



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

Sikka Thermal Power Station, At PO Sikka, Dist Jamnagar – 361141. Ph. 91-288-2344106
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CIN: U40100GJ1993SGC019988

No. CE / STPS / SE [Operation] / EFF-R-32 / XGN ID 16969 /

Date:

To, **(BY: - RPAD)**
The Regional Officer
Ministry of Environment, Forest & Climate Change
Integrated Regional Office
A Wing, Room No. 407 & 409
Aranya Bhavan, Near CH-3 Circle, Sector 10-A,
Gandhinagar – 382010

Email id- iro.gandhingr-mefcc@gov.in

Subject: 2 x 250 MW Imported Coal Based TPP Extension Unit 3&4 at Sikka, Jamnagar by GSECL
– Environmental Clearance – Regarding.

Ref.No.: 1) MoEF EC no. J-13011/2/2003.IA-II (T) dated 24/05/2005.
2) MoEF&CC Office Memorandum, dated 18/07/2022 on Sensitization of project
proponent on implementation of ban on Single Use Plastic

Respected Sir,

With reference to above subject matter, the compliance report to the Environment Clearance conditions in the prescribed format from Gujarat State Electricity Corporation Limited, Sikka Thermal Power Station is as under.

Sr. No.	Point	Compliance As on 31 st March 2023	
01.	The conditions stipulated by Gujarat Pollution Control Board vide their letter No: PC/NOC/JMN-16(4)/30535 dated 7 th October 2002 shall be strictly implemented.	The Project proposal considers all aspects covered by NOC of G.P.C.B. as follows: 1. Necessary agreement for Narmada water & Sasoi dam water had been carried out to overcome water requirement of Plant and Colony. 2. Stack, Ambient Norms and Effluent Norms had been met & shall be ensured. 3. All applicable EP Act and Water cess Act Norms had been met & shall be ensured.	Complied
02.	Regularization of land area of the existing plant shall be obtained under the Forest [Conservation] Act 1980 and Wildlife [Projection] Act, 1972 and its amendments before starting work on this project.	This land has been regularized vide MoEF order no. 8-116/2006-FC dtd.28/06/2010.	Complied
03.	The Project Authority shall surrender 6 ha of land, presently under the possession of Gujarat Electricity Board to the State Government.	Land allotted vide O.O. No. JMR/4/200/93/ dated 10/02/1993. But STPS has requested collector to cancel this land, as this land has been falling in CRZ area (vide letter No. 1584 dated	Complied

Sr. No.	Point	Compliance As on 31 st March 2023	
		04/02/2005). Possession of this land was not taken due to falling in CRZ area.	
04.	Expansion of the project shall not be carried out in CRZ area except for setting up of raw water intake pump house.	No unauthorized construction activities are falling under the CRZ area.	Complied
05.	The coal to be used shall not have more than 14-16% Ash content and 0.8% Sulphur content.	The coal being used having an Ash content lower than 14-16 % and sulphur content lower than 0.8% and shall be ensured.	Complied
06.	Copy of confirmed coal linkage with fuel analysis report shall be submitted to the Ministry within a period of six months from the date of clearance.	Procurement order for long term supply of imported coal is issued vide letter no. GSECL / Fuel / LT / Imp Coal / Sikka / CIF / Adani / 884, dated 28/10/2014 & same had been submitted.	Complied
07.	Two stacks of 220 m each shall be provided with continuous online monitoring system. Exit velocity of 20 m/sec shall be maintained from these stacks.	MOEF has issued amendment for single multi-flue stack of 220m height as per the application vide GPCB letter no. PC/JMN-16/24813 dated 04/08/2003. The stacks have been constructed with continuous online monitoring system.	Complied
08.	Electrostatic Precipitators [ESPs] having efficiency of not less than 99.9% be installed so as to ensure that SPM emissions do not exceed 100 mg/Nm ³ .	The ESP's have been installed for both units having efficiency not less than 99.9%.	Complied
09.	Fly Ash shall not be dumped into the existing Ash pond and Ash generated shall be collected in silos for further utilization. Ash generated shall be used in a phased manner as per the provisions of the notification on Fly Ash Utilization issued by the Ministry in September 1999 and its amendments. By the end of 9 th year of commissioning of the plant, 100% fly Ash utilization shall be ensured.	There are 2 dry Ash & 2 wet (pest) Ash silo constructed. Ash generated is used in such a manner that, Fly Ash notification is being complied. Ash utilization for the last year 2022-23 is 834.73 % for the GSECL, Sikka TPS.	Complied
10.	The Ash Pond for the expansion project shall not be located in CRZ area as proposed in the approved CZMP map for the project forwarded by the state Government vide their letter no. Env-10-2002-217-P dated 22.09.2004 to MoF. The new location for the ash pond outside CRZ shall be decided in consultation with the MoEF.	Diversion of 96.5 ha of forest land for the Ash Dyke Pond, Hot Water Channel and Cold Water Intake Channel in favour of GSECL at Sikka village approved vide MoEF order no. 8-116/2006-FC dtd.28/06/2010.	Complied

