GAIL (INDIA) LIMITED

BRIEF PROJECT REPORT

FOR

AMENDMENT IN ENVIRONMENTAL CLEARANCES

FOR

GAS PROCESSING UNIT

Located at

Vijaipur, Teh, Raghogarh, Guna, Madhya Pradesh

SCHEDULE 5(c) – Petro chemical complexes (Industries based on Processing of Petroleum fractions & Natural Gas and/ or reforming to aromatics)

Prepared by

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# ABBREVIATIONS

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<th>Sl.No.</th>
<th>Abbreviations</th>
<th>Full Form</th>
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<tr>
<td>1.</td>
<td>GAIL</td>
<td>Gas Authority of India Limited</td>
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<td>2.</td>
<td>LPG</td>
<td>Liquefied Petroleum Gas</td>
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<td>3.</td>
<td>LNG</td>
<td>Liquefied Natural Gas</td>
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<td>4.</td>
<td>CNG</td>
<td>Compressed Natural Gas</td>
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<tr>
<td>5.</td>
<td>ONGC</td>
<td>Oil and Natural Gas Corporation</td>
</tr>
<tr>
<td>6.</td>
<td>MMSCMD</td>
<td>Million Metric Standard Cubic Meter Per Day</td>
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<td>7.</td>
<td>LEF column</td>
<td>Light End Fractioning column</td>
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<tr>
<td>8.</td>
<td>GREP</td>
<td>Gas Rehabilitation and Expansion Project</td>
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<td>9.</td>
<td>GSU</td>
<td>Gas Sweetening Unit</td>
</tr>
<tr>
<td>10.</td>
<td>GPU</td>
<td>Gas Processing Unit</td>
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<tr>
<td>11.</td>
<td>MoP &amp; NG</td>
<td>Ministry of Petroleum &amp; Natural Gas</td>
</tr>
<tr>
<td>12.</td>
<td>HVJ</td>
<td>Hazira - Vijaipur - Jagdishpur</td>
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<td>13.</td>
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PROJECT REPORT

1. INTRODUCTION
GAIL (India) Ltd is the India's principal natural gas transmission and marketing company, which has expanded its activities from Gas & LPG Transmission & marketing to LPG & Petrochemicals Production. The company has also extended its presence in Power, Liquefied Natural Gas (LNG) re-gasification, City Gas Distribution, Exploration & Production through equity and joint ventures participation. The organization has attained a leading status through its all-round contribution to the nation's gas-based economy with a countrywide presence of Pipelines, Gas Processing Plants, City Gas Distribution and Marketing network. GAIL has various joint venture companies for CNG & city gas distribution in Delhi, Mumbai, Hyderabad, Kanpur, Agra and other major cities of India besides GAIL Gas Limited, a wholly owned subsidiary of GAIL (India) Limited.

Gail (India) Limited (GAIL) (formerly known as Gas Authority of India Limited) is the largest state-owned natural gas processing and distribution company in India. It is headquartered in New Delhi. It has the following business segments: natural gas, liquid hydrocarbon, liquefied petroleum gas transmission, petrochemical, city gas distribution, exploration and production, GAILTEL and electricity generation. During the year 1997-98, the Government of India acknowledged GAIL's 'Excellent' track record and potential to become a global giant, by granting the Navratna status, thereby entrusting greater autonomy to the Company. GAIL was conferred with the Maharatna status on 1 Feb 2013, by the Government of India. Only six other Public Sector Enterprises (PSEs) enjoy this coveted status amongst all central CPSEs. Only six other Public Sector Enterprises (PSEs) enjoy this coveted status amongst all central CPSEs. Liquefied petroleum gas (LPG) is the most widely used domestic and commercial fuel in India.

Over the past four years, GAIL has emerged as one of the major LPG producers in the country. Around 90 per cent of the LPG is consumed in India as fuel by the household sector, while the balance is sold to industrial and commercial customers.

GAIL has six LPG Plants, two at Vijaipur and one each at Vaghodia (Gujarat), Auraiya (UP), Gandhar (Gujarat) and Usar (Maharashtra), producing over 1 million TPA LPG and other liquid hydrocarbons. GAIL is the first company in India to own and operate pipelines for
LPG transmission. GAIL produces LPG through fractionation in gas processing units, known as straight run LPG. GAIL's LPG is an eco-friendly fuel and provides a cheaper and effective means of reducing pollution and increasing productivity.

1.1 BRIEF DESCRIPTION OF THE PROJECT

GAIL (India) limited, is operating successfully a Gas Processing Unit (GPU) at Vijaipur, Madhya Pradesh. GAIL GPU is having LPG units (2 Nos), Gas Sweetening Unit and C2/C3 Recovery unit at Vijaipur. Initially clearance from MOEF was obtained for LPG recovery plant with File no. J-11011/19/88-IA dated 24.05.1988. Later, Environmental Clearances was obtained in March, 2012 with F.no.J-11011/168/2021-IA-IA II (I) to set up the Expansion of the Project by adding Gas Sweetening Unit (GSU, 21.12 MMSCMD) and C2/C3 Recovery Unit (21.72 MMSCMD) at Vijaipur. The copy of the Environmental Clearances are enclosed as Annexure 1.

After the commencement of the expansion activity on 2015, Vijaipur Complex is recovering ethane-propane (C2C3) from Natural gas after sweetening. The recovered C2C3 is sent to Pata Petrochemical complex. The C2C3 unit at Vijaipur is designed to process 21.72 MMSCMD of Feed gas. Exit gas from the unit is distributed further to downstream customers along GREP and LEF column top is injected into rich gas bypassed at Vijaipur towards Auraiya for processing at Petrochemical unit at Pata.

It was envisaged in the EC obtained that after setting up of the new C2/C3 recovery unit at Vijaipur, Existing LPG plant equipment such as Gas Turbine compressor (6 nos.), Gas fired heaters (2 nos.) and Cooling Tower (2 nos.) from the existing plant will not be operated.

Although, C3+ Liquid from C2/C3 unit will be diverted to old LPG units downstream of LEF column for production of Propane, LPG and heavies utilizing facilities downstream of LEF column of both the units. Also the existing feed gas supply line and Exit gas evacuation line were being utilized for the new C2/C3 unit. As a result, Gas receiving, drying and regeneration, pre cooling, chill down section and LEF column of LPG units will not be utilized and will remain idle when C2C3 unit is under operation. C3+ Product from the GPU is fed into the existing LPG Plant to recover LPG, Propane, Pentane and Naphtha. To utilize the assets of LPG units, processing of rich RLNG is being evaluated.
However, in terms of ever changing business scenario of the Company, it has now been decided to utilize both the facilities from LPG recovery and C2/C3 recovery units for gas processing at the Gas Processing unit at Vijaipur.

Thus the amendment for the existing Environment Clearance obtained at 02 March 2012 with File no. F.no. J-11011/168/2021-I A-IA II (I) is requested for the following:

1. Amendment for running the existing LPG units (15.0 MMSCMD) on RLNG in parallel with C2/C3 (21.72 MMSCMD) unit. The processing capacity of the Gas Processing unit will be 36.72 MMSCMD.

2. Amendment for utilizing the existing equipments instead of shutting down (as mentioned in EC).

2.1 PROJECT DETAILS

Table 1. 1 Brief of the Project Details

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>PARTICULARS</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Project Proponent</td>
<td>M/s GAIL (India) Limited</td>
</tr>
<tr>
<td>2.</td>
<td>Project Name</td>
<td>Amendment in EC for Gas Processing Unit with Gas Sweetening plant, C2/C3 recovery unit and LPG recovery Unit</td>
</tr>
<tr>
<td>3.</td>
<td>Project Location</td>
<td>Located at Vijaipur, Tehsil Raghogarh, District Guna, Madhya Pradesh</td>
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<tr>
<td>4.</td>
<td>Schedule</td>
<td>5(c) – Petro chemical complexes (Industries based on Processing of Petroleum fractions &amp; Natural Gas and/ or reforming to aromatics).</td>
</tr>
<tr>
<td>5.</td>
<td>Category</td>
<td>“A”</td>
</tr>
<tr>
<td>6.</td>
<td>Existing Capacity</td>
<td>21.12 MMSCMD (Gas sweetening Unit capacity)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21.72 MMSCMD (C2/C3 recovery Unit)</td>
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<tr>
<td>7.</td>
<td>Capacity to be amended</td>
<td>Gas Processing Unit :</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21.72 MMSCMD Existing C2/C3 recovery Unit &amp; 15 MMSCMD from Existing LPG units(2 no's)</td>
</tr>
<tr>
<td>8.</td>
<td>Total Land Area</td>
<td>324.9 Hectares</td>
</tr>
<tr>
<td>Sl. No</td>
<td>PARTICULARS</td>
<td>DETAILS</td>
</tr>
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<td>------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>9.</td>
<td>Total Cost</td>
<td>3206.21 Lakhs (Includes C2C3-GSU as well as LPG Recovery Plant)</td>
</tr>
<tr>
<td>10.</td>
<td>Total Water Requirement according to EC</td>
<td>Existing 830 m³/hr</td>
</tr>
<tr>
<td>11.</td>
<td>Total Wastewater Generation according to EC</td>
<td>180 m³/hr</td>
</tr>
<tr>
<td>12.</td>
<td>Energy Requirement</td>
<td>Existing Grid - 8 MW&lt;br&gt;CPP (STG + GTG) – 19.5 MW</td>
</tr>
<tr>
<td>13.</td>
<td>Man Power</td>
<td><strong>Existing:</strong>&lt;br&gt;Employee (Permanent) – 165 Male; 2 Female&lt;br&gt;Employee (Contract) – 836 Male; 35 Female&lt;br&gt;<strong>Proposed after amendment:</strong>&lt;br&gt;No additional manpower is required. Existing manpower will be catered to meet operational requirement plant</td>
</tr>
</tbody>
</table>

After obtaining EC for the GSU and the C2/C3 recovery unit from the MOEF&CC, the respected CTE was obtained during 2012 and the respective CTO was obtained on 2015. The copy of initial CTE and CTO are annexed as **Annexure 4**. The respective renewals were made to the CTO obtained accordingly, at present the validity of the CTO is till 2020, the same is annexed as **Annexure 5**.
2.2 TOPOMAP OF THE PROJECT SITE

Figure 1: Topomap showing the Site location within 10KM
BRIEF NOTE ON ENVIRONMENTAL ASPECTS

The proposed amendment at GAIL shall not have any significant adverse impact on the environment setting of the region. However, this section provides the details of the environment considerations of the proposed project.

3.1.1 AIR

The expected air emissions from the Gas processing unit are PM, SO₂, NOₓ, HCs & VOCs, CO. These will be emitted from stacks (point sources) associated with various process units. Such emissions will be controlled and will be maintained within stipulated standards. Stacks are provided to effectively disperse the emissions. Since all the equipments that are considered for the amendment were already installed and operating, the pollution load projection made in the EIA Report were for the combined unit while obtaining pervious EC.

