GMR Rajahmundry Energy Limited



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

T +91 80 40432000 F +91 80 40432333 W www.gmrgroup.in

Ref: GREL-RJY/O&M/21/ >7

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

GMR Rajahmundry Energy Limited



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East Godavari District,
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DT: 03/Jul/2021

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

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,
Vijāyāwādā – 520 008

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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.

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Thanking you,

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For GMR RAJAHMUNDRY ENERGY LIMITED

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SIX MONTHLY ENVIRONMENTAL COMPLIANCE REPORT

GMR RAJAHMUNDRY ENERGY LIMITED

Vemagiri Village, Kadiam 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 f the power plant. In case the fuel is changed fro natural gas to any other fuel, liquid or solid, the proponent shall apply for such a change 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 Expendicular to the power of the proposed such as the power of the pow	or GMR Rajahmundry Energy Ltd units are designed for Natural Gas firing only.
II	Two stacks of 70 m each shall be provided wit continuous online monitoring equipments. Exvelocity of flue gases shall not be less than 2 m/sec.	completed along with continuous online monitoring equipment.
III	Closed cycle cooling system with natural draft cooling tower shall be provided. The effluent 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
IV	No ground water shall be extracted for the project	norms. 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
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.	same complex. Existing Common
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.
X	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.
	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.	
ΧI	FIRST AID and sanitation arrangements shall be	OR complied
	made for the univers and other contract works	oe complied
VYY	adming construction phase	
XII	Noise levels emanating from turbings about he	o Personnel protective equipme
	controlled Such that the more and	cquipine
	side be infliced to /5 dB (A. For neonle working ;	and might house at
	die night hoise dred, requisite personal protection	Tiolse let
	equipment like earnings/ear muffe etc chall b	se sering carried out.
	provided. Workers engaged in noisy areas such a	- 1
	compressors etc chall be	
	periodically examined to maintain audiometric	-
	record and for treatment for any hoaring less	
/	Including Siliting to non-noisy/less noisy areas	1
III	regular monitoring of ground level consenting	Complied
	1 9 902, NOX, KSPM (PMITI & DM) El ata ataut	
	Curricu out III the impact zone and records	_
	The modern of the control of the con	. I
	to exceed the prescribed limits necessary control	
	incusures stidli be provided immediately. The	- 1
	location of the monitoring stations and from the	
	of monitoring Stidil De decided in concultation with	
	To CD. relibuit leports shall be submitted to the	
	regional Office of this Ministry. The data chall also	
r\ /	be put on the website of the company	1
[V	Action plan for R&R (as applicable) with suitable	Not applicable.
	package for the project affected parcons shall be	
	Subtricted and implemented at loast as	
	provident NOR DOILEV WITHIN three months from	
,	che date di issue di this letter	
<i>'</i>	An amount of Rs 10.0 Crores shall be earmarked	Being complied with. CSR
	as one time capital cost for CSP programa	Being complied with. CSR Programmes are being conducted
	Subsequently d recurring expenditure of De 2.0	The series conducted
	Civies bei dilliulli Shall he earmarked as resuming	thorough GMR Varalakshm
	experiditure for CSR activities Details of the	
	decivities to be undertaken shall be submitted	
	within one month along with road map for implementation.	
I	implementation.	
	As part of CSR programme the company shall	Complied. CSR Programmes are
	Conduct need pased assessment for the	being conducted thorough GMR
	vindyes to study economic measures with notice	Varalakshmi Foundation.
	Pidir Willell (d) Hell) In the liftment of poor souls.	
	of society. Income generating projects consistent	
1	with the tidultiful skills of the noonly best	
1	Tarm fruit beauting	
	orchards, vocational training etc. can form a part	
	of such programme. Company shall provide	
	separate budget for community development	
-	activities and income generating programmes.	
li	This will be in addition to vocational training for individuals imparted to take the second	
ā	individuals imparted to take up self-employment and jobs.	
ĪF	Provision shall be made for the l	
0	construction labour within the site with all	complied
l n	necessary infrastructure and facilities such as fuel	2 "
f	or cooking, mobile toilets, mobile STP, safe	
d	drinking water, medical health care, crèche, etc.	
T	The housing may be in the form of temporary	
S	tructures to be removed after the	
1 61	tructures to be removed after the completion of he project.	
IT	he project propoport shall all all all	
		The information was published in
re	egion around the project one of which about	local newspaper.
t		The information was published local newspaper.