Sr. No.	Point	Compliance As on 31 st March 2023	
11.	Surface water requirement shall not exceed 5260 m ³ /day. A dedicated RO system shall be installed. Wastewater shall not be discharged into the eco-sensitive area and Marine Park/Sanctuary area, which are in the vicinity of the project.	Surface water requirement has been not exceeding 5260 m ³ /day. A R.O. system is already installed. Waste water from the plant is not discharge into the eco-sensitive area & Marine Park / sanctuary area.	Complied
12.	Rainwater harvesting shall be adopted. Central Groundwater Authority Board shall be consulted for finalization of appropriate water harvesting technology within a period of three months from the date of clearance.	Rain water Harvesting System had been adopted in colony.	Complied
13.	Regular monitoring of water quality including heavy metals shall be undertaken around Ash dyke and the project area to ascertain that there is no leaching of contaminants from the Ash disposal area.	Regular water quality including heavy metals is being monitored once in a month or two month and shall be ensured.	Complied
14.	Noise level in the work zone shall not exceed 75 dB (A). Requisite Personal Protection Equipment including earplugs shall be provided to the persons working in the high noise area.	Noise level in the work zone has been not exceeding 75 dB (A) and PPEs are being provided to employees working in the high noise area.	Complied
15.	Greenbelt of 10-15 m along the plant boundary shall be developed covering an area of 14 ha.	Greenbelt of 14 ha area developed.	Complied
16.	Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. Six monthly monitoring reports shall be submitted to this Ministry.	Air quality monitoring around the plant has carried out and same was reported to GPCB & CPCB every month. Monthly report data from Oct'2022 to March'2023 is attached herewith.	Complied
17.	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.	Being Implemented.	Complied
18.	The project proponent shall 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 letter is available with the State Pollution Control Board/Committee and at Website of the Ministry of Environment and Forests at http://envior.nic.in .	It is already published.	Complied
19.	A separate environment-monitoring cell with qualified staff shall be set up for	Separate Environment Cell is already formed at STPS with SE (Operation),	Complied

Sr. No.	Point	Compliance As on 31 st March 2023	
	implementation of the stipulated environmental safeguards.	EE(Effi.), Chief Chemist, EE(Civil) and DE(Environment) as its members to look after implementation of the stipulated environmental safeguard. This team is directly working under the control of power station Chief. Moreover, Corporate Office Environment Cell also provides necessary guidance.	
20.	Half yearly reports on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/Regional office/CPCB/SPCB.	Six monthly reports from Oct'2022 to March'2023 are submitted herewith.	Complied
21.	Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. Complete set of documents including Environmental Impact Assessment Report and Environment Management Plan etc. shall be forwarded to the Regional Office for their use during monitoring.	Already submitted.	Complied
22.	Funds shall be allocated separately for each action point for implementation of environmental protection measures by the project authorities. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for any other purposes and year-wise expenditure shall be reported to the Ministry.	Agreed, Recurring Expenditure on Environmental Management for the year 2022-23 is submitted herewith.	Complied
23.	Full cooperation shall be extended to the Scientists / Officers from the Ministry / Regional Office of the Ministry at Bhopal / CPCB / SPCB during monitoring of the project.	Will be provided.	Complied
24.	MoEF&CC Office Memorandum, dated 18/07/2022 on Sensitization of project proponent on implementation of ban on Single Use Plastic (SUP)	Programmes were arranged to create awareness among people / employees for 'not using plastic as far as possible and further awareness regarding phasing out of Single Use Plastic (SUP) items' within employees along with surrounding communities and will be arranged (continual) in forthcoming World Environment Day 2023.	Complied

Recurring Expenditure on Environmental Management

For the year 2022-23 (April 2022 to March 2023)

Sr. No.	Expenses on	Total	Remarks, if any
		Amount Rs.	
1	Salaries & Wages of staff of Env. Cell	1358898	
2	Payment to Contractors for monthly monitoring	258469	
3	Fees / Payments to Environment Auditors	58070	
4	Consent / Audit / Other Fees to GPCB	747500	
5	Payment to GPCB for sampling and analysis	32500	
6	In-house sampling and analysis cost	0	
7	Payment of Water Cess to GPCB	0	
8	Maintenance costs for Ash Handling	43000000	Including Silo & Slurry System
9	Purchase / Maintenance of Equipments for Environment laboratory	5582	
10	Gardening and Plantation	944221	
11	Ash Dyke construction, area grading, maintenance of bunds	95000	
12	Maintenance of ESPs and spares apart from electric power consumption	1866513	
13	Misc. Civil Works for Environment	395000	
14	Maintenance of On-line Monitors	569035	
15	Attending of Coal Mill / Pipe leakages and Duct leakages	285120	
16	Maintenance of Neutralising Pits / Cost of chemicals used	58997	
17	Maintenance cost of water spraying, DSS / DES / control of fugitive dust	0	
18	Maintenance of SILOs	0	
19	Expenses / Maintenance of ETP	0	
20	Expenses / Maintenance of STP	566461	
21	Participation in Environment related Seminars / Conferences / Training programme / World Environment Day	46256	
22	Waste Oil, Resin and Battery management	0	
23	Bio-medical wastes management	142027	
	GRAND TOTAL (Recurring) Rs.--	50429649	
In addition to above, the Capital expenditure done for Environment Upgradation is as under.			
1	R&M of Ash handling Plant	0	
2	Capital expenditure on Dry Fog D.S.S.	0	
3	Shed for Waste oil	0	
4	R&M of ESP for Microprocessor controls	0	
5	Online System (Flue Gas / Effluent)	0	
	Total Capital Expenditure	0	

