

Date:29/11/2023

To,  
The Regional Officer  
Ministry of Environment Forest and climate change,  
Integrated Regional office Gandhi Nagar, A-Wing-407&409  
Aranya bhavan, Near CH-3 circle, Sector 10A  
Gandhinagar-382010 Gujrat  
Email: [iro.gandhingr-mefcc@gov.in](mailto:iro.gandhingr-mefcc@gov.in)

**Subject: Six monthly Environmental clearance Compliance report for Reliance Industries Limited Silvassa manufacturing division at Notified Industrial Zone, Sy. No. 342, Village Kharadpada, PO-Naroli, UT of Dadra and Nagar Haveli, for the period April '2023 – September'2023.**

**Reference: F. No. J-11011/429/2010-IA-II (I) and Environment Clearance granted vide letter dated 08/06/2011**

**Dear Sir,**

With reference to the above Environment Clearance granted to the site, please find attached Six monthly EC compliance report for the period **April '2023 – September'2023** with Annexure I to VII.

This is for your information and record.

Thanking you,

Yours truly,

**For, RELIANCE INDUSTRIES. LTD. - Silvassa Mfg. Division**



**Authorized signatory**

**Encl.: As above**

c/c

- 1) DD & DNHPCC
- 2) CPCB

**Six Monthly Compliance Report**

**on**

**Environment Clearance**

(Dated 08.06.2011)

**For Term**

**(April 2023 – September 2023)**

**Submitted by:**

**Reliance Industries Limited**

**(Silvassa Manufacturing Division)**

**Survey. No. 342, Village – Kharadpada,**

**P.O – Naroli: – 396 235,**

**Silvassa**

**U.T of Dadra & Nagar Haveli**



**RELIANCE INDUSTRIES LTD.**

**SILVASSA MANUFACTURING DIVISON**

**Compliance Status of Environmental Clearance of Silvassa Manufacturing Division – Specific / General Conditions for the period April 2023 – September 2023.**

**Ref: Ministry's Letter No. - J-11011/429/2010-IA-II (I) dated 8<sup>th</sup> June 2011**

| Sr No                        | EC Condition   | Compliance Status  |
|------------------------------|--|--|
| <b>A. SPECIFIC CONDITION</b> |  |  |
| i                            | Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.   | We agree to comply with the requirements of the final order.   |
| ii                           | Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.  | The condition is not applicable to us as the SMD is away from the notified ESZ of Dadra & Nagar Haveli Wildlife Sanctuary.<br>The same is confirmed by the Deputy Conservator of Forest (WL) vide the letter no. 7-2/476-FD/WL/2016/357 dated 18.03.2016   |
| iii                          | Building design shall be based on green building concept   | The Green building design concepts are applicable for residential/office complexes. After this EC is obtained in 2011, no such residential/office building are constructed at the RIL, Silvassa site. Only industrial plants have been set up. However, use of hollow blocks, insulated roof and side sheeting, air locks for A/c areas, LED light fittings, translucent sheeting etc. are implemented as green design concept. Rooftop rainwater harvesting (5,000 m <sup>2</sup> area) and solar power (3.55 MW) have also been established at site. |
| iv                           | Adequate stack height shall be provided to natural gas based CCHPP (50 MW i.e. 8.3 MW x 6 nos.) and natural gas / (LSHS) fired HTM heaters (2x4 nos.) to control the air emissions within the limit stipulated by CPCB and DD & DNH Pollution Control Committee (DD & DNHPCC). | The CCHPP has not been implemented.<br>Natural gas / LSHS fired HTM heaters (4. Nos) have been provided stack height of 60 meters, in compliance with CPCB guideline.<br>Stack height, $H = 14(Q)^{0.3}$<br>Where Q= SO <sub>2</sub> Emission in Kg/hr<br>Sulphur content in fuel (LSHS)=0.5%<br>Fuel feed rate= 1160 Kg/hr<br>SO <sub>2</sub> emission rate=11.61 Kg/hr<br>Stack height $H=14(11.61)^{0.3}=29.2$ meters   |
|                              | Low NOx burner shall be provided in Captive Co-generation Power Plant to reduce the NOx emissions.   | The CCHPP project has not been implemented.  |
| v                            | The gaseous emissions (SO <sub>2</sub> , NOx, CO and HC) and particulate matter from HTM and proposed CCHPP units shall conform to the norms prescribed by the CPCB / DD & DNHPCC from time to time.   | The CCHPP project has not been implemented.<br>Stack emissions from the four (4) HTM heaters are being monitored on regular basis. The emissions from the HTM heaters conform to the prescribed norms.<br>Stack Monitoring report are attached <b>Annexure I</b>   |

