GMR Rajahmundry Energy Limited



Plant Office: Verragiri, Kadiam Mandal, East Godeseri District, Anchra Pradesh - 533 125 CIN U40107KA2005PL0051643 +91.80 40432000 +91.80 40432333 - Wewigangroup in

Ref: GREL-RJY/O&M/18/ つ9

DT: 18/06/2018

To,
The Regional Environmental Engineer,
Andhra Pradesh Pollution Control Board,
2-532, Shanthinagar,
Opp.DIC Office, Ramanayyapeta,
Kakinada-533005.

Sub: -Submission of Six Monthly Environmental Compliance report.

Sear Sir,

We are here with submitting six monthly Environmental Compliance report (From Oct-17 to Mar-18). Kindly acknowledge.

Thanking you,

Yours faithfully,

For GMR Rajahmundry Energy Limited

machavis. P Plant Head

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GMR Rajahmundry Energy Limited



Plant Office: Vernagiri, Kadiam Mandal, East Godavari District, Anchra Pradesh - 533 125 CIN U40107KA2000Pt.C05643 +91 80 40432300 +91 80 40432333 www.gmrgroup.in

Ref: GREL-RJY/0&M/18/ 30

DT: 18/06/2018

To,
The Member Secretary,
Andhra Pradesh Pollution Control Board,
Paryavaran Bhavan A-3, Industrial Estate
Hyderabad-500018.

Sub: -Submission of Six Monthly Environmental Compliance report.

Dear Sir,

We are here with submitting six monthly Environmental Compliance report (From Oct-17 to Mar-18). Kindly acknowledge.

Thanking you,

Yours faithfully,

For GMR Rajahmundry Energy Limited

Mathews. P Plant Head

GMR Rajahmundry Energy Limited



Plant Office: Vemagiri, Kadiam Mandal, East Godavari District, Andhra Pradesh - 533 125 CIN U40107KA2009PLC051643

+91 80 40432000 +91 80 40432333 www.gmrgroup.in

Ref: GREL-RJY/O&M/18/ △ J

DT: 18/06/2018

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, Chennal – 34

Sub: -Submission of Six Monthly Environmental Compliance report.

Dear Sir,

We are here with submitting six monthly Environmental Compliance report (From OCT-17 to MAR-17). Kindly acknowledge.

Thanking you,

Yours faithfully,

For GMR Rajahmundry Energy Limited

Mathews. P

Plant Head

CC To

gh.

The Member secretary, APPCB, Hyderabad. The Regional Environmental Engineer, APPCB, Kakinada.

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ENVIRONMENTAL MONITORING REPORT GMR RAJAHMUNDRY ENERGY LIMITED Vemagiri Village, Kadiam Mandal, East Godavari District, **Andhra Pradesh Pin-533125, India** Oct-17 to Mar-18

GMR RAJAHMUNDRY ENERGY LIMITED

Environment Monitoring Report

Oct 17 to Mar 18

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

Oct 17 to Mar 18

CONTENTS

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

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

SCHEDULE-B

	The source of water				Expansion project Name changed From
	maximum permitted		consum	ption after	GMR Vemagiri Power Generation
	expansion is 36236 K		Danie 1	T-4-1 -F	Limited to GMR Rajahmundry Energy
	SI. Purpose	Existing (KLD)	Proposed (KLD)	Total after expansion (KLD)	Limited. Granted water consumption for GMR Rajahmundry Energy Limited
	a) DM Plant Regeneration and back wash	115	136	251	is 21650 KLD.
	b) HRSG Boiler feed	269	768	1037	
	c) Cooling Makeup	14000	20736	34736	
	d) Domestic e) Gardening	16 186	10 Nii	26 186	
	Total	14586	21650	36236	
		1.000			
2.	The maximum Waste not exceed the following		eneration	(KLD) shall	Complied
	Sl. Purpose	Existing	Proposed	Total after	
	No.	(KLD)	(KLD)	expansion (KLD)	
	a) DM Plant Regeneration & Back wash	115	136	251	
	b) HRSG Boiler blow down	244	288	532	
	c) Cooling tower blow down	2064	3840	5904	
	d) Domestic and Floor	11 4	a namaZa ase	18	
	washing	is realistic	4074	6705	
	Total as contempts from	2434	4271	6705	
3.	The Effluent Treatn	nent Di	ant (FTD)) &Sewage	Existing GVPGL STP is in
٥.	treatment plant (ST				operation.GVPGL and GREL are located
	commissioned along v				in the same complex. Common
	activity. All the units				effluent treatment system shall be
				illipei vious	•
4	to prevent ground wa			II C	utilized for both GMR Units.
4.	The effluents shall b				Noted and accepted.
	irrigation/surface wat	er stand	ards as a		
	stipulated			under	
	Environment(Protection				
	published by Minis				
	Forests, Governemnt			pecified in	
	Schedule VI vide G.S	S.R.422(E),dt.19.0	5.1993 and	
	its amendments	thereof	, and	additional	
	standards/conditions	stipulate	d by APPC	B.	
5.					Provided closed cycle cooling system
٥.	conserve the water re				and induced draft cooling system.
6.	The industry shall				Being complied with.
٠.	measures to contro				
	construction and oper			ons during	
	Leonari accioni and oper			roid traffic	
	Vahiolog shall be	-manade	u to a\		
	Vehicles shall be		ے مادادات کے ما		
	congestions and shall	provide			
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	congestions and shall Automated mechanic provided on roads material storage are Mechanized handling loading & unloading o All the vehicles involved with tarpauli emission standards	provide ral water and at as, for equipmerations ved in trn. Vehic	r sprinklir dusty (suppression ent shall s. ansportat les shall (ng shall be construction on of dust. be used for ion shall be comply with	
	congestions and shall Automated mechanic provided on roads material storage are Mechanized handling loading & unloading o All the vehicles involved with tarpauli emission standards certification.	provide al water and at as, for equipme peration ved in tr n. Vehic shall	r sprinklir dusty of suppression ent shall s. cansportat les shall of have	ng shall be construction on of dust. be used for ion shall be comply with valid PUC	
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7.	The industry shall provide necessary storm water drains to avoid flooding of surrounding lands during heavy rains.	Industry has provided separate storm water drain system.
8.	Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below. a)Industrial cooling, boiler feed. b) Domestic purposes. c) Processing, whereby water gets polluted and pollutants are easily bio-degradable. d) Processing, whereby water gets polluted and pollutants are not easily bio-degradable.	Complied
9.	The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution. S. Details of Stack Stack 1 & 2 Stack 3 & 4 No a) Attached to Boiler (2 Nos.) DG Set (2 Nos.) b) Capacity 2 X 377 TPH HRSG boiler 2 x 1250 KVA c) Fuel form Natural gas Deisel d) Stack height: 2 X70 Mtrs. 2 X 13 m e) Control equipment Acoustic Enclosures to each boiler	Complied
10.	The industry shall provide dry low NOx combustion technology burners and it shall be ensured that NOx emission from individual stack shall be limited to 50 ppm.	Plant is designed with latest technology of DLN 2 Burner system in Gas Turbine for controlling NOx emissions.
11.	Continuous online monitoring equipments shall be provided to the two stacks and the exit velocity of flue gases shall not be less than 25 m/s.	Complied
12.	The industry shall install and commission continuous Ambient air monitoring stations(AAQM) within the plant as per the specifications of CPCB for online monitoring of SO2,NOx,PM2.5,PM10 At any stage these levels are found to exceed the prescribed limits, necessary control measures shall be taken immediately.	Industry has installed common AAQ Stations for GREL and GVPGL. Monitoring is being going on. Common Continues Ambient Air Quality monitoring station installation done for GVPGL & GREL.
13.	The location of the monitoring stations and frequency of monitoring shall be decided in consultation of the Board. Periodic reports shall be submitted to the concerned Regional Officer.	Ambient monitoring stations locations fixed by the consultation with APPCB, Regional officer and reports being submitted regularly.
14.	A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.	Sampling- system provided as per the guide lines.
15.	The generator shall be installed in a closed area with silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75dB(A) during day time and 70 dB(A) during night time.	Acoustic Enclosures provided for Gas turbine generators and other high noise generating equipments.In addition to these enclosures Ear protection devices provided for Workers exposed to high noise areas and ensuring their usage.

