Nearest facility Distance (in kms.)	10	Kutchha Road Length (in kms.)	1
Govt. Degree College-Art,Science and Commerce (Nos.)	0	T.B. Hospital/ Clinic (Nos.)	0	ENTERTAINMENT AND COMMODITY	
Private Degree College-Art,Science and Commerce (Nos.)	0	Nursing Home (Nos.)	0	Govt.-Stadium (Nos.)	0
Govt. Degree College-Law (Nos.)	0	Veterinary Hospital (Nos.)	0	Private-Stadium (Nos.)	0
Private Degree College-Law (Nos.)	0	Mobile Health Clinic (Nos.)	0	Govt.-Cinema Theatre (Nos.)	0
Govt. Degree College-University (Nos.)	0	Others (Nos.)	0	Private-Cinema Theatre (Nos.)	0
Private Degree College-University (Nos.)	0	Non-Government Out-Patient (Nos.)	0	Govt.-Auditorium/Community Hall (Nos.)	0
Govt. Degree College-Others (Nos.)	0	Non-Government In and Out Patient (Nos.)	0	Private-Auditorium/Community Hall (Nos.)	0
Private Degree College-Others (Nos.)	0	Non-Government Charitable-Hospital/Nursing Home (Nos.)	0	Govt.-Public Library (Nos.)	1
Govt.-Medical College (Nos.)	0	Non-Government Medicine Shop (Nos.)	0	Private-Public Library (Nos.)	0
Private-Vocational(Others) (Nos.)	0	ELECTRICITY		Govt.-Public Reading Room (Nos.)	0
Govt.-Engineering College (Nos.)	0	Electricity-Domestic Connection (Nos.)	397	Private-Public Reading Room (Nos.)	0
Private-Engineering College (Nos.)	0	Electricity-Industrial Connection (Nos.)	2	Manufactured Commodity (First)	0
Govt.-Management Institute (Nos.)	0	Electricity-Commercial Connection (Nos.)	0	Manufactured Commodity (Second)	0
Private-Management Institute (Nos.)	0	Electricity-Road Lighting Connection (Nos.)	154	Manufactured Commodity (Third)	0
Govt.-Polytechnic (Nos.)	0	Electricity-Others Connection (Nos.)	0	HELP HOMES	
Private-Polytechnic (Nos.)	0	FINANCIAL		Govt.-Orphanage Home (Nos.)	0
Govt.-Shorthand (Nos.)	0	Nationalised Bank (Nos.)	0	Private-Orphanage Home (Nos.)	0
Private-Shorthand (Nos.)	0	Private Commercial Bank (Nos.)	0	Govt.-Working Women's Hostel (Nos.)	0
Govt.-Typewriting (Nos.)	0	Co-operative Bank (Nos.)	0	Private-Working Women's Hostel (Nos.)	0
Private-Typewriting (Nos.)	0	Agricultural Credit Society (Nos.)	0	Govt.-Old Age Home (Nos.)	0
Govt.-Shorthand and Typewriting (Nos.)	0	Non-Agricultural Credit Society (Nos.)	1	Private-Old Age Home (Nos.)	0
Private-Shorthand and Typewriting (Nos.)	0	FIRE FIGHTING			
Govt.-MS Office (Nos.)	0	Fire Fighting Service (Status A(1)/NA(2))	0		

PROPOSED TERMS OF REFERENCE FOR EIA STUDY

The final EIA report was already prepared and submitted to MOEF&CC on 02.01.2014 (dt.19.12.14) after Public hearing which was conducted on 02.05.2013 & 05.04.2013 in Surat and Bharuch district respectively for a capacity expansion from 4.2 to 7.4 MTPA and ML area expansion from 2080 to 3019 ha. The present proposal is for amendment of the above mentioned proposal from 4.2 to 5.4 MTPA in the same ML area of 2080 ha (without increase). Since 5.4 MTPA is a lower capacity than 7.4 MTPA and the area of 2080 is less than 3019 ha, on which public hearing was held, the MOEF&CC is requested to consider the same public hearing as conducted on 02.05.2014 & 05.04.2013 in Surat and Bharuch district respectively.

However, as the baseline data is more than three years old as on date and project parameters have also changed, the terms of reference on the basis of which the EIA will be prepared are given below:

1.0 DATA GENERATION

The data that will be generated during Post Monsoon Season from October to December 2018 by NABL/ MOEF&CC accredited laboratory in accordance with the requirement of statutory agencies is given in Table 1. The monitoring and testing will be done as per the guidelines of MOEF and the IS standards. Monitoring will be conducted for the following parameters:

TABLE 1 : DATA GENERATED

Sl. No.	Description	No. of locations	Total No of Samples
1.0	AIR Ambient air monitoring (24 hourly samples), twice a week for 3 months for one season Parameters : PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO	16	384
1.1	Meteorological parameters will be measured at hourly duration simultaneously at one air monitoring station for 3 months. Parameters: Temperature, Relative humidity, Rainfall, wind speed, wind direction, cloud cover	1	90 days
2.0	WATER Water samples to be collected from various locations (surface and ground water) in core and buffer zone (10 km radius). Parameters tested for physical and chemical and biological parameters as well as according to applicable standards	Ground water 8 and surface water 6 samples	14
3.0	SOIL	6	6
4.0	NOISE Hourly readings taken for 24 hours (Leq)	10	10
5.0	TRAFFIC DENSITY	1	1 sets

2.0 DATA COLLECTION

10 km radius (buffer zone), both of which comprising the 'study area'. The following data, through field survey and other sources will be updated by consultant for preparing the EIA/EMP of the proposed project with related facilities:

- i Study of fauna, flora, forests and cropping pattern.
- ii Major habitats, ecologically sensitive areas, biosphere reserves, wildlife sanctuaries within 10 km of the project site.
- iii Major industries and places of historical/ archaeological importance.
- iv Land use pattern within core zone and buffer zone.
- v Geo-hydrological aspects based on available data from various secondary sources.
- vi Demography and socio-economic status based on last available census data for the entire study area.
- vii Relevant meteorological data for the previous decades from Indian Meteorological Department (IMD).
- viii Identification of water bodies, hills, roads etc.
- ix In case of operational projects, emission data and details of implemented pollution control systems.

3.0 PREPARATION OF EMP

The EMP will be prepared for expansion from 4.2 to 5.4 MTPA and will include the following details:

- a. Study of the reports, like Project report, mining plan available with the client regarding the project.
- b. Present Environmental Setting

The base line data generated and collected as per para 1.0 and 2.0 will be used to establish the present environmental scenario.
- c. Identification, prediction and evaluation of Anticipated Environmental Impacts due to the Proposed project and related facilities

The environmental impacts would be anticipated in core and buffer zone on:

- Topography
- Climate
- Water resources & quality (Surface/Ground)
- Air Quality
- Noise Levels
- Flora and Fauna
- Traffic density
- Land-Use
- Socio-Economic Conditions
- Habitats
- Health, culture, human environment including public health
- Occupational health and safety
- Sensitive Places/Historical Monuments

The impacts would be anticipated based on experience of similar projects.