	the vernacular language of the locality concerne	20
	Willing Severi units from the date of this cleaner	
	letter, illioillillillillillillillillillillillil	1
	decorded environmental clearance and copies	of
	clearance letter are available with the Star	OI
	Pollution Control Board/Committee and may als	te
	be seen at Website of the Ministee and may als	60
	be seen at Website of the Ministry of Environmen	nt {
XIX	and rolests at http://envior nic in	
VIV	A copy of the clearance letter shall be sent by the	e Documents have been submitted.
	proported to concerned panchavat Zilla paricha	d de la constantine de la cons
	, Hamelpar Corporation, urban local Body and th	<u> </u>
	Local NGO, If any from whom	
	suggestions/representations if any receive	4
	wille processing the proposal The classes	_ 1
	letter shall also be put on the website of the	6
	Company by the proponent.	е
XX	A dedicated Environment management Cell with	
	Suitable qualified personnal about	
	suitable qualified personnel shall be set-up unde	
	the control of a Senior Executive, who will repor	t manage environmental relate
	directly to the Head of the Organization.	issues.
XXI	The	
VVI	The proponent shall upload the status of	Regular monitoring is being carried
	compliance of the stipulated EC conditions	Out and compliance data at all
	including results of monitored data on their	the state of the s
	Website dilu Sildii lindate the came periodicali.	and company web site
	Sindi Sillidicously De Sent to the Degional Office	the second completed.
	of model, the respective tonal Office of Coco	
	The Sieco. The Chiefla 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.	
XXII	The project property of all	
	The project proponent shall also submit six	The compliance report is being
	monthly reports on the status of compliance of	
	and supulated EC Conditions including recults of	sent Regional office of MOEF and
	monitored data (both in hard copies as well by	CPCB at Chennai.
	mail) to the respective Regional Office of More	and onterman.
VVTTT	the respective Zolldi Office of CPCB and the CPCB	
XXIII	The environment statement for each financial year	Shall be complied
	ending SISt March in Form-V as is mandated to	Shall be complied
	be submitted by the project proponent to the	
	concerned State Politician Control Board as	
	prescribed under the Environment (Protection)	
	Rules, 1986. As amended subsequently, shall also	1
	be put on the website of the company along with	
	the status of compliance of TC	
	the status of compliance of EC conditions and	
	shall also be sent to the respective Regional	
VIX	Offices of the Ministry by e-mail.	-
W.T.A.	The project proponent shall submit six monthly	The compliance report is being
	reports on the status of the implementation of the	prepared once in six months and
	subdidited elivirollinental safeguards to the	sent Regional office of Management
	initially of Environment and Forests, its Pegional	sent Regional office of MOEF and CPCB at Chennai regularly
	Office, Cellula Pollution Control Board and Chair	
	rollution Control Board. The project proposest	Compliance data shall be up loaded
	shall upload the status of compliance of the	in the Web site.
	environment of the environmental clearance	
	conditions on their website and conditions of their website and	
	conditions on their website and update the same	
	e-mail to the same by	
	citian to the Regional Office Ministry of	
	Environment and Forests.	
		1
XV	Regional Office of the Ministry of E	complied

XXVI	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.	
	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.	Hoted and accepted
XVII	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.	complied
.XXVII I	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.	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 shabe reported to the concerned Regions Office.A.P.Pollution Control Board once in simonths.	all Complied. Six monthly compliant 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.	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
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/VSPP/RJY/10097/CFO/HO/2015 3548,DT: 19.08.2015, Valid up to 31/08/2017 and subsequently renewed
5.	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.
	The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the inspecting officers of different departments.	Complied.
5.	environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.	, , , , , , , , , , , , , , , , , , , ,
•	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.	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
•	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.	premises. GVPGL and GREL are located in the same complex. Existing Common rain water harvesting system connected to the total complex.
	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.
).	This order is valid for period of 5 years from the date of issue.	Noted and accepted.