16.	The proponent shal	l comply wit	th the following:	Accepted and noted.
	SI. Solid Waste No generated from	After expansion Quantity	Method of Disposal	·
	Waste Lubricating Oil	4 KLPA	Disposed to authorized oil re-processors.	
	2) Oil Filters	24 Nos./ annum	Return to the supplier on buy back system/ authorized agencies	
	3) Used lead acid batteries	100 Nos. per annum	Return to the supplier on buy back system/	
17.	adequate water sto	rage facility	ting facilities with shall be provided in	Complied.
	fire prone area in Firefighting.	consultatior	n with Directorate of	
18.	Onsite &offsite Disa prepared to meet accident. Mock dri twice a year and m be incorporated in I	any eventi lls shall be odifications	Onsite Emergency preparedness plan prepared and mock drills are being conducted regularly.	
19.	The following rules MOE&F, GOI shall baby a) Hazardous was Transboundry Move b) Manufacture, St Chemicals Rules 19	and regula be implemente (Manage ement), Rule orage and	Noted and accepted.	
20.	Green belt consisting of 3 tiers of plantations around the plant of 150m width and density not less than 2500 saplings per ha.shall be developed with area not less than 33% of total area. Existing Green belt shall not be distributed in the proposed expansion/construction activity.			Complied.
21.	The recommendations/commitments made during the Public Hearing held on 4.2.2009 at Main gate of industry, Vemagiri (V), Kadiyam (M), East Godavari District shall explicitly be followed from pollution control point of view.			Noted and accepted.
22.		Environment	th all the conditions tal Clearance issued by MOE&F, GOI.	Noted and accepted

Compliance Status of Consent Order No. APPCB/VSP/RJY/10097/CFO/HO/2015-3548,DT:19.08.2015 and extended by auto renewal up to 31.08.2018

SCHEDULE - A

	Conditions	Status
1.	The applicant shall make applications through online for renewal of Consent (under Water and Air Acts) and Authorisation under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board along with detailed compliance to the conditions stipulated in the CFO and HWA Order.	Complied.
2.	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.	Noted and accepted.
3	All other conditions stipulated in the schedule-A of the earlier CFO & HWA order No : APPCB/VSPP/RJY/316/CFO/HO/2011-2625 dated 18.11.2011 remains same. The industry shall ensure consistent compliance of each condition of Schedule-A.	Noted and accepted.
4.	The industry may explore the possibility of tapping the solar energy for their energy requirements.	Will be explored.
5.	The industry shall immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions etc.	Noted and accepted.
6.	a) All the fugitive emissions shall be controlled with proper measures. b) The applicant shall also install the equipment such as wind speed recorder, wind direction recorder.	GREL has installed continuous emission monitoring systems for the HRSG stacks and common weather monitoring station is operational for GVPGL and GREL.
7.	The applicant shall not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and shall not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.	Noted and accepted.
8.	The applicant shall, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production shall be stopped.	Complied
9.	Any up-set condition in any plant/plants of the industry, which result in, increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board, occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur shall forth with intimate the fact	Noted and accepted.

20.	The occupier shall educate the workers and nearby public	Regularly conducting mock
17.	Justice, Government of India regarding Public Liability Insurance Act, 1991 shall be followed.	Noted and accepted.
19.	Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes shall be followed. All the rules & regulations notified by Ministry of Law and	Noted and accepted.
17.	The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability. All the rules & regulations notified by Ministry of	Noted and accepted. Noted and accepted.
16.	The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.	Noted and accepted.
15.	The applicant shall comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant shall be liable for such legal action against him as per provisions of the Law/Act in case if non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.	Noted and accepted.
14.	Separate power connection with energy meter shall be provided for the Pollution Control Equipment's and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.	Being a common complex GMR Rajahmundry Energy Limited will utilize GMR Vemagiri Power generation Limited ETP for final water disposal. Common Energy meter provided for ETP and Reservoir water system. Air pollution control is integral part of GTG.
13.	The applicant shall setup Three Ambient Air Quality stations for continuous recording of relevant critical parameters mentioned in Schedule-B as per the CPCB guidelines and submit monthly reports.	One common Ambient Air Quality station (For GVPGL&GREL) for continues recording installed. Other common AAQ stations installed in consultation with APPCB, R.O, Kakinada.
12.	a) The industry shall carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this order at regular intervals. b) The industry shall maintain following records to accessible to the Board, whenever required. 1. Analysis reports of waste water/ emissions. 2. Log book for operation of pollution control systems. 3.Inspection book	Effluent Treatment Plant is common for both GREL and GVPGL. Analysis will be carried out at regular intervals and reports will be submitted to the board regularly.
11.	A good housekeeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.	Chemical area (DM Plant) floor washings are connected to the Neutralization system only. Good housekeeping is being maintained at all areas.
10.	to this Board, by fax / email under intimation to the Collector and District Magistrate. In case of such episodal discharges / emissions mentioned in item 6 above, the industry shall take immediate action to bring down the discharge / emission below the limits prescribed in this order.	Noted and accepted.
	of such occurrence or the apprehension of such occurrence	