Ambient Air Quality monitoring data for Oct'2022 to March'2023

Month	PM10 $\mu\text{g}/\text{m}^3$ GPCB limit 100			PM2.5 $\mu\text{g}/\text{m}^3$ GPCB limit 60			SO ₂ $\mu\text{g}/\text{m}^3$ GPCB limit 80			NO ₂ $\mu\text{g}/\text{m}^3$ GPCB limit 80		
Location →	Main Gate	Service Building	Market Colony	Main Gate	Service Building	Market Colony	Main Gate	Service Building	Market Colony	Main Gate	Service Building	Market Colony
Oct-22	-	-	65.1	-	-	23.5	-	-	16.2	-	-	21.7
Nov-22	65.8	54.1	62.4	23.5	20.3	22.3	16.2	12.7	14.8	21.7	17.8	19.6
Dec-22	63.3	52.9	60.7	22.7	19.1	21.5	14.3	12.2	12.3	20.6	15.5	17.1
Jan-23	60.7	51.2	56.1	20.4	17.6	19.7	12.5	11.8	11.4	19.9	14.1	15.8
Feb-23	62.3	53.6	58.3	21.7	19.1	21.5	14.5	13.8	13.1	20.2	15.4	17.8
Mar-23	61.9	54.9	59.7	23.1	21.2	23.2	16.4	15.5	15.6	18.6	16.3	19.3
Average	62.80	53.34	60.38	22.28	19.46	21.95	14.78	13.20	13.90	20.20	15.82	18.55
Month	PM10 $\mu\text{g}/\text{m}^3$ GPCB limit 100			PM2.5 $\mu\text{g}/\text{m}^3$ GPCB limit 60			SO ₂ $\mu\text{g}/\text{m}^3$ GPCB limit 80			NO ₂ $\mu\text{g}/\text{m}^3$ GPCB limit 80		
Location →	Panchvati Market	Jogwad Village	Mungani Village	Panchvati Market	Jogwad Village	Mungani Village	Panchvati Market	Jogwad Village	Mungani Village	Panchvati Market	Jogwad Village	Mungani Village
Oct-22	73.4	48.6	62.7	26.2	24.3	28.3	13.7	14.8	12.5	20.6	19.2	22.1
Nov-22	67.2	49.4	65.1	25.7	26.2	29.5	18.5	13.6	14.8	23.1	20.7	24.2
Dec-22	65.4	47.3	63.6	23.2	27.7	27.4	16.6	11.9	13.1	21.8	19.2	22.5
Jan-23	62.5	45.6	61.3	21.3	23.8	25.7	14.9	10.9	11.2	20.2	17.5	20.1
Feb-23	64.6	43.9	59.6	23.1	21.7	23.4	16.7	9.3	12.1	22.2	15.8	19.5
Mar-23	65.8	45.2	57.9	25.5	23.7	22.5	17.9	12.3	13.4	24.1	16.1	17.8
Average	66.48	46.67	61.70	24.17	24.57	26.13	16.38	12.13	12.85	22.00	18.08	21.03

This is for information and further needful please.

Thanking you,

Yours faithfully,
For, Gujarat State Electricity Corporation Ltd.,

Chief Engineer (GEN)
GSECL, Sikka TPS

Copy to:

- (1) The Member Secretary, (E-Sarkar)
Gujarat Pollution Control Board,
Paryawaran Bhavan, Sector 10A,
Gandhinagar- 382010
- (2) The Regional Director,
Central Pollution Control Board,
Parivesh Bhawan, Aatmajyoti Ashram Rd,
Opp. VMC Ward Office No. 10, Subhanpura,
Vadodara 390023
- (3) The Regional Officer, (E-Sarkar)
Gujarat Pollution Control Board,
Sardar Patel Bhavan, Rameshwarnagar,
Jamnagar – 361008
- (4) The Chief Engineer (Gen), (E-Sarkar)
GSECL C.O., Vadodara 390007.