SCHEDULE	=	R
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1.	The	Source of water	r ic Div	or Code		
	max	ximum permitted	I Water	er Goda		
	exp	ansion is 36236 KI	water	consur	nption afte	er GMR Vemagiri Power Generation
	SI.	Purpose				Limited to CMP Paighters deneration
	No.	Purpose	Existing	Proposed	Total after	Limited to GMR Rajahmundry Energy
	1.40.		(KLD)	(KLD)	expansion	Littled. Granted Water consumption
	(a)	DM Plant Pro		The state of the	(KLD)	TOT GMR Rajanmundry Energy Limite
	"	DM Plant Regeneration and back wash	115	136	251	is 21650 KLD.
	(b)	HIRCO Daily				The state of the s
		HRSG Boiler feed	269	768	1037	
	(C)	Cooling Makeup	14000	20736	34736	6
	(d)	Domestic	16	10	26	
	(e)	Gardening	186	Nil	186	
	L	Total	14586	21650	36236	
2.	The	maximum Waste \	Water G	eneration	(VID) obs	
	not e	exceed the following	na.	cheration	(KLD) sna	Complied
	SI.				1	
		Purpose	Existing.	Proposed	Total after	
	No.	A medical Company of the	(KLD)	(KLD)	expansion	
	le in l	the street of the street			(KLD)	
1	a)	DM Plant Regeneration &	115	136	251	
	127	Back wash	4 Table - (c)			
		HRSG Boiler blow down	244	290	622	
				288	532	
1	4)	Cooling tower blow down	2064	3840	5904	
		Domestic and Floor	. 11. 4	7	18	
	- V	vashing	Jesusen.	ajadohi wa	12 T 12 A 1 T	
	1	otal	2434	4271	6705	
		The state of the s				
	The	PCCI	-			
	me	Effluent Treatme	nt Plan	it (ETP)	& Sewage	Existing GVPGL STP is in
		nent Diant (31P)	chall b	on const.		Existing GVPGL STP is in
	comm	issioned along wit	th the	e consti	ucted and	operation.GVPGL and GREL are located
	notivit	nissioned along with	in the co	ommissio	ning of the	
	CICCIVI	y mi the units of	the FTD	about to		
1 '			CIIC La I	Shall be	impervious	
		ty. All the units of event ground water		\n		effluent treatment system shall be
		Vent diound warer		\n		effluent treatment system shall be utilized for both GMR Units.
1	The e	effluents shall be	treated	to the e	- In- I 6	effluent treatment system shall be utilized for both GMR Units.
i	The e	iffluents shall be ion/surface water	treated	to the e	- In- I 6	effluent treatment system shall be
i	The e irrigat stipula	iffluents shall be in surface water ated	treated standar	on. to the o ds as ap	n land for plicable as	effluent treatment system shall be utilized for both GMR Units.
i	The e irrigat stipula	iffluents shall be in surface water ated	treated standar	on. to the o ds as ap	n land for plicable as	effluent treatment system shall be utilized for both GMR Units.
i	The e irrigat stipula Enviro	iffluents shall be in ion/surface water ated in ment(Protection)	treated standar	to the ods as ap	n land for plicable as under ed and	effluent treatment system shall be utilized for both GMR Units.
i S F	The e irrigat stipula Enviro publisl	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry	treated standar	to the ords as ap	n land for plicable as under ed and	effluent treatment system shall be utilized for both GMR Units.
i S E	The e irrigat stipula Enviro publisi Forest	iffluents shall be in ion/surface water ated in ment(Protection) hed by Ministry s.Governemnt of	treated standar Rules,19	to the ords as ap	n land for plicable as under ed and nent and	effluent treatment system shall be utilized for both GMR Units.
i S E	The e irrigat stipula Enviro publisi Forest	iffluents shall be in ion/surface water ated in ment(Protection) hed by Ministry s.Governemnt of	treated standar Rules,19	to the ords as ap	n land for plicable as under ed and nent and	effluent treatment system shall be utilized for both GMR Units.
i S I I	The edirrigatestipula	iffluents shall be in ion/surface water ated in ment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R	treated standar Rules,19 y of India .422(E),	to the ords as ap	n land for plicable as under ed and nent and	effluent treatment system shall be utilized for both GMR Units.
i S F F S	The edirrigation in the stipulation in the stipulat	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R	treated standar Rules,19 y of India .422(E),	to the ords as ap 986,notifi Environn as spe dt.19.05	n land for plicable as under ed and nent and ecified in	effluent treatment system shall be utilized for both GMR Units.
i E F S ii	The e irrigat stipula	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R amendments the ids/conditions stings.	treated standar Rules,19 y of India .422(E), hereof,	to the ods as ap 986,notifi Environn as spo dt.19.05	n land for plicable as under ed and nent and ecified in additional	effluent treatment system shall be utilized for both GMR Units.
i E F S ii	The e irrigat stipula	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R amendments the ids/conditions stings.	treated standar Rules,19 y of India .422(E), hereof,	to the ods as ap 986,notifi Environn as spo dt.19.05	n land for plicable as under ed and nent and ecified in additional	effluent treatment system shall be utilized for both GMR Units. Noted and accepted.
i i i i i i i i i i i i i i i i i i i	The e irrigat stipula Enviro publisi Forest Sched ts standa ndust	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R amendments the irds/conditions stip ry shall adopt clos	Rules, 19 y of India .422(E), hereof, bulated b	to the ods as ap 986, notification as spoudt. 19.05 and by APPCB	n land for plicable as under ed and nent and ecified in additional	effluent treatment system shall be utilized for both GMR Units. Noted and accepted.
i S I F S it S	The e irrigat stipula Enviro publisi Forest Sched ts standa ndust	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R amendments the irds/conditions stip ry shall adopt clos we the water requires.	Rules, 19 y of India .422(E), hereof, bulated by	to the ords as ap 986, notification as sport of the total and order or the total and order	n land for plicable as under ed and nent and ecified in additional	effluent treatment system shall be utilized for both GMR Units. Noted and accepted. Provided closed cycle cooling system.
i i i i i i i i i i i i i i i i i i i	The eirrigat stipula stipula stipula storest Scheduts atanda ndust conserhe i	iffluents shall be in ion/surface water ated inment(Protection) hed by Ministry s,Governemnt of ule VI vide G.S.R amendments the irds/conditions stip ry shall adopt clos we the water requindustry shall to ion ion/stip in the industry shall to ion ion/stip industry shall to ion/stip industry shall	Rules, 19 y of India .422(E), hereof, bulated by the cycle	to the ords as ap 986, notific Environm as sport and by APPCB cooling pure cooling pure points.	n land for plicable as under ed and nent and ecified in 1993 and additional . System to urposes.	effluent treatment system shall be utilized for both GMR Units. Noted and accepted. Provided closed cycle cooling system and induced draft cooling system
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7	The individual	
7.	The industry shall provide necessary storm wat drains to avoid flooding of surrounding lands durin heavy rains.	water drain system.
0.	Separate meters with necessary pipe-line shall to provided for assessing the quantity of water use for each of the purposes mentioned below. a)Industrial cooling, boiler feed. b) Domestic purposes. c) Processing, whereby water gets polluted an pollutants are easily bio-degradable. d) Processing, whereby water gets polluted an pollutants are not easily bio-degradable.	d d
9.	The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following fo controlling air pollution.	- Joinpiled
	S. Details of Stack 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 X 70 Mtrs. 2 X 13 m e) Control equipment Acoustic Enclosures to each boiler	
1.	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 designed with latest technology of DLN 2+ Burner system in Gas Turbine for controlling NOx emissions.
	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. The industry shall install and commission	Complied
	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 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.
9	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 in consultation with APPCB, Regional officer and reports being submitted regularly.
a fi p b ti	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 Volume point shall be provided on the platform.	Sampling- system provided as per the guide lines.
W	vith silencer and suitable noise absorption ystems. The ambient noise level shall not exceed 5dB(A) during day time and 70 dB(A) during night me.	Acoustic Enclosures provided for Gas turbine generators and other high noise generating equipments.In addition to these enclosures Ear protection devices provided for