- d. Proposed Environmental Safeguards and Monitoring Mechanism

Relevant guidelines, as per Environmental Impact Assessment (EIA) Notification no. S.O. 1533 dated the 14th September, 2006 and its amendments till date

under the Environment (Protection) Act, 1986, will be kept in mind while spelling out mitigation measures. The following aspects would be covered.

- i Reclamation of areas disturbed during construction but not required for any activity during operation.
- ii Measures to control the surface and ground water pollution due to various effluents to be discharged.
- iii Measures to control air pollution due to proposed activities/ operation.
- iv Green belt development and identification of flora species which can be planted in and around the project.
- v Measures to contain noise pollution and mitigate adverse impact on workers and habitat in core and buffer zone.
- vi Pronounce the improvement in socio-economic conditions and benefits the people will get on implementation of the project.
- vii Measures to control health hazard of workers and surrounding population.
- viii Total and specific cost of implementation of pollution control measures.
- ix Environmental monitoring, implementation organization and feedback mechanism to effect mid course corrections.
- x Solid Waste Management

The experience of similar project(s) will be made use of for envisaging the pollution control measures by pronouncing the success in the past.

The EIA report shall be prepared as per the generic structure prescribed in MOEF Notification dated 14.09.2006 with following chapters:

1. An introduction covering background, location, surrounding features, compliance to TOR and salient features (Chapter 1)
2. Study of the approved mining plan (to prepare Chapter 2).
3. Present Environmental Setting
The base line data generated by NABL/ MOEF accredited lab will be used to establish the present environmental scenario. (Chapter 3)
4. Identification, prediction and evaluation of Anticipated Environmental Impacts due to the Mining and related facilities (Chapter 4)
5. Justification of project technology (Chapter 5)
6. Environmental monitoring and control mechanisms with budget (Chapter 6) which will include
 - Total investment for improving/mitigating environment
 - Recurring expenditure during stage of production
7. Additional studies – Public consultation, Risk Assessment or any other study prescribed in TOR (Chapter 7)
8. Project benefits and commitment of the company to social welfare in surrounding areas (Chapter 8)
9. EMP (Chapter 9)
10. Summary & Conclusion (Chapter 10)
11. Disclosure of consultants engaged (Chapter 11)



**GUJARAT INDUSTRIES POWER COMPANY LIMITED
VADODARA**

ABSTRACTS OF MINUTES OF 244th MEETING OF THE BOARD OF DIRECTORS OF THE COMPANY HELD ON WEDNESDAY, 30TH MAY, 2012 AT 3.00 PM AT CONFERENCE ROOM, ENERGY & PETROCHEMICALS DEPT., BLOCK NO. 5, 5TH FLOOR, NEW SACHIVALAYA, GANDHINAGAR – 382 010.

3737 TO AUTHORIZE EXECUTIVE DIRECTOR (SLPP) AND GENERAL MANAGER (MINES) TO DEAL WITH ALL GOVERNMENT ORGANIZATIONS / DEPARTMENTS.

“RESOLVED THAT in supersession of the Board Resolution No.3537 dated 4th August, 2010, Shri S L Bose, Executive Director (SLPP) and Shri N K Purohit, General Manager (Mines) be and are hereby authorized severally and individually to represent the Company and to do all the things and deeds required including but not limited to sign, execute, file, make, submit, amend, withdraw, applications, deeds, documents, writings, to obtain approvals, permissions, licenses, memorandums, amendments etc. and to deal in all the matters of SLPP and Mines, with various Central Govt. and State Govt. Authorities, Departments, Organizations, Undertakings and all other Offices connected there with from time to time”.

**CERTIFIED TRUE COPY
FOR GUJARAT INDUSTRIES POWER CO. LTD.**

Date: 03/05/2013

Place:Vadodara

CS A C Shah

Company Secretary & DGM(Legal)

M/S GUJARAT INDUSTRIES POWER COMPANY LTD.

SLPP, AT & Post Nani Naroli; Taluka: Mangrol, District: Surat, Gujarat.
Phone: 02629-261087; Email: cgmmineoffice@gipcl.com

PRE-FEASIBILITY REPORT FOR MANGROL-VALIA LIGNITE MINE

AT

VILLAGES: MANGROL, SHAH, CHEREETHA, AMANDERA,
HARSANI, TIMBERWA, BHILWADA, NANI PARDI, LUNA,
DANSOLI, RAJGARH AND KOSMADI

DISTRICTS: SURAT AND BHARUCH

STATE: GUJARAT

{[EXTENT: 2059.6829 HA.] (CAPACITY: 5.4 MTPA)}

JUNE 2018

(Issue 1, Rev 0)

Prepared by:



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An ISO 9001:2008
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PRE-FEASIBILITY REPORT

1.0 EXECUTIVE SUMMARY

The salient features of the project are given below:

Project name	Mangrol-Valia Lignite Mine					
Project proponent	M/s Gujarat Industries Power Company Ltd. (GIPCL)					
Villages in the ML area	Mangrol, Shah, Cheretha, Amandera, Harsani, Timberwa, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh and Kosmadi in Mangrol and Valia Taluka of Districts Surat and Bharuch, respectively.					
Latitude (N)	21 °23'29.5" to 21 °31'16.3"					
Longitude (E)	73 °04'40.5" to 73 °12'44.0"					
Total ML Area	2059.6829 Ha.					
Existing land use pattern	Present Land Use of ML area as on 01-04-2017:					
	Sl. No.	Particulars	Area in Hectares			
			North Pit	Central Pit	South Pit	Total Area
	1	Mining Pit	150.00	0.00	134.53	284.53
	2	Dumps including top soil dump*	197.00	0.00	80.14	277.14
	3	Infrastructure (Site office, Contractor's Camp, First Aid Centre, Shelters, Pumping Station, Lignite Crusher, Lignite Stack, Weighbridge, Electric Substation)	0.42	0.00	3.48	3.90
		Sub Total (1 to 3)	347.42	0.00	218.15	565.57
	4	Green Belt (common for all pits)				129.97
	5	Service Road, Lignite Transport Road (Common for all pits)**				9.92
	6	Settling Pond				3.45
		Sub Total (4 to 6)				143.34
		Total Disturbed Area (1 to 6)				708.91
	7	Undisturbed area (out of 2059.6829 ha)				1350.7729
	Total ML/ Project area				2059.6829	
	* Top soil dump area near North Pit is 20 Ha (part of OB dump) and near South pit is 10 Ha (Part of OB dump).					
	** Out of 9.92 Ha, 3.00 Ha belongs to North pit and 6.92 Ha belongs to South pit.					
Lignite Reserve	Reserves				Amount (Mt)	
	Mineable Reserves				163.29	
	Extracted Lignite up to 31-03-2017				15.01	
	Balance Extractable reserve as on 01-04-2017				148.28	
Rated capacity	5.4 MTPA					
Life of the mine	30 years considering 2017-18 as the 1st year. (38 years since the start of production (2009))					
Stripping ratio	5.78 cum/t (since inception)					

