

Ref. HEGPL/MoEF/EC/2020/

Date: 03.01.2020

To,  
Shri Kanwarjeet Singh (IFS) Additional Principal Chief Conservator of Forest  
Ministry of Environment, Forest & Climate Change  
Regional Office (West Central Zone)  
Ground Floor, East Wing, New Secretary Building,  
Civil Lines,  
Nagpur- 440001

Sub: Half yearly EC & CRZ Clearance for expansion of JSW port at Jaigad, Ratnagiri, Maharashtra  
Compliance Report of M/s. H-Energy Gateway Private Limited.

Ref: EC & CRZ clearance F.No.11-17/2006-IA-III dated 13.06.2018

Sir,

With reference to the EC & CRZ clearance F.No.11-17/2006-IA-III, herewith submitting the six  
monthly compliance report for the period of Apr'19 to Sept'19.

We will be sending the compliance report regularly to this office.

Your kind consideration in this regard is highly appreciated and obliged.

Thanking You

Sincerely Yours  
for H-Energy Gateway Private Ltd.



Navinder Bedi  
Project Director



Half Yearly Environment Clearance (F.No.10-17/2006-IA.III dated 13<sup>th</sup> June 2018)  
Compliance Report for the period Apr'19 to Sept'19

**Project Status: Construction Phase**

Sr. No.	Additional Conditions	Compliance Status
3(i)	All recommendations and conditions specified by Maharashtra Coastal Zone Management Authority vide letter no. CRZ-2017/CR-147/TC-4 dated 03.10.2017 shall be complied with.	Being complied with. Compliance status- refer I
3 (ii)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Construction activities in the CRZ areas will be carried out in accordance with the provisions of CRZ Notification 2011.
3 (iii)	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.	For operational activities this shall be complied with.
3 (iv)	Automatic Detection System and Emergency shut off system shall be provided for LNG gas leak near pipeline connection from FSRU to subsea pipeline.	There is no subsea pipeline. Automatic Gas Detectors will be installed near pipeline connection from FSRU (High Pressure Natural Gas Unloading Arm and valves) at Jetty with the provision of Emergency Shutdown System.
3 (v)	Thick greenbelt shall be developed in the periphery of the on land facility	No action is required from H-Energy
3 (vi)	No open discharge of sewage or oily waste shall be done in marine water. All liquid containing oil shall pass into the sea only via oil separation system. The FSRU shall be equipped with centrifugal type bilge oil/water separator that reduce oil in the discharge to 10 ppm. Sewage generated will be treated in the STP.	The sewage, bilge oily water etc. shall be collected. The bilge oily water will be disposed off through registered recycler with JPL. The domestic sewage will be treated in JPL sewage treatment plant. Nothing will be discharged into sea by the FSRU.
3 (vii)	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Shall be complied with. H-Energy Disaster Management Plan (DMP) will be aligned with that of JSWJPL ERP
4	All the other conditions contained in the Environmental and CRZ Clearance Letter No. 11-17/2006-IA.III dated 19 <sup>th</sup> December, 2013 (and transferred thereafter on 3 <sup>rd</sup> March, 2015) remains the same.	Compliance status – refer II

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5	As per the Ministry's Office Memorandum F.No.22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. As per para 6(II) of the said O.M. appropriate funds shall be earmarked for the activities such as infrastructure creation for drinking water supply, sanitation, health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	Shall be complied with.
6	This issues with approval of Competent Authority	Noted.
<b>I. Compliance status of CRZ-2017/CR-147/TC-4 dated 03.10.2017</b>		
<b><u>Specific Conditions:</u></b>		
i. Proposed activity should be in accordance with provisions of CRZ notification, 2011 (amended from time to time)		Being complied with.
ii. Environment Management Plan should be implemented effectively during construction and operation phase of the project.		Being complied with.
iii. PP to ensure that best industrial practices are followed for fire safety measures and for conservation of coastal environment.		Being complied with.
iv. PP to ensure oil spill contingency plan is formulated and implemented.		Available with JSWJPL.
v. PP to ensure environmentally friendly techniques for the dredging work. No blasting should be done for the dredging area.		Being complied with.