16.		proponent shall	I comply wi	th the following:	
	No	generated from	After expansion Quantity	Method of Disposal	Accepted and noted.
	1)	Waste Lubricating Oll	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.	Fire		d firefight	ing facilities with	Complied.
10	Firefi	ghting,	onsultation	shall be provided in with Directorate o	f
19.	accide twice be inc	ent. Mock drills a year and mo corporated in Di	s shall be difications in saster Man	ement plan shall be ally in case of any conducted at least required if any shall agement Plan.	prepared and mock drills are being conducted regularly.
-	MOE& a) Ha Transl b) Ma Chemi	F, GOI shall be zardous waste boundry Movern nufacture, Storicals Rules 1989	ind regulation implement (Management), Rules (age and in	ions notified by the ed. hent, Handling and , 2008. hport of Hazardous	and a special i
20.	less the with a Green expans	nan 2500 saplir rea not less tha belt shall not t	150m widt ngs per ha.: an 33% of t be distribute	ers of plantations in and density not shall be developed total area. Existing and in the proposed	Complied.
21.	the Pul industr Godava pollutio	ecommendations blic Hearing helicy, Vemagiri ari District shal	s/commitm d on 4.2.20 (V), Kad ll explicitly of view	ents made during 109 at Main gate of iyam (M), East be followed from	Noted and accepted.
	- COUNTRY	dustry shall co led in the Env der dt.28.1.201	ironmental	all the conditions Clearance issued MOE&F, GOI	Noted and accepted