Total Waste Generation	8.72 MCum (B) (Top soil) 934.97 MCum (B) (OB)
Method of Mining	Opencast mechanized mining
Blasting	Not required as the strata is soft
Working days	3 shifts of 8 hour each for 270 days
Manpower	1279 (total after expansion)
Transportation	By road through dumpers
Expected cost of the project	Rs. 760.00 Crores
Water requirement	736 KLD (633 KLD Industrial and 103 KLD potable water)
Source of water	The mine sump for industrial and ground water for potable
Power requirement	The power requirement of the mines will be 2000 KVA. It will be met from 11 KV Mangrol and Valia sub stations of DGVCL.
Power source	11 KV DGVCL's Mangrol & Valia Sub- Station

2.0 INTRODUCTION

2.1 Identification of project and project proponent

Project: Mangrol-Valia Lignite Mine

GIPCL is operating Mangrol-Valia Lignite Mine in villages Mosali, Mangrol, Shah, Charetha, Amandera, Harsani, Timberwa, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh and Kosmadi in Mangrol and Valia Taluka of Districts Surat & Bharuch since December, 2009. The Mine got Environment clearance from Ministry of Environment and Forest vide letter No. J-11015/38/99-IA.II(M) dated July 231, 2003 for 4.2 MTPA in an area of 2059.6829 Ha. Lignite from the mine is being used for Surat Lignite Power Plant (SLPP) Station-1 of 2X125 MW and SLPP Station-2 of 2X125 MW at Nani Naroli, Dist. Surat. The distance of the power plant from South Pit (Mangrol area) and North Pit (Valia mine) is 6 km and 18 km respectively.

The 1st Mining Plan (2000 version) was approved for a production of 4.2 MTPA over an area of 2080 ha, on the basis of which an ML of 2059.6829 ha was granted.

Subsequently, with the increased forecast of demand of the additional 600 MW TPS, an additional area was sought and the 2nd (2009 version) and the 3rd (2015 version) Mining Plans were approved for 7.4 MTPA for an area of 3710 ha and 3019 ha respectively. The lesser area in the 3rd Mining Plan was arrived by reducing dump area as suggested by MoEF&CC's Expert Appraisal Committee.

The Mining Plans for the expansion capacity could not be implemented due to pending environmental clearance; and on account of non acquisition of additional 959.00 Ha area of the additional applied leases, the decision for one of the approved end use plants, viz. Phase-2 SLPP 2X300 MW, has been deferred indefinitely. Now, GIPCL has decided to setup additional

2x125 MW units instead of 2x 300 MW as Phase-2 expansion of SLPP. Therefore, coal requirement has been revised downwards to 5.4 MTPA.

Therefore, a Revised Mining Plan and Mine Closure Plan (3rd Revision) has been planned for 5.4 MTPA with reduced land requirement of 2059.6829 Ha. This mining lease area had already been granted subsequent to the approval of 1st Mining Plan (2000). However, the depth of Mining has been increased from 110 m to 150 m in line with the Revised Approved Mining Plan (2015).

Project proponent

GIPCL was incorporated in 1985 as Public Limited Company under the auspices of Government of Gujarat. The company is engaged in business of Electrical Power Generation. The total installed capacity of GIPCL is 1009.4 MW inclusive of Thermal, Wind and Solar Power Plant and ordered for expansion of another 75 MW Solar Power Plant. The company has a vision to transform itself into a national level power sector enterprise. The company is having its registered office at P.O. Petrochemical, Vadodara, Gujarat.

It commissioned its first power project, a 145 MW gas based Combined Cycle Power Plant in February, 1992 at Vadodara. Power from this plant is distributed to its promoters in proportion to their original equity holding. The company has set up 112.4 MW capacity of Wind Power Projects as on 31.03.2017 in the State of Gujarat at different sites. (Source:<http://www.gipcl.com/company-profile.htm>, accessed on 05.05.2018)

Lignite for the Power Plant is obtained from captive lignite mines operated by GIPCL at Vastan and Mangrol-Valia in Surat District and Bharuch Districts, respectively. (source: *Revised Mining Plan (3rd Revision) and Mine Closure Plan for Mangrol-Valia Lignite Mine, 2018*)

2.2 Brief description of nature of the project

Mangrol-Valia is a Lignite mine and is an operation mine since December 2009, over an area of 2059.6829 Ha by GIPCL in village Mangrol, Shah, Charetha, Amandera, Harsani, Timberwa, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh and Kosmadi in Mangrol and Valia Talukas of Districts Surat and Bharuch, respectively. The project falls under category "A" and item 1(a) as per Schedule of EIA Notification 2006. Mining is being and will be carried out through mechanized opencast mining with HEMM like diesel hydraulic shovels/ dumpers for waste removal and lignite production.

2.3 Need for the project and its importance to the country and or region

Lignite, often referred to as brown lignite, is a soft, brown, combustible, sedimentary rock formed from naturally compressed peat. It has a carbon content around 60–70 percent. Indian lignite deposits occur in the Tertiary sediments in the southern and western parts of peninsular shield

particularly in Tamil Nadu, Puducherry, Kerala, Gujarat, Rajasthan and Jammu & Kashmir. In view of (1) rapidly increasing demand for energy, (2) non availability of lignite deposits for exploitation in the above mentioned states, (3) problems faced in the lignite transportation from far off lignite fields and (4) high cost involved in lignite transportation over a long distance, the scope of using lignite as an alternative source of energy is immense. It is, therefore, considered advantageous to develop lignite mines in these states and utilize them for generation of power as well as for meeting the energy of other industries.