3.1.2 WATER

The proposed activity requires water for operation of its processes, process cooling, utilities cooling, domestic consumption, fire water make up and greenbelt development etc. No adverse environmental impact is envisaged due to withdrawal of water by GAIL from Gopal Krishna sagar reservoir.

The existing water requirements at GAIL are 830 m³/hr. GAIL has also signed an agreement with Water Resources Department (WRD), Madhya Pradesh for committed allocation of water the same is annexed as Annexure 3. The present allocated quantity of water is sufficient for the proposed activity. Also water management plan at GAIL is being implemented includes water conservation measures such as to reduce the net raw water requirement by way of recycle/reuse of treated wastewater to the maximum possible extent wherever it is feasible, rain water harvest etc., The effluent generated from the existing GAIL operations is 107 m³/hr which is well below the consented capacity of 133 m³/hr. Post the proposed activity, the effluent generation from GAIL facility is envisaged to be within 133 m³/hr. This effluent shall be treated within the existing Effluent Treatment Plant (ETP). The treated effluent also includes CT blow down and along with treated effluent will be used in horticulture.

Currently we are consuming water less than approved EC quantities. No additional water requirement or additional waste water discharge is envisaged due to the proposed activity.
### Sl. No. | Description                          | Approved Quantity (as per EC 2012) in m³/hr | Actual Quantity in m³/hr |
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<tbody>
<tr>
<td>1.</td>
<td>Total Water required</td>
<td>830</td>
<td>700</td>
</tr>
<tr>
<td>2.</td>
<td>Total Wastewater Generated</td>
<td>180</td>
<td>107</td>
</tr>
</tbody>
</table>

#### 3.1.3 Noise
The major source of noise generation from Gas processing facility is due to equipment operations and its surrounding industries. Traffic points and residential areas being the other sources of noise generation. In the proposed activity there is no anticipated increase in noise level. However, adequate precaution are in place to maintain noise level within prescribed limits.

#### 3.1.4 Hazardous / Non Hazardous Waste Management:
The major sources of Hazardous wastes are spent molecular sieves, spent/ used oil, Glass Wool, Wastes/ residues containing oil non-hazardous solid wastes due to the existing unit consist of cellulose sludge, spent charcoal, discarded drums, etc. Present practice of solid/hazardous wastes management as per Hazardous Wastes Management and Handling Rules 2016 will be extended to the proposed activity as well. At present solid Hazardous waste are collected and transferred to authorize disposal (TSDF) agency. Other Hazardous wastes such as spent oil are sold to authorized recyclers. In addition to these wastes, spent amine are bought intermittently (once in 5 years) back by Vendor. Other non-hazardous wastes such as Scrap material are sold to Third party scrap dealers under scrap disposal process. The same shall be extended to this proposed activity as well. GAIL Vijaipur has obtained the Membership of Common Hazardous Waste Treatment, storage and disposal facility of Authorized Nodal agency, (RAMKY Environ. Engineers Ltd.) of State pollution Control Board, for disposal of solid waste.
ANNEXURE
ANNEXURE I

Copy of existing EC
To,
Shri C. N. Trivedi,
Executive Director (PC-CO)
M/s GAIL (India) Ltd.
16-Bhikaji Cama Place, R K Puram
New Delhi-110066.

E-mail: ccntrivedi@gail.co.in; b.n.gosain@gail.co.in; Fax No.: 011-26170128

E-mail : Ik.bokolia@nic.in
Telefax : 011: 2436 6017
Dated 2nd March, 2012

Subject : Expansion of the Petrochemical Complex Plant by adding Gas Sweetening Plant (GSU, 21.12 MMSCMD) and C2/C3 Recovery Unit (21.72 MMSCMD) at Vijaipur, District Guna, Madhya Pradesh by M/s GAIL (India) Ltd. - Environmental Clearance reg.

Sir,


2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for expansion of the Petrochemical Complex Plant by adding Gas Sweetening Plant (GSU, 21.12 MMSCMD) and C2/C3 Recovery Unit (21.72 MMSCMD) at Vijaipur, District Guna, Madhya Pradesh by M/s GAIL (India) Ltd. Total project cost is Rs. 2214.21 Crores. Total plot area of the existing complex is 324.9 ha and expansion will be done within existing complex. No national parks/sanctuary/reserve forests/ecological sensitive areas/reserve forest are located within 10 km. Following are the details of existing and proposed units:

<table>
<thead>
<tr>
<th>Existing Unit</th>
<th>Proposed Units</th>
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<tbody>
<tr>
<td>LPG Unit-2 no's</td>
<td>Gas Sweetening Unit (GSU); 21.12 MMSCMD</td>
</tr>
<tr>
<td>Utilities, Offsites, Storages and ETP</td>
<td>C2/C3 Recovery Unit; 21.72 MMSCMD</td>
</tr>
<tr>
<td></td>
<td>Utilities, Offsites, Storages.</td>
</tr>
</tbody>
</table>

C2/C3 recovered from the various unit will be sent to Pata Petrochemical Complex in Uttar Pradesh. Equipments namely gas turbine driven compressor (6 Nos.), Fire heaters (2 Nos.), Boiler (1 No.) and Cooling tower (2 Nos.) from the existing plant will be shutdown after completion of the proposed expansion facilities. In place of shutdown equipments, energy efficient new equipments namely Gas Turbine driven lean Gas Compressor with heat recovery steam generator (HRSG) facility (3 Nos. @ 15 MW), fire heater (1 No) and cooling tower (1 No.) will be installed.

3.0 Stack of adequate height will be installed at regeneration gas heater (18-FF-101 Unit), gas turbine (GT) bypass, utility boiler (UB) and heat recovery steam generator (HRSG). Low NOx burner will be installed. Fresh water requirement from Goikrishna Sagar dam will be 830 m³/hr after expansion. Effluent generation will be increased from 47 m³/hr to
180 m$^3$/hr after expansion. The industrial effluent will be treated in the effluent treatment plant (ETP) and treated effluent will be reused/recycled within factory premises. No effluent will be discharged outside the premises. Spent catalyst and bottom tank sludge will be sent to authorized re-processors/recyclers.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 20th & 29th meetings held during 3rd–4th March, 2011 and 17th–18th November, 2011 respectively.

5.0 All petro-chemical complexes are listed at S.N. 5(c) under category 'A' and appraised at Central level.

6.0 Public hearing/public consultation was conducted on 9th September, 2011.

7.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:


ii. M/s GAIL (India) Ltd. shall comply with new standards/norms prescribed for petrochemical industry notified under the Environment (Protection) Rules, 1986.

iii. The process emissions (particulate matter, SO$_2$, NOx, HC, CO and VOCs) from various units shall conform to all standards prescribed by the CPCB/M. P. Pollution Control Board (MPPCB) from time to time. At no time, the emission 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 measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.

iv. Low NOx burner shall be installed to control NOx emissions.

v. Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009.

vi. In-plant control and monitoring measures for checking fugitive emissions from all the vulnerable sources should be provided. Adequate dust suppression systems with water spray shall be provided for storage yard, junction houses. Raw material loading and unloading area should be covered and also provided with water spraying system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions should conform to the limits stipulated by the MPPCB.

vii. Steps shall be taken to minimise 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’ Regional Office at Bhopal. Continuous monitoring system for VOCs at all important places/areas should be ensured. When monitoring results indicate above the permissible limits, effective measures should be taken immediately.
viii. Continuous ambient air quality monitoring stations for PM$_{10}$, SO$_2$, NO$_x$, CO, HC and 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 monitored data on its 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 MPPCB.

ix. A proper Leak Detection and Repair (LDAR) Program shall be prepared and implemented. Focus shall be given for prevention of fugitive emissions for which preventive 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.

x. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.

xi. Total fresh water requirement from Goikrishna Sagar dam shall not exceed 830 m$^3$/hr and prior permission shall be obtained from the concerned Authority. No ground water shall be used.

xii. As proposed, additional effluent generation shall not exceed 133 m$^3$/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 the water quality test by collecting the treated effluent from the guard pond before application. Water quality of treated effluent shall conform to the norms prescribed by the CPCB/MPPCB from time to time. As proposed, sewage shall be transferred to aeration tank alongwith process wastewater.

xiii. No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be adopted.

xiv. Process effluent(any wastewater) shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

xv. The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and 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.

xvi. Spent catalyst and bottom tank sludge shall be sent to authorized re-processors/recyclers.

xvii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system should be as per the OISD norms. All the OISD standards shall be followed.

xviii. OISD guidelines shall be followed for minimum distance between various units.
xix. 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 Vehicle Act (MVA), 1989.

xx. The company shall undertake following waste minimization measures:
   a. Metering and control of quantities of active ingredients to minimize waste.
   b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
   c. Use of automated filling to minimize spillage.
   d. Use of Close Feed system into batch reactors.
   e. Venting equipment through vapour recovery system.
   f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.

xxi. 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.

xxii. 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 and the regular medical test records of each employee shall be maintained separately.

xxiii. All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.

xxiv. 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.

xxv. Company shall prepare project specific environmental manual and a copy shall be made available at the project site for the compliance.

xxvi. 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 and around the project.

xxvii. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche 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 surrounding environment.

B. GENERAL CONDITIONS:
   i. The project authorities shall strictly adhere to the stipulations made by the M.P. Pollution Control Board (MPPCB).
   ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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 conditions imposed and to add additional environmental protection measures required, if any.

iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

v. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.

vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

vii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

viii. 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 and administration.

ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xi. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

xiii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and MPPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

xiv. The environmental statement for each financial year ending 31st March in Form-V 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

xv. 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 SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two 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 shall be forwarded to the concerned Regional Office of the Ministry.

xvi. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

Copy to:

1. The Principal Secretary, Department of Housing and Environment, Government of Madhya Pradesh, Paryavaran Parisar, E-5, Arera Colony, Bhopal, Madhya Pradesh, PIN 462016.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment and Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Madhya Pradesh Pollution Control Board, E-5, Arera Colony, Paryavaran Parishar, Bhopal - 462 016, Madhya Pradesh.
6. Joint Secretary, IA Division-II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.
ANNEXURE III
Agreement With
WRD
AGREEMENT FORM FOR SUPPLY OF WATER TO
GAIL (INDIA) LTD
VIJAYPUR, DISTT. GUNA (M.P.)
Form-7A
(See Rule 71-A)

This agreement made on this 04 th day of October, 2016 between the Governor of Madhya Pradesh, acting through Officer On Special Duty (Executive Engineer, Control Board For Major Project Water Resources Department, Bhopal (M.P.) (hereinafter referred to as M.P.W.R.D.) which expression shall where the context so admits, includes his successors assigned in office of the first part and Gail (India) Limited, a company registered under the Indian Companies Act 1956 (No. 1 of 1956) and having its registered office at Gail Bhawan, 16, Bhikaiji Cama Place, New Delhi- 110 066 herein after referred to as “the Company”, which expression shall unless excluded by or be repugnant to context meaning thereof be deemed to include its successors assigned of the other part.
Whereas the company has applied to the Government for permission to draw additional 10 MCM per year / 27397 Cum (Gail India Ltd was using 3.60 MCM of water since 1991-92) of water per day from the Gopi Krishna Sagar Dam (hereinafter referred to as "the said natural or Government water source") for the use for expansion by the Company's LPG Recovery Plant to be located at Vijaypur, Distt. Guna, M.P. (herein after referred to as "the said plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

And whereas the Government has agreed vide letter no. व.प.न.1/रा.स्त.—222/2010/31/323 &324/दिनेक 06/04/2011 to grant the aforesaid permission to the Company to use water from the said Government source at their own cost on the terms and conditions hereafter appearing.

