गेल (इंडिया) लिमिटेड
GAIL (India) Ltd.
(A Government of India Undertaking)
(A Maharatna Company)

पोस्ट: गेल कॉम्पलेक्स,विजयपुर
जिला गुना (म.प्र) 473 112
P.O. GAIL COMPLEX, VIJAIPUR
DISTT. GUNA (M.P) 473 112
दूरभाष/Phone: (07544) 274444
फैक्स/Fax: (07544) 274600

GAIL/VIJP/EMC/10/EC-Compliance/12/2020

Date: 15.12.2020

EI485673451 IN
16.12.2020

To,

Addl. Principal Chief Conservator of Forests (Central),
Ministry of Environment & Forests,
Regional Office,
Kendriya Paryavaran Bhavan,
Link Road No .3,
Bhopal – 462016.

Sub: Regarding Six Month Point-wise Compliance Status of Conditions under Environment Clearance accorded to C2C3 recovery & Gas Processing Unit, DVPL, VDPL of GAIL (India) Ltd., by Ministry of Environment & Forests.

Ref.: Your letter No. J-11011/168/2011-IA II (I) dated 02.03.2012 for C2C3 recovery & GPU
Your letter No. J-11011/46/2002-IA II (I) dated 09.10.2002 for Dahej Vijaipur Pipeline (DVPL).
Your letter No. J-11011/1054/2007-IA II (I) dated 08.01.2008 for Vijaipur Dadri Pipeline (VDPL).

Dear Sir,

This is in reference to the Environment Clearances, under the provisions of EIA Notification dated 14th September 2006, accorded by your good office to **GAIL (India) Ltd.** Respectively as per ref. in accordance with the Environment (Protection) Act, 1986; Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981.

In regard to the same & in compliance of the conditions stipulated in the respective Environment Clearances, the Six – monthly point-wise compliance status of the conditions under the various clearances accorded by MoEF for the pipelines under the aegis of GAIL Vijaipur are being enclosed for your ready reference.

We shall be deeply obliged if you would kindly acknowledge the receipt of the same by sending the stamped & signed copy of the same to the following address for official record purposes.

Thanking you.

Sincerely Yours,

For GAIL (India) Ltd., Vijaipur

H.H. Meshram,
DGM (O&M-TS)
GAIL Vijaipur

Point-wise Compliance Status of Conditions under Environmental Clearance accorded to C2C3 Complex, GAIL Vijaipur

EC Ref. No. J-11011/168/2011-IA II (I) dated 02.03.2012

S. No.	Details of Conditions under Environmental Clearance	Status of Compliance
A	**General Conditions**	
1	The Project Authorities must strictly adhere to the stipulations made by the Madhya Pradesh Pollution Control Board.	Duly Noted & Complied
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of the conditions imposed & add additional environmental protection measures required, if any.	Duly Noted & Complied
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) & it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied . 2 nos. of real time AAQMS stations have installed in upwind & downwind directions.
4	The overall noise levels in the plant shall be kept well within the standards by providing noise controls measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dB (A) (day time) & 70 dB (A) (night time).	Complied
5	The Company shall harvest rainwater from the rooftops of the buildings & storm water drains to recharge the ground water & use the same water for the process activities of the project to conserve fresh water.	Complied
6	Training shall be imparted to all employees on safety & health aspects of chemicals handling. Pre-employment and routine periodical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	First-time & refresher training is regularly provided by F&S department on safety & health at GAIL Vijaipur. Annual Overall Health Check-up (OHC) done as per Factories Act for all employees. Safety Training roster is being maintained for all contract employees as well.
7	The company shall also comply with all the environment protection measures & safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/ EMP in respect of environment management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied
8	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages & administration.	Complied
9	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied
10	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.	Complied
11	The company shall earmark sufficient funds towards capital cost & recurring cost per annum to implement the conditions stipulated by the MoEF as well as State government alongwith the implementation schedule of for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Complied.
12	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla parishad/ Municipal corporation, Urban local body, & the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied at the time
13	The Project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitoring data (both in hard copies as well as by e-mail) to the respect regional office of MoEF, the respective zonal office of CPCB & MPPCB. A copy of Environmental clearance & six monthly compliance status shall be posted on company's website.	The status report of the compliances of stipulated EC conditions shall be submitted as per the defined frequency to all concerned authorities.
14	The environment statement for each financial year ending 31st March in Form V as is mandated shall be submitted 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 alongwith the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of the MoEF by e-mail.	Complied. Latest Environment Statement enclosed for ready reference.
15	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution control Board/ Committee & may also be seen at the website of the Ministry & Forests at http://www.envfor.nic.in. This shall be advertised within 7 days from the date of issue of the clearance letter, in at least 2 local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Ministry's RO at Bhopal.	Complied at the time