Compliance Status of Consent Order No. APPCB/VSP/RJY/10097/CFO/HO/2020-dated 04.09.2020 and renewed up to 31.08.2021

SCHEDULE - A

1.	Conditions Any up-set condition in	Status
	result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the collector and District magistrate and take immediate action to bring down the discharge / emission below the limits	Noted and accepted.
2.	a) The industry shall carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in this order on quarterly basis and submit the board	Plant is common for both GREL and GVPGL Analysis being carrier out at regular interval and reports submitting to the board of
3.	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 shall be followed as applicable.	monthly basis Noted and accepted.
4. 5.	The industry should put up two sign boards (6 X 4 ft each) at public visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	At Main, gate 2 boards installed and being updated regularly.
5. 5.	Notwithstanding anything contained in the consent order, the board hereby reserves the right and powers to review / revoke 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.
	The industry shall ensure that there shall not be any change in the process technology, source & composition or raw materials and scope of working without prior approval from the board	Noted and accepted.
	rules,1986 & amendments thereof.	Complied.
	The applicant shall make applications through online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should 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 and quantity of emissions. Any change in the management shall be informed to the board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior	Noted and accepted.

	permission of the state pollution control board	
9.	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.
10.	The industry shall be liable to pay Environmental compensation / Other environmental taxes, if any environmental damage caused to the surroundings as fixed by the Collector and District Magistrate or any other competent authority as per the rule in vogue.	Noted and accepted.
11.	The industry may explore the possibility of tapping the solar energy for their energy requirements.	Noted and accepted.

1.	The industry shall report to DO Walting	
	The industry shall report to RO, Kakinada in advance or restarting of operations of the power plant and RO Kakinada shall verify the compliance	,
2.	The industry shall provide separate energy meters to ETP and Air pollution control equipment (APC) before starting the operations.	Noted and accepted.
3.	The industry shall submit the condition wise compliance 6 monthly reports	e Complied
4.	The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below.	Being complied with
	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.	
	The water consumption shall not exceed the quantities 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 Total 21650 KLD. The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each purpose.	Being complied with. Presently plant not in operation.
	every month to the EE, RO Kakinada	Being Complied with.
	to conserve the water required for cooling purposes.	Provided closed cooling system to conserve the water required
	The industry shall maintain storm water drains to avoid	for cooling purpose.