		<u></u>
		to local people through GMR
21	Francisco estidante en estilla esta Chamanda esta esta esta esta esta esta esta est	Varalakshmi Foundation.
21.	For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.	Noted and accepted.
22.	In case of closure of industry, the un-used/not consumed raw materials falling under the category of Hazardous Chemicals and mentioned in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2003 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally acquired, then they shall be treated, as Hazardous Waste and they shall be disposed off only to the agencies authorized by APPCB in a safe manner.	Noted and accepted.
23.	The occupier shall prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.	Noted and accepted.
24.	Packaging, labeling and transportation of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers shall be provided with a general label.	Noted and accepted.
25.	The driver who transports Hazardous Waste shall be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter shall carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.	Noted and accepted.
26.	Containers/container liners of Hazardous chemicals and Hazardous Wastes shall be thoroughly detoxified before selling to the agencies Authorized by APPCB. Proper records, specific to each Hazardous chemical/Hazardous Waste containers/container liners shall be maintained in the following way. 1. Number of containers received. 2. Date and method of detoxification. 3. Name of agencies to whom containers were sold with quantities. 4. Transportation particulars.	Not applicable.
27.	No Hazardous Wastes shall be mixed with any other wastes or shall be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.	Noted and accepted.
28.	If HDPE bags are used for storing Hazardous Wastes, it shall be ensured that they are perfectly sealed mechanically or double hot sealed. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums / bags shall be ensured that they are perfectly sealed.	Noted and accepted.
29.	The person authorized shall not rent, lend, sell, and transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Noted and accepted.
30.	Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the	Noted and accepted.

	person authorized shall constitute a breach of his authorization.	
31.	The industry shall comply with the provisions of Batteries (Management & Handling) Rules, 2001.	Noted and accepted.
32.	The industry shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board shall provide information on specific conditions of CFO and Hazardous Waste Authorization. The second sign board shall display online data on quantity and nature of hazardous chemicals being used in the plant, as well as water, air emissions and solid waste generated within the factory premises	At Main gate board installation work completed and being updated regularly CFO and Hazardous Waste Authorization conditions compliance.
33.	The applicant shall exhibit the Consent & HW Authorization order of the Board in the factory premises at a prominent place for the information of the inspecting officers of the different departments.	Complied.
34.	Not withstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Noted and accepted.
35.	The authorisation issued under Hazardous Waste (Management ,Handling and trans boundary movement) Rules, 2008 and its amendments thereof, shall comply with the provision of the Environment (Protection) Act, 1986.	Noted and accepted.

SCHEDULE - B

4	The industry shall hand ever the evicinal concept and	Noted and accepted
1.	The industry shall hand over the original consent order	Noted and accepted.
	NO APPCB/VSP/RJY/10097/CFO/HO/2013-5915, dated	
	23.12.2013, having validity up to 31.08.2015, to the RO,	
	Kakinada after receipt of this order and the same stands	
	cancelled from the date of receipt of this order	
2.	The effluent discharged shall not contain constituents in	complied
	excess of the tolerance limits mentioned below.	
	Outlet Parameter Limiting Standards	
	1,2,3 & 4 pH - 6.5 to 8.5	
	Suspended solids 100 mg/l	
	Oil and grease 20 mg/l	
	Total residual chlorine 1.0 mg/l	
	Dissolved Phosphates 5.0 mg/l	
	Copper 1.0 mg/l	
	Iron 1.0 mg/l	
	Zinc 1.0 mg/l	
	Chromium(Total) 0.2 mg/l	
	BOD 30 mg/l	
	COD 250 mg/l	
	Temperature shall not exceed 5 deg C above the	
	receiving water temperature.	
3.	The water consumption shall not exceed the quantities	complied
	mentioned below:	,
	S.No.	
	Purpose Total	
	1. DM Plant regeneration and Back wash 136 KLD	
	2. Cooling Makeup 20736 KLD	
	3. HRSG Boiler feed 768 KLD	
	4. Domestic 10 KLD	
	II DOMESTIC TO KED	

	Total 21650 KLD. The industry shall maintain separate meters with necessary pipe-line for assessing the	
	quantity of water used for each purpose.	
4.	The industry shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month, along with water meter readings. The industry shall remit water cess as per the assessment orders as and when issued by the Board.	Complied. Water consumption is being monitored regularly. It is below the given quantities.
4.	The industry shall maintain separate water meters to	Complied
	assess the quantity of water consumed at various sections with necessary pipeline for assessing the quantity of water used for each of the purposes mentioned below:	
	a. Industrial cooling, boiler feed.	
	b. Domestic purposes.	
	c. Processing, whereby water gets polluted and	
	pollutants are easily biodegradable.	
	d. Processing, whereby water gets polluted and	
	pollutants are not easily biodegradable.	
5.	The industry shall submit the ETP performance reports every month to the EE, RO, Kakinada.	Being Complied with.
6.	The Industry shall maintain closed cycle cooling system	Provided closed cooling system to conserve the water required
	to conserve the water required for cooling purposes.	for cooling purpose.
7.	The industry shall maintain storm water drains to avoid flooding of surrounding lands during heavy rains.	Industry has provided separate storm water drain system.
8.	The industry shall not discharge any wastewater outside the factory premises and maintain zero discharge of effluents.	Accepted and noted
9.	The emissions shall not contain constituents in excess of the prescribed limits mentioned below. Particulate matter 100 mg/NM3 and NOx <50 ppm	Complied
10.	The Industry shall comply with emission limits for DG Sets of capacity up to 800KW as per the notification G.S.R.520(E),Dated:01/07/2003 under the Environment (Protection) Amendment Rules,2003 and G.S.R.448(E),Dated:12/07/2004 under the Environment(Protection) second amendment rules,2004.In case of DG Sets of capacity more than 800 KW Shall comply with emission limits as per the notification G.S.R.489(E) ,Dated:09/07/2002 at serial no. 96,under the Environment(Protection) Act,1986.	Noted and Accepted
11.	The industry shall comply with ambient air quality standards of PM10 (Particulate matter size <10µm) - 100 µg/m3; PM2.5 (Particulate matter size <2.5µm) - 60 µg/m3; SO2 - 80 µg/m3; NOx - 80 µg/m3.Out side the factory premises at the periphery of the industry. Standards of other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I,Dated:18/11/2009. Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)	Being Complied with.
12.	The industry shall not manufacture any product, other than the mentioned in this order.	Accepted and noted.