16	The project authorities should inform the regional office as well as the Ministry, the state of financial closure and final approval of the project by the concerned authorities and the date of commencing the Land development work.	Complied.
B	**Specific Conditions**	
1	All the specific and general conditions specified in the environment clearance letters accorded vide Ministry's letter nos. J-11011/19/88-IA.II-(I) dated 24th May 1988, J-11011/46/2002-IA.II dated 9th October 2002 & J-11011/1054/2007-IA.II dated 8th January 2008.	Complied and status submitted at the time of application to SPCB as well.
2	M/s GAIL (India) Ltd. shall comply with new standards / norms prescribed for petrochemical industry notified under the Environment (Protection) Rules, 1986.	Necessary precautions and actions have been taken care while designing & engineering of the project by M/s EIL and standards/norms are being taken care of during operation of plant.
3	The process emissions (particulate matter, SO2, NOx, HC, CO & VOCs) from various units shall conform to all standards prescribed by the CPCB/ MPPCB from time to time. At no time, the emissions levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measure are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	Complied
4	Low NOx burner shall be installed to control NOx emissions.	Already incorporated in design of the units and Low NOx burners have been installed and hence the condition is complied.
5	Ambient Air Quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826 €dated 16th September, 2009.	All Ambient Air data is collected and analyses based on NAAQS Standards.
6	In-plant control & monitoring measures for checking fugitive emissions from all the vulnerable sources should be provided. Adequate dust suppression systems with water spray system shall be provided for storage yard, junction houses. Raw material loading & unloading areas should be covered and also provided with water spraying systems. Fugitive emission in the Work zone environment, product, raw materials, storage area etc. shall be regularly monitored and record maintained. The emissions should conform to the limits stipulated by MPPCB.	Necessary emission detection instruments are strategically installed at various locations in the plant. They are being continuously monitored and records maintained during operation of the plant
7	Steps shall be taken to minimize fugitive emissions. Monitoring of fugitive emissions shall be carried out as per guidelines of CPCB by fugitive emissions detector and report shall be submitted to the Ministry's Regional Office at Bhopal. Continuous monitoring system for VOC's at all important places / areas should be ensured. When monitoring results indicate above the permissible limits, effective measures need to be taken immediately.	Complied. Fugitive emission monitoring is being carried out by IR camera periodically
8	Continuous ambient air quality monitoring stations for PM10, SO2, NOx, CO, HC & VOCs shall be set up in the petrochemical complex in consultation with CPCB/ MPPCB. Unit shall follow CPCB/ MoEF calibration protocol for the calibration of continuous Stack as well as ambient air quality monitoring analyzer installed in all stations. Data of stack monitoring and ambient air shall be displayed on web as well as outside the premises at prominent place for public viewing. The company shall upload the results of the monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, respective zonal offices of CPCB & MPPCB.	Complied
9	A proper Leak detection & Repair (LDAR) Program shall be prepared and implemented. Focus shall be given for prevention of fugitive emissions for which maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	Complied. Fugitive emission monitoring is being carried out by IR camera periodically
10	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Accoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Stack height and acoustic insulation provided to DG set, hence Complied.
11	The total freshwater requirement from Gopikrishna Sagar Dam shall not exceed 830 m3/hr and prior permission from the concerned authority. No ground water shall be used.	Fresh water requirement shall not exceed 830 m3/hr. No ground water is used.
12	As proposed additional effluent generation shall not exceed 133 m3/hr. Industrial effluent shall be treated in effluent treatment plant (ETP) and treated effluent shall be recycled and reused within factory premises. Company shall construct guard pond for collection of treated effluent and shall carry out water quality test by collecting the treated effluent before application. Water quality of treated effluent shall conform to the norms prescribed by CPCB/ MPPCB from time to time. As proposed, sewage shall be transferred to aeration tank alongwith process wastewater.	Additional effluent generation shall not exceed 133 m3/hr. Treated effluent is constantly monitored through real-time EQMS and confroms to prescribed limits. As per design, sewage is transferred to aeration tank.
13	No effluent shall be discharged outside factory premises and 'Zero' discharge concept shall be adopted.	Noted. The same shall be complied at all times since GAIL Vijaipur is already a Zero-discharge facility.
14	Process effluent/ any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied
15	The company shall obtain Authorisation for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling & Trans-boundary movement) Rules, 2008 and amended as on date for management of Hazardous Wastes and prior permission from MPPCB shall be obtained for disposal of solid/ hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency.	Complied
16	Spent catalyst & bottom tank sludge shall be sent to authorised recyclers/ reprocessors.	Noted and shall be complied in case applicable.