-	flooding of surrounding lands during heavy rains. The emissions shall not seek in the see				
9.		storm water drain system.			
10					
10.	The industry shall comply with ambient air qua				
	standards of PM10 (Particulate matter size <10µm)	lity Being Complied with. Present			
-	100 μg/m3; PM2.5 (Particulate matter size <10μm μg/m3; SO2 - 80 μg/m3; NOx -) - plant not in operation.			
1					
1	Standards of other parameters as mentioned in the National Ambient Air Quality Standards	ry.			
		cation			
	No.B-29016/20/90/PCI-I, Dated: 18/11/2009.				
	TOISE LEVELS, DAV TIME (6 AM to 10 DAY)				
11	THE HIGUSTY Shall comply with the Mark of the				
10					
12.	THE THUUSHV Shall comply with				
	Sets of capacity up to 800KW as per the notification of G.S.R.520(E). Dated: 01/07/2003	OG Noted and Accepted			
		on			
	(Protection) Amendment Rules, 2003 ar				
	G.S.R.448(E), Dated: 12/07/2004				
	Livil Ullilleni (Protection)				
	rules, 2004. In case of DC Sats of as a summitted				
	KW Shall comply with emission limits as per th	U			
		e			
13.					
13.		O DILL			
	Mercaptan or cause odour nuisance in the surroundings				
		is not using such type of substances			
		Substances			
	General				
	General				
14					
14.	The industry shall not manufacture as				
14.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this				
	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order.	Noted and accepted.			
	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture arrives the consented of the consented quantity mentioned in this order.	Noted and accepted.			
	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this	Noted and accepted.			
15.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture any product other than those mentioned in this order.	Noted and accepted. Noted and accepted.			
15.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture any product other than those mentioned in this order. The industry shall maintain death.	Noted and accepted. Noted and accepted.			
15.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture any product other than those mentioned in this order. The industry shall maintain dry low NOx combustion technology burners and it shall be	Noted and accepted. Noted and accepted. Gas turbine is provided with			
15.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture any product other than those mentioned in this order. The industry shall maintain dry low NOx combustion technology burners and it shall be ensured that NOx emission from individual stack shall be limited to Form	Noted and accepted. Noted and accepted. Gas turbine is provided with Dry Low NOx Combustion			
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15. 16. 17. 8.	The industry shall not manufacture new products & shall not exceed the consented quantity mentioned in this order. The industry shall not manufacture any product other than those mentioned in this order. The industry shall maintain dry low NOx combustion technology burners and it shall be ensured that NOx emission from individual stack shall be limited to 50 ppm. 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. 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. 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.	Noted and accepted. Noted and accepted. Gas turbine is provided with Dry Low NOx Combustion system to control NOx. Noted and accepted. Ambient Air Quality station installed and being maintained. 33% Green belt developed and being maintained. Energy plantation integral part			
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t