	<p>vi. All other necessary permissions from different competent authorities shall be taken before commencement of the proposed activities.</p>	<p>Complied with.  <b>a.</b> Consent to Establish from Maharashtra Pollution Control Board has been obtained vide. Consent Order No.:- Format 1.0/BO/CAC-Cell/Amendment-000000011/CAC-180600001,dt: 05.06.2018  <b>b.</b> Consent to Establish from Petroleum and Safety Explosives Organization has been obtained vide Letters: P2(4)965, dt. 07.02.17, P2(4)967, dt. 06.06.17, P2(4)966, dt. 06.06.17.</p>
	<p><b>General Conditions:</b></p> <p>i. The MCZMA or any other competent authority, concern planning authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with</p> <p>ii. The environmental safeguard measures should be implemented in letter and spirit.</p> <p>iii. This recommendation will be valid for 5 years</p>	<p>Noted (No additional condition)</p> <p>Shall be complied with.</p> <p>Noted.</p>
<p><b>II. Compliance status of Environmental and CRZ Clearance Letter No. 11-17/2006-IA.III dated 19<sup>th</sup> December, 2013</b></p>		
	<p><b>Specific Conditions:</b></p> <p>i. "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.</p> <p>ii. Alignment of railway line/ connectivity has not been finalized, project proponent should, therefore, seek CRZ clearance in case alignment/ connectivity passes through CRZ area.</p> <p>iii. Proponent informed that site is rocky cliff hence, there are no shore line changes.</p> <p>iv. Controlled cutter suction dredging shall be used along with the enclosure to contain the turbidity.</p> <p>v. The port shall ensure that the ship under operation follows the MARPOL convention regarding discharge or spillage of any toxic, hazardous or polluting material like ballast water, oily water or sludge, sewage, garbage etc. The emission of NO<sub>x</sub> and SO<sub>x</sub> shall remain within permissible limits.</p>	<p>Complied with.  Consent to Establish from Maharashtra Pollution Control Board has been obtained vide. Consent Order No.:- Format 1.0/BO/CAC-Cell/Amendment-000000011/CAC-180600001,dt: 05.06.2018</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>The FSRU/LNGC discharge shall be MARPOL complied NO<sub>x</sub> and SO<sub>2</sub> emission shall be complied with</p>

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vi. The dredged material shall be analyzed for presence of Heavy Metal (HM) and after confirmation of the absence of HM, it can be used for filling.	Not applicable
vii. The storm water management shall be put in place before the commencement of the activities. Storm management report with technical details shall be submitted to RO of MoEF within six months.	Not applicable.
viii. Requisite clearances including clearance from Petroleum and Explosives Safety Organization (PESO) formerly Explosives department, Nagpur shall be obtained for establishing tank farms. All relevant provisions of MSIHC Rules, 1989 shall be complied.	Not applicable
ix. The dry cargo shall be unloaded in to hopper and from hopper it will be taken through closed conveyor system to the storage yards.	Not applicable
x. Mitigation plan for handling the dusty cargo/ around storage yards as per presentation may be stipulated.	Not applicable
xi. The smooth and safe operation of the system shall be ensured by incorporating a computerized SCADA (Supervisory Control and Data Automation) system. Any leakage in the pipeline shall be immediately detected by the computer system and product pumping shall be immediately cut off.	Shall be complied with. SCADA system will be provided with leak detection system
xii. Oil Contingency Management Plan shall be put in place.	As per JSW JPL Oil contingency plan.
xiii. The responses/ commitments made during public hearing shall be carried out as committed.	Not applicable
xiv. CSR activities shall cover the villages within 10 km radius. CSR for fishermen shall be carried out as committed.	Not applicable
xv. All the recommendation of the EIA/EMP & Risk Assessment and Disaster Management report shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO	Shall be complied with
xvi. The green belt of not less than 33% shall be provided all around the periphery and storage yards.	No action is required from H-Energy.
xvii. Installation and operation of DG set if any shall comply with the guidelines of CPCB.	Shall be complied with