And whereas prior to the execution of these presents the Company has deposited with the Government, the sum of Rs. 1,62,16,667/- (Rs. One Crore Sixty Two Lakh Six Sixty Seven) only being the water rates and local fund cess for the quantity of water to be drawn by the company in three months (Water allocation fees equivalent to the amount of one month water tax and cess for 10 MCM of water as per water rates on the day on which the company deposited advance water tax to the department, i.e. dated 30/04/2011 and security amount equivalent to the amount of two months charges of water tax and cess for total allocated water i.e. 13.60 MCM of water as per present water rates) as per Rule No.71-A(3)(a)&(b) of Madhya Pradesh Irrigation Rules 1974.

And whereas it has been agreed that the said Sum of Rs. 1,24,66,667/- (Rs. One Crore Twenty Four Lakh Sixty Six Thousand Six Hundreds Sixty Seven) only deposited by the company against security amount shall not bear any interest (security amount equivalent to the amount of two months charges of water tax and cess on the annual allocated quantity of water).

Now this agreement witneseth as under :-

(1) In consideration of the company duly making payment to the Government as hereinafter specified and duly observing and performing the covenants and conditions, both herein contained Government hereby give permission to the company to draw 13.60 MCM per year / 37260 Cum of water per day from the said natural or from the government water source to the company's said plant for term of 30 (Thirty) years commencing from the 04th day of October, 2016 on the terms and conditions herein contained. The permission hereby granted shall be subject to the provision of Madhya Pradesh Irrigation Act, 1931 (3 of 1931) amendments thereof and M.P. irrigation rules 1974 amended thereof and further any executive orders issued in this behalf by the Government from time to time and for the time being in force.

(2) The Company shall pay to the Government water rates for water drawn by it from said natural or Government water source at the rates fixed by Water Resources Department No. 18-1/91/प्री/31/797, Bhopal, Dated 30-11-2010 which is Rs. 5.50 (Rs. Five and paise Fifty) only per Cum.

Note: - The rates which are going to apply to the company must be shown and not other rates. For the quantities of water drawn in excess of the agreed quantities and for any other unauthorized drawl of water then 50% (Fifty percent) additional rates shall be charged in addition to the normal rates as specified above.

In addition to the payment of water rates as specified above, the company shall also pay the Water Resources Department Local fund cess or any other tax at the rates as fixed by the Government from time to time. Government here by reserves the right to revise the rates from time to time the said water rates and the local cess or other taxes to be paid by the company and the company shall pay such revised water rates and local cess or other taxes as may be
fixed by the Government from time to time. Excepting the circumstances or short water supply specified in clause (15) the company shall in any event, pay water charges for at least 90% of the quantum of water allowed (as per the effective dates and quantum shown in para 24.3 of this agreement) to be drawn by it though the actual quantity of water drawn by the company is less than 90% of the quantum of water allowed to be drawn by under clause (1).

(3) The company shall make its own arrangements at its own cost to use water either by construction of any civil engineering work which may include construction of pick up weir, barrage, dam, dug well, tube well etc. The design of such civil engineering facility will be prepared and submitted by the company for approval of the Water Resources Department. The concerning Chief Engineer will give his decision within thirty days to the Sadhikar samiti. The decision of Sadhikar samiti shall be final.

(4) In the event of any emergency interruption in the water supply to the said Government water source resulting from a non-Government Act (such as sudden reduction in inflow) the Executive Engineer shall give immediate written notice to the company. Upon receipt of such notice the company shall have no right to be compensated for any cessation in water supply nor will the company have any liability for payments for water charges, local fund cess or taxes, except those amounts then due but unpaid, until such time as the flow of water through the said natural water sources shall be restored to the level required to the provided by the Government hereunder.

(5) Subject to the terms and conditions of this agreement nothing herein contained shall be deemed to imply any guarantee on the part of the Government the uninterruptability in the supply of water during an event of Force Majeure. The Government shall also not responsible for such non-supply or inadequate supply of water as result of any event of Force Majeure or for damages or losses due to any event of Force Majeure. During an event of Force Majeure the company shall not be liable for payment of any water charges local fund cess or other taxes, except those pertaining to water already received by the company for which payment is due and unpaid, which amount shall remain due and payable in accordance with terms of this agreement. Force Majeure shall include droughts and other similar natural disasters, which are beyond the control of State Government.

(6) The company/corporation shall pay adequate compensation to any person/persons affected due to submergence of land, property, public facilities etc. by the construction of the civil engineering works for creating the sources of water supply.

(7) The water from natural/Government water source shall be used by the company for the purposes of the company's said plant including water supply to the colony and shall not be misused by the company by sale of water to any other consumer in the event of any such sale of water by the company without prejudice to the Government's rights to revoke this license and the Government shall be entitled to recover from the company, the proceeds of such sale of water realized by the company.

(8) The permission hereby granted shall not in any manner prejudicially affect the existing water rights vested in the upstream riparian owners nor shall it in anyway prejudice Government's right to hereafter launch or implement any new scheme or schemes of its own act, on or in connection with the present source of the said natural/Government water source. However Government of Madhya Pradesh hereby assures that any other water rights granted by them for the purpose of irrigation or any other industrial purposes shall be granted in a manner so as not to affect the availability of required water for the project throughout the term of this agreement.
(9) The company shall not construct the civil engineering work, viz, pick-up weir, barrage, reservoir, dam, dug well, tube well and lifting arrangements etc., in the said water source unless the proposals, plant drawings, specifications, estimates and all other details thereof are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the Civil Engineering work pick-up weir, barrage, lifting arrangements etc. Government may impose such conditions as it may in its absolute discretion think fit.

(10) The arrangements for measurements of water drawn by the company from the said water source shall be made by the company in such a manner as may be directed by the Government or Executive Engineer, Water Resources Division, Raghogarh, Distt. Guna, M.P. (hereinafter referred to as the Executive Engineer). The automatic measuring device shall be installed and maintained by the company at its own cost after obtaining prior approval therein writing from the Government or the Executive Engineer. In the event of measuring device so installed by the company as aforesaid, ceases to function or goes out of order, the charges which the company would be liable to pay to Government in respect of consumption of water for the days measuring device does not work, shall be calculated alternatively on the basis of maximum hourly pumping capacity multiplied by the number of hours of operation of those pumps for which it will be obligatory for the company to maintain records.

(11) The company shall treat the affluent (Discharge of water after use) for all the impurities ferrous and other chemicals and shall appropriately purify the water as per Central Government Public Health Environmental Engineering Organization, water supply manual, which specifies the standard of potable water.

(12) Within thirty days from the date monthly demands are received by the company from Executive Engineer, the company shall pay to the Executive Engineer the amount of water rates and local fund cess for the water drawn by the company during the proceeding month. Interest at the rate of 24% (twenty four percent) and service charge at the rate of 1% (one percent) per annum shall be recovered if the payment is not done within three months from the date of the bill for water supplied. Nonpayment of the bills up to six months from the due date of payment shall be treated as the breach of agreement.

(13) The company shall keep deposited with the Executive Engineer the said sum equivalent to Two times of assessed monthly bill in cash as security deposit up to the date of start of industrial production which may be converted into equivalent amount of Bank Guarantee after the date of start of industrial production and utilization of water as per effective dates shown in the table of para 24.3 of this agreement. This is because of security for due and proper payment of the water rates and local fund cess and irrigation dues and due observance and performance of the terms and conditions herein. In the event of failure by the company to duly pay the aforesaid dues, the outstanding dues from the company shall be adjusted against the said deposit on default of the company to punctually pay the water rates and local fund cess as aforesaid the Government shall without prejudice to its any other rights and remedies, be entitled to terminate this agreement forthwith.

(14) Without prejudice to any other, its remedies and powers of the Government any sum due and payable by the company, under these presents shall be recoverable from the company in the same manner as an arrear of land revenue under the provisions of law for the time being in force in that behalf.

(15) In the event of there being a shortage of water in the said natural / Government water source, the Executive Engineer shall serve a notice on the company explaining the possibility of the anticipated shortage. The company shall in such circumstances, reduce the consumption of...
water and will furnish to the Executive Engineer, a weekly return showing the actual quantum of water drawn by it.

(16) No existing irrigation interests under the river, spring, channels and irrigation wells, shall be prejudiced. If in the opinion of the Government such existing interests are prejudiced, the company shall pay such compensation to the concerned person or persons whose interests are affected as may be determined by the Government.

(17) The company shall at all times allow an officer of Narmada Valley Development Authority of the Government of Madhya Pradesh authorized in that behalf, to inspect the measuring device as well as the water accounts and furnish to the Government copies of entries from the records maintained by the company.

(18) Any notice or other documents to be given to or served upon the company thereunder, may be given or served on behalf of the Government by the Executive Engineer and any such notice or documents shall be deemed to have been duly given to or served upon the company if it is sent by registered post or delivered at the registered office of the company.

(19) If the company commits a breach of any of the terms and conditions hereof, Government shall be entitled to terminate this agreement and thereupon the company shall discontinue to draw water from the said natural water source without Government being liable for payment of any compensation whatsoever to the company.

(20) On the expiry of term of this agreement, Government may renew this agreement for such further period and on such terms and conditions as the Government may in its absolute discretion deem fit.

(21) The cost and incidental charges incurred in the execution of this agreement including stamp duty shall be borne and paid by the company.

(22) Order No. नं.पत्रि. / राष्ट्र. - 222 / 2010 / 31 / 329 & 324 दिनाक 06 / 04 / 2011 and order No.18-1-91/ मध्यम / 31 / 797, Dated 30-11-2010 of Secretary, Control Board for Major Project, Govt. of M.P. Water Resources Department, Bhopal, M.P. Gazette Notification (Extra Ordinary) No. 18-1-91-मध्यम-इंकार-626, Dated 22-06-2013 and M.P. Gazette Notification (Extra Ordinary) No. 18-1-91-मध्यम-इंकार-619, Dated 31-08-2016 of Deputy Secretary, Govt. of M.P. Water Resources Department, Bhopal (for water allocation and executive instructions etc.) will also form the part of this agreement.

(23) SETTLEMENT OF DISPUTES:

(a) Mutual Discussion – the parties to this agreement agree that all disputes touching upon or arising out of this agreement including interpretation of any of the clauses of this agreement, the respective rights and obligation of the parties or non performance of obligation on the part of any party shall be amicably resolved by mutual negotiations.