(Source <https://researchreports.careratings.com/industries/annual-review/industry-section-29-2014/lignite-81.html> accessed on 15.05.2018)

The total geological resource of lignite of the country stands at 44,698.14 million tonne as on 01.04.2017. Bulk of the lignite resource of Gujarat (0.71 billion tonne) is found to occur within 150 m depths. (Source: <https://gsi.gov.in/cs/groups/public/documents/document/b3zp/mtyx/~edisp/dcport1gsgiovi161863.pdf> accessed on 14.05.2018)

During the year 2012-13, the production of lignite at 46.5 million tonnes increased by 9.7% in comparison to that of the previous year. The production from Tamil Nadu alone accounted for 53.5%. The share of Gujarat in lignite production was 31.3% and that of Rajasthan was 15.2 percent. 27 captive lignite blocks with 1,996.8 million tonnes geological reserves have been allocated in Gujarat (12) and Rajasthan (15) till 31.3.2013. In Gujarat, 5 blocks (701.70 million tonnes) are allocated for power generation and 7 blocks (343.60 million tonnes) for commercial end use. Out of the total 16 mines for lignite that reported production in 2012-13, seven are located in Gujarat, six in Rajasthan and remaining three in Tamil Nadu.

(Source:http://ibm.nic.in/writereaddata/files/01192015114434IMYB_2013_Vol%20III_lignite%202013.pdf assessed on 15.05.2018)

2.4 Demand-supply gap

The XII Plan Working Group for lignite has assessed a lignite demand of 980.50 million tonnes by terminal year i.e. 2016-17. The indigenous lignite supply projection in the terminal year is projected to be 715 million tonnes. The demand-supply gap emerging from these projections would be 265.50 million tonnes, which would have to be met by imports of 35.50 million tonnes of coking lignite and 230 million tonnes of non-coking lignite. The quantum of despatches of lignite was 46.3 million tonnes during the year 2012-13, which was higher by 10.6% as compared to that in the previous year. The mine-head stocks of lignite at the end of 2012-13 were 1,493 thousand tonnes which was 42.06% more than that at the beginning of the year.

(Source:http://ibm.nic.in/writereaddata/files/01192015114434IMYB_2013_Vol%20III_lignite%202013.pdf assessed on 15.05.2018)

2.5 Imports vs. indigenous production

There will not be any import from the proposed expansion of mine.

2.6 Export possibility

There will not be any export of lignite from the block. The entire lignite generated shall be used for the captive use of Thermal Power Plants i.e. at existing Surat Lignite Power Plant (SLPP) Station -1 of 2X125 MW, SLPP Station-2 of 2X125 MW and proposed Expansion of SLPP i.e. Station-3 of 2X125 MW of GIPCL located at a distance of 6 km and 18 km, respectively, from South Pit (Mangrol area) and North Pit (Valia mine) at Nani & Naroli, District Surat, Gujarat.

2.7 Domestic/ export markets

Entire lignite produced from the mine shall be used for the power plants of the company.

2.8 Employment generation (direct and indirect)

Existing and the expansion project shall give total direct employment to 1279 persons. The existing mining establishment provides employment opportunities under various cadres viz. management, supervisory, highly skilled, skilled, semi skilled, and unskilled workmen etc.

3.0 PROJECT DESCRIPTION

The Mangrol-Valia Lignite Block has been allotted by “Industries and Mines Department”, Govt. of Gujarat vide letter no. MCR-1098-1108-CHH-1 dated 06/04/2004 for 350 Ha, MCR-1098-1109-CHH dated 06/04/2004 for 507.48 Ha and MCR-1092-(G-8)-3626-CHH-1 dated 25/10/2005 for 1210 Ha totalling to 2067.48 Ha. However, the actual lease granted (signed) by the Gujarat Government (2004/2006) is for 2059.68.29 Ha and the same has been considered in the current study.

Considering the nature of the Mangrol-Valia Lignite deposit, parameters like depth of occurrence, gentle dip, thin seam thickness, split seam occurrence, environmental characteristics, etc., the lignite deposits will be worked by Mechanized Opencast Mining through Conventional Mining Equipment/ Machinery.

3.1 Type of Project including interlinked and interdependent projects

The project is expansion of lignite mine from 4.2 to 5.4 MTPA. The lignite from the mine will be used for power generation of Surat Lignite Power Plants.

3.2 Location with coordinates

Mangrol-Valia Lignite Mine is present in villages Mangrol, Shah, Cheretha, Amandera, Harsani, Timberwa, Bhilwada, Nani Pardi, Luna, Dansoli, Rajgarh and Kosmadi of Mangrol and Valia Taluka, Districts Surat and

Bharuch of Gujarat state. Location map is given in **Annexure I** of Form 1 of this application.

The mining lease area falls in the Survey of India Toposheet no. 46 G/2 and G/3 and bound by following co-ordinates:

Latitude : 21°23'29.5" to 21°31'16.3"
 Longitude : 73°04'40.5" to 73°12'44.0"

3.3 Details of alternate sites & Environmental considerations

Mining being site specific, no alternatives site is under consideration. This is an expansion project. The proposal is for expansion of production of lignite from 4.2 MTPA to 5.4 MTPA.

Environmental considerations: Environmental considerations and protection measures assume greater importance for the project. GIPCL shall ensure that the proposed expansion of mine causes minimum adverse impact on the area. The existing and expansion project is planned to meet all environmental norms and further improve the environment in the area.

Regular monitoring is being carried out by GIPCL at the mine site in line with the requirements of the Gujarat Pollution Control Board and Ministry of Environment, Forests and Climate Change for the existing production as part of EC compliance report. It is being submitted regularly after every six months

There are no National parks, Wildlife Sanctuary, Biospheres reserves within 15 km radius. The nearest National Park is Vansda at a distance of 76 km in SSE direction and wildlife sanctuary is Shoolpaneswar (Dhumkhal) at a distance of 37 km in NE. There are several water bodies and forest present within the study area of the project. The distance to various water bodies, forest, etc are given in **Table 1**.

**TABLE 1
 LIST OF WATER BODIES AND FORESTS WITHIN
 15 KM OF PROJECT BOUNDARY**

Sl. No.	Description	Distance, km	Direction
I	River/ Nala/ Drain/ Water Body		
1.	Bhaga Khadi	Within	
2.	Toksi Nadi	0.5	N
3.	Kim Nadi	1.0	NW
4.	Ukai Right Bank main canal	0.6	W
5.	Amrawati Nadi	8.5	N
6.	Dolatpura main canal	1.5	NW
7.	Kakadapar Right Bank main canal	7.8	SSW
8.	Wasethi Branch	11.6	WSW

Sl. No.	Description	Distance, km	Direction
9.	Walesa Branch	14.2	WSW
10.	Kavery Nadi	13.6	N
11.	Kondhki Khadi	12.1	NW
12.	Vare Khadi	14.6	ESE
13.	Kevaliya Talav	12.0	NW
14.	Isar Dam	14.6	SE
15.	Ratadiya Talav	7.7	NNE
16.	Kadva Talav	14.1	N
II	Forest		
1.	Kalmoi Reserve Forest	9.9	SE
2.	Reserve Forest Near Taked	8.6	SSE
3.	Reserve Forest Near Lindia	10.0	SE
4.	Reserve Forest Near Ratoti	10.6	SE
5.	Reserve Forest Near Kantavav	7.4	SE
6.	Reserve Forest Near Vad	4.0	ESE
7.	Reserve Forest Near Kevdikund	7.6	ESE
8.	Reserve Forest Near Zankhvav	10.7	SE
9.	Reserve Forest Near Balethi	13.1	SE
10.	Reserve Forest Near Ghodbar	12.2	SE
11.	Reserve Forest Near Wadi	12.8	E

3.4 Size or magnitude of operation

The total extent of the mining lease area is 2059.6829 ha. From the proposed lease area there will be 5.4 million tonnes per annum lignite production. To achieve this rate of production it is proposed to operate the mine in 3 shifts of 8 hour each for 270 days.