13	The industry shall inform RO-kakinada in advance of restarting of operations	Accepted and noted.
14.	The industry shall provide dry low NOx combustion technology burners and it shall be ensured that NOx emission from individual stack shall be limited to 50 ppm.	Gas turbine is provided with Dry Low NOx Combustion system to control NOx.
15.	The industry shall calibrate the continuous online stack monitoring system every 3 months to ensure that values are correct and submit the reports to RO Kakinada.	Noted and accepted.
16.	The Industry shall maintain continuous ambient air monitoring stations(AAQM) within the plant as per the specification of CPCB for online monitoring of SO2,NOx,PM2.5,PM10.	One common Ambient Air Quality station, (For GVPGL&GREL) for continues recording installation done.
17.	The industry shall discharge effluent into Kadiam Ava drain only with the permission given by Irrigation Department, Govt. of A.P.	Noted and accepted.
18.	The industry shall maintain greenbelt consisting of 3 tiers of plants around the plant of 150 m width and density not less than 2500 samplings per ha shall be developed with area not less than 33% of total area.	33% Green belt development is completed.
19.	The Industry shall implement the action plan for development of Energy plantation.	Noted.
20.	The Industry shall comply with all the conditions stipulated in the CFE(Expansion) order No.316/PCBCFE/RO-KKD/HO/2009,Dated 31.05.2010 and 03.03.2011.	Accepted and noted.
21.	The Industry shall comply with all the conditions stipulated in the EC(Expansion) order dated 28.01.2010.	Accepted and noted.
22.	The applicant shall submit Environment Statement in Form-V before 30th September ever year as per rule no 14 of E(P) rules,1986 & amendments thereof.	complied.
23.	The conditions are without prejudice to the rights and contentions of this Board in the Hon'ble Court of India.	Accepted and noted.

SCHEDULE - C [See rule 5(4)] [CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

HAZA	RDOUS WASTES]	
1.	Industry shall give top priority for waste Minimization and cleaner production practices.	Noted and accepted.
2.	The Industry shall not store Hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary movement) Rules, 2008 and amendment thereof.	Noted and accepted.
3.	The industry shall store Used/Waste oils and Used Lead Acid Batteries in a secured way in their premises till its disposal.	Noted and accepted.
4.	The industry shall not dispose Waste oils to the traders and same shall be disposed to the authorized Reprocessors/Recyclers.	Noted and accepted.
5.	The industry shall dispose Used Lead Acid Batteries to the manufacturers/dealers on buyback basis.	Noted and accepted.
6.	The industry shall take necessary practical steps for prevention of oil spillages and carryover of oil from the premises.	Noted and accepted.
7.	Industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.	Noted and accepted.
8.	The industry shall maintain good house keeping&maintain proper records for Hazardous Wastes stated in	Noted and accepted.

	Authorization.	
9.	The industry shall maintain proper records for Hazardous Wastes stated in Authorization in Form-3 i.e. quantity of incinerable waste, land disposal waste, recyclable waste etc, and file annual returns in Form-4 as per rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules,2008 and amendments thereof.	Noted and accepted.
10.	The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule B & C of this order on half yearly basis to Board Office, Hyderabad and concerned Regional Office	Being Complied with.
11.	The industry shall dispose of e-waste to the authorized recyclers only.	Noted and accepted.

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's.
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 and induced draft cooling system. Effluents shall be treated and will be complied the 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 self 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.	
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.
Х	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

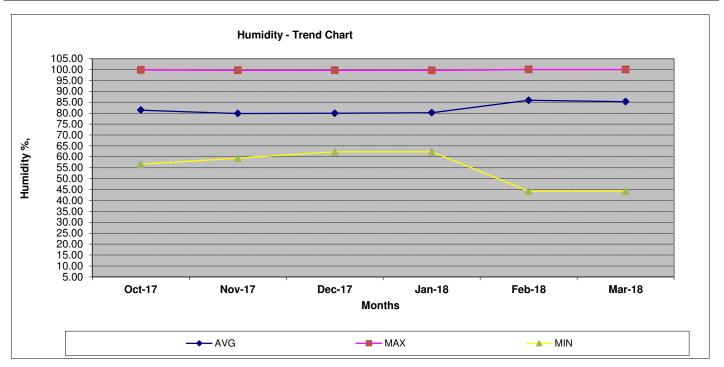
XXV	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the	complied
	reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State 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.	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.
XXIV	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. The project proponent shall submit six monthly	Shall be complied The compliance report is being
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 email) 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.
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), S02, 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.
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.
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.
	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	

GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
VAVE A TUED MACAUTODINIO DATA
WEATHER MONITORING DATA

Monthly Average Humidity, %

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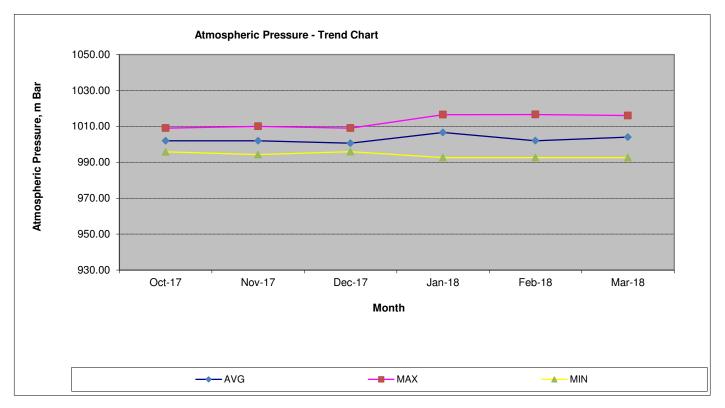
Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
AVG	81.37	79.85	79.95	80.22	85.9	85.28	82.09	85.88	79.85
MAX	99.84	99.63	99.63	99.59	100.0	100.00	99.78	100.00	99.59
MIN	56.60	59.34	62.30	62.30	44.3	44.36	54.87	62.30	44.30
AVG							78.91		
MAX								100.00	
MIN									44.30