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xviii. The approach channel shall be properly demarcated with lighted buoys for safe navigation and adequate traffic control guidelines shall be framed. The fishermen shall be suitably educated and informed about the traffic guidelines.	Not applicable.
xix. There shall be no ground water withdrawal within CRZ area.	There is no ground water withdrawal for the proposed facility of H-Energy
xx. No mangroves or other ecological important areas shall be destroyed.	Shall be complied with
xxi. Sewage shall be treated and the Treatment facility shall be provided in accordance with the Coastal Regulation Zone Notification, 2011. The disposal of treated water shall confirm the regulation of State Pollution Control Board.	The sewage will be treated at the STP of JSW JPL.
xxii. Solid Waste Management shall be as per Municipal Solid (Management and Handling) rules, 2000	Shall be complied with
xxiii. The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity, It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Not applicable
xxiv. No construction work other than those permitted in Coastal regulation Zone Notification shall be carried out in Coastal Regulation Zone Area.	Shall be complied with
xxv. The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Shall be complied with
xxvi. The funds earmarked for environmental management plan shall be included in the budget and this shall not be diverted for any other purposes.	Shall be complied with
<b><u>General Conditions:</u></b>	
i. Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Shall be complied with.
ii. Full support shall be extended to the officers of this Ministry/ regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Shall be complied with

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<p>iii. A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.</p>	<p>Shall be complied with</p>
<p>iv. Ministry of Environment &amp; Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.</p>	<p>Noted</p>
<p>v. The ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.</p>	<p>Noted</p>
<p>vi. In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment &amp; Forests.</p>	<p>Noted</p>
<p>vii. The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval by the concerned authorities and the date of start of land development work.</p>	<p><b>a.</b> Date of financial Closure 30.12.17.  <b>b.</b> Consent to Establish from Maharashtra Pollution Control Board has been obtained vide. Consent Order No.:- Format 1.0/BO/CAC-Cell/Amendment-0000000011/CAC-1806000001,dt: 05.06.2018  <b>c.</b> Consent to Establish from Petroleum and Safety Explosives Organization has been obtained vide Letters: P2(4)965, dt. 07.02.17, P2(4)967, dt. 06.06.17, P2(4)966, dt. 06.06.17.  <b>d.</b> Start of Land Development Work: Not applicable</p>
<p>viii. A copy of the clearance letter shall be marked to concerned Panchayat/ Local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.</p>	<p>Not applicable</p>
<p>ix. Maharashtra Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/ Tehsildar's office for 30 days.</p>	<p>Complied with</p>
<p>8. These stipulators would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1991, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.</p>	<p>Provisions of the act will be complied with</p>

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<p>9. All other statutory clearances such as approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.</p>	<p>a. Consent to Establish from Maharashtra Pollution Control Board has been obtained vide. Consent Order No.:- Format 1.0/BO/CAC-Cell/Amendment-0000000011/CAC-1806000001,dt: 05.06.2018 b. Consent to Establish from Petroleum and Safety Explosives Organization has been obtained vide Letters: P2(4)965, dt. 07.02.17, P2(4)967, dt. 06.06.17, P2(4)966, dt. 06.06.17.</p>
<p>10. The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the Maharashtra Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.</p>	<p>Compliance done by advertising in two local newspapers.</p>
<p>11. the clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.</p>	<p>Noted</p>
<p>12. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p>Noted</p>
<p>13. Status of compliance of the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.</p>	<p>Being complied with</p>
<p>14. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>The clearance letter has been uploaded on the company website.</p>

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<p>15. The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Shall be complied with</p>
<p>16. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated 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 the SPCB,</p>	<p>Monthly monitoring report (Annexure-I)</p>
<p>17. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-mail.</p>	<p>Shall be complied with</p>