17	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process like material handling. Fire fighting system should be as per the OISD norms. All the OISD standards shall be followed.	Full-fledged Fire & safety department exist and is well equipped with adequate infrastructure & resources to meet any emergency. All OISD norms are followed.
18	OISD guidelines shall be followed for minimum distance between various units.	Complied during design and engineering.
19	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicles Act (MVA), 1989	Complied as applicable.
20	The company shall undertake following waste minimsation measures:	
	a) Metering & control of quantities of active ingredients to minimise waste.	Complied.
	b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Noted and shall be complied in case applicable.
	c) Use of automated filling to minimize spillage	Not applicable since no routine filling activity takes place.
	d) Use of Close feed system in batch reactors	Not applicable since batch processing does not take place at GAIL Vijaipur. However, entire plan operation is in closed loop.
	e) Venting equipment through vapor recovery system.	All gas venting (either planned or unplanned) is routed through our Flare recovery system wherein Flare gas is recovered & utilised as Fuel gas at plant & township (cooking gas).
	f) Use of High pressure hoses for equipment cleaning to reduce wastewater generation	High pressure air line as part of utilities have been installed in plant areas for reducing water-based cleaning activities.
21	Green belt shall be developed in 33% area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick greenbelt with suitable plant species shall be developed around the proposed expansion.	Existing Green Belt area is greater than 33% of total plant area.
22	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened & the regular medical test records of each employee shall be maintained separately.	Complied
23	All the recommendation mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Complied at the time.
24	All the commitments made during the Public hearing/ Public Consultation meeting held on 9th September 2011 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Complied at the time.
25	Company shall prepare project specific environmental manual and a copy shall be made available at the project site for the compliance.	Complied
26	Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006/-IA.II(I) dated 26th April, 2011 and implemented. Under Corporate Social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in & around the project.	Complied
27	Provision shall be made for the housing for the construction labor within the site with all the necessary infrastructure and facilites such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical healthcare, creche, etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surroundings.	Complied at the time.

Point-wise Compliance Status of Conditions under Environmental Clearance accorded to Dahej - Vijaipur Pipeline (2002)

S. No.	Details of Conditions under Environmental Clearance	Status of Compliance
A	**General Conditions**	
1	The Project Authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complied
2	There will be no change in the Pipeline route, design, capacity without the prior approval of this Ministry.	No change
3	During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest, power line, buildings etc. in the vicinity of Pipeline and in consonance with local government regulations.	Complied
4	The Project Authorities must strictly comply with the rules & regulations under Manufacture, Storage & Import of Hazardous Chemicals Rules, 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.	Complied
5	Detailed Risk Analysis of the pipeline and associated facilities must be done once the Engineering design & layout is frozen. Based on this, on site & off site Emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.	Complied
6	Adequate provisions for infrastructural facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during construction phase so as to avoid felling of trees & pollution of water & the surroundings.	Complied during construction phase.
7	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment/ Environmental Management Plan and risk analysis report.	Complied as per EIA/ EMP.
8	The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution to road construction, education of Health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever & wherever possible both for technical & non-technical jobs.	Complied time to time through CSR Projects.
9	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.	Complied
10	The project authorities will provide adequate funds both recurring & non-recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Complied
11	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional office at Bhopal/ State Pollution Control Board/ Central Pollution Control Board. A Six monthly compliance status report should be submitted to monitoring agencies.	Complied
12	A separate environmental management cell with full-fledged laboratory facilities to carry out various management & monitoring activities should be set up under the control of a senior executive.	Complied
13	The project proponent should advertise in at least 2 local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned informing the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the State Pollution control Board/ Committee & may also be seen at the website of the Ministry & Forests at http://www.envfor.nic.in the advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's RO at Bhopal.	Complied