|   | At no time, the emission levels shall go beyond the prescribed standards.   | The emissions have not exceeded the prescribed limits at any time before and during the reporting period of April 2023 to September 2023  |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
|---|---|---|------------|-------------------|-----|------|---------------------------------------|-----|----|----|--|----|----|----|--------------------------------------|----|----|----|--------------------------------------|----|----|----|--|-----|-----|--|--------------------------------|-----|-----|--|--|---|-----|--|---|-----|-----|--|---|---|-----|--|-------------------------------------|---|-----|--|-----------------------------------|---|-----|--|----------------------------------|----|-----|--|
|   | 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. | Pollution control systems are regularly monitored. Preventive maintenance of all plants is carried out as per schedule so as to prevent break down of any equipment and to ensure that the equipment continue to operate at desired efficiency.<br>Stack emissions are monitored regularly through a MoEF approved laboratory, and the results are submitted to Ministry/PCC.   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| vi  | The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.  | <p>Ambient air quality monitoring is being carried out at 3 locations inside the plant, as per the CCA condition/NAAQS, 2009. Summary of the AAQ results is presented below.</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>Limits prescribed</th> <th>Min</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>PM<sub>10</sub> (µg/m<sup>3</sup>)</td> <td>100</td> <td>33</td> <td>59</td> </tr> <tr> <td>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</td> <td>60</td> <td>33</td> <td>47</td> </tr> <tr> <td>SO<sub>2</sub> (µg/m<sup>3</sup>)</td> <td>80</td> <td>19</td> <td>24</td> </tr> <tr> <td>NO<sub>2</sub> (µg/m<sup>3</sup>)</td> <td>80</td> <td>22</td> <td>28</td> </tr> <tr> <td>Ozone (O<sub>3</sub>) (µg/m<sup>3</sup>)</td> <td>100</td> <td colspan="2">BDL</td> </tr> <tr> <td>Lead (Pb) (µg/m<sup>3</sup>)</td> <td>1.0</td> <td colspan="2">BDL</td> </tr> <tr> <td>Carbon Monoxide (CO), (mg/m<sup>3</sup>)</td> <td>2</td> <td colspan="2">BDL</td> </tr> <tr> <td>Ammonia (NH<sub>3</sub>) (µg/m<sup>3</sup>)</td> <td>400</td> <td colspan="2">BDL</td> </tr> <tr> <td>Benzene (C<sub>6</sub>H<sub>6</sub>) (µg/m<sup>3</sup>)</td> <td>5</td> <td colspan="2">BDL</td> </tr> <tr> <td>Benzo-a-pyrene (ng/m<sup>3</sup>)</td> <td>1</td> <td colspan="2">BDL</td> </tr> <tr> <td>Arsenic (As) (ng/m<sup>3</sup>)</td> <td>6</td> <td colspan="2">BDL</td> </tr> <tr> <td>Nickel (Ni) (ng/m<sup>3</sup>)</td> <td>20</td> <td colspan="2">BDL</td> </tr> </tbody> </table> <p>The summary of monitoring results of each location is attached as <b>Annexure-II.</b></p> | Parameters | Limits prescribed | Min | Max. | PM <sub>10</sub> (µg/m <sup>3</sup> ) | 100 | 33 | 59 | PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 60 | 33 | 47 | SO <sub>2</sub> (µg/m <sup>3</sup> ) | 80 | 19 | 24 | NO <sub>2</sub> (µg/m <sup>3</sup> ) | 80 | 22 | 28 | Ozone (O <sub>3</sub> ) (µg/m <sup>3</sup> ) | 100 | BDL |  | Lead (Pb) (µg/m <sup>3</sup> ) | 1.0 | BDL |  | Carbon Monoxide (CO), (mg/m <sup>3</sup> ) | 2 | BDL |  | Ammonia (NH <sub>3</sub> ) (µg/m <sup>3</sup> ) | 400 | BDL |  | Benzene (C <sub>6</sub> H <sub>6</sub> ) (µg/m <sup>3</sup> ) | 5 | BDL |  | Benzo-a-pyrene (ng/m <sup>3</sup> ) | 1 | BDL |  | Arsenic (As) (ng/m <sup>3</sup> ) | 6 | BDL |  | Nickel (Ni) (ng/m <sup>3</sup> ) | 20 | BDL |  |
| Parameters  | Limits prescribed   | Min   | Max.       |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| PM <sub>10</sub> (µg/m <sup>3</sup> )                         | 100   | 33  | 59         |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> )                        | 60  | 33  | 47         |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| SO <sub>2</sub> (µg/m <sup>3</sup> )                          | 80  | 19  | 24         |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| NO <sub>2</sub> (µg/m <sup>3</sup> )                          | 80  | 22  | 28         |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Ozone (O <sub>3</sub> ) (µg/m <sup>3</sup> )                  | 100   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Lead (Pb) (µg/m <sup>3</sup> )                                | 1.0   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Carbon Monoxide (CO), (mg/m <sup>3</sup> )                    | 2   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Ammonia (NH <sub>3</sub> ) (µg/m <sup>3</sup> )               | 400   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Benzene (C <sub>6</sub> H <sub>6</sub> ) (µg/m <sup>3</sup> ) | 5   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Benzo-a-pyrene (ng/m <sup>3</sup> )                           | 1   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Arsenic (As) (ng/m <sup>3</sup> )                             | 6   | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |
| Nickel (Ni) (ng/m <sup>3</sup> )                              | 20  | BDL   |            |                   |     |      |                                       |     |    |    |  |    |    |    |                                      |    |    |    |                                      |    |    |    |  |     |     |  |                                |     |     |  |  |   |     |  |   |     |     |  |   |   |     |  |                                     |   |     |  |                                   |   |     |  |                                  |    |     |  |