(b) Arbitration – If after sixty days from the commencement of such negotiations, the parties have been unable to resolve amicably a dispute, such dispute or difference shall be referred to Arbitration under the provisions of the arbitration and conciliation Act, 1996. The award of the Arbitration panel shall be final and binding on the parties.
24.1 If the Company fails to start industrial production within 48 months from the date of issue of water allocation order Dtd. 06-04-2011 or within 48 months from the date of application of Gazette Notification Dated 22-06-2013 i.e. 13-07-2012, whichever is later, then the Company shall pay water tax equivalent to 5% of the water tax and cess payable on the annual allocation of water. However, the Company will have the option of depositing the above fees on a monthly basis or in a single annual instalment.

24.2 If in case, the Company fails to start industrial production up to 72 months from the date of issuance of water allocation order Dtd. 06-04-2011 or from the date of application of Gazette Notification Dated 22-06-2013 i.e.13-07-2012, whichever is later or the authorized extended period therefor, then the water allocation order shall be deemed to be cancelled and the security amount deposited by the company mentioned in Para 4 and clause no. 13 of this agreement shall stand forfeited.

24.3 It is hereby agreed that the Company will have an option to fix different dates for commencing industrial production in different units at this location. The details of agreed programme and water utilization (the period between two successive dates shall be six months or less) is given below:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Effective date of water drawl</th>
<th>Programme for Commissioning of units</th>
<th>No. of Units agreed to be commissioned and their water requirement per unit</th>
<th>Total no. of units under operation and total water requirement</th>
<th>Agreed quantity of water drawl per month in Cum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01-04-1981</td>
<td>1st - 9860</td>
<td>One - 9860 Cum/Day</td>
<td>500000</td>
<td>Cum/Month</td>
</tr>
<tr>
<td></td>
<td>(Unit already in operation)</td>
<td>2nd- 9860</td>
<td>Two - 19720 Cum/Day</td>
<td>60000</td>
<td>Cum/Month</td>
</tr>
<tr>
<td>2</td>
<td>01-10-2016</td>
<td>3rd - 4375</td>
<td>Three - 24095 Cum/Day</td>
<td>73300</td>
<td>Cum/Month</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4th - 4375</td>
<td>Four - 28470 Cum/Day</td>
<td>866000</td>
<td>Cum/Month</td>
</tr>
<tr>
<td>3</td>
<td>01-04-2017</td>
<td>5th - 4375</td>
<td>Five - 32845 Cum/Day</td>
<td>999000</td>
<td>Cum/Month</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6th - 4415</td>
<td>Six - 37260 Cum/Day</td>
<td>1133330</td>
<td>Cum/Month</td>
</tr>
</tbody>
</table>

24.4 If the company fails to start production in successive units as shown in the table above, then the water tax and cess will be charged at the rate of 90% of the total quantity of annual allocated water.

24.5 On starting of the industrial production the company may convert the security amount, deposited by the company mentioned in Para 4 and clause no. 13 of this agreement, and deposit the amount equivalent to two months water tax and cess as bank guarantee and the deposited security amount may be adjusted in current monthly water bills.

IN WITNESS WHERE OF Sanjeev Gupta, Officer On Special Duty (Executive Engineer), Control Board for Major Project, Water Resources Deptt. Bhopal (MP), has for and on behalf of the Governor of Madhya Pradesh hereto set his hand and affixed the seal of the

[Signature]

Officer on Special Duty
Control Board for Major Projects
Water Resources Department
M.P. Bhopal

[Signature]

S. S. Agrawal
Gen. Manager (O & M - GPU)
(M.P.)
office and the common seal of the Officer On Special Duty (Executive Engineer), Control
Board for Major Project, Water Resources Deptt. Bhopal (MP) has been here up to affixed
on the day and year first herein above written.

SIGNER
Office on Special Duty
Control Board for Major Project,
Water Resources Deptt.

(4.11.2016
officer

(2) .
Office on Special Duty
Control Board for Major Project,
Water Resources Deptt.

officer

(2) 3.10.2016

(by Sanjeev Gupta, Officer On Special Duty (Executive Engineer), Control Board for
Major Project, Water Resources Deptt. Bhopal (MP) for and on behalf of the Governor of
Madhya Pradesh in the presence of)

(1) S.K. Talwar, A.E. C/o. E/Hc WRD. Bhopal

(2) A.K. Kushwaha, A.E. Work

THE COMMON SEAL OF GAIL (India) Ltd. was pursuant to the resolution of the Board of the
Directors of the company dated the 17/12/2015 and Mr. S.S. Agrawal, GM (O&M) - GPU of
the company who in token thereof have here to set their respective hand in presence of
Witness:
Signature

(1) J.B. Torne, DGM GPU (OPS)

GAIL, VIJAYPUR

(2) S.N. Sharma, Cm (GPU)

GAIL, VIJAYPUR

GAIL (India) Limited, Vijaipur, Guna (M. P.)

GAIL (India) Limited, Vijaipur, Guna (M. P.)

GAIL (India) Limited, Vijaipur, Guna (M. P.)
GSU AND C2/C3 CTE (2012)
MADHYA PRADESH POLLUTION CONTROL BOARD  
Paryawaran Parisar, E-5, Arera Colony, Bhopal- 462016  
Tel: (0755) 2464428, 2466191 Fax: (0755) 2463742 e-mail: itmppcb@rediffmail.com

No. 2541  
To,  
M/s. GAIL (India) Ltd.  
(C2C3 Recovery & Gas Processing Unit)  
Post: GAIL Complex,  
Vijaypur - 473 112  
Dist. Guna (M.P.)

Sub: Permission to establish the C2C3 Recovery & Gas Processing Unit.

Ref: 1. Your online application through NXGN inward No. 52884 dated: 26/12/11.  
2. Technical presentation of industry on dated: 19/01/12.

Without prejudice to the powers of this Board under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 and without reducing your responsibilities under the said Act, and after going through your proposal for achieving the effluent and gaseous emission standards, the Board grants you permission, ONLY FOR ESTABLISHING the C2C3 Recovery & Gas Processing Unit at existing GAIL Complex, Vijaypur, Dist. Guna (M.P.) for following product and production capacity :-

<table>
<thead>
<tr>
<th>Name of Product</th>
<th>Production Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. GAS SWEETENING UNIT (LPG Unit - 02 Nos.)</td>
<td>21.12 MMSCMD (Twenty One point One Two MMSCMD)</td>
</tr>
<tr>
<td>2. C2C3 RECOVERY &amp; GAS PROCESSING</td>
<td>21.72 MMSCMD (Twenty One point Seven Two MMSCMD)</td>
</tr>
</tbody>
</table>

SUBJECT TO FOLLOWING CONDITIONS:

1. The industry shall comply with the conditions stipulated in Environmental Clearance issued by Ministry of Environment & Forests GoI vide letter No. F.No. J-11011/168/2011-IA.II (I), dated: 02/03/12 and shall submit compliances of the same to the Board regularly.

2. The quantity of the industrial effluent shall not exceed 3200 m$^3$/day.

3. The industry shall apply for renewal of consent of LPG Recovery Unit separately.

4. The industry shall provide adequate facility for proper treatment of industrial/domestic waste water and shall ensure that the treated effluent quality meets the standards prescribed by the Board and notified in the M.P. Gazette dated: 25/03/88.
5. Industry shall install separate meter in accordance to Rule-3 of Water Cess Rules, 1978 for the measurement of water consumption in all the four categories as mentioned in the schedule-II of Water (Prevention & Control of Pollution) Act, 1977. Industry shall also provide water meter for measurement of total water consumption withdrawn from different sources for its use. Industry shall also submit detail information regarding different water supply sources; water consumption as per Schedule-II of the act giving breakup of every use along with the location plan of showing water meters to be install.

6. Industry shall make arrangement for maximum reuse/utilisation of total quantity of treated effluent for plantation purpose inside the premises. Industry shall not discharge any effluent outside of the factory premises in any case. Hence zero discharge condition shall be practiced.

7. Industry shall conduct existing ETP performance evaluation to examine the accommodation of additional liquid waste, if any.

8. Industry shall implement effective leakage detection and repair programme.

9. Industry shall install NOx burners to control emission from RG heater stack, GT bypass stack, HRSG stack and boiler stack.

10. Industry shall make arrangement for continuous monitoring system to monitor emission like NOx, CO, HC and VOC.

11. Industry shall provide adequate and proper arrangement for stack monitoring i.e. platform, portholes and safe spiral ladder.

12. Ambient air quality at the boundary of the factory premises shall conform to the norms prescribed in MoEF gazette notification no GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

   a. Particulate Matter (less than 10 micron)  - 100 microgram/cubic meter
      (PM₁₀, mg/m³ 24 hrs. basis)
   b. Particulate Matter (less than 2.5 micron)  - 60
      (PM₂.₅, mg/m³ 24 hrs. basis)
   c. Sulphur Dioxide [SO₂] (24 hrs. Basis)  - 80
   d. Nitrogen Oxides [NOx] (24 hrs. Basis)  - 80
   e. Carbon Monoxide [CO] (2 hrs. Basis)  - 2000

13. Minimum stack height of all the stacks shall be as per CPCB norms.

14. Environmental Cell with technically qualified personnel shall be setup under the control of Senior Executive.

15. Industry shall make suitable arrangement for handling and disposal of solid waste and sludge from process and ETP.
16. The industry shall install acoustic enclosure/canopy in D.G. Set to control the noise pollution. The ambient noise level shall not exceed the limit 75 dB [A] during the day time and 70 dB [A] during the night time.

17. Industry shall obtain authorisation under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 from the Board.

18. Industry shall obtain membership of Emergency Response Centre from M. P. Pollution Control Board.

19. Industry shall comply with all the relevant acts/rules, directions, guidelines, notifications issued by MoEF/CPCB/MPPCB from time to time as required and, if applicable

20. Industry shall take effective steps for thick plantation in and around their premises covering 33% area for general improvement of environmental conditions. Plantation shall be developed in between industry, highway and habitation to minimize air pollution effect and shall be carried out suiting to local climatic condition maintaining local species in consultation with the expert agency.

21. After notice and/or opportunity of hearing this permission or any of the above condition can be modified, amended, revoked or withdrawn as a whole or in part as and when deemed necessary.

The consent (for operation) as required under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board in the prescribed proforma at least two months before the expected date of commissioning of your industry. The applicant shall not without valid consent (for operation) of the Board bring in to use any out let for the discharge of effluent and gaseous emission.