13	The project proponent should advertise in at least 2 local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned informing the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the State Pollution control Board/ Committee & may also be seen at the website of the Ministry & Forests at http://www.envfor.nic.in the advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's RO at Bhopal.	Complied
14	The project authorities should inform the regional office as well as the Ministry, the state of financial closure and final approval of the project by the concerned authorities and the date of commencing the Land development work.	Complied

B	Specific Conditions	
1	The design, material of construction, operation & maintenance of pipeline shall be as per API.ANSI.ASME Codes and OISD standards. Pipeline wall thickness and minimum depth of burial a river crossings and casing at rails, major road crossings should be in conformity with ANSI/ ASME requirements.	Complied
2	Annual safety audit should be carried out for the initial 3 years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on Operation & Maintenance.	Complied
3	The construction of Pipeline particularly at the river and stream crossings should be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.	Complied
4	The project authorities should plant a minimum of 10 trees for every tree cut along the pipeline route in consultation with the local DFO (s). The company should develop a special forestry programme to benefit the project affected local people in consultation with the local DFO/ village Panchayat/ NGO.	Complied
5	The project authorities will patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method (s) of testing as envisaged in the LMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection systems.	Complied
6	The project authorities should install SCADA system for safe operation of Pipeline & Leak detection system. Additional sectionalizing valves in the residential areas and sensitive installations should be provided to prevent the amount of LNG going to the atmosphere in the event of pipeline failure. Intelligent pigging facility should be provided for the entire pipeline system for internal corrosion monitoring.	Complied
7	Hydrocarbon gas detectors should be installed at strategic locations in the compressor stations and intermediate pigging stations.	Complied
8	The fire water facilities at the terminals must be designed as per OISD – 117 guidelines. However, for fighting prolonged fires, the company should firm up a plan for assured water supply from nearby ground water source/ surface water source. This must be complied before commissioning the project.	Complied
9	Green belt of adequate width and density should be provided to mitigate the effects of fugitive emissions all around the intermediate pumping stations. A minimum of 25 % of the total land acquired should be developed as green belt in consultation with the local DFO.	Complied

Point-wise Compliance Status of Conditions under Environmental Clearance accorded to Vijaipur - Dadri Pipeline (2008)		
S. No.	Details of Conditions under Environmental Clearance	Status of Compliance
A	General Conditions	
1	The Project Authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complied
2	There will be no change in the Pipeline route, design, capacity without the prior approval of this Ministry.	No change has been carried out
3	During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest, power line, buildings etc. in the vicinity of Pipeline and in consonance with local government regulations.	Complied
4	The Project Authorities must strictly comply with the rules & regulations under Manufacture, Storage & Import of Hazardous Chemicals Rules, 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.	Complied
5	Detailed Risk Analysis of the pipeline and associated facilities must be done once the Engineering design & layout is frozen. Based on this, on site & off site Emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.	Complied
6	Adequate provisions for infrastructural facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during construction phase so as to avoid felling of trees & pollution of water & the surroundings.	Complied
7	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment/ Environmental Management Plan and risk analysis report.	Complied
8	The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution to road construction, education of Health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever & wherever possible both for technical & non-technical jobs.	Complied
9	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.	Complied
10	The project authorities will provide adequate funds both recurring & non-recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Complied
11	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional office at Bhopal/ State Pollution Control Board/ Central Pollution Control Board. A Six monthly compliance status report should be submitted to monitoring agencies.	Complied
12	A separate environmental management cell with full-fledged laboratory facilities to carry out various management & monitoring activities should be set up under the control of a senior executive.	Complied
13	The project proponent should advertise in at least 2 local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned informing the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the State Pollution control Board/ Committee & may also be seen at the website of the Ministry & Forests at http://www.envfor.nic.in the advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's RO at Bhopal.	Complied
14	The project authorities should inform the regional office as well as the Ministry, the state of financial closure and final approval of the project by the concerned authorities and the date of commencing the Land development work.	Complied