The pit wise estimated extractable reserves, overburden (OB) waste quantity and stripping ratio (SR) within pit boundary as per current mining plan is summarised in **Table 2**.

TABLE 2
SUMMARISED RESERVES, WASTE QUANTITY AND STRIPPING RATIO

	NORTH PIT			SOUTH PIT			CENTRAL PIT			TOTAL		
	Lignite (Mt)	OB (MCuM)	SR Cum/t)	Lignite (Mt)	OB (MCuM)	SR (Cum/t)	Lignite (Mt)	OB (MCuM)	SR Cum/t)	Lignite (Mt)	OB (MCuM)	SR Cum/t)
Extracted till 31-03-2017	8.5	44.1	5.19	6.51	45.88	7.05				15.01	89.98	5.99
Current Mining Plan	124.41	623.51	5.01	21.5	191.16	8.89	2.37	39.04	16.47	148.28	853.71	5.76
Total	132.91	667.61	5.02	28.01	237.04	8.46	2.37	39.04	16.47	163.29	943.69	5.78

Source: Table 5.2 of Revised Mining Plan (3rd Revision) and Mine Closure Plan for Mangrol-Valia Lignite mine), 2018

3.5 Project description with process details

Considering the nature of the Mangrol-Valia Lignite deposit, parameters like depth of occurrence, gentle dip, thin seam thickness, split seam occurrence, environmental characteristics, etc., the lignite deposits will be worked by mechanized opencast mining through conventional mining equipment/machinery. No drilling and blasting operations are envisaged for the proposed mine as the Overburden and Interburden in these areas are soft and medium hard in nature and it can be excavated directly by shovels/hydraulic excavators.

Three pits have been planned, South Pit, Central Pits and North Pit (refer Present Surface Plan given in **Annexure IV to Form 1**). From the three pits, there will be peak targeted production of 5.4 MTPA of lignite and total life of mine worked out to 30 year (considering 2017-18 as starting year in calendar program).

The project will achieve target capacity in 9th year. In case the commencement of production is delayed beyond 2017-18 due to lack of statutory clearances, the calendar program will appropriately shift and the mine will end at 30th year from commencement of expansion calendar program.

The access trench (Haul Road) to initial mine cut (IMC) for Mangrol and Valia area has an overall gradient of 1 in 16.

South Pit (Mangrol Area) started operation from the year 2009-10 and the North Pit (Valia Area) started operation from 2012-13. These pits will last till 18th years and 30th year, respectively, after implementation of expansion. The Central Pit which also falls in Mangrol area will start operation from the 22nd year and last till 27th year.

The bench heights (both over burden and lignite) shall be 3 to 6 m which is commensurate with the cutting height of the excavators to be deployed i.e. 3.2 m³ hydraulic excavators for OB and 3.2 m³ hydraulic excavators for lignite. Bench width shall be 9 to 12 m, and individual bench slopes shall be 45° to 60° depending upon the nature of strata. However, overall bench slope will be maintained at 23° to 27°.

The study of slope stability of dump was carried out by CIMFR in August, 2011. The ultimate dump heights of External dump area were assumed upto 50 m i.e. 30 m (with 3 lifts of 10m each) and 48 m (with additional upper 3 lifts of 6 m each). Waste dumps of 50 m and 30 m height shall be sloped at angle of 16° and 20.5°, respectively. The top soil dump will have a maximum height of 30 m and will have an angle of slope at 37° (Angle of Repose).

Year wise production for the life of the mine is tabulated in **Table 3**.

TABLE 3
CALENDAR PROGRAMME OF TOTAL LIGNITE AND OB (INCLUDING
TOP SOIL) FROM NORTH, SOUTH AND CENTRAL PITS
(LIGNITE IN MT AND OB IN MBCUM)

Sl. Year	Calendar Year	Lignite Progressive	Lignite Cumulative	OB Progressive	OB Cumulative	SR Progressive	SR Cumulative
	2009-10	0.00	0	5.30	5.30	5.30	5.30
	2010-11	0.68	0.68	15.23	20.53	22.40	30.19
	2011-12	1.33	2.01	11.59	32.12	8.71	15.98
	2012-13	2.40	4.41	9.48	41.60	3.95	9.43
	2013-14	2.34	6.75	14.09	55.69	6.02	8.25
	2014-15	2.77	9.52	12.70	68.39	4.58	7.18
	2015-16	2.68	12.2	11.77	80.16	4.39	6.57
	2016-17	2.81	15.01	9.82	89.98	3.49	5.99
	Past total	15.01		89.98		5.99	
1	2017-18	3.00	3.00	18.85	18.85	6.28	6.28
2	2018-19	3.60	6.60	22.00	40.85	6.11	6.19
3	2019-20	3.60	10.20	22.00	62.85	6.11	6.16
4	2020-21	3.60	13.80	21.60	84.45	6.00	6.12
5	2021-22	4.60	18.40	27.96	112.40	6.08	6.11
6	2022-23	4.60	23.00	27.45	139.85	5.97	6.08
7	2023-24	4.60	27.60	27.45	167.30	5.97	6.06
8	2024-25	4.60	32.20	27.45	194.75	5.97	6.05
9	2025-26	5.40	37.60	34.47	229.22	6.38	6.10
10	2026-27	5.40	43.00	33.75	262.97	6.25	6.12
11	2027-28	5.40	48.40	33.75	296.72	6.25	6.13
12	2028-29	5.40	53.80	33.75	330.47	6.25	6.14
13	2029-30	5.40	59.20	33.75	364.22	6.25	6.15
14	2030-31	5.40	64.60	33.76	397.98	6.25	6.16
15	2031-32	5.40	70.00	33.97	431.95	6.29	6.17
16	2032-33	5.40	75.40	33.97	465.92	6.29	6.18
17	2033-34	5.40	80.80	33.99	499.91	6.29	6.19
18	2034-35	5.40	86.20	25.45	525.36	4.71	6.09
19	2035-36	5.40	91.60	20.79	546.15	3.85	5.96
20	2036-37	5.40	97.00	28.08	574.23	5.20	5.92
21	2037-38	5.40	102.40	28.08	602.31	5.20	5.88
22	2038-39	5.40	107.80	33.08	635.39	6.13	5.89
23	2039-40	5.40	113.20	33.08	668.47	6.13	5.91
24	2040-41	5.40	118.60	38.08	706.55	7.05	5.96
25	2041-42	5.40	124.00	38.08	744.63	7.05	6.01
26	2042-43	5.40	129.40	34.40	779.03	6.37	6.02
27	2043-44	5.40	134.80	25.44	804.47	4.71	5.97
28	2044-45	5.40	140.20	25.43	829.90	4.71	5.92
29	2045-46	5.40	145.60	18.00	847.90	3.33	5.82
30	2046-47	2.68	148.28	5.81	853.71	2.17	5.76
Total current mining plan		148.28		853.71		5.76	
Total Including past production		163.29		943.69		5.78	