	05.02.2014 / 02.03.2015 and the guidelines issued
	regarding online monitoring systems issued from time to
23.	The industry shall
24.	The industry shall maintain separate powers
	The industry shall maintain separate power consumption Substances records pertaining to pollution control accepted
25.	records pertaining to pollution control equipment. Noted and accepted.
26.	firefighting equipment in the plant The industry challenge of the plant The industry challenge of the plant
	The industry shall renew the PLI policy which includes Environmental relief fund (ERF) and submit copy to PO
	Environmental relief fund (ERF) and submit copy to RO, The industry on yearly basis Noted and accepted.
27.	The industry shall wadde
	The industry shall update the information in OCEMS-industry information data entry software for compliance kept in place and data
	reporting protocol in part-II (sections F & C) First
	reporting protocol in part-II (sections F & G) Every through the coffusion, 1st April, 1st July and 1st October
	through the software system
28.	Any other directions / circular (
-	MoEF & CC and APPCB shall be followed time to time. Noted and accepted.
29.	The industry shall identify the followed time to time.
	chemicals and list out the hazardous chemicals endangered to human health a facility major accident hazard Noted and accepted.
	endangered to human health & Environment and the details shall be furnished to the factorials
	details shall be furnished to the factories Department and the and to the Regional office.
	and to the Regional office, APPCB time to time duly
	certifying the same by the industry. Further the industry
	shall extend training to the working personnel while
	handling hazardous chemicals for prevention of accidents
	and necessary antidotes to ensure and safety, as per the
30	MSHC Rules, 1989.
50	The industry shall submit the copy of the safety audit Noted and accepted
	report and On-site / Off site emergency plans as applicable after being certified by the safety audit applicable after
	applicable after being certified by the Factories
	department to the APPCB, regional office from time to
	time, if the storage quantity of hazardous chemicals is
	equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSTHC miles 128
31	specified in schedule 2 & 3 of MSIHC rules, 1989.
	The industry shall carry out calibration of safety Noted and accepted equipment's and leak detection contact.
	equipment's and leak detection systems at regular Noted and accepted
	intervals and shall certify the same with the Factories department. The certified copy shall be
	APPCB, Regional office CDy Stidli be submitted to the
	APPCB, Regional office. The industry shall install
	industry premises
2	The industry shall inventories the
	its quantities stored within the industry premises as per the Hazardous and other wastes (Marchael Complied).
	the Hazardous and other moustry premises as per
1.	Transboundary Mayement Wastes (Management and
	2016) and shall furnish the details to Regional office,
1	APPCB on monthly basis duly certifying the by the
	ndustry.
3 7	The industry shall submit the self-certification on Complied
	IWA order.

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

1	The authorises	- COOL TEN	UK	OPERATOR	HANDLING
1	The authorized person shall comply with the Environment (protection) Act. 198	the provisions of	01-	L - 1	
	the Environment (protection) Act, 198	5. and the rules	INO	ted and accept	ed
	made there under	of and the fules			

