



GUJARAT STATE ELECTRICITY CORPORATION LIMITED

Utran Gas Based Power Station, Utran, -Surat- 394105.

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Our GST No: **24AAACG6864F1ZO** Our CST & TIN No: 24690201429 DT. 30/09/2005
CIN: U40100GJ1993SGC019988

REF NO: UGBPS/EFFI/ENV/MoEF/R-007/
By RPAD

2732

DATE: 30 OCT 2018

To,
The Addl.Principal Chief Conservator of Forests (C),
Ministry of Environment, Forests & Climate Change,
Regional Office (Western Region),
Kendriya Paryavaran Bhavan,
Link Road no. 3, E-5, Ravishankar Nagar,
Bhopal - 462 016. (MP)

Sub.: Submission of updated half-yearly environmental clearance compliance report with all required information of 375 MW Gas based CCPP at GSECL-Utran.

Ref.: 1. Environmental clearance issued by MOEF vide letter no.J-13011/65/2008-IA.II (T), dtd.05/02/2009.

2. GoG Forest & Environment Department letter no.Env.10.2004-120-P, 03-06-2005.

Dear Sir,

In context to above subject, enclosed herewith please find half yearly compliance report of environment clearance issued by MOEF for 375 MW Gas based CCPP at GSECL-Utran, along with statistics of data regarding effluent quality, stack emission and ambient air quality for the period from **April 2018 to September 2018** in Annexure – I to IV.

Thanking you,

Encl: Annexure I to IV

For and on behalf of GSECL


30/10
ADDL.CHIEF ENGINEER (GEN)
GSECL: GBPS: UTRAN

Copy f. w. cs. To:

1. The Member Secretary,
Vadodara.
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10A,
Gandhinagar-382010.

Copy to: (By mail)

1. C.E. (Gen.), GSECL, HO,
2. C.E. (P&P), GSECL, HO, Vadodara

Additional conditional for Amendment of 374.57 MW Natural Gas / R-LNG Based CCPP Unit-II at Utran: Environmental Clearance issued by MOEF vide letter No. J-13011/65/2008-IA.II (T) Dated 05-02-2009- Compliance to stipulated Conditions-Reg.

Sr. No.	Conditions laid down in clearance by MoEF	Compliance
A	SPECIFIC CONDITIONS:	
i	The stack height shall not be less than 30 mt.	50 meter height is provided for the main stack.
ii	The NO _x emissions shall be limited to 50 ppm.	<p>Best available dry low NO_x (DLN) combustion technology is installed for comply 50 ppm norms.</p> <p>Environmental burner - 24 No's in annular combustor followed by the SEV (Sequential Environmental - 24 No's) burner in second stage installed in our unit. Both EV & SEV burners designed for supporting above said criteria to maintain No_x level remain low.</p> <p>As per record of monitoring result , it is confirmed that NO_x emissions are within limit. NO_x results are attached as Annexure-1.</p> <p>Online monitoring system is also installed for data transmission at CPCB & GPCB server.</p>
iii	Project proponent will upload the compliance status of the stipulated condition in their website and update the same every six month.	Being to comply, for updating & uploading same every six month.
iv	All other conditions contained in Forest and Environment department, Government of Gujarat's letter no. ENV/10/2004/120-P, Dated 03-06-2005 shall remain unchanged.	Compliance of Government of Gujarat's letter no. ENV/10/2004/120-P, Dated.03.06.2005 is attached for your information

300±10% MW Natural Gas / R-LNG Based CCPP Unit-II at Utran: Environmental Clearance issued by DoEF, GoG vide letter No. ENV-10.2004-120-P dtd. 3rd June 2005- Compliance to stipulated Conditions-Reg.