For & on behalf of
M. P. Pollution Control Board

( H. S. Malviya )
Executive Engineer

( R. K. Jain )
Member Secretary
Endt No. /TS/MPPCB/2012

1. Member Secretary, Central Pollution Control Board, Delhi for information.
2. Regional Officer, M.P. Pollution Control Board, Vijaipur, Guna.
3. Monitoring Section, M.P. Pollution Control Board, Bhopal.
4. Cess Section, M.P. Pollution Control Board, Bhopal.
5. HSMD Section, M.P. Pollution Control Board, Bhopal
6. I.T. Section, M.P. Pollution Control Board, Bhopal

( H. S. Malviya )
Executive Engineer

( R. K. JAIN )
Member Secretary
GSU AND C2/C3 CTO (2015)
CONSENT TO OPERATE

No. - AW-44405/ HO/PCB/F. No. ind- 19125 / Guna  Bhopal/Dated. : XX/XX/XXXX

To,

M/s. GAIL (India) Ltd.
(C2C3 Recovery & Gas Processing Unit)
Post: GAIL Complex,
VIJAIPUR - 473 112
Dist. Guna (M.P.)

Subject :- Grant of Consent to operate the unit under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 & under section 25 of the Water (Prevention & Control of Pollution) Act, 1974 .

Ref : Your Consent to operate application Receipt No. 78319 Dt. 18/05/2015.

With reference to your above application for consent to operate has been considered under the aforesaid Act and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent for One year from the first day of the month of commissioning of the plant., subject to the fulfillment of the terms & conditions, enclosed with this letter

SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location :- GAIL Complex, Vijaypur, PIN 473 112, Dist. Guna , (M.P.)
b. Production:-

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Product</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>GAS SWEETENING UNIT21.12 MMSCMD</td>
<td>(LPG Unit - 02 Nos.) Twenty One point One Two MMSCMD</td>
</tr>
<tr>
<td>2.</td>
<td>C2C3 RECOVERY &amp; GAS21.72 MMSCMD</td>
<td>PROCESSING (Twenty One point Seven Two MMSCMD)</td>
</tr>
</tbody>
</table>

Note:- For any change in above industry shall obtain fresh consent from the board.

Note: The above capacity includes the existing capacity of the plant. The previous consent issued under Water (Prevention & Control of Pollution) Act, 1974 & under Air (Prevention & Control of Pollution) Act, 1981 vide letter No. 20582 & 20584 dated: 13/12/2002 shall be treated as cancelled immediately after issuance of this consent.

Outward No: 22194, 15/07/2015

Enclosures:-
1. Conditions pertaining to Water Act
2. Conditions pertaining to Air Act
3. General conditions
4. Special conditions
This consent is valid for the stated period and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall submit in this office 6 months before expiry of the consent. Board reserves the right to amend/cancel above condition on and when deemed necessary.

For and on behalf of M. P. Pollution Control Board

ACHYUT ANAND
MISHRA

Member Secretary.

CONDITIONS PERTAINING TO WATER ACT :-

1. The daily quantity of trade effluent at out fall of the unit shall not exceed --- 3200 KL/day
2. The daily quantity of sewage effluent at out fall of the unit shall not exceed ---
3. Trade Effluent :-
   Treatment: Additional effluent generation shall not exceed 133 m$^3$/hr. Industrial effluent shall be treated in ETP and treated effluent shall be recycled and reused within factory premises. Industry shall construct guard pond for collection of treated effluent and shall carry out the water quality test by collecting the treated effluent from the guard pond before application. Industry shall ensure that the treated effluent shall conform to the standards prescribed by the Board and notified in the M.P. Gazette dated: 25/03/88. As proposed, sewage shall be transferred to aeration tank along with process water.

The applicant shall provide comprehensive treatment system consisting of primary / secondary and/or tertiary treatment as is warranted with reference the quality of the treated effluent up to standards prescribed in the M. P. gazette dated 25-3-88 and standard notified under EPA Acts. Some of the important parameters are as follows:-

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Between 5.5 – 9.0</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>Not exceed 100 mg/l.</td>
</tr>
<tr>
<td>BOD 3 Days 27 deg. C</td>
<td>Not exceed 30 mg/l.</td>
</tr>
<tr>
<td>COD</td>
<td>Not exceed 250 mg/l.</td>
</tr>
<tr>
<td>Oil and grease</td>
<td>Not exceed 10 mg/l.</td>
</tr>
<tr>
<td>TDS</td>
<td>Not exceed 2100 mg/l.</td>
</tr>
<tr>
<td>Chlorides</td>
<td>Not exceed 600 mg/l.</td>
</tr>
<tr>
<td>Sulphates</td>
<td>Not exceed 100 mg/l.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
</tbody>
</table>

4. Sewage Effluent Treatment :- The applicant shall provide comprehensive treatment as is warranted with reference to influent quality and operate and maintain the same continuously so as to quality of the treated effluent to the following standards.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended Solids</td>
<td>Not exceed 100 mg/l.</td>
</tr>
<tr>
<td>BOD 3 Days 27 deg. C</td>
<td>Not exceed 100 mg/l.</td>
</tr>
</tbody>
</table>

5. The project authorities shall utilize the treated effluent within their premises. Project authorities shall not discharge the treated/untreated effluent outside the premises in any circumstances. The concept of "Zero Discharge" shall be practiced.

Unit shall make an arrangement for full utilization of treated effluent (Industrial/Domestic) inside the premises for plantation and other purpose. Industry shall not discharge any effluent outside of the factory premises in any case. Hence zero discharge condition shall be practiced.

6. Any change in production capacity, process, raw material used etc. shall be intimated to the Board. For any enhancement of the above prior permission of the Board shall be obtained. Facility expansions, production, increases or process Modifications which result new of increased discharges of pollutants must be reported by submission of a new Consent application of if such new, or increased discharge does not violate the effluent limitations specified in the Consent, by submission to the Board details of such new or increased discharges of pollutants in which case the consent may be modified to specify effluent limitations for any pollutants not identified and limited herein the
discharge or any pollutant more frequently than or at a level in excess of that identified and
authorized by this Consent shall constitute a violation of the terms and conditions of this Consent.

7. Notwithstanding Para (2) above, if a toxic effluent standard or prohibition (including any schedule of
compliance specified in such effluent standard or prohibition) is established for a toxic pollutant
which is present in the discharge authorized herein and such standard or standard or prohibition is
more stringent that any limitation upon such pollutant in this Consent, the Consent shall be revised or
modified in accordance with the toxic effluent standard or prohibition that the Board may consider
and the applicant shall be so notified.

8. The applicant shall all times maintain in good working order and operate as efficiently as possible at
all treatment or control facilities or systems installed or used by him to achieve compliance with the
terms and conditions of this Consent.

9. The Consent does not authorize or approve the Construction of any physical structures or facilities or
the undertaking of any work in any water course.

10. The specific effluent limitations and other pollution control applicable to the discharge permitted
herein are set forth below specific conditions. Also set forth below are self monitoring and reporting
requirements. Unless otherwise specified, the applicant shall submit online all reports to the Madhya
Pradesh Pollution Control Board. Knowingly making any false statement on any such report may
result in the imposition of criminal penalties as provided for in section 42 of the Act.

(a) Effluent limitations : During the period beginning on the effective date of his consent discharge
from outfalls shall have to provide adequate facility for proper treatment of industrial & domestic
effluent. The industry shall ensure that the quality of treated effluent conform to the limit
prescribed by the board Gazette notifications of M.P. dated 25.03.88

i. For the purpose of this sub-section, the daily average discharge is the total discharge by
weight during the calendar month divided by the number of days in a month the
production or commercial facility was operating. For the purpose of this sub-section the
daily maximum discharge means the total discharge by weight during any calendar day.

ii. The pH shall not be less than 5.5 or greater than 9.0.

11. Compilation of Monitoring Data –

i. Samples and measurements taken to meet the monitoring requirements specified above
shall be representative of the volume and nature of monitored discharge.

ii. Following promulgation of guidelines establishing test procedures for the analysis of
pollutants, all sampling and analytical methods used to meet the monitoring requirements
specified above shall conform to such guidelines unless otherwise specified sampling and
analytical methods shall conform to the latest edition of the Indian Standard
specifications and where it is not specified the guidelines as per standard methods for the
examination of Water and Waste 13th Edition of the American Public Health Association,
New York U.S.A. shall be used.

iii. The applicant shall take samples and measurements at the site indicated below:

12. Recording of Monitoring activities and Results –

i. The applicant shall make and maintain records of all information resulting from monitoring
activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the
requirements of this Consent the following information

(I) The date exact place and time of sampling (ii) The dates on which analysis were
performed (iii) Who performed the analysis (iv) The analytical techniques or methods used and
(v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include
the results of such monitoring in the calculation and reporting of values required in the
discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. This of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board.

v. The applicant shall taken all reasonable steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in his Consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

vi. Nothing in this Consent shall be constructed to relieve the application from civil or criminal penalties for non-compliance, whether or not such non-compliance is due to factors beyond his control such as equipment break-down, electric power failure, accident or natural disaster.

13. Reporting of Monitoring Results:-
   (a) Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board from duly filled in and signed.
   (b) Each Submitted Discharge Monitoring Report shall be signed as follows:
      (i) If submitted by Corporation by a Principal Executive officer of at least the level of Vice-President or his duly authorised representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the discharge Monitoring Report originates
      (ii) If submitted by a partnership by a general partner & the sole proprietor by the proprietor.
      (iii) If submitted by a Municipal, State or Central Government or other public enterprise, by a Principal Executive officer, ranking elected official, commanding officer, or other duly authorized employee.
   (c) All information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the three previous calendar months. The first Discharge Monitoring Report shall be submitted for a period during 60 days from issuance. There after reporting period shall on the last date of each month. The applicant shall submit a Discharge Monitoring Report post marked on later then 20th day of the month following each completed reporting period.

15. Limitation of discharge of oil Hazardous Substance in harmful quantities:-
   The applicant shall not discharge oil in quantities defined as harmful in regulations in addition the applicant shall not discharge hazardous substances into natural water course in quantities defined as harmful in regulations promulgated by Board. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relive the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

16. Limitation of visible floating solids and foam:-
   During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

17. Disposal of Collected Solid:-
   (a) All hazardous waste/sludge shall be disposed of as per the Authorization issued under HW Rules 2008. And/other Solids Sledges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

18. Non compliance with effluent limitations:-
   (a) If for any reason the applicant does not comply with or will be unable to comply with any daily maximum effluent limitations specified in this Consent the applicant shall immediately
notify the Consent issuing authority or his designee by telephone, on line and provided the Consent issuing Authority with the following information in writing within 5 days of such notification:

(i) Cause if non compliance.
(ii) A description of the non-complying discharge including its impact upon the receiving water.
(iii) Anticipated the time condition of non compliance is expected to continue or if such condition has corrected, the duration of non-compliance.
(iv) Step taken by the applicant to reduce and eliminate the non-complying discharge, and
(v) Step to be taken by the applicant to prevent recurrence of condition of non compliance.
(vii) The applicant shall take all responsible steps to minimize any advance impact to natural water resulting from non-compliance with any effluent limitation specified in his Consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non complying discharge.
(viii) Nothing in this Consent shall be constructed to relieve the applicant from civil or criminal penalties for non Compliance, Whether or not such non-compliance is due to factors beyond his control such as equipment break down, electric power failure, accident or natural disaster.