**Ambient Air Monitoring Results for the month of August 2019**

LOCATION : NEAR OFFICE												
Date	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	Lead ( $\mu\text{g}/\text{m}^3$ )	Ozone ( $\mu\text{g}/\text{m}^3$ )	Ammonia ( $\mu\text{g}/\text{m}^3$ )	Benzene ( $\mu\text{g}/\text{m}^3$ )	Benzo Pyrene ( $\text{ng}/\text{m}^3$ )	Arsenic ( $\text{ng}/\text{m}^3$ )	Nickel ( $\text{ng}/\text{m}^3$ )
*N.A.A.Q.S.	100.0	60.0	80.0	80.0	2.0 for 8 Hrs.	1.0	100.0 for 8 Hrs.	400.0	5.0	1.0	6.0	20.0
20.08.19	52.2	23.3	5.3	8.7	0.65	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
21.08.19	57.5	26.7	4.5	8.4	0.45	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
26.08.19	55.7	25.1	5.1	8.6	0.69	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
27.08.19	59.8	25.9	5.9	7.9	0.82	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
<b>Min.</b>	<b>52.2</b>	<b>23.3</b>	<b>4.5</b>	<b>7.9</b>	<b>0.45</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Max.</b>	<b>59.8</b>	<b>26.7</b>	<b>5.9</b>	<b>8.7</b>	<b>0.82</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Avg.</b>	<b>56.3</b>	<b>25.3</b>	<b>5.2</b>	<b>8.4</b>	<b>0.65</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>

LOCATION : JETTY AREA												
Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	Lead (µg/m <sup>3</sup> )	Ozone (µg/m <sup>3</sup> )	Ammonia (µg/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	Benzo Pyrene (ng/m <sup>3</sup> )	Arsenic (ng/m <sup>3</sup> )	Nickel (ng/m <sup>3</sup> )
*N.A.A.Q.S	<b>100.0</b>	<b>60.0</b>	<b>80.0</b>	<b>80.0</b>	<b>2.0 for 8 Hrs.</b>	<b>1.0</b>	<b>100.0 for 8 Hrs.</b>	<b>400.0</b>	<b>5.0</b>	<b>1.0</b>	<b>6.0</b>	<b>20.0</b>
20.08.19	52.9	25.3	4.2	8.1	0.72	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
21.08.19	59.5	27.9	5.4	7.9	0.85	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
26.08.19	57.2	29.1	5.9	8.5	0.65	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
27.08.19	48.8	20.4	4.6	8.3	0.59	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
<b>Min.</b>	<b>48.8</b>	<b>20.4</b>	<b>4.2</b>	<b>7.9</b>	<b>0.59</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Max.</b>	<b>59.5</b>	<b>29.1</b>	<b>5.9</b>	<b>8.5</b>	<b>0.85</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Avg.</b>	<b>54.6</b>	<b>25.7</b>	<b>5.0</b>	<b>8.2</b>	<b>0.70</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>

**Noise Monitoring Results for the month of August 2019**

	<b>NOISE LEVEL dB (A)</b>			
	<b>CONTROL ROOM</b>	<b>TLF AREA</b>	<b>FABRICATION AREA</b>	<b>JETTY AREA</b>
Date of Sampling	20/08/2019	20/08/2019	20/08/2019	20/08/2019
Max. Value	58.9	68.3	61.6	57.2
Min. value	49.7	53.9	53.7	52.9
$L_d$	57.1	64.8	58.4	55.8
$L_n$	53.7	55.8	55.3	54.1
$L_{dn}$	60.8	65.2	62.3	60.8