Monthly Average Atmospheric Pressure, m Bar

Oct-17 to Mar-18

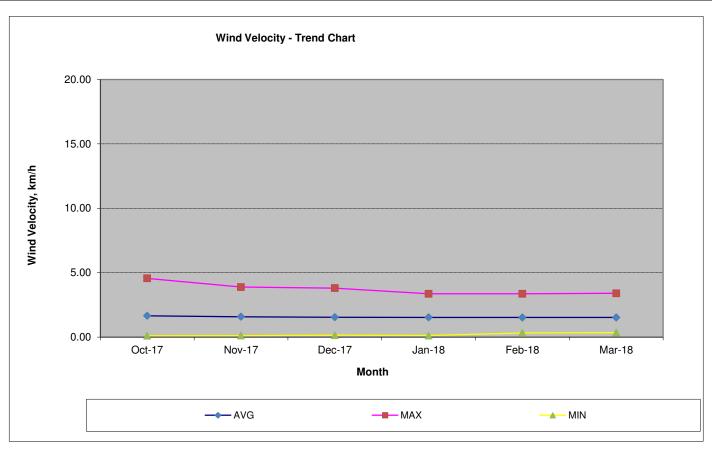
Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
AVG	1001.94	1001.93	1000.59	1006.59	1002.0	1004.00	1002.84	1006.59	1000.59
MAX	1009.00	1010.00	1009.00	1016.50	1016.6	1016.00	1012.85	1016.60	1009.00
MIN	995.80	994.30	995.90	992.60	992.6	992.60	993.97	995.90	992.60
AVG							1003.22		
MAX								1016.60	
MIN									992.60



Monthly Average Wind Velocity, m/s

Oct-1	7	to	Mar-1	8
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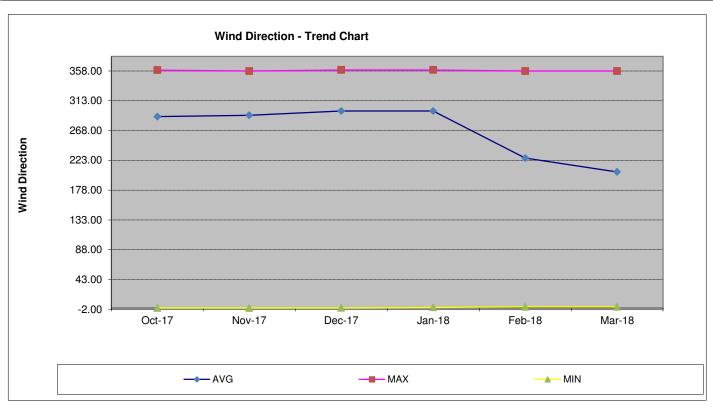
Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
AVG	1.65	1.58	1.54	1.53	1.52	1.52	1.56	1.65	1.52
MAX	4.56	3.88	3.80	3.36	3.36	3.40	3.73	4.56	3.36
MIN	0.10	0.11	0.14	0.12	0.32	0.35	0.19	0.35	0.10
AVG							1.82		
MAX								4.56	
MIN									0.10



Monthly Average Wind Direction, Degree (Reference- North 0°)

Oct-17 to Mar-18

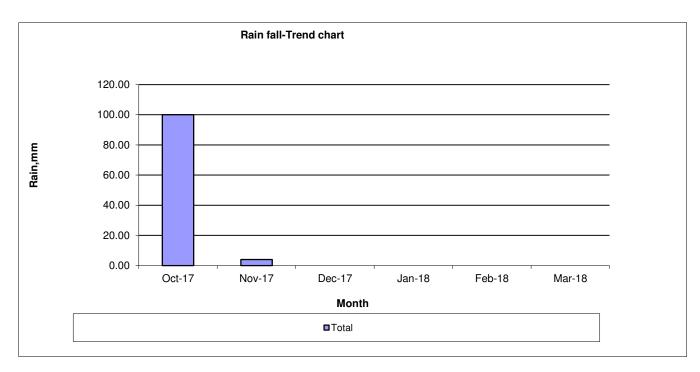
Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
AVG	289.00	291.00	297.40	297.40	226.4	205.50	267.78	297.40	205.50
MAX	359.20	357.80	359.40	359.40	357.8	357.80	358.57	359.40	357.80
MIN	0.10	0.10	0.12	0.84	1.8	1.80	0.79	1.80	0.10
AVG							209.05		
MAX								359.40	
MIN									0.10



Monthly Total Rain Fall, mm

Oct-17 to Mar-18

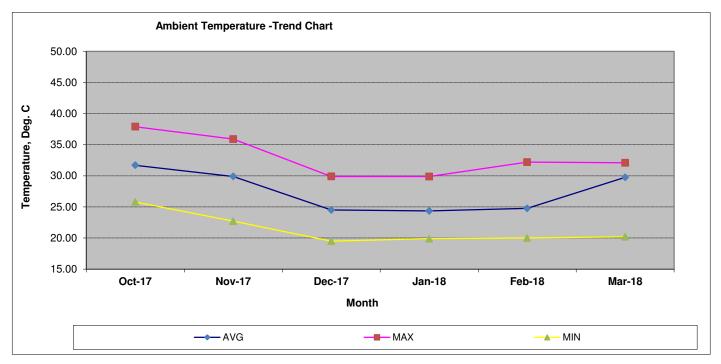
Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Total	MIN
Total	100.00	4.00	0.00	0.00	0.00	0.00	104.00	0.00
No of rainy days	7.00	2.00	0.00	0.00	0.00	0.00	9.00	0.00



Monthly Average Ambient Temperature, °C

Oct-17 to Mar-18

Month	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
AVG	31.70	29.90	24.50	24.35	24.76	29.75	27.20	31.70	24.35
MAX	37.90	35.90	29.90	29.89	32.20	32.10	32.98	37.90	29.89
MIN	25.80	22.70	19.50	19.90	20.00	20.20	21.35	25.80	19.50
AVG							27.18		
MAX								37.90	
MIN									19.50

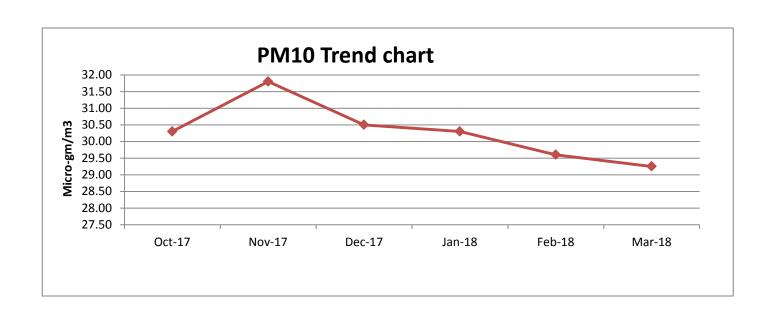


GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
AMBIENT AIR QUALITY MONITORING
DATA