Presently, 0.60 MTPA is supplied from Vastan Lignite Mine of GIPCL which will exhaust by 2024-25

Source: Table 5.4 of Revised Mining Plan (3rd Revision) and Mine Closure Plan for Mangrol-Valia Lignite mine), 2018

Balance life of the mine, considering a capacity of 5.4 MT lignite production per annum, will be 30 years. Lignite is being dispatched by road through dumpers from Opencast quarry-head to Power plants.

3.6 Mining method

Opencast mining method has been selected for the proposed enhancement of production. Shovel Dumper Mining Technology shall be used for lignite and overburden. Three pits have been planned, South Pit and Central Pits in Mangrol area separated by Moti River and North Pit in Valia area separated by the railway line. South Pit (Mangrol Area) started operation from the year 2009-10 and the North Pit (Valia Area) started operation from 2012-13. These pits will last till 18th and 30th, respectively. The Central Pit which also falls in Mangrol area will start operation from the year 22nd and last till 27th year. The annual targeted production of 5.4 MTe will be achieved from the year 2025-26 (9th year).

As the overburden and interburden in these areas are soft and medium hard in nature it can be excavated directly by shovels/ hydraulic excavators. As such no drilling and blasting operations are envisaged for the proposed mine.

Stage wise development plan

1st to 5th year stage

South Pit will be operational in 5th year and shall generate 1.00 MT lignite and 11.18 Mcum overburden (including top soil).

North Pit shall be operational from 1st year and shall generate 3.60 MT lignite and 16.78 Mcum overburden (including top soil).

6th to 10th year stage

Total OB generation (including top soil) from the mine will be 150.57 mcum out of which 143.78 mcum pure OB will be backfilled {23.03 Mcum backfilled into Vastan Pit, 120.75 Mcum will be backfilled into South Pit and North pit} and 5.89 Mcum will be disposed into crown dump. 23.30 Mcum OB will be re-handled from D4 and disposed into Vastan pit.

Total lignite production will be 24.6 MT out of which 6.60 MT from South Pit and the balance 18.0 MT from North Pit.

11th to 15th year stage

Total OB generation from South Pit and North pit including TS will be 168.98 Mcum. All the OB generated will be backfilled into the two pits.

Total lignite production from South Pit and North pit will be 27 MT.

16th to 20th year stage (2032-33 to 2036-37)

Total OB generation including Topsoil will be 142.28 Mcum and 27.00 MT lignite will be produced. Total backfilled OB will be 140.76 Mcum.

South pit will generate 31.08 Mcum OB with lignite production of 4.90 MTPA. South pit will exhaust in the 18th year.

North pit will generate 111.20 Mcum with a lignite production of 22.10 MT.

21st to 25th year stage

Total OB generation including TS will be 170.40 Mcum and lignite production will be 27.00 MT.

North pit will remain operational and will generate OB 140.40 Mcum including TS with lignite production of 25.60 MT.

Central pit/area will be started in 22nd year but will not produce any lignite in this year. Lignite production will start from 23rd year. Total OB generated will be 30.00 MCuM and lignite 1.40 MT.

26th to 30th year stage

Total OB generation including TS will be 109.08 MCuM and 24.28 MTe lignite will be produced.

North pit will generate OB 100.05 MCuM OB including TS during this period with lignite production of 23.31 MT.

The Central pit will operate only for 6 years (22nd to 27th year). The pure OB volume of 21.62 MCuM will be rehandled from dump D3 and disposed off into South pit void during the last two operational i.e. 7 MCuM during 29th year and 14.62 MCuM during 30th year.

3.7 Raw material required along with estimated quantity, likely source, marketing area of final product's, Mode of transport of raw material and Finished product

No raw material is required. Only diesel is required for transportation vehicles, operation of HEMM and generators in case of emergency.

ROM lignite from hydraulic shovels will be transported by 35 T body trucks up to pit head where feeder breakers are installed. Sized lignite from the Mine feeder breaker will be transported to the Power Plants. Lignite from the North Pit to TPP will be transported through the internal road and public road which is black topped and is capable to transport the lignite. The internal roads are fenced with drains on either side. The distance of the TPP from South Pit (Mangrol area) and North Pit (Valia mine) is 6 km and 18 km respectively.

3.8 Resource optimization/ recycling and reuse envisaged in the project

The lignite does not require any beneficiation as sized lignite is directly useable in power plant. The resources which are used in the mining are and will be recycled by various methods. Spent oil from DG Sets, is and will be sold to the authorized vendors. Mine water is discharged from quarry through adequate number of pumps (as required) and is being used for mining activity.

3.9 Availability of water its source, energy / power requirement and source

3.9.1 Water

Requirement: The net water requirement of the project is 736 KLD out of which 633 KLD is industrial water requirement and 103 KLD is the potable water requirement.

Source: The mine water is collected in sump and dewatering is done to keep mine working dry. Dewatered water as well as any surface run off during rain is led to settling tank for settlement of suspended solids. Thereafter, the water is used for industrial purpose, sprinkling, greenbelt watering, etc. Excess water is and will be discharged to natural drain after settlement of suspended solids. The potable requirement will be met through borewells. The waste water in Workshop will be recycled after vehicle washing.

3.9.2 Power

The mine will receive power from 11/ 440 KV DGVCL's Mangrol & Valia Sub- Station to cater to the power requirement.

3.10 Quantity of wastes to be generated (liquid and solid) and scheme for their management / disposal

Total waste includes over-burden, intercalations in all the three horizons and also the inter-burden between two successive horizons.

The total topsoil generated will be 8.72 MCuM (B) during the life of the mine. Unutilized part of the same will be stacked separately in a soil stack pile located near the pits. The excavated top soil from Mangrol and Valia areas will be kept an area of 30 Ha as earmarked. The height of the dump will be maintained 6 m. The angle of slope will be maintained at 36°.

