



# GUJARAT STATE ELECTRICITY CORPORATION LIMITED

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AN ISO-9001:2015, ISO-14001:2015, OHSAS 18001:2007 Certified Power Plant  
CIN: U40100GJ1993SGC019988

By RPAD

No.: WTPS/EEEC/Env/1445 Q/7/

5UG3

Date: 13 AUG 2020

To,  
The Joint Director,  
Ministry of Environment, Forest & Climate change,  
Regional Office, Western Region,  
Link Road no. 3, E-5, Ravishankar Nagar,  
Bhopal - 462 016. (MP)

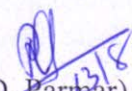
Sub: Submission of compliance report of Environment clearance issued for WTPS unit no 7.  
Ref: Environmental clearance issued by MOEF, vide letter no. J-13011/13/93/IA/II dated 19/04/94.

Dear Sir,

In context to above subject, enclosed herewith please find half yearly compliance report of environment clearance issued by MOEF for unit no 7 of WTPS , along with statistics of data regarding effluent quality, stack emission and ambient air quality for the period from April 19 to March 20 in annexure - I to III.

Thanking You,

Yours Faithfully,

  
(Rajendra D. Parmar)  
Chief Engineer (C&O)  
GECL: WTPS

Encl: As Above  
Copy to;  
C.E. (Gen. /P&P), GSECL, CO, Vadodara. By mail.

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Sub: Compliance report for conditions of environmental clearance issued by Ministry of Environment & Forest, New Delhi on 19/4/1994, for GSECL-WTPS unit no 7.

No.	Condition framed in Environment Clearance	Compliance of the conditions
2	Condition & safeguards for implementation	
I	Stack height should be provided as per MOEF's notification dated 19/5/93.	Stack height of unit no 7 is 220 meter, which is as per the MOEF's requirement.
II	ESP/ alternate dust collecting equipment with operational efficiency of not less than 99.8% should be provided so that the PM emission should not exceed 150 mg/Nm <sup>3</sup> failing which plant should be shut down. Adequate redundancies should be provided so that partial failures do not result in exceeding the limit mentioned above. Arrangement for interlocking of ESP/alternate equipment would be desirable.	ESP provided with operational efficiency 99.76%. BAPCON & RAPCON system are provided for automatic control of ESP rectifier parameters for optimum working of ESP. The average emission of PM from unit 7, always remains within prescribed limit of 100 mg/Nm <sup>3</sup> . Opacity meter is provided to monitor the particulate matter level. Online analyzer for measurement of SO <sub>2</sub> & NO <sub>x</sub> parameters in flue gas emission is provided in unit no 7. All realtime results are being transmitted to CPCB server.
III	Space provision for installation of desulphurization plant should be made so that the same could be provided, if required in future from environment angle.	Adequate space provision is kept nearby ESP area, for installation of desulphurization plant if required in future at unit no. 7.
IV	Liquid effluents including cooling water emanating from the plant, ash pond & other area should be properly treated to conform to the standard stipulated by SPCB or MOEF whichever is more stringent.	Higher capacity pumps are provided & wastewater from effluent sump outlet & composite outlet is partly reutilized, as per requirement in ash plant & for gardening use. Zero liquid discharge scheme (ZLD) is implemented by adopting reutilization of ash dyke effluent.
V	The project authority should prepare a comprehensive EIA report including air quality data of all season & submit within a year.	Revalidation of EIA report was submitted in the year 1999.
VI	The cooling towers were to be replaced by modern one so that the water requirement does not increase.	Natural draft cooling tower of 112 meter height is provided for optimum water requirement.
VII	In order to arrest the heavy concentration of liquid effluent, to be properly treated as per stipulated standard.	Liquid effluent is being properly treated to achieve stipulated standard, before discharging in river. Flow meter & online analyser for pH, TSS & Temperature parameters are provided.
VIII	Time frame for carrying out the mitigation measure mentioned in the sec-9 of the rapid EIA to be submitted within one month.	Time frame mitigation measures were complied as suggested in the comprehensive EIA report for unit no. 7. WTPS having ISO-14001 certification (Environment management system) issued by M/s. KBS. 16 nos. of dug cum bore wells are constructed for rain water harvesting scheme at WTPS area. PVC cabins with fixed glass window are provided in high noise areas in plant. Dry fog dust control system (DFDCS) is provided in coal handling plant.
IX	The project authority should furnish a workable plan for full utilization of fly ash for the approval of the appraisal committee/MOEF. Provision of flyash collection should be made by the dry system.	100% flyash utilization achieved in unit 7. Flyash from ESP, economizer & APH is being collected in silo of unit 7 & given to cement manufacturing companies. The action plan for utilization of fly ash was submitted to MOEF in past.
X	A green belt of not less than 50 meters width & adequate density should be raised all around the plant & right from the construction stage. Plantation around the ash	11318 nos. of sapling is planted in open plot near entrance of ash dyke area. Nakti vell sapling is planted wherever possible in all ash dyke area to control fugitive ash pollution.