2.	The authorization shall be produced for inspection at request of an officer authorized by the	
	request of an officer authorized by the state pollucontrol board.	the Noted and accepted
3.	control board.	ition
3.	The person authorized shall not rent, lend, sell, trans	
	or otherwise transport the hazardous and other wa except what is permitted through this part.	sfer, Noted and accepted
1	except what is permitted through this authorization.	stes
4.		
	working conditions as mentioned in the application by	or Noted and accepted
	person authorized shall constitute a breach of	the
E .	authorization.	his
5.	The person authorized shall implement Emerge Response Procedure (ERP) for which this	
	Response Procedure (ERP) for which this authorization being granted considering all either authorization	ncy Noted and accepted
	being granted considering all site specific possiscenarios such as spillages leakages file	1 IS
	scenarios such as spillages, leakages, fire etc. and the	DIE
	possible impacts and also carry out mock drill in t	hic
6.	regard at regular interval of time.	IIIS
0.	THE DEISON AUTHORIZED Chall	and Male I
	outlined in the Central Pollution Control Board guideling on "implementing Liabilities for Environment and Control Board guideling to the Control Board gui	ns Noted and accepted
	on "implementing Liabilities for Environmental Damag	195
	due to Handling and Disposal of Hazardous Waste a penality".	nd
7.	It is the duty of the	
	It is the duty of the authorized person to take pri	or Noted and accept
	down the facility	se
8.	An application for the recent of	
	An application for the renewal of an authorization shall to made as laid down under these rules	ne Noted and accepted
9	Any other conditions for consult	
	Any other conditions for compliance as per the Guideline issued by the Ministry of Environment, Forest and Climat change or Central Pollution, Control Press, and Climater	es Noted and accepted
	change or Central Pollution Control Board from time t	e did decepted
	time.	0
	Gmodfi.	
.0.	Annual return shall be filed by June 30th for the period	
	ensuring 31st March of the year	d Noted and accepted
1.	THE INDUSTRY Shall comply with the	
	rules, 2016 in terms of interstate transport Hazardous waste and manifest document present as	Noted and accepted
	waste and manifest document prescribed under rule 18	5
2	and 19 of the HWM rules, 2016.	3
2	THE INDUSTRY Shall not store the	
	than 90 days as per the Hazardous Waste for more wastes (Management Handling and other	Noted and accepted
	wastes (Management, Handling and Transboundary movement) Rules, 2016	
3	movement) Rules, 2016.	
,	The industry shall store Used/Waste oils / Oil filters in a secured way in their premises till its diameter.	N
	secured way in their premises till its disposal to the	Noted and accepted
	manufactures / dealers on buy back basis.	
	THUUSELV SHAIL MAINTAIN 7	
		Noted and and
	submitted to generated and a copy shall be	Noted and accepted
	submitted to concerned period and a copy shall be	Noted and accepted
	submitted to concerned Regional Office of APPCB. The	Noted and accepted
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be should be well	Noted and accepted
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well any emergency during transit. The transporter should be acquainted about the procedure to be followed in case of carry as Transport Emergency (TDTA).	Noted and accepted
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well any emergency during transit. The transporter should be acquainted about the procedure to be followed in case of carry as Transport Emergency (TDTA).	Noted and accepted
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of any emergency during transit. The transporter should carry as Transport Emergency (TREM) card. The industry shall maintain proper records for Hazardous Wastes stated in Authorization.	a despect
in	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of any emergency during transit. The transporter should carry as Transport Emergency (TREM) card. The industry shall maintain proper records for Hazardous Vastes stated in Authorization in Form-3 i.e. quantity of according to the content of the conten	Noted and accepted Noted and accepted
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of any emergency during transit. The transporter should carry as Transport Emergency (TREM) card. The industry shall maintain proper records for Hazardous Vastes stated in Authorization in Form-3 i.e. quantity of accidental carry and file annual returns in Form-3 recyclable waste to, and file annual returns in Form-3.	a despect
	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of any emergency during transit. The transporter should be active as Transport Emergency (TREM) card. The industry shall maintain proper records for Hazardous Wastes stated in Authorization in Form-3 i.e. quantity of accinerable waste, land disposal waste, recyclable waste to, and file annual returns in Form-4 as per rule 20(2) of the driver who transport is a process of the same accineration wastes.	Noted and accepted
in e	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of the acquainted about the procedure to be followed in case of the industry shall maintain proper records for Hazardous Wastes stated in Authorization in Form-3 i.e. quantity of the industry shall maintain proper records for Hazardous Wastes stated in Authorization in Form-3 i.e. quantity of the industry shall returns in Form-4 as per rule 20(2) of the Hazardous Wastes (Management, Handling & Tansboundary Movement) Pulses 2016	Noted and accepted
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iii e ti	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of the acquainted about the procedure to be followed in case of the acquainted about the procedure to be followed in case of the acquainted about the procedure to be followed in case of the acquainted about the procedure to be followed in case of the industry shall maintain proper records for Hazardous wastes stated in Authorization in Form-3 i.e. quantity of acquainted to the control of the acquainted and the control of the acquainted and the acquainted acquainted and the acquainted acquainted and the acquainted acq	Noted and accepted
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in e ti	submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of any emergency during transit. The transporter should carry as Transport Emergency (TREM) card. The industry shall maintain proper records for Hazardous Wastes stated in Authorization in Form-3 i.e. quantity of accinerable waste, land disposal waste, recyclable waste tc, and file annual returns in Form-4 as per rule 20(2) of the Hazardous Wastes (Management, Handling & ransboundary Movement) Rules, 2016.	Noted and accepted

The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental clearance (EC), consent for Establishment (CFE) and Consent for operation (CFO) through website i.e. https://pcb.ap.gov.in by 1st of January and 1st July every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through NABL accredited third party.

Half-yearly compliance reports are being submitted on time by industry. NABL certification for half-yearly compliance shall be complied once plant resumes operation.