There are 4 dumps existing at present, D1, D2, D3 and D4. Dumps D1, D2 and D4 belong to North pit. Dumps D1 and D2 are located on the east of the North Pit over non- lignite bearing area, which will not be re-handled. But Dump D3 located on the SE of South Pit and Dump D4 located on the SW of North pit over the lignite bearing area, will have to be re-handled later.

Total area under surface dumps at present is 267.12 Ha which will increase to 286.80 Ha by the end of 5th year. Later it will reduce to 56.56 ha by the end of life of mine due to rehandling of D3 and D4 as 230.24 Ha area will be re-handled. Out of total Surface OB dump 144.80 ha, 64.66 ha will be planted and 80.14 ha will be converted into agriculture during post mine closure.

Solid waste generated from manpower is and will be mostly of organic and recyclable nature. The organic waste is and will continue to be composted and used as manure while recyclable component are and will be sold to recycling agencies. The waste water from mine site offices is and will continue to be treated in septic tank- soak pit system.

The mine sump water is regularly monitored for pH level and treated, if required, prior to discharge. The waste water from workshop is treated in oil water separator followed by settling tank and reused in washing. The same will be continued in future also.

3.11 Schematic representations of the feasibility drawing which give information of EIA purpose

The conceptual plan of mine lease is given in **Annexure VI** to Form 1.

4.0 SITE ANALYSIS

4.1 Connectivity

Road: SH 166 passes through the property and runs almost along the railway line and joins Bombay-Ahmedabad NH8 (towards west) at Kosamba at a distance of about 23 km on west. The district HQ Surat is about 55 km by road and Bharuch about 50 km. Rajpardi is at about 48 km south.

Railway Line: Kosamba is the nearest Rly station (about 28 km west) on Baroda-Mumbai railway line of western railway.

Airport: The nearest airport is Surat and Vadodra at a distance of about 52 and 90 km. respectively.

4.2 Land form, Land use and land ownership

The area of Mangrol Valia Lignite Block is 2625 ha. The Mining Lease was executed for 2059.6829 ha out of which 1778.3629 ha falls within the block and the remaining 281.32 ha outside the block in non-lignite bearing area. No increase in existing ML area is proposed for increasing the production from 4.2 to 5.4 MTPA.

Pre Mining, present and post mining landuse is given in **Tables 4, 5 and 6** respectively.

**TABLE 4
PRE-MINING LANDUSE AS PER MINE LEASE DEED**

Particulars	Area in Hectares
Protected Forest land (social forestry along existing SH166)	4.80
Agricultural land	1953.34.26
Waste land	23.53.93
Nallah / River	00.50.00
Road	10.11.92
Gaucher	67.3818
Total ML	2059.68.29

**TABLE 5
PRESENT LAND USE OF ML AREA AS ON 31-03-2017**

Sl. No.	Particulars	Area in Hectares			
		North Pit	Central Pit	South Pit	Total Area
1	Mining Pit	150.0000	0.0000	134.5300	284.5300
2	Dumps including top soil dump*	197.0000	0.0000	80.1400	277.1400
3	Infrastructure (Site office, Contractor's Camp, First Aid Centre, Shelters, Pumping Station, Lignite Crusher, Lignite Stack, Weighbridge, Electric Substation)	0.4200	0.0000	3.4800	3.9000
	Sub Total Disturbed area (1 to 3)	347.4200	0.0000	218.1500	565.5700
4	Green Belt (common for all pits)		129.9700		129.9700
5	Service Road, Lignite Transport Road (Common for all pits)**		9.9200		9.9200
6	Settling Pond		3.4500		3.4500
	Sub Total Disturbed area (4 to 6)		143.3400		143.3400
	Total Disturbed Area (1 to 6)		708.9100		708.9100
7	Undisturbed area		1350.7729		1350.7729
	Total ML area as per GPICL's land use (1 to 7)		2059.6829		2059.6829

* Top soil dump area near north pit is 20 ha (part of OB dump) and near south pit is 10 ha (part of OB dump).

** Out of 9.92 ha, 3.00 ha belongs to North pit and 6.92 ha belongs to South pit.

TABLE 6
PROPOSED LAND USE AT END OF LIFE OF MINE (30 YEARS)

Break-up as per proposed land use	Area in Hectares				Total Area
	Mangrol Area		Valia Area	Common for the project	
	South Pit	Central Pit	(North Pit)		
I. Disturbed Area					
1. Mining Pit Excavation	348.65	71.41	1032.94	-	1453.00
2. OB Dumps including Black cotton soil	80.14	0.00	64.66	-	144.80
3. Top Soil Stacking (included in OB dump)**	0	30.00	0	0	30.00
4. Infrastructure i.e. Site office, Contractor's Camp, First Aid Rooms, Shelters, Pumping Station, Feeder Breaker, Weighbridge, Electric Substation	0.42	0.00*	3.48	0	3.90
5. Service Road, Lignite Transport Road	3.00	0.00*	6.92		9.92
6. Settling ponds combined	0		0	10	10
7. Green Belt combined	0		0	151.82	151.82
Sub Total (I)	432.21	101.41	1108	161.82	1803.44
II. Undisturbed Area					256.2429
Grand Total (I+II) equal to ML granted					2059.68.29

* Area common with South Pit

** Top soil stack area is common with OB dump areas (10 ha in Mangrol area) South Pit, 20 ha in Valia Area (north pit).

4.3 Topography

The area is more or less flat with minor undulations. The general ground elevation is in the range of 36 to 46 m above MSL. However, in the North-Eastern part of the Block the elevation is in the range of 45 to 52 m above MSL. The general slope of the area is from north-East to south-west.

4.4 Existing infrastructure

The mine is already operational as per the 1st Mining Plan (2000 version approved on 23/01/2001 by MoC) for a production of 4.2 MTPA. It is proposed to be operated at enhanced capacity of 5.4 MTPA. The facilities are already in place. However, they will be further strengthened to take care of the additional about 30% of excess production.

Since all the three pits are away from each other, it is proposed to have three sets of service facilities, i.e. one set for each Pit. However, as the Central pit will be started after 3 years of exhaustion of the South Pit, only shifting of location will be required.

Group Vocational training centre at Vastan Lignite Mine will also cater to Mangrol-Valia Lignite Mine. Site service facilities such as Mine office, stores, workshop, canteen, first- Aid Centre, Rest Shelter and Pithead Bath will be provided in each pit.

For access to the buildings, good roads shall be planned with proper paving, drainage system and good landscaping through barriers of green belt, which will help abate pollution levels as well as help easy operability.