Sr. No.	Conditions laid down in clearance by DoEF	Compliance
A	SPECIFIC CONDITIONS:	
i	All the conditions stipulated by the Gujarat State Pollution Control Board in the NOC issued vide its letter no. PC / NOC / SRT-1478-33540 dtd. 10.11.2004 issued for the project shall be strictly implemented.	Suggestion/ recommendation/ direction is implemented which will stipulated in the NOC issued vide its letter no. PC / NOC / SRT-1478-33540 dtd. 10.11.2004.
ii	Treated industrial effluent from the Effluent Treatment Plant shall be used for green belt development, floor washings and the excess shall be sent to the river Tapi through existing station drain for the disposal as per the conditions laid down by the GPCB in the NOC dtd. 10.11.2004.	For the treatment of effluent, we have provided ETP and the effluent confirming to the GPCB standard shall be reuse at maximum extend within unit and remaining is discharged into Surat Municipal Corporation underground drainage line as per condition-laid down in NOC & CCA of GPCB.
iii	The gaseous emissions (SO ₂ , NO _x & CO) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	The concentrations of the mentioned parameters are measured in the main stack. Emission are within the GPCB Standards. Results are attached as <u>Annexure-1.</u>
iv	Ambient Air Quality Monitoring Stations shall be set up in the downwind direction as well as where maximum ground level concentration of gaseous pollutants are anticipated in consultation with the Gujarat Pollution Control Board.	Ambient air quality monitoring station is provided in the down wind direction & regularly monitored by GPCB approved schedule- 2 Auditor commissioning of project and will be continued in future also. Results are attached as <u>Annexure-1.</u>
v	The Hazardous Wastes shall be transferred / disposed off only in a manner as authorized by the GPCB. The project proponent shall obtain	GSECL is a member of GPCB approved TSDF site (M/s. NECL) for disposal of hazardous waste and disposed off under the guidelines of Amended Hazardous waste

	authorization from the GPCB under the Hazardous Wastes (Management & Handling) Rules, 2000.	rules as per the condition given in CCA. Authorization from the GPCB under the Hazardous Wastes (Management & Handling) Rules, 2000 is also taken.
vi	Adequate precaution shall be taken to ensure that the overall noise level in and around the plant area shall be kept well within the prescribed standards, by providing adequate noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Necessary precautions are taken for the control of Noise level from noise generating instruments. Gas and steam turbine are insulated & covered by acoustic hood. Noise level monitored during the audit work and ambient noise level is within norms. The ear muff is issued to employees to prevent from noise. Noise measurement is attached as <u>Annexure- 2</u>
vii	Workers working in the high noise area will be provided with ear protection devices and their use by the workers shall be ensured. Noise barriers at appropriate places shall be constructed.	Ear protection devices –Ear muffs are provided to all employees. Periodic medical test (including audiometric test) of all employees & contractor labors are carried out twice in a year. Gas and steam turbine are insulated & covered by acoustic hood.
viii	Green belt of adequate width and density with suitably selected indigenous species shall be developed around the periphery of the project area to mitigate the effects of fugitive emission all around the project area. Development of the Green Belt shall be as per the guidelines published by the Central Pollution Control Board.	Utran power plant is a natural gas based power plant and there are less chances of any fugitive dust emission. Suitable green belt is developed as per requirement. Green Belt is developed as per the guidelines published by the Central Pollution Control Board.
ix	Massive afforestation programme shall be taken up in the neighborhood of the project over a period of time.	It will be taken up if land for afforestation program is available in neighborhood of the project area.

x	Comprehensive EIA Report shall be prepared and submitted within one year to the GPCB as well as to this Department. All the suggestions / recommendations for the purpose of environmental protection to be mentioned in the comprehensive EIA shall have to be implemented.	Comprehensive EIA report has already been prepared & submitted along with the application for obtaining EC from DOEF & NOC from GPCB. Suggestion / recommendation mention in EIA report is implemented.
xi	A separate Environmental Cell with suitably qualified persons shall be set up for implementation of the stipulated environmental safeguards.	In UGBPS Environment Cell is working under the control of Supdt. Engineer (M) with one I/c. Executive Engineer-Efficiency, Chief chemist, one I/c. Executive Engineer-civil and one Environment engineer with condition of two day deputation from Ukai Thermal power plant.
xii	All the commitments with respect to various suggestions / recommendations made during the Environmental Public Hearing especially with those related to socio-economic upliftment activities must be complied with.	All the commitments with respect to various suggestions / recommendations made during the Environmental Public Hearing are complied.
xiii	Necessary amenities including sanitation and fuel shall be provided to the labours during construction period.	Necessary amenities' including sanitation and fuel was provided to the labors during construction period.
xiv	The unit shall obtain the ISO-14001 Certificate at the earliest, preferably within the next two years.	GSECL: UGBPS has obtained ISO 9001 and 14001 certificate. Attached as <u>Annexure 3</u>
xv	Local population shall have to be given priority for employment as per the prevailing State Government Rules.	Implemented as per uniform policy framed under prevailing Government Rules.
xvi	The Unit shall prepare On-site & Off-site emergency plans / Disaster Management Plan as per the extant rules in this regard.	Disaster management plan is prepared as per guide lines of CEA.

