

Ref: GREL-RJY/O&M/21/ 27

DT: 03/Jul/2021

To,

Additional Principal Chief Conservator of Forests(C),
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
Ist and IInd floor, Handloom Export Promotion council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 600034.

Sub: -Submission of Six Monthly Environmental Compliance report.

Dear Sir,

We are here with submitting Six monthly Environmental Compliance report
(From Jan-21 to Jun-21). Kindly acknowledge.

Thanking you,

Yours faithfully,

For GMR RAJAHMUNDRY ENERGY LIMITED



Mathews.P
COO, Gas Assets

CC To

The Assessing Authority,, APPCB, Vijayawada
The Regional Environmental Engineer, APPCB, Kakinada

Ref: GREL-RJY/O&M/21/ 28

DT: 03/Jul/2021

To,

The Assessing Authority,
A.P Pollution Control Board,
D.No. 33-26-14
D/2, Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamvari Street, Kasturibaipet,
Vijayawada – 520 008

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COO, Gas Assets

Ref: GREL-RJY/O&M/21/ 29

DT: 03/Jul/2021

To,
The Regional Environmental Engineer,
Andhra Pradesh Pollution Control Board,
5.532, Shanthinagar,
Opp.DIC Office, Ramanayyapeta,
Kakinada-533005.

Sub: -Submission of Six Monthly Environmental Compliance report.

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We are here with submitting six monthly Environmental Compliance report
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For GMR RAJAHMUNDRY ENERGY LIMITED



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**SIX MONTHLY ENVIRONMENTAL COMPLIANCE
REPORT**

**GMR RAJAHMUNDRY ENERGY
LIMITED**

**Vemagiri Village,
Kadium Mandal, East Godavari District,
Andhra Pradesh
Pin-533125, India**

Jan-21 to Jun -21

GMR RAJAHMUNDRY ENERGY LIMITED

Environment Monitoring Report

Jan 21 to Jun 21

INTRODUCTION

GMR Rajahmundry Energy Ltd., promoted by GMR Group of companies with an installed capacity of 2X383.779 MW at Vemagiri village, Kadiyam Mandal of East Godavari District, Andhra Pradesh.

In order to establish baseline status, GMR Rajahmundry Energy Ltd had undertaken the post project Environment monitoring study in and around the plant site.

SITE LOCATION

The project is located near village Vemagiri, about 12 kms South-East of Rajahmundry town in the East Godavari District of Andhra Pradesh, India. The site location Longitude is 81°48'57.61" to 81°48'16.27".Latitude is 16°55'44.08" to 16°55'12.24".

The site measuring around 80 acres is very close to Rajahmundry-Kakinada High Way No.NH5 at a distance of 1.5 km.Rajahmundry is nearest Railway Station located at a distance of 12 km and Rajahmundry is nearest Airport at a distance of 32 km & Kakinada Sea Port distance of 60 km from project site. The site is accessible both by road and railway.

GMR RAJAHMUNDRY ENERGY LIMITED

Environment Monitoring Report

Jan 21 to Jun 21

CONTENTS

- EC,CFE and CFO Compliance
- Meteorological Data
- Ambient Air Quality monitoring
- Stack Emission monitoring for Heat Recovery Steam Generator stack
- Effluent Quality Monitoring
- Noise level measurement inside the plant (Day & Night).
- Water balance report.

Compliance Status for EC J-13012/82/2008-IA.II (T) dated January 28, 2010

	Conditions	Status
I	It is noted that Natural gas will be used as fuel for the power plant. In case the fuel is changed from natural gas to any other fuel, liquid or solid, the proponent shall apply for such a change in environmental clearance along with necessary requisite documents as per the EIA Notification, 2006 (and its amendments). In such a case, the requirement of holding fresh public hearing/consultation will be determined by the Expert Appraisal Committee.	GMR Rajahmundry Energy Ltd units are designed for Natural Gas firing only.
II	Two stacks of 70 m each shall be provided with continuous online monitoring equipments. Exit velocity of flue gases shall not be less than 25 m/sec.	Two stacks of 70 m each installation completed along with continuous online monitoring equipment.
III	Closed cycle cooling system with natural draft cooling tower shall be provided. The effluents shall be treated to conform to prescribed norms.	Provided closed cycle cooling system with induced draft type. Effluents shall be treated and complied as per norms.
IV	No ground water shall be extracted for the project work at any stage.	Noted and accepted.
V	The treated effluent conforming to the prescribed standards only shall be discharged.	The monitoring of liquid effluents shall be carried out regularly by GREL and third party
VI	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt / plantation. Continuous monitoring of effluent discharge shall be undertaken and it shall be ensured that when discharge enters the natural drain the temperature of effluent shall be at ambient.	Existing GVPGL STP is in operation. GVPGL and GREL are located in the same complex. Common effluent treatment system shall be utilized for both GMR Units.
VII	Rainwater harvesting should be adopted, Central Groundwater Authority Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.	GVPGL and GREL are located in the same complex. Existing Common rain water harvesting system connected to the total complex.
VIII	Adequate safety measures shall be provided in the plant area to check / minimize spontaneous fires in the gas storage area, especially during summer season. Copy of these measures with full details along with location in plant layout shall be submitted to the ministry as well as to the Regional Office of the ministry.	The unit has set up an EHS dept. to manage safety and fire related issues. Details of safety measures shall be submitted to the Board.
IX	Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS (if any) shall be made in the plant area in consultation with department of explosives; Nagpur Sulphur content in the liquid fuel will not exceed 0.5%. Disaster management plan shall be prepared to meet any eventuality in case of any accident taking place due to storage of oils.	Plant is designed for 100% natural gas firing only.
X	Green Belt consisting of 3 tiers of plantations around the plant of 150 m width and adequate tree density not less than 2500 per ha with survival rate not less than 70% shall be developed. In areas where 100 m width is not possible at least not less than 50 m width shall be raised with adequate justification submitted to the	33% Green belt development program was completed against built up area as per consent order