19. **Provision for Electric Power Failure**: The applicant shall ensure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

20. **Prohibition of By pass of Treatment Facilities**: The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:

(i) Where unavoidable to prevent loss of life severe property damage, or
(ii) Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

21. Industry shall not discharge any effluent outside the premises. The effluent shall be treated up to prescribed Standards and reuse for green belt development/gardening within premises.

22. Water meter preferably electromagnetic/ ultra sonic type with digital recording facilities shall be installed and consumption of water for Industrial cooling/boiler feed, mine spray, Process and domestic purpose separately and flow shall be recorded and statement shall be submitted to the board.

23. This consent to discharge shall expire on midnight of **31/07/2010**. The occupier shall not operate and discharge any effluent after the date of expiration.

**CONDITIONS PERTAINING TO AIR ACT:-**

The emission of air pollutants from various sections shall not exceed the following limits:-

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of Section</th>
<th>Name of Pollutants</th>
<th>Max. permissible points</th>
<th>Dia of Stack</th>
<th>Height of stack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Gas Turbine – 06 nos. R.G. Heater - 02 nos. Boilers - 01</td>
<td>Particulate Matter</td>
<td>50 mg/Nm(^3)</td>
<td>30 mt. 42 mt. 36 mt.</td>
<td></td>
</tr>
</tbody>
</table>
1. The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate & maintain the same Continuously so as to achieve the level of pollutants to the following standard:-

<table>
<thead>
<tr>
<th>Name of section</th>
<th>Stack height</th>
<th>Control equipment to be installed</th>
<th>Maximum limits of pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler 4 T/hr</td>
<td>35 meter</td>
<td>Multi cyclone dust collector</td>
<td>PM-150 mg/Nm³</td>
</tr>
<tr>
<td>DG Sets</td>
<td>acoustic enclosure</td>
<td>25 dB (A) insertion loss at 0.5 m 2 meter above roof</td>
<td></td>
</tr>
</tbody>
</table>

2. The applicant shall observe the following **fuel** pattern:

<table>
<thead>
<tr>
<th>Name of Fuel</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agro based, wood, coal</td>
<td>15 T/day</td>
</tr>
</tbody>
</table>

3. The industry shall take adequate measures for control of noise level from its own source within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A0 during night time.

4. Industry/Unit shall provide port hole with platform of 1 Mt. width with support & spiral ladder/Step ladder with hand rail up to monitoring platform as per specifications with each stack. In no case monkey ladder shall be accepted, as SMF. (If required)

5. The industry/unit shall not cause smell nuisance in surrounding area.

**GENERAL CONDITIONS:**

The project authorities shall do extensive tree plantation all around the compressor stations for improvement of the environment in general and good housekeeping practices shall be adopted.

1. Industry shall take effective steps for extensive tree plantation in and around factory premises for general improvement of environmental conditions. And year wise record shall be maintained.

2. Good housekeeping practice shall be adopted and all the internal roads shall be made pucca.

3. The non hazardous solid waste arresting in the factory/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

   Non Hazardous Solid wastes:-

<table>
<thead>
<tr>
<th>Type of waste</th>
<th>Quantity</th>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrap/Plastic packing material wood, card board, gunny begs etc</td>
<td>2% of total waste</td>
<td>Sale to authorized party/As Per CPCB. MoEF Guide lines.</td>
</tr>
</tbody>
</table>

4. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following:

   (a) Violation of any terms and conditions of this Consent.
   (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

5. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
   (a) To enter upon the applicant’s premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
   (b) To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this Consent.
   (c) To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent; or,
   (d) To sample at reasonable times any discharge or pollutants.

6. This consent is transferable. In case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same.

7. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

8. The Board reserved the right to amend/revoke above condition as and when deemed necessary.

9. The applicant shall submit to the Consent issuing Authority the required report of progress or where a specific action is required in [a] above to be taken by a certain date, a written notice of compliance or non-compliance with each of the above scheduled dates, post market not later than 14 days following each elapsed date. Each notice of non-compliance shall include the following information:
   i. A short description of the non-compliance.
   ii. A description of any action taken or proposed by the applicant to comply with the elapsed scheduled requiring without further delay.
   iii. An estimate of any factors which tend to explain or mitigate the non-compliance, and
   iv. An estimate, of the date, the applicant will comply with the elapsed Scheduled requirement and assessment of the possibility that the applicant will meet the next scheduled requirement in time.

10. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non-functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month.

11. This consent is granted in respect of Water pollution control Act 1974, Air Pollution Control act, 1981 only and does not relate to any other Department / Agencies. License required from other Department / Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

12. There shall not any complaint against the establishing unit, if there shall be any complaint from the public and found correct, industry shall stop its activities & shift to suitable place.

13. Balance consent fee, if any shall be recoverable by the Board even at a later date.

14. The applicant shall not changes or alter the quantity, quality of discharge, temperature or the mode of the effluent/emission or hazardous wastes or control equipments provided for, without permission of the board.

15. Any change in production capacity, process, raw material used etc. shall be intimated to the Board. For any enhancement of the above prior permission of the Board shall be obtained.

16. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the above date of expiration.

17. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Board as prescribed under the Environment (Protection) Act,
1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to Board. Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.

18. Industry shall obtain membership of Emergency Response Center of the Board if needed.

19. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

**Special condition:-**

1. The date of commissioning of the plant with expanded capacity shall be informed in advance

2. Total fresh water requirement from Gopikrishna Sagar Dam shall not exceed 830 m³/hr and prior permission shall be obtained from the concerned authority. No ground water shall be used.

3. Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

4. Industry shall install the real time online effluent monitoring system at the outlet of effluent treatment plant flow, BOD, COD, TSS, TDS & AOX with dedicated network sharing with MPPCB and CPCB for the transfer of online continuous effluent monitoring data. Industry shall also submit details regarding specification, methodology adopted for data transfer and remote calibration facility available with the system and obtain Board’s approval for the same.

5. Project authority shall maintain separate meter in accordance to Rule-3 of Water Cess Rules, 1978 for the measurement of water consumption in all the four categories as mentioned in the schedule-II of Water (Prevention & Control of Pollution) Cess Act, 1977. As per the application of the unit, water consumption shall be as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Purpose for which water consumed</th>
<th>Category</th>
<th>Quantity of Water billed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Industrial, cooling, spraying in mine pit or boilers feed</td>
<td>I</td>
<td>610 KL/hr.</td>
</tr>
<tr>
<td>2.</td>
<td>Domestic Purposes</td>
<td>II</td>
<td>10 KL/hr.</td>
</tr>
<tr>
<td>3.</td>
<td>Processing where by water gets polluted are easily bio-degradable.</td>
<td>III</td>
<td>50 KL/hr.</td>
</tr>
<tr>
<td>4.</td>
<td>Processing where by water gets polluted and the pollutants are not easily bio-degradable</td>
<td>IV</td>
<td>181 KL/hr.</td>
</tr>
</tbody>
</table>

6. Project authorities shall undertake following waste minimization measures:

   a) Metering and control of quantities of active ingredients to minimize waste.
   b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
   c) Use of automated filling to minimize spillage.
   d) Use of Close Feed System into batch reactors.
   e) Venting equipment through vapour recovery system.
   f) Use of high pressure hoses for equipment clearing to reduce waste water generation.

7. The project authorities shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
8. The process emissions (particulate matter, SO$_2$, NO$_x$, HC, CO and VOCs) from various units shall confirm to all standards prescribed by the CPCB/MPPCB from time to time. At no time, the emission 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 measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly. Low NOx burner shall be installed to control NOx emissions.

9. In-plant control and monitoring measures for checking fugitive emissions from all the vulnerable sources should be provided. Adequate dust suppression systems with water spray shall be provided for storage yard, junction houses. Raw material loading and unloading area should be covered and also provided with water spraying system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions should conform to the limits stipulated by Board.

10. Project authority shall take steps 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 Board. Continuous monitoring systems for VOCs at all important places/areas should be ensured. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.

11. Continuous ambient air quality monitoring stations for PM10, SO2, CO, HC and VOCs shall be set up in the Petrochemical Complex in consultation with Board. 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 places for public viewing. Industry shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the CPCB/MPPCB.

12. A proper Leak Detection and Repair (LDAR) Program shall be prepared and implemented. Focus shall be given for prevention of fugitive emissions for which preventive 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.

13. Ambient air quality at the boundary of the factory premises shall conform to the norms prescribed in MoEF gazette notification no GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:
   a. Particulate Matter (less than 10 micron) - 100 microgram/cubic meter (PM$_{10}$ µg/m$^3$ 24 hrs. basis)
   b. Particulate Matter (less than 2.5 micron) - 60 -"-
      (PM$_{2.5}$ µg/m$^3$ 24 hrs. basis)
   c. Sulphur Dioxide [SO$_2$] (24 hrs. Basis) - 80 -"-
   d. Nitrogen Oxides [NO$_x$] (24 hrs. Basis) - 80 -"-
   e. Carbon Monoxide [CO] (8 hrs. Basis) - 2000 -"-

14. Project authorities shall submit six monthly stack and ambient air quality monitoring reports to the Board regularly. Some of the guidelines in this regards are as below:-
   [a] The sampling of ambient air quality shall be done on 8 hours basis.
   [b] The monitoring of ambient air quality shall be done atleast at two stations at windward and other leeward direction of the same.
15. Stack of adequate height will be installed at regeneration gas heater (18-FF-101 Unit) gas turbine (GT) bypass, utility boiler (UB) and heat recovery steam generator (HRSG). Low NOx burner will be installed. Industry shall provide adequate and proper arrangement for stack monitoring i.e. platform, portholes and safe spiral ladder.

16. The project authorities shall operate and maintain the requisite air pollution control equipment with the compressor stack and shall comply with the standards prescribed by the MoEF/CPCB/MPPCB time to time. Industry shall install NOx burners to control emission from RG heater stack, GT bypass stack, HRSG stack and boiler stack. Industry shall make arrangement for continuous monitoring system to monitor emission like NOx, CO, HC and VOC.

17. Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.

18. Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

19. Environmental Management Plan, On-site Emergency Plan approved by competent authority shall be prepared (for expanded capacity) and submitted to the Board.


Consent as required under the Water (prevention & control of Pollution) Act, 1974. The Air(prevention & control of Pollution) Act,1981 shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board through Narmda XGN at least Six months before the expected date of commissioning of industry. The applicant shall not without valid consent (for operation) of the Board bring in to use any outlet for the discharge of effluent and gaseous emission.