B	Specific Conditions	
1	Environmental Clearance is subject to obtaining clearance from the national board for Wildlife/ Competent Authority under the Wildlife (Protection) Act, 1972	Complied
2	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation vs. Union of India in writ petition (civil) No. 460 of 2004 as may be applicable to this project.	Complied
3	The construction of Pipeline particularly at the river and stream crossings should be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.	Complied
4	Annual safety audit should be carried out for the initial 3 years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on Operation & Maintenance.	Complied
5	The construction of Pipeline particularly at the river and stream crossings should be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.	Complied
6	Pipeline Wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.	Complied
7	The company shall follow horizontal drilling technique for laying of the pipeline while passing through major rivers.	Complied
8	The company shall obtain forest clearance under the forest (Conservation) Act 1980 while passing through forest land.	Complied
9	The project authorities should plant a minimum of 10 trees for every tree cut along the pipeline route in consultation with the local DFO (s).	Complied
10	The project authorities should install SCADA system for safe operation of Pipeline & Leak detection system. Additional sectionalizing valves in the residential areas and sensitive installations should be provided to prevent the amount of LNG going to the atmosphere in the event of pipeline failure. Intelligent pigging facility should be provided for the entire pipeline system for internal corrosion monitoring. Coating & Impressed current cathodic protection system should be provided to prevent external corrosion.	Complied
11	The project authorities will patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method (s) of testing as envisaged in the LMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection systems.	Complied
12	The fire water facilities at the terminals must be designed as per OISD – 117 guidelines. However, for fighting prolonged fires, the company should firm up a plan for assured water supply from nearby ground water source/ surface water source. This must be complied before commissioning the project.	Complied
13	Green belt of adequate width and density should be provided to mitigate the effects of fugitive emissions all around the intermediate pumping stations. A minimum of 25 % of the total land acquired should be developed as green belt in consultation with the local DFO.	Complied

गेल (इंडिया) लिमिटेड
GAIL (India) Ltd.
(A Government of India Undertaking)
(A Maharatna Company)

पोस्ट: गेल कॉम्पलेक्स,विजयपुर
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DISTT. GUNA (M.P) 473 112
दूरभाष/Phone: (07544) 274444
फैक्स/Fax: (07544) 274600

XGN ID: 19125

GAIL/VIJP/EMC/02/GPU-ES/04/2020

Date: 22.04.2020

To,
The Superintendent Engineer,
M.P. Pollution Control Board,
Paryavaran Parisar
E-5 Sector, Arera Colony,
Bhopal – 462016.

Sub: Environment Statement in respect of C2C3 Recovery & Gas Processing Unit, GAIL (India) Ltd., Vijaipur for the year 2019-20.

Ref.: Combined Consent Authorisation No. AW-51413 dated 09.03.2020.

Dear Sir,

Enclosed please find herewith the copy of Form-V **"Environment Statement"** for the year 2019-2020, for **C2C3 Recovery & Gas Processing Unit, GAIL Complex, Vijaipur**.

This is for your information & record purpose please.

Sincerely Yours,

For GAIL (India) Ltd., Vijaipur,

H. H. Meshram
DGM (O&M)
हंसराज मेश्राम
Hansraj Meshram
डी.जी.एम. (ओ. एण्ड एम.) जी.पी.यू.
DGM (O & M) G P U
गेल (इंडिया) लिमिटेड,विजयपुर -गुना (म.प्र.)
GAIL (India) Limited,Vijaipur-Guna(M.P.)

CC: The Regional Officer, MPPCB, Vijaipur – Guna.

FORM – V

(See Rule – 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING 31ST MARCH 2020

C2C3 RECOVERY & GAS PROCESSING UNIT: PCB ID 19125

PART – A:

1.	Name & Address of the Owner/ Occupier of the Industry	**Shri S. S. Agrawal** **Executive Director (O&M – Central Region)** C2C3 Recovery & Gas Processing Unit GAIL (India) Ltd., Vijaipur, Dist. – Guna (MP) Pin – 473112.
2.	Date of Last Environment Statement Submitted	15th May, 2019

PART – B:

WATER AND RAW MATERIAL CONSUMPTION:

1. **Water Consumption**

Total Consumption	: 18264.24 M^3 / Day
Process	: Nil (No water is consumed for LHC production)
Industrial (Cooling/ Boiler)	: 15437.62 M^3 / Day
Domestic (including township)	: 2826.61 M^3 / Day