	Regional Office of the Ministry.	
XI	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	complied
XII	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dB (A). For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Personnel protective equipment provided to the high noise area people. Regular noise level monitoring is being carried out.
XIII	Regular monitoring of ground level concentration of SO ₂ , NO _x , RSPM (PM ₁₀ & PM _{2.5}) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	complied
XIV	Action plan for R&R (as applicable) with suitable package for the project affected persons shall be submitted and implemented at least as per prevalent R&R policy within three months from the date of issue of this letter.	Not applicable.
XV	An amount of Rs 10.0 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs 2.0 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.	Being complied with. CSR Programmes are being conducted through GMR Varalakshmi Foundation
XVI	As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.	Complied. CSR Programmes are being conducted through GMR Varalakshmi Foundation.
XVII	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	complied
XVIII	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in	The information was published in local newspaper.

	the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter 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	
XIX	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Documents have been submitted.
XX	A dedicated Environment management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	GMR Group has set up an environment management cell to manage environmental related issues.
XXI	The proponent shall upload the status of compliance of the stipulated EC conditions. Including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, RSPM (PM10 & PM2.5), SO2, NOx, (ambient as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Regular monitoring is being carried out and compliance data shall be up loaded in the company web site. Display board installation completed.
XXII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	The compliance report is being prepared once in six months and sent Regional office of MOEF and CPCB at Chennai.
XXIII	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986. As amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Shall be complied
XXIV	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	The compliance report is being prepared once in six months and sent Regional office of MOEF and CPCB at Chennai regularly. Compliance data shall be up loaded in the Web site.
XXV	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the	complied

	<p>stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least on a six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	
XXVI	<p>Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.</p>	Noted and accepted
XVII	<p>The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.</p>	complied
.XXVII I	<p>Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status.</p>	Noted and accepted.

Compliance Status for Consent for Establishment order No.316/PCB/CFE/RO-KKD/HO/2009-558 dated May 31, 2010

SCHEDULE-A

	Conditions	Status
1.	Progress on implementation of the project shall be reported to the concerned Regional Office.A.P.Pollution Control Board once in six months.	Complied. Six monthly compliance status reports being submitted regularly.
2.	Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.	Effluent treatment plant is common for both GMR Vemagiri Power Generation Ltd and GMR Rajahmundry Energy Limited. Meter is provided for common effluent discharge. Air pollution control system is the integral part of GTG, and separate record of the energy consumption provided for Effluent treatment plant and reservoir water system.
3.	The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec.21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.	Having a valid CFO APPCB/VSP/RY/10097/CFO/HO/2015-3548,DT: 19.08.2015, Valid up to 31/08/2017 and subsequently renewed through auto renewal up to 31.08.2020
4.	Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27 (2) of water (Prevention and Control of Pollution) Act.1974 and Under Sec.21 (4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.	Accepted and noted.
5.	The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the inspecting officers of different departments.	Complied.
6.	Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.	Not applicable.
7.	Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers; drains shall be leak proff.Dyke walls shall constructed around storage of chemicals.	Chemical area (DM Plant) floor washings are connected to the Effluent treatment plant only. Provided leak proof effluent discharge system. Industry is maintaining good housekeeping in and around the plant premises.
8.	Rain Water Harvesting(RWH) structure (s) Shall be established on the plant site. The proponent shall ensure that not enter the Rain Water harvesting structure.	GVPGL and GREL are located in the same complex. Existing Common rain water harvesting system connected to the total complex.
9.	The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.	Noted and accepted.
10.	This order is valid for period of 5 years from the date of issue.	Noted and accepted.