On & behalf of the Pollution control board

ACHYUT ANAND MISHRA

Member Secretary

Outward No: 22194, 15/07/2015
ANNXURE V
EXISTING CTO
NO: /MPPCB/GUN

To,

The Occupier,

M/s. Gail (India) Limited (Lpg Recovery),
Tal : Raghogarh, Vijaipur,
Dist : Guna (M.P.) 473112


Ref: Your Consent renewal Application Receipt No. CCA-Re Apply -264451-21/06/2017-AWH and last communication received on Dt. 09/06/2017

With reference to your above application for consent to operate has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to **31/07/2020** & authorisation up to **31/07/2022**, subject to the fulfillment of the terms & conditions, enclosed with this letter and:-

**SUBJECT TO THE FOLLOWING CONDITIONS** :-

a. **Location:** Tal : Raghogarh, Vijaipur.; Guna (M.P.) 473112

b. **The capital investment in Crs:** Rs. 2214.00

c. **Product & Production Capacity:**

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Product</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>GAS SWEETENING UNIT (LPG Unit - 02 Nos.)</td>
<td>21.12 MMSCMD (Twenty One point One Two MMSCMD)</td>
</tr>
<tr>
<td>2.</td>
<td>C2C3 RECOVERY &amp; GAS PROCESSING</td>
<td>21.72 MMSCMD (Twenty One point Seven Two MMSCMD)</td>
</tr>
</tbody>
</table>

Note:- For any change in above industry shall obtain fresh consent from the board.

The Validity of the consent is up to **31/07/2020** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

* Conditions under Water Act
* Conditions under Air Act
* Conditions under Hazardous Rules
* General conditions
**CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-**

1. The daily quantity of trade effluent at and domestic wastewater out fall of the unit shall not exceed 3200.000 KL/day.

2. Trade Effluent Treatment:-
   The applicant shall provide comprehensive effluent treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards and maintain zero discharge from the premises:
   
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Between 5.5 – 9.0</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>Not Exceed 100 mg/l.</td>
</tr>
<tr>
<td>BOD 3 Days 27°C</td>
<td>Not Exceed 30 mg/l.</td>
</tr>
<tr>
<td>COD</td>
<td>Not Exceed 250 mg/l.</td>
</tr>
<tr>
<td>Oil and grease</td>
<td>Not Exceed 10 mg/l.</td>
</tr>
<tr>
<td>TDS</td>
<td>Not Exceed 2100 mg/l.</td>
</tr>
<tr>
<td>Chlorides</td>
<td>Not Exceed 1000 mg/l.</td>
</tr>
</tbody>
</table>

   **Note:** For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. Sewage Treatment :- The applicant shall provide comprehensive sewage treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards:
   
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Between 6.5 – 9.0</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>Not Exceed 10 mg/l</td>
</tr>
<tr>
<td>BOD 3 Days 27°C</td>
<td>Not Exceed 10 mg/l</td>
</tr>
<tr>
<td>COD</td>
<td>Not Exceed 50 mg/l</td>
</tr>
<tr>
<td>NH4-N</td>
<td>Not Exceed 5 mg/l</td>
</tr>
<tr>
<td>N-Total</td>
<td>Not Exceed 10 mg/L</td>
</tr>
<tr>
<td>Fecal Coliform</td>
<td>Not Exceed 230 (MPN/100 ml)</td>
</tr>
<tr>
<td>PO₄-P</td>
<td>Not Exceed 2 mg/L</td>
</tr>
</tbody>
</table>

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Water meter preferably electromagnetic/ultrasonic type with digital flow recording facilities shall be installed separately for Industrial cooling/boiler feed, mine spray, process & domestic purposes and data shall be submitted online through XGN monthly patrak/statements. The industry/unit shall also monitor the treated wastewater flow and report the same online through monthly patrak/statements.

6. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board.

7. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent.

8. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

9. Compilation of Monitoring:-
   i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
   ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of
the American Public Health Association, New York U.S.A. shall be used.

iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

10. Recording of Monitoring-
   i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.
   ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as follows:
      (i) The date, exact place and time of sampling
      (ii) The dates on which analysis were performed
      (iii) Who performed the analysis?
      (iv) The analytical techniques or methods used and
      (v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.
iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation.

The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

11. Reporting of Monitoring Results:-
   Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

12. Limitation of discharge of oil Hazardous Substance in harmful quantities:-
   The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

13. Limitation of visible floating solids and foam:
   During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

14. Disposal of Collected Solid-
   All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazd & other waste Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water. Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eater's body habitat.

15. Provision for Electric Power Failure-
   The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

16. Prohibition of By pass system-
   The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent in prohibited except:
   i. where unavoidable to prevent loss of life or severe property damage, or
   ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

17. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.

**Additional Water condition:- (if any) :-**

1. The industry shall submit the treated waste water analysis regularly on monthly basis to the Board.
**CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-**

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:

<table>
<thead>
<tr>
<th>Name of section</th>
<th>Capacity</th>
<th>Stack height(mtrs)</th>
<th>Fuel</th>
<th>Control equipment to be installed</th>
<th>P.M, SO$_x$, NO$_x$ (mg/NM$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Turbine</td>
<td>BYPASS STACK(3) IN C2C3</td>
<td>30</td>
<td>Fuel Gas</td>
<td>acoustic enclosure, Low NOx Burner</td>
<td>100, 150, 150</td>
</tr>
<tr>
<td>Heat Recovery Steam Generator</td>
<td>STACK (3 No.) IN C2C3</td>
<td>30</td>
<td>F.G</td>
<td>acoustic enclosure, Low NOx Burner</td>
<td>100, 150, 150</td>
</tr>
<tr>
<td>Light &amp; Fractionator Gas Turbine</td>
<td>STACK - 1</td>
<td>30</td>
<td>F.G</td>
<td>acoustic enclosure, Green Belt</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Light &amp; Fractionator Gas Turbine</td>
<td>STACK - 2</td>
<td>30</td>
<td>F.G</td>
<td>acoustic enclosure</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Propane Recovery Unit Gas Turbine</td>
<td>STACK -1</td>
<td>30</td>
<td>F.G</td>
<td>acoustic enclosure</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Propane Recovery Unit Gas Turbine</td>
<td>STACK -2</td>
<td>30</td>
<td>F.G</td>
<td>acoustic enclosure</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Frame –III Gas Turbine Phase - I</td>
<td>STACK - PH-1</td>
<td>35</td>
<td>F.G</td>
<td>acoustic enclosure</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Frame –III Gas Turbine Phase - II</td>
<td>STACK - PH-2</td>
<td>35</td>
<td>F.G</td>
<td>acoustic enclosure</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Regeneration Gas Heater-1</td>
<td>STACK - 1</td>
<td>36</td>
<td>F.G</td>
<td>Low Nox Burner</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Regeneration Gas Heater-2</td>
<td>STACK - 2</td>
<td>36</td>
<td>F.G</td>
<td>Low Nox Burner</td>
<td>150,100,100</td>
</tr>
<tr>
<td>Regeneration Gas Heater-C2C3</td>
<td>Stack- C2C3</td>
<td>42</td>
<td>F.G</td>
<td>Low Nox Burner</td>
<td>100,150,150</td>
</tr>
<tr>
<td>Boiler</td>
<td>120 TPH</td>
<td>30</td>
<td>F.G</td>
<td>Low Nox Burner ,Natural Draft</td>
<td>100,150,150</td>
</tr>
<tr>
<td>D.G. Sets</td>
<td>750 KVA For C2C3</td>
<td>20</td>
<td>Diesel</td>
<td>acoustic enclosure</td>
<td>100,150,150</td>
</tr>
</tbody>
</table>

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:
   a. Particulate Matter (less than 10 micron) - 100 µg/m$^3$ (PM$_{10}$ µg/m$^3$ 24 hrs. basis)
   b. Particulate Matter (less than 2.5 micron) - 60 µg/m$^3$ (PM$_{2.5}$ µg/m$^3$ 24 hrs. basis)
   c. Sulphur Dioxide [SO$_2$] (24 hrs. Basis) - 80 µg/m$^3$
   d. Nitrogen Oxides [NO$_x$] (24 hrs. Basis) - 80 µg/m$^3$
   e. Carbon Monoxide [CO] (8 hrs. Basis) - 2000 µg/m$^3$

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. Industry/Unit shall provide with each stack port hole with safe platform of 1 meter width with support & spiral ladder/ Stepped ladder with hand rail up to monitoring platform as per specifications given in part-III emission regulation of CPCB. In no case monkey ladder shall be allowed as stack monitoring facility.

5. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

6. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

7. The industry/unit shall ensure all necessary arrangements for control of odour nuisance from the industrial activities or process within premises

8. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to
transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

9. Industry shall take effective steps for extensive tree plantation atleast in 03 rows of the local tree species with minimum spacing of within or around the industry/unit premises for general improvement of environmental conditions and as stated in additional condition

**Additional Air condition:- (if any) :-**

1. The industry shall install online air quality monitoring system and same shall be connected to M. P. Pollution Control Board’s Environment Surveillance Center at Bhopal within 03 months form date of issue of this letter.

2. The industry shall submit the monitoring reports for each source of emission on quarterly basis to RO & HO MPPCB.
CONDITIONS PERTAINING TO THE HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016:

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. The operator of facility, i.e. occupier Gail (India) Limited (LPG RECOVERY) is hereby granted the authorization to operate a facility for collection, reception, treatment, storage, transport and dispose of Hazardous waste to be generated and disposed to the tune mentioned in table below on the premises situated at Vijaipur, Vijaipur, Vijaipur, Raghogarh, Guna, Phone No. 07544-274444

2. The authorization granted to operate a facility for generation, collection, reception, storage and transport of hazardous waste

<table>
<thead>
<tr>
<th>Category of Hazardous Waste as per the Schedules I, II and III of these rules</th>
<th>Authorised mode of disposal or recycling or utilisation or co-processing, etc.</th>
<th>Quantity (ton/annum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos/ACM(X03)</td>
<td>CTSDF Pithampur</td>
<td>100.000-M.T</td>
</tr>
<tr>
<td>Glass wool(X02)</td>
<td>CTSDF Pithampur</td>
<td>10.000-M.T</td>
</tr>
<tr>
<td>Ceramic(X05)</td>
<td>CTSDF Pithampur</td>
<td>50.000-M.T</td>
</tr>
<tr>
<td>Empty barrels/containers/liners contaminated with hazardous chemicals/wastes(33.1)</td>
<td>Sold to authorised Recyclers/CTSDF Pithampur</td>
<td>2.200-M.T</td>
</tr>
<tr>
<td>Used or Spent Oil(5.1)</td>
<td>Sold to authorised Recyclers/CTSDF Pithampur</td>
<td>15.000-M.T</td>
</tr>
<tr>
<td>Wastes or residues containing oil(5.2)</td>
<td>CTSDF Pithampur</td>
<td>10.000-M.T</td>
</tr>
</tbody>
</table>

3. The waste specified under hazardous waste stream as mentioned above shall be stored as per MoEF and CPCB guidelines issued time to time and disposed off as indicated in above table at SL. No. 3 as Hazardous and other Waste (Management & Transboundary movement) Rules, 2016.

4. The authorization shall be in force for a period of Five years from 01/08/2017 to 31/07/2022

5. The industry shall take all the steps wherever required, for reduction of the waste generated or for recycling or reuse.