Monthly Average PM₁₀ μg/m3

Oct-17 to I	Иa	ır-1	8
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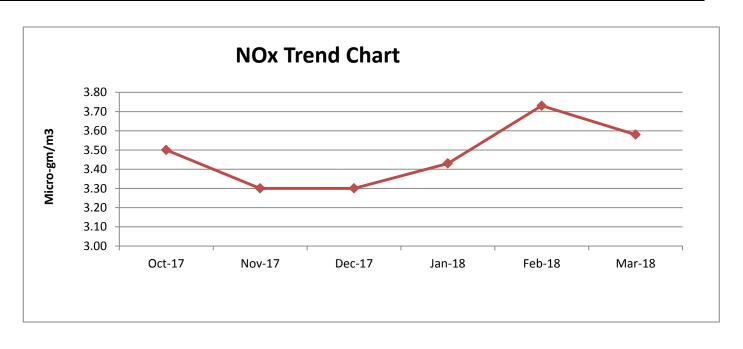
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
Plant Main Gate	30.30	31.80	30.50	30.30	29.60	29.25	30.29	31.80	29.25



Monthly Average NOx μg/m3

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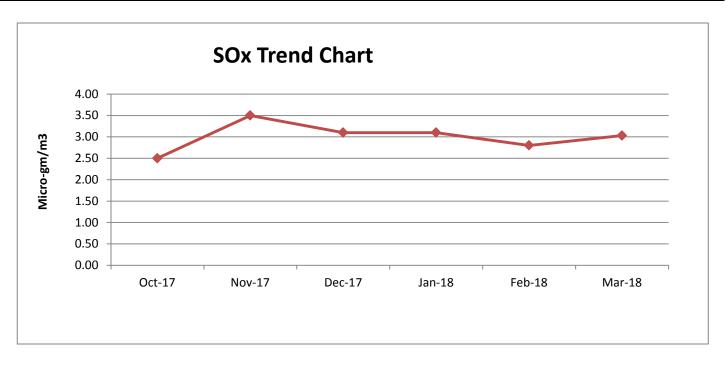
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
Plant Main Gate	3.50	3.30	3.30	3.43	3.73	3.58	3.47	3.73	3.30



Monthly Average SO₂ μg/m3

Oct-17	to	Mar-18	
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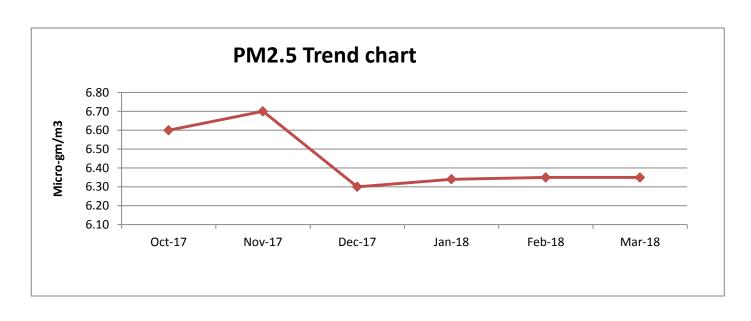
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
Plant Main Gate	2.50	3.50	3.10	3.10	2.80	3.03	3.01	3.50	2.50



Monthly Average PM_{2.5} μg/m3

Oct	-17	to	Ma	r-1	R	
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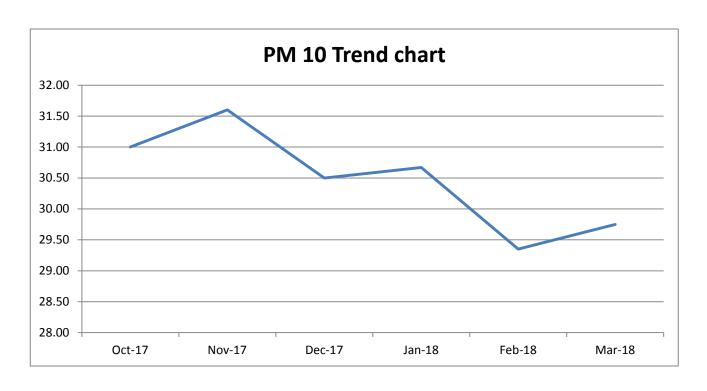
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
Plant Main Gate	6.60	6.70	6.30	6.34	6.35	6.35	6.44	6.70	6.30



Monthly Average PM₁₀ μg/m3

Oct-17	to	Mar-18
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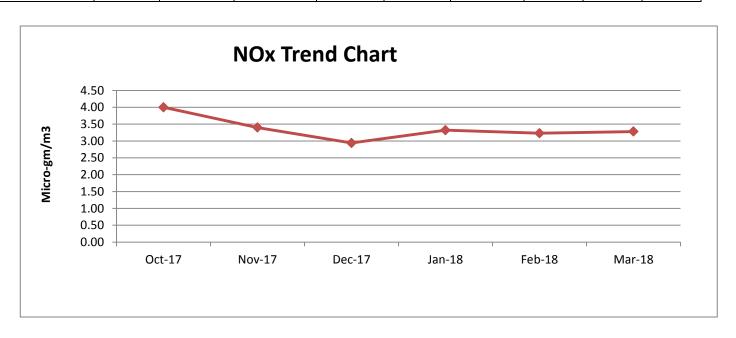
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
South side of the Plant Boundary	31.00	31.60	30.50	30.67	29.35	29.75	30.48	31.60	29.35



Monthly Average NOx μg/m3

Oct-17	7 to M	ar-18
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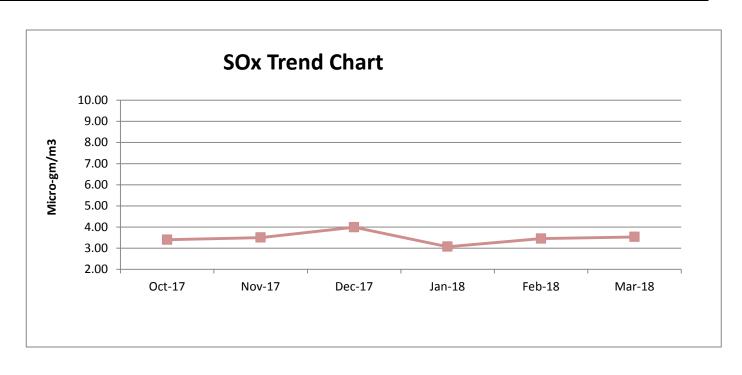
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
South side of the Plant Boundary	4.00	3.40	2.94	3.32	3.23	3.28	3.36	4.00	2.94