Name of the Product	Water consumption per unit of Product	
	During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
	(1)	(2)
Liquid Hydrocarbon (LPG, Propane, Naphtha/ SBP, & Pentane)	4.14 M^3 / MT	4.58 M^3 / MT

2. **Raw Material Consumption**

Name of the Raw Material	Name of the Product	Consumption of raw material per unit of output	
		During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
Natural Gas	Liquid Hydrocarbon (LPG, Propane, Naphtha/ SBP, & Pentane)	564.1 SM^3 / MT of Product	578.84 SM^3 / MT of Product

PART – C:

POLLUTION GENERATED:

(Parameters as specified in the consent issued)

Sr.No.	Pollutants	Quality of Pollution Generated	Generated Percentage of variation from prescribed Standards with Reasons
(a)	Water	BOD = 10.9 mg/l COD = 51.2 mg/l pH = 7.4 units S.S. = 27 mg/l O & G = Not Detectable Phenol = Not Detectable	The actual values of the parameters are well within the limits of the prescribed standards as per Consent Conditions
(b)	Ambient Air	PM_{10} = 78.50 µg/m³ $PM_{2.5}$ = 45.93 µg/m³ SO_2 = 11.13 µg/m³ NO_2 = 20.20 µg/m³ CO = 1.10 mg/m³ O_3 = 22.93 µg/m³ NH_3 = 12.23 µg/m³ VOC = Not Detectable	
(c)	Stack	SO_2 = 9.3 mg/ Nm³ NO_x = 32.4 mg/Nm³ VOC = 10.8 mg/ Nm³	

PART – D:

HAZARDOUS WASTES:

(As specified under Hazardous Wastes – Management & Handling Rules, 2016-Amended)

Sr.No.	Hazardous Wastes	Total Quantity (Litres)	
		During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
(a)	From Process (Spent Oil, Waste Stream 5.1)	8990 Litre	17469 Litre
(b)	From Control Facility (ETP) (Waste oil, Waste stream 5.2)	0 Liters	0 Liters

PART – E:

SOLID WASTES:

Sr. No.	Source	Total Quantity (Metric tonnes)	
		During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
(a)	From Process (Mol. sieves, PUF-Glass Wool, Wastes with oil residues)	10.731	8.205
(b)	From Pollution Control Facility	NIL	NIL
(c)	Quantity Recycled or Reutilized	NIL	NIL

PART – F:

Condition	Remarks
Please specify the characteristics and quantum of hazardous as well as solid wastes and indicate disposal practices adopted for these categories	1) 138 Nos. of Empty Ethyl Mercaptan drums are reused (in-house) as tree guards after proper treatment. 2) Used oil is being collected in drums and kept at designated yard and sold to CPCB/MPPCB/MoEF authorized re-processors as per authorization guidelines. 3) Solid Hazardous Wastes generated from Plant process is currently disposed through MPPCB authorized TSDF.

PART – G:

Condition	Remarks
Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.	1) GAIL has constantly taken the measures to conserve energy and consumption of Natural resources for its energy requirement i.e. Gas. Constant efforts in this direction has enabled the company reduce its specific energy consumption and thereby saving cost of production. 2) Approximately 5 lacs sq. mts. of Land is being maintained as a lawn area and approx. 1 Lakh trees of different categories (Teak, Ashoka, Royal Palm, Sisam, Awala, Jamun, Gulmohar, Imli, Botal Brush etc.) are planted inside plant, township & surrounding area and maintained well. 3) Total Plantations for GAIL Complex, Vijaipur in FY 19-20 are **3389** nos.

PART – H:

Condition	Remarks
Additional investment proposal for environmental protection including abatement of pollution.	**Rs. 79.6356 lac**– for Energy Saving initiatives, Environment Monitoring and Waste Management (Common in Environment Statement of other units under Compressor Station Area for GAIL Vijaipur for the FY 2019 – 2020).

PART – I:
Miscellaneous

Condition	Remarks
Any other particulars in respect of environment protection and abatement of pollution.	1) All Hazardous Wastes disposed through Authorized recyclers/ disposal agency only. 2) All Municipal waste converted to Manure or disposed through authorized recyclers only.

Authorized signatory

Pintu Jain
Sr. Engineer (EMC)