## Ambient Air Monitoring Results for the month of September 2019

<b>LOCATION : NEAR OFFICE</b>												
Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	Lead (µg/m <sup>3</sup> )	Ozone (µg/m <sup>3</sup> )	Ammonia (µg/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	Benzo Pyrene (ng/m <sup>3</sup> )	Arsenic (ng/m <sup>3</sup> )	Nickel (ng/m <sup>3</sup> )
<b>*N.A.A.Q.S</b>	<b>100.0</b>	<b>60.0</b>	<b>80.0</b>	<b>80.0</b>	<b>2.0 for 8 Hrs.</b>	<b>1.0</b>	<b>100.0 for 8 Hrs.</b>	<b>400.0</b>	<b>5.0</b>	<b>1.0</b>	<b>6.0</b>	<b>20.0</b>
04.09.19	58.4	25.1	5.2	8.1	0.69	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
05.09.19	60.6	27.5	6.0	8.6	0.44	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
09.09.19	59.2	29.8	4.9	8.4	0.65	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
10.09.19	57.6	26.6	5.3	7.6	0.88	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
16.09.19	54.3	29.3	6.1	7.9	0.72	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
17.09.19	55.3	27.5	5.4	8.2	0.89	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
23.09.19	59.1	25.9	6.3	8.8	0.81	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
24.09.19	57.8	28.3	5.9	8.3	0.62	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
<b>Min.</b>	<b>54.3</b>	<b>25.1</b>	<b>4.9</b>	<b>7.6</b>	<b>0.44</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Max.</b>	<b>60.6</b>	<b>29.8</b>	<b>6.3</b>	<b>8.8</b>	<b>0.89</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Avg.</b>	<b>57.8</b>	<b>27.5</b>	<b>5.6</b>	<b>8.2</b>	<b>0.71</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>

LOCATION : JETTY AREA												
Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	Lead (µg/m <sup>3</sup> )	Ozone (µg/m <sup>3</sup> )	Ammonia (µg/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	Benzo Pyrene (ng/m <sup>3</sup> )	Arsenic (ng/m <sup>3</sup> )	Nickel (ng/m <sup>3</sup> )
<b>*N.A.A.Q.S</b>	<b>100.0</b>	<b>60.0</b>	<b>80.0</b>	<b>80.0</b>	<b>2.0 for 8 Hrs.</b>	<b>1.0</b>	<b>100.0 for 8 Hrs.</b>	<b>400.0</b>	<b>5.0</b>	<b>1.0</b>	<b>6.0</b>	<b>20.0</b>
04.09.19	55.1	25.9	4.8	8.7	0.71	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
05.09.19	53.7	30.1	5.3	7.5	0.87	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
09.09.19	50.2	28.5	5.7	8.1	0.54	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
10.09.19	47.9	26.6	6.1	8.8	0.74	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
16.09.19	57.2	32.1	5.2	10.1	0.66	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
17.09.19	52.9	29.5	4.9	8.9	0.87	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
23.09.19	51.8	24.8	5.5	8.3	0.73	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
24.09.19	55.9	26.2	4.8	8.5	0.83	< 0.01	< 20.0	< 14.0	< 0.14	< 1.0	< 0.7	< 6.0
<b>Min.</b>	<b>47.9</b>	<b>24.8</b>	<b>4.8</b>	<b>7.5</b>	<b>0.54</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Max.</b>	<b>57.2</b>	<b>32.1</b>	<b>6.1</b>	<b>10.1</b>	<b>0.87</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>
<b>Avg.</b>	<b>53.1</b>	<b>28.0</b>	<b>5.3</b>	<b>8.6</b>	<b>0.74</b>	<b>&lt; 0.01</b>	<b>&lt; 20.0</b>	<b>&lt; 14.0</b>	<b>&lt; 0.14</b>	<b>&lt; 1.0</b>	<b>&lt; 0.7</b>	<b>&lt; 6.0</b>

**Noise Monitoring Results for the month of September 2019**

	<b>NOISE LEVEL dB (A)</b>			
	<b>CONTROL ROOM</b>	<b>TLF AREA</b>	<b>FABRICATION AREA</b>	<b>JETTY AREA</b>
Date of Sampling	09/09/2019	09/09/2019	09/09/2019	09/09/2019
Max. Value	59.7	69.2	59.8	58.9
Min. value	49.9	50.9	50.7	50.9
$L_d$	57.0	64.7	57.1	56.3
$L_n$	54.1	53.9	54.2	53.3
$L_{dn}$	61.1	64.4	61.1	60.3