Monthly Average SO₂ μg/m3

Oct-17	7 to M	ar-18
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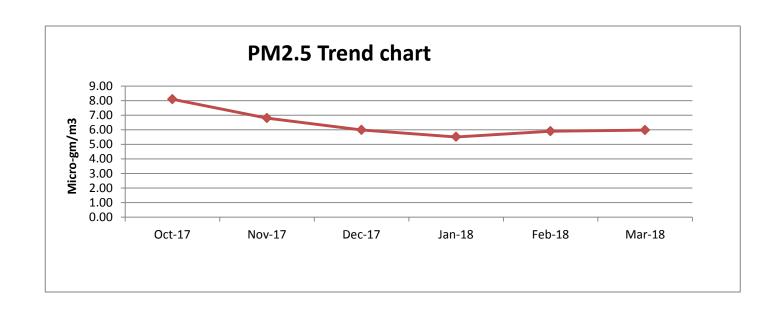
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
South side of the Plant Boundary	3.40	3.50	3.99	3.07	3.45	3.53	3.49	3.99	3.07



Monthly Average PM_{2.5} μg/m3

Oct-17 to	Mar-18
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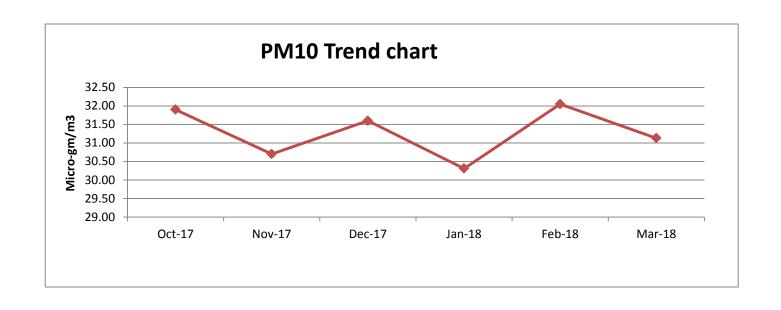
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	МАХ	MIN
South side of the Plant Boundary	8.10	6.80	5.99	5.51	5.90	5.98	6.38	8.10	5.51



Monthly Average PM₁₀ μg/m3

Oct-17	to	Mar-1	8
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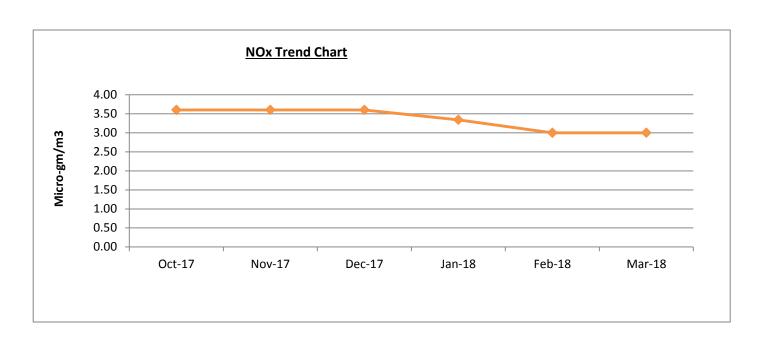
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant North East Boundary Wall	31.90	30.70	31.60	30.31	32.05	31.13	31.28	32.05	30.31



Monthly Average NOx μg/m3

Oct	-17	7 to	Ma	r-18
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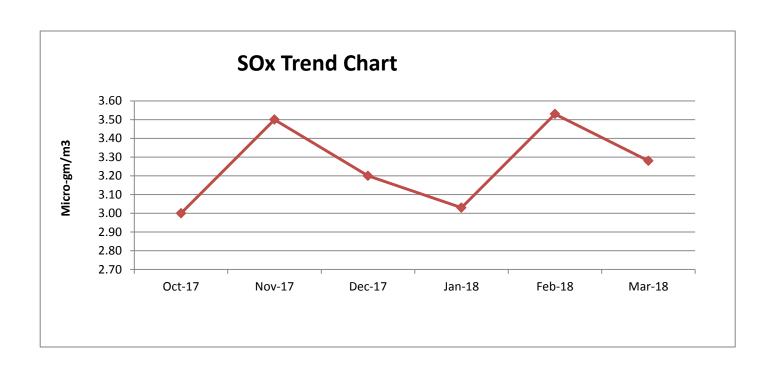
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant North East Boundary Wall	3.60	3.60	3.60	3.34	3.00	3.00	3.36	3.60	3.00



Monthly Average SO₂ μg/m3

Oct-17	to	Mar-1	8
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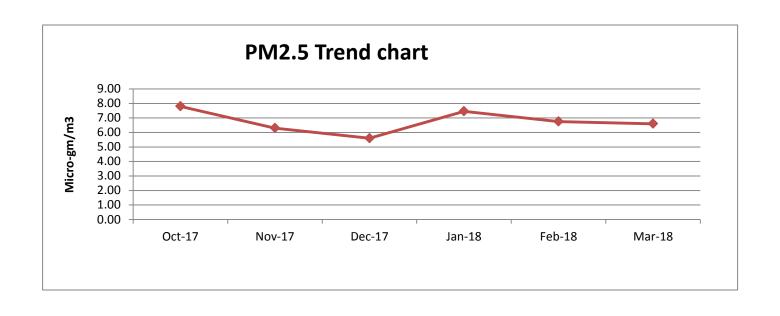
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant North East Boundary Wall	3.00	3.50	3.20	3.03	3.53	3.28	3.26	3.53	3.00



