

File No.J-13011/39/2008-IA.II(T)
Government of India
Ministry of Environment, Forests and Climate Change

3rd Floor, Vayu Block,
Indira Paryavaran Bhawan, Jor Bagh Road,
Aliganj, New Delhi-110003

Dated: 21.01.2020

To

The Chief Engineer Project and Planning
M/s Gujarat State Electricity Corporation Limited (GSECL).
Race Course Vadodara, Gujarat 390007.

Tel No. 6612154; Email; gsecltp@gmail.com

Sub: 2x250 MW Lignite Based Thermal Power Project at Padva, Bhavnagar District in Gujarat by M/s Gujarat State Electricity Corporation Limited (GSECL).- reg. transfer and amendment in EC for change in coal source.

Sir,

The undersigned is directed to refer to your online application no. IA/GJ/THE/116337/2019 and No. IA/GJ/THE/115817/2019 dated 02.11.2019 and 31.08.2019 for amendment in EC for change in coal source and transfer of Environmental Clearance from M/s Bhavnagar Energy Company Ltd. to M/s Gujarat State Electricity Corporation Ltd (GSECL), respectively.

3. It has been noted that the Environmental Clearance for 2x250 MW Lignite based Thermal Power Plant has been accorded vide Ministry's letter dated 10.2.2010 in favour of M/s Bhavnagar Energy Company Ltd. As per the Energy & Petrochemicals Department, Government of Gujarat notification No.: GHU-2018-(66)-BEC-12-2018-3332-K dated 27.08.2018, Bhavnagar Energy Company Limited (BECL) is merged with Gujarat State Electricity Corporation Limited (GSECL).

4. It has been noted that, the water requirement will be met from Sea from Gulf of Khambhat at a distance of 6 km from the plant, as per the Environmental Clearance. It has been informed that the intake water channel for drawing sea water and outfall channel for discharging cooling tower water and blowdown could not be constructed. Though, the plant has achieved COD, it was not in continuous operation since commissioning and operated at very low PLF (8-10%) due to water shortage and operational issues.

5. It has been informed that as per the Revised Tariff Policy dated 28.1.2016, notified by Government of India, and as per the Policy of Government of Gujarat for Reuse of Treated waste water, 2018, it is mandatory for all the Thermal Power Plants within a distance of 50 km. from STP or city limits to use Treated Sewage.

6. It has been proposed to use treated sewage water from Sewage Treatment Plant (STP) of Bhavnagar Municipal Corporation, instead of sea water for cooling purpose in the plant. The water requirement for the power plant is 5 MLD (5000 KLD) for plant utility & drinking water purposes and 37 MLD (37,000 KLD) for cooling purposes. It has been proposed to obtain 5 MLD from GWIL, Budhel Sump (10 km) and 37 MLD from Bhavnagar Sewage Treatment Plant (45 km).

7. It has been informed that as per original proposal, laying intake water channel from Sea to Power Plant and discharge lines have not been done yet. As the source of water is changed from sea water to treated sewage water, there is no need of laying intake water pipelines. However, a pipeline for discharging cooling tower blow down in to the sea is to be laid which will take another 24 months.

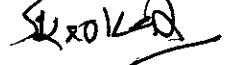
8. It has been informed that there is no technology available to monitor Particulate Matter separately as PM₁₀ and PM_{2.5} from the flue gas.

9. The proposal was appraised by Re-constituted EAC (Thermal) in its 36th meeting held on 4.12.2019. In acceptance of the recommendations of the Re-constituted EAC (Thermal Power) in its meeting held on 4.12.2019 and in view of the information, clarifications, documents submitted by you, **the Ministry hereby transfers the Environmental Clearance dated 10.2.2010 in favour of M/s Gujarat State Electricity Corporation Limited (GSECL) and amends the said Environmental Clearance** for change in water source from seawater to treated Sewage along with the following additional conditions:

- i. Use of 5000 KLD raw water from Budhel Sump, GWIL and use of 37,000 KLD Treated Sewage Water from Bhavnagar Sewage Treatment Plant is permitted.
 - ii. Sources of Lignite will be from Surkha-I (**Ghogha-Surka**), Kharsliya I & II mines of **M/s GPCL** and Surkha North mine blocks of M/s GMDC.
 - iii. In the Specific Condition No. (x), "Particulate Matter (PM)" shall be substituted in place of "PM₁₀ and PM_{2.5}".
 - iv. As the validity of existing CRZ permissions expired, Proponent shall obtain fresh recommendations from GCZMA under CRZ Notification, 2019 and approach for amendment in EC for discharging cooling water blow down (sewage water after cooling) in to the Sea through pipelines, along with CRZ mapping.
 - v. A final layout map showing the fresh water intake point, STP, discharge point and associated pipelines shall be submitted to the Ministry within 6 months.
10. All other conditions stipulated in the EC dated 10.2.2010 shall remain the same, as applicable.

This issues with the approval of the Competent Authority.

Yours faithfully,



(Dr. S. Kerketta)
Director, IA.I

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
4. The Deputy Director General of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016.
5. The Additional Chief Secretary, Forests & Environment Department, Government of Gujarat, Block-14, 8th Floor, Sachivalaya, Gandhinagar - 382 010, Gujarat.
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.

7. The District Collector, Bhavnagar District, Government of Gujarat, 285, Shilpi Nagar, Gujarat 364001.
8. Guard file/Monitoring file.
9. Website of MoEF&CC.

57

—

Director, IA.I