xvi	The project proponent shall inform the public that the project has been accorded environmental clearance by the State Government in Forests & Environment Department and copies of letter are available with the Gujarat Pollution Control Board and may also be seen at website of the Department at http://gujenvfor.gswan.gov.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers, one Gujarati and one English, that are widely circulated in the region and a copy of the same shall be forwarded to this Department as well as to the GPCB.	Public notice were published in Sandesh 16/6/05, Baroda & Surat edition. And Times of India, 17/6/05, Ahmedabad edition.
B. GENERAL CONDITIONS		
i	The project authorities shall strictly adhere to the stipulations made by the GPCB from time to time.	UGBPS will strictly adhere to the stipulations conditions which made by the GPCB from time to time.
ii	At no time, the discharge / emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system/s adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the specified standards.	Discharge / emission levels are maintained well below the stipulated standards. Event of failure any pollution control system will rectify immediately & unit will not restart until the control measures are rectified to achieve the specified standards.
iii	Regular Monitoring of the waste water, stack emission, ambient air, noise and hazardous wastes shall be carried out. Periodical monitoring of ground water around the project site and around disposal point shall also be carried out. The sampling points, parameters and frequency of sampling shall be decided in consultation with the GPCB. The reports of the monitoring as above shall	Monthly monitoring of waste water, stack emission, ambient air is carried out regularly same is submitted to GPCB (Annexure:.1) Noise monitoring record is also maintained. <u>(Annexure:.2)</u>

	be submitted to the GPCB.	
iv	You shall provide financial support for strengthening of the Green Corps Scheme being implemented in Gujarat State by the GEER Foundation in consultation with this Department.	Suitable advice is asked from M/s. GEER foundation vide letter no. UGBPS/ Effi/28/ 4663 dated 22/8/07 in the matter.
v	The unit shall develop rainwater-harvesting structures to harvest the run-off water for recharge of ground water, in consultation with the experts. The rainwater harvested shall be monitored and report thereof shall be submitted to this Department.	UGBPS has planned for providing rain water-harvesting structures to harvest the run-off water for recharge of ground water, in consultation with the experts. Detailed report will submit after commissioning.
vi	The project proponent shall comply with all the environmental protection measures, safeguards and suggestions as recommended in the EIA, EMP and Risk Assessment reports as well as those given by the Forests & Environment Department, Government of Gujarat from time to time.	Suggestions / recommendation mentioned in the EIA, EMP and Risk Assessment reports are implemented.
vii	The project proponent shall constitute a Monitoring Committee for reviewing the compliance to various environmental safeguards measures by involving GPCB Institutions, Experts in the field, Forests & Environment Department, etc.	The matter has been referred to G.P.C.B. to constitute monitoring committee vide our letter no. UGBPS/Effi/28/4723 dated 24/8/07.
viii	The project authorities shall provide for adequate separate funds, both recurring and non-recurring, along with item-wise breakup to implement the conditions stipulated by the Forests and Environment Department as well as the GPCB. The funds so provided shall not be diverted for any other purpose.	Separate funds are allocated for implementation of environmental protection measures. The funds earmarked for the Environmental protection measures are never diverted for any other purpose. Details of Recurring Expenditure on Environmental Management (In Rupees) Last three year report is as per attached <u>Annexure -.4</u>

ix	The project authorities shall take up socio-economic activities in the region in consultation with the District Collector / District Development Officer. A separate fund in this regard shall be earmarked every year.	Suitable advice is asked from Collector vide letter no. UGBPS/Effi/28/5700 dated 20/10/07 in the matter.
x	The implementation of the project vis-à-vis environmental action plans shall be monitored by the GPCB regularly.	Full cooperation shall be extended during the inspection of GPCB.
xi	Necessary permissions shall be taken from all the concerned authorities.	Necessary permission from various authorities is taken for the project.
xii	Programmes for the improvement of skills of the villagers of the neighboring villages shall be taken up.	The surrounding site area is situated under municipality. A Primary School up to seventh standard is available in the colony which increased education facilities for the children of the neighboring area. Post office facility available in colony area which also available to local villagers residing in nearby areas. Recreational facilities including temple, garden & Children Park are provided.
xiii	A half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Department.	Being to comply for submitting every six month.
xiv	The project authorities shall contribute financially for any common study or facility for the purpose of environmental protection and improvement that may be proposed by this Department for this region.	Financially contribution will be given if asked for any common study or facility for the purpose of environmental protection and improvement which will propose by your department.

xv	The project authorities shall bear the cost of the supervision / monitoring by the external agency that may be appointed by this Department to oversee / monitor the activities during construction / operation phases.	Complied during construction phases. Full cooperation shall be extended for bearing the cost of supervision / monitoring by the external agency which will appointed by your department during operation phase.
xvi	Any other conditions that may be stipulated from time to time by the D.O. F.& E. Department.	Suggestion/recommendation/direction will implement which will stipulate from time to time by your department.