4.5 Soil classification

Alluvium composed of silty loam, black cotton soil and also Bentonitic clay or Kankar constitute the unconfined or phreatic aquifer system in the Mangrol North and Valia mining areas. The most important chemical property of the soil as a medium of plant growth is the pH of the soil. Results of the soil samples show that the pH values are normal (not alkaline or acidic). Soil conductivity of all the samples are below 1.0 which is normal for crop response. The soil samples are generally silty or loamy, which is good for crops. The organic matter of all samples is low in nature which would require attention.

4.6 Climatic data from secondary sources

The area is warm & humid and is having sub-tropical climate.

Temperature

Temperature variations as studied for the period from 1992 to 2006 show that the temperature is as high as 40.20°C in summer and as low as 12.60°C in winter. However, the normal summer temperature varies from 33.0°C to 40.0°C and winter temperature from 14.0°C to 17.0°C.

Wind Speed and wind direction

The wind direction is mostly from South and South-West in summer and North and North-East in winter but occasionally from other direction depending on prevailing atmospheric conditions.

Relative Humidity

Relative humidity as observed at Surat Observatory shows a value of about 60% humidity in the morning in all months except November when it was marginally lower at 59%. In the evening, except for the months from May to September, the values are less than 50%.

4.7 Social infrastructure available

Hospitals, school, banks etc are present in the villages in buffer zone (within 10 Km of project area). Social infrastructures are existing as per Census 2011 and are listed in **Annexure X** to Form 1.

5.0 PLANNING BRIEF

5.1 Planning concept

After the first approval, the Mining Plan was revised twice (increase in area and production) but neither of them could be implemented due to pending environmental clearance. One of the approved end use plant, viz. Phase-2 SLPP 2X300MW is not coming up, as the decision has been deferred indefinitely on account of non acquisition of additional 959.00 Ha area of the additional applied leases.

Instead, GIPCL has decided to setup 2x125 MW units as Phase-2 expansion of SLPP. Therefore, coal requirement has been revised downwards to 5.4 MTPA. However, the depth of Mining has been increased from 110 m to 150 m in line with the Revised Approved Mining Plan(2015). This application has been planned for 5.4 MTPA with reduced land requirement of 2059.6829 Ha, the mining lease for which had already been granted subsequent to the approval of 1st Mining Plan (2000).

5.2 Population projection

Although all the mining machineries will be outsourced/ hired as being practiced at present, for manpower estimation, three shift-working for all the seven days of a week has been envisaged for operating the main equipment required. Office and allied functions are already computerized. Security, canteen and some other services are also out-sourced. Modern communication facilities are adopted. The manpower for 5.4 MTPA productions works out to about 1279 persons. The manpower has been kept to minimum focusing on safety, environment and production supervision.

5.3 Land use planning (break up along with green belt etc.)

The pre mining and present land use of the mine lease is referred in **Table 4** and **Table 5**. Landuse at the end of life of mine is given in **Table 6** in Section 4.2 earlier.

5.4 Assessment of infrastructure demand (physical & social)

An assessment of the current facilities available in the villages in and adjacent to the mine lease area in education, health, drinking water, power supply, post and telegraph, banks, communication and approach road has been done using Census 2011 data and presented on Annexure X to Form 1.

Core infrastructure, like power distribution system, road, telecommunication, housing, service buildings viz. office, store, First Aid centre, canteen etc. have been established at the mine site.

5.5 Amenities / facilities

Education, hospitals, drinking water, power supply, post and telegraph, banks, communication and approach roads are present in the villages in buffer zone within 10 Km of project area. The site service facilities such as mine office, stores, workshop, canteen, first- Aid Centre, rest shelter and pithead bath will be provided in each Pit.

6.0 PROPOSED INFRASTRUCTURE

6.1 Industrial area (processing area)

The activity wise detail of present landuse is given in **Table 5** and at the end of life of mine is given in **Table 6** of Section 4.2 earlier.

6.2 Residential area (non processing area)

Colony of the company is already present near mine area and that will be sufficient to cater for additional manpower

6.3 Green belt

In order to combat pollution effects arising out of the mining operations and to improve the ecological and aesthetic status of the area, a comprehensive three tier green belt development programme is being and will be implemented. Keeping in view the environmental problems, plantation programme has been prepared to mitigate the problems. The areas considered for plantations are:

- All along the roads and around office, stores, workshop, etc.
- In all vacant/barren places near the quarry area
- Waste dump in stages
- Over the backfilled area
- Peripheral portion of mining lease.

6.4 Social infrastructure

With the mine already in operation, amenities for communication, education, health, canteen, etc have been developed by GIPCL and will continue to be developed and maintained in and around the project area. These amenities are and will be available to local people also, who are directly associated with the project. Even those not associated in the project related activities are benefited by these amenities. With the continuation and expansion of the mine, there will be substantial improvement in the overall economy of the local people in the form of additional income through employment, development of infrastructure in surrounding areas such as transport facility, health and education, shops and ancillary industries. Over and above, the

people can avail any of the medical/ educational facilities that will be established by the company in the area. Water can also be supplied free of cost on festive occasions. Overall, the rest of the villagers will be encouraged to be self sufficient.

The objective of CSR is to:

- Significantly improve the physical quality of life
- Create opportunities for livelihood
- Improve the level of education including adult education
- Create health awareness among women and
- Ensure availability of safe drinking water

6.5 Connectivity

Road

Refer section 4.1.

Railway Line/Airport

Refer section 4.1.

6.6 Drinking water management (source & supply of water)

Refer section 3.9.1

6.7 Sewerage system & industrial waste management

A sump of adequate capacity has already been created at the present mining pit to accommodate seepage water as well as to accommodate any sudden torrential rainfall. Heavy duty pumps are operational in this sump. Water is being discharged into the main garland drain by pipeline. The pumping capacity is presently sufficient to handle any torrential rain in the mining area. Pumps of similar capacities have been kept as standby. Water is now being utilized in sprinkling the mine working area.

6.8 Solid waste management

Refer section 3.10.

6.9 Power requirement & supply / source

Refer section 3.9.2.

7.0 REHABILITATION AND RESETTLEMENT PLAN

There are no additional inhabited villages to be rehabilitated for increase in production. There are Vadsol hamlets with 83 hutments and Kosmadi Falia (Rajgarh Gram Panchayat) with 35 hutments in the executed ML lease area, which are proposed to be shifted as per the R & R policy.

8.0 PROJECT SCHEDULE & COST ESTIMATES

8.1 Cost of production

The cost of production at pit head is about Rs. 949.00 per tonne of lignite approximately.

9.0 ANALYSIS OF PROPOSAL (FINAL RECOMMENDATIONS)

This is an opencast mine of existing capacity of 4.2 MTPA. The expansion is proposed to 5.4 MTPA without increase of lease area but with increase of depth of mine. The life of mine will be 35 yrs (production) + 3 yrs for final closure of mine Total = 38 years since inception. The environmental impacts will be kept at minimum by adopting proper mitigation measures.