6. The industry shall display the information on hazardous waste generated on notice board of size 6’ x 4’ (in Hindi & English) outside the unit main gate along with quantity and nature of hazardous chemicals being handled in the plant, including wastewater, air emission and hazardous wastes.

7. The authorisation is subject to the terms & conditions as given below and to such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986. Violation of any of the conditions shall be liable for legal action as per provisions under Environment (Protection) Act, 1986.

Terms and Condition Of Authorisation

1. The authorisation shall comply with the provision of Environment (Protection) Act, 1986 and the rules made there under.

2. The authorisation or its renewal shall be produced during inspection on the request of the inspecting officer authorized by the State Pollution Control Board.

3. The authorized person shall not rent, lend, sale, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution Control Board.

4. If the industry comes in such a category where insurance under Public Liability Insurance Act, is necessary, the industry shall comply with provision and submit a copy of the policy to the Board.

5. Any unauthorized change in production capacity, process, raw materials, personnel, equipments etc. as mentioned in the application by the person authorized shall constitute a breach of this authorisation.

6. The unit should maintain the records of hazardous wastes as per the Form-3 of rule 9 (1) and should online submit the annual report Form No.-3A 31/07/2019, 31/07/2020, 31/07/2021, TPAV # M3K97M3Y1
Consent Order

7. Details of auction/sale of non-ferrous hazardous waste should be submitted online in form no.13 to this office annually.

8. An on-site storage for waste for a maximum period of one year or a maximum quantity of 10 MT, whichever is less, should be provided and it shall be ensured that there is no leakage or seepage or spillage from surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rainwater in storage area.

9. It is the duty of authorized person to take prior permission of the M.P. Pollution Control Board to close down the facility.

10. The information regarding quantity of hazardous wastes generated and its analysis report should be sent to the Board online quarterly.

11. Hazardous Waste Storage Site & Danger signboard shall be provided with all safety devices at the storage site.

12. The authorized person should inform the name and address of the contact person responsible for hazardous waste management.

13. In case of importing Hazardous Waste, occupier shall apply to the M.P. Pollution Control Board, 180 days in advance in Form-6, for permission to import of the waste as per Rule 13 (i) of Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 as amended up to date.

14. In the event of any accident due to handling of hazardous wastes, the authorized person must inform immediately to the Regional Office & Head office of the board on Fax/telephone/email-it_mppcb@rediffmail.com about the incident and detail report should be sent in Form No.5 as per rule –10 of Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 as amended up to date.

Additional Haz condition:- (if any) :-

PACKAGING :-

1. The containers must be able to withstand normal handling and retain integrity for a minimum period of six months. In general, packaging of hazardous substances must meet the following requirements.
   (i) All packaging materials including containers shall be of such strength, construction and type as not to break open or become defective during transportation.
   (ii) All packaging materials including containers shall be so packaged and sealed so that spillages of hazardous wastes/substances are prevented during transportation due to jerks and vibrations caused by uneven road surface.
   (iii) Re-packaging materials including that used for fastening must not be affected by the content or form a dangerous combination with them.
   (iv) Packaging material should be such that there will be no significant chemical or galvanic action among any of the material in the package.

2. The containers when used for packaging of the hazardous wastes should meet the requirements :-
   (A) Container shall be of mild steel with suitable corrosion, resistant coating and roll-on roll-off cover, which may either be handled by articulated crane or by a hook lift system comfortably for a large variety of wastes. Other modes of packaging, like collection in 200 - liter plastic drums, card board cartons, PP and HDPE/LDPE containers etc., also work for variety of wastes. However, all such container should be amenable to mechanical handling.
   (B) The transportation vehicle shall be made leak proof so that any leakage/seepage of hazardous waste in the environment could be avoided.
   (C) In general, the containers for liquid hazardous waste should be completely closed, in fact sealed. There should be no gas generation due to chemical reaction within the container, and hence, there should not be any need for air vents; expansion due to increase / decrease in temperature normally does not need air vents.
   (D) Container should be covered with solid lid or a canvas to avoid emissions of any sort including spillage, dust etc. and to minimize odour generation both at the point of loading as well as during transportation.
   (E) Container used for transportation of waste should be able to withstand the shock loads due to vibration effect/undulations of pavements etc.
(G) As far as possible manual handling of containers should be minimized. Appropriate material handling equipment is to be used to load, transport and unload containers. This equipment includes drum trolleys and forklifts, drum handling equipment, lift gates and pallets. Drums should not be rolled on or off vehicles.

(H) Where a two tier or three tier storage is envisaged, the frame should have adequate strength to hold the containers;

(I) One-way containers (especially 160-litre drums) are also allowed. The multi-use containers should be re-usable provided it should be cleaned and free from deterioration or defects.

(J) Loads are to be properly placed on vehicles. HW containers are not to overhang, perch, lean or be placed in other unstable base. Load should be secured with straps, clamps, braces or other measures to prevent movement and loss. Design of the container should be such that it can be safely accommodated on the transport vehicle.

(K) Dissimilar wastes shall not be collected in the same container Wastes shall be segregated and packed separately. This is necessary to ensure that each waste finds its way to the right disposal point.

(L) Occupier/hazardous waste generator shall not resort to the dilution of wastes (predominantly organic wastes);

(b) LABELING :-

3. There are two types of labeling requirements :
   (iii) Labeling of individual transport containers (ranging from a pint-size to a tank) and,
   (iv) Labeling of transport vehicles.

(a) All hazardous wastes containers must be clearly marked with current contents. The marking must be water proof and firmly attached so that they cannot be removed. Previous content labels shall be obliterated when the contents are different. Proper marking of containers is essential.

(b) Containers/Vehicles that contain HW shall be labeled with the words "HAZARDOUS WASTE" in Vernacular language, Hindi / English. The information on the label must include the code number of the waste, the waste type the origin (name, address, telephone number of generator), hazardous property (e.g. flammable) and the symbol for the hazardous property (e.g. the red square with flame symbol).

(c) The label must withstand the effect of rain and sun. Labeling of containers is important for tracking the wastes from the point of generation up to the final point of disposal. The following are the requirements for labeling :-
   (a) The label should contain the name and address of the Occupier and Operator of the facility, where it is being sent for treatment and final disposal.
   (b) Emergency contact phone numbers shall be prominently displayed viz. the phone numbers of concerned Regional Officer of the SPCB / PCC, Fire Station, Police Station and other agencies concerned.

(c) TRANSPORTATION :-

1. The following are the requirements pertaining to the transportation of hazardous wastes :-

   a) Vehicles used for transportation shall be in accordance with the provisions under the Motor Vehicles Act, 1988 and rules made there under with valid registration and permits for transport of hazardous wastes;
   b) Transporter shall possess requisite copies of the certificate (valid authorization obtained from the concerned SPCB/PCC for transportation of wastes by the waste generator and operator of a facility) for transportation of hazardous waste.
   c) Transporter should have valid “Pollution Under Control Certificate” PUCC during the transportation of HW and shall be properly displayed.
   d) Vehicles shall be painted preferably in blue colour with white strip of 15 to 30 cm width running centrally all over the body. This is to facilitate easy identification.
   e) Vehicle should be fitted with mechanical handling equipment as may be required for safe handling and transportation of the wastes.
   f) The words "HAZARDOUS WASTE" shall be displayed on all sides of the vehicle in Vernacular Language, Hindi, English.
g) Name of the transporter shall be displayed on the vehicle with addressed and contact numbers/Mobile Numbers.

h) Vehicles shall be fitted with roll-on/roll-off covers if the individual containers do not possess the same;

i) Carrying of passengers is strictly prohibited and those associated with the waste haulers, shall be permitted only in the cabin.

j) Transporter shall carry documents of manifest in Form-10 for the wastes during transportation as required under Rule 18 of the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016.

k) The truck shall be dedicated for transportation of hazardous wastes and they shall not be used for any other purpose.

l) Each vehicle shall carry first aid kit, spill control equipment and fire extinguisher;

m) Hazardous Waste transport vehicle shall run only at a speed specified under Motor & Vehicle Act in order to avoid any eventuality during the transportation of Hazardous Waste.

**GENERAL CONDITIONS:**

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

<table>
<thead>
<tr>
<th>Type of waste</th>
<th>Quantity</th>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activated Charcoal</td>
<td>7.250 MT</td>
<td>Sale to authorized party As Per CPCB and MoEF&amp;CC Guidelines.</td>
</tr>
<tr>
<td>Cellulose</td>
<td>0.290 MT</td>
<td></td>
</tr>
</tbody>
</table>

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:
   a. To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
   b. To enter upon the applicant’s premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
   c. To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
   d. To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
   e. To sample at reasonable times any discharge or pollutants.

3. This consent/authorisation is transferable, in case of change of ownership/management and addresses of new Owner/partner/Directors/proprietor should immediately apply for the same.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. Industry shall install separate electric metering arrangement for running of pollution control devices and this arrangement shall be made in such fashion that any non functioning of pollution control devices shall immediately stop electric supply to the production and shall remain tripped till such time unless the pollution control device/devices are made functional. The record of electricity consumption for running of pollution control equipment shall be maintained and submitted to the Board every month

6. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

7. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

8. The applicant shall submit such information, forms and fees as required by the board not letter than 180 day prior to the
date of expiration of this consent/authorization

9. The industry/unit shall establish a separate environmental cell, headed by senior officer of the unit for reporting the environmental compliances. The industry/ Unit shall submit environmental statement for the previous year ending 31st March on or before 30th September every year to the Board.

10. Industry shall obtain membership of Emergency Response Center of the Board if needed.

11. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

12. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :
   (a) Violation of any terms and conditions of this Consent.
   (b) Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
   (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

13. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.

Additional condition: (if any) :

1. Industry shall install Continuous Stack Emission Monitoring System (CSEMS) stations to monitor stack emission and shall provide connectivity of CSEMS with Environment Surveillance Center at the HQ of M.P. Pollution Control Board within 03 months from date of issue of this letter.

2. The industry shall install “Outdoor HD Industrial grade IP (Internet Protocol) cameras with Pan-Tilt-Zoom (PTZ) feature, minimum focal length 5 X with night vision facility and tamper proof mechanism” at suitable locations to display all emission sources and effluent discharge points and connect the same with Environment Surveillance Centre, M.P. Pollution Control Board Bhopal for remote surveillance on or before start of the production.

3. The industry shall comply with the conditions mentioned in the environmental clearance given by Ministry of Environment, Forests and Climate Change.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act,1974 , The Air (Prevention & Control of Pollution) Act,1981 and the Authorization under Hazardous Waste (Management handling & Transboundary movement) Amended Rule, 2016 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

For and on behalf of
M.P. Pollution Control Board

(Member Secretary)

CHD-636 , NULL , INDORE - 452010 , MADHYA PRADESH
Member Secretary
e-Signed On 10/08/2017 00:24:43
(Organic Authentication on AADHAR from UIDAI Server)
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