Monthly Average PM_{2.5} μg/m3

Oct-17	to	Mar-18	
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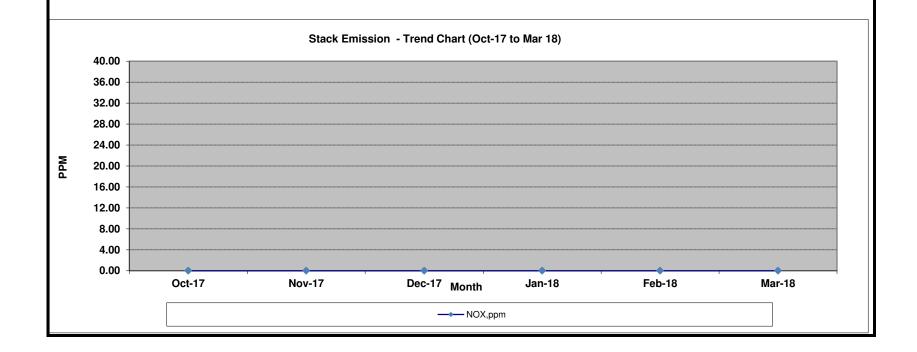
Month / Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant North East Boundary Wall	7.80	6.30	5.60	7.46	6.75	6.60	6.75	7.80	5.60



GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
STACK EMISSION DATA

Monthly Average Stack Emission Report (Oct-17 to Mar-18)										
Month/Parameters	Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 AVG MAX N								MIN	
NOX,ppm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



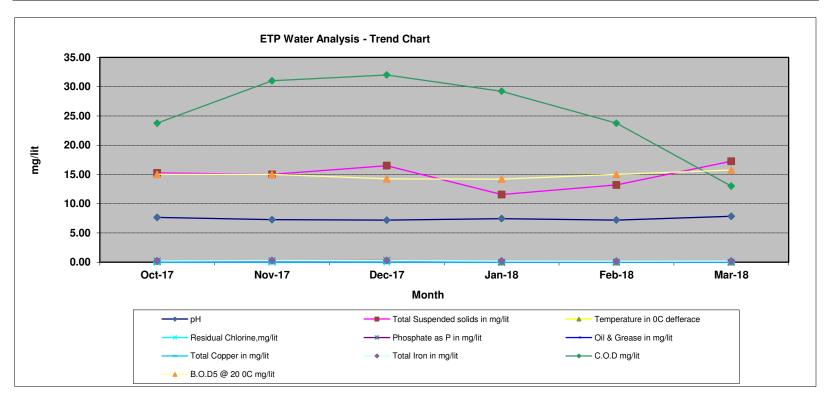


GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
EFFLUENT QUALITY DATA

Monthly Effluent Treatment Plant Water Analysis Report

Oct-17	to	Mar-	18

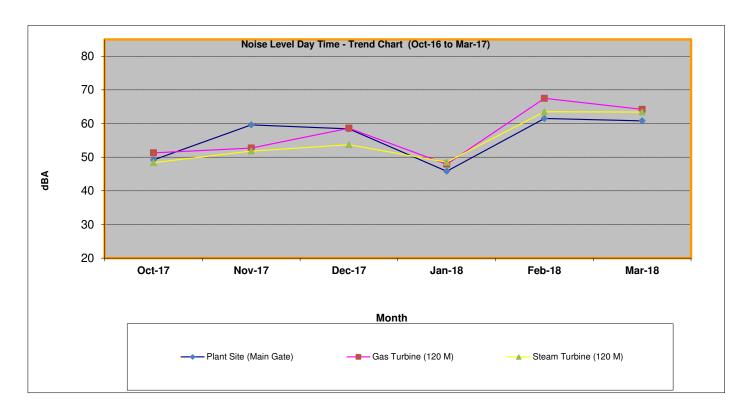
Month/Parameters	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
рН	7.65	7.27	7.19	7.45	7.20	7.85	7.44	7.85	7.19
Total Suspended solids in mg/lit	15.3	15.0	16.5	11.6	13.2	17.3	14.79	17.25	11.56
Temperature in ⁰ C defferace	0.19	0.26	0.31	0.10	0.10	0.10	0.18	0.31	0.10
Residual Chlorine,mg/lit	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phosphate as P in mg/lit	0.21	0.25	0.31	BDL	BDL	BDL	0.26	0.31	0.21
Oil & Grease in mg/lit	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Copper in mg/lit	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Iron in mg/lit	0.23	0.28	0.28	0.20	0.18	0.20	0.23	0.28	0.18
C.O.D mg/lit	23.8	31.0	32.0	29.2	23.8	13.0	25.45	32.00	13.00
B.O.D ₅ @ 20 ^o C mg/lit	15.0	15.0	14.3	14.2	15.0	15.8	14.87	15.75	14.20



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GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
NOISE LEVEL MONITORING RECORD

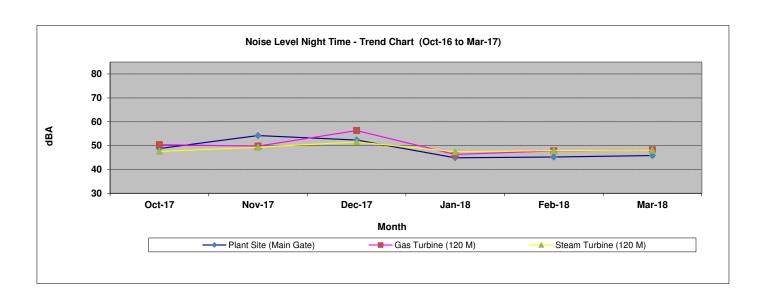
Noise Level Day Time Oct-17 to Mar-18

Month/Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant Site (Main Gate)	49.2	59.6	58.4	45.8	61.5	60.8	55.88	61.50	45.80
Gas Turbine (120 M)	51.3	52.7	58.6	47.9	67.5	64.2	57.03	67.50	47.90
Steam Turbine (120 M)	48.4	51.8	53.7	48.5	63.5	63.4	54.88	63.50	48.40



Noise Level Night Time Oct-17 to Mar-18

Month/Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
Plant Site (Main Gate)	48.8	54.2	52.3	44.9	45.2	45.8	48.53	54.20	44.90
Gas Turbine (120 M)	50.4	49.8	56.3	46.3	47.8	48.2	49.80	56.30	46.30
Steam Turbine (120 M)	47.6	49.3	51.5	47.4	47.9	48.1	48.63	51.50	47.40



GMR RAJAHMUNDRY ENERGY LIMITED
Environment Monitoring Report
Oct 17 to Mar 18
WATER BALANCE
WAILH BALANCE

Water Balance Report

Oct-17 to Mar18

Month/Location	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	AVG	MAX	MIN
CW Make-up	0	0	0	0	0	0	0	0	0
Domestic	110	100	125	168	160	208	145	208	100