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| vii  | <p>In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Adequate dust suppression systems with water spray shall be provided for storage yard, junction houses. Raw material loading and unloading area shall 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 shall conform to the limits stipulated by the DD &amp; DNHPCC.</p>                 | <p>Fugitive emissions in the plant are controlled at the generation stage itself by providing closed material handling systems.<br/> Because of closed systems, water spray systems at storage yard, junction houses, have not been installed.<br/> Raw material loading/unloading system is also carried out in a closed system hence water spray system has not been installed.<br/> To control fugitive dust emission Internal roads are concretized/asphalted and additionally road sweeping machines are used regularly,<br/> <br/> Landscaping and plantations within our premises also help control fugitive emission.<br/> <br/> Monitoring for work zone environment is carried out regularly and records are maintained.</p> |
| viii | <p>For further control of fugitive emissions, following steps shall be followed<br/> Closed handling system shall be provided for chemicals<br/> Reflux condenser shall be provided over reactor<br/> System of leak detection and repair of pump/pipeline based on preventive maintenance.<br/> The acids shall be taken from storage tanks to reactors through closed pipeline and the Storage tanks shall be vented through trap receiver and condenser operated on chilled water.<br/> Cathodic protection shall be provided to the underground solvent storage tanks.</p> | <p>The requirements are compiled with as per details below:<br/> 1. Closed handling system is provided for material handling and transfer.<br/> 2. Reflux condenser is provided over the reactors in the CP plant.<br/> 3. Leak detection and repair of pumps carried out as routine part of operation<br/> 4. Acid transfer is carried out through pipeline,<br/> 5. No underground storage tank is provided at the site.</p>   |
| ix   | <p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards.</p>   | <p>The gaseous emission is dispersed through adequate stack height and DG sets are run only during emergencies.</p>  |
|      | <p>Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p>  | <p>Complied.</p>   |
| x    | <p>The company shall upload the status of compliance of the stipulated environmental clearance conditions, including 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 the DD &amp; DNHPCC.</p>   | <p>The six-monthly compliance reports are regularly submitted to the Regional Office of MoEF, the respective Zonal Office of CPCB and DD &amp; DNHPCC.<br/> EC Compliance Report uploaded in RIL website <a href="https://www.ril.com/Sustainability/HealthSafety.aspx">https://www.ril.com/Sustainability/HealthSafety.aspx</a></p>   |

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|      | The levels of PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO, HC and VOCs in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.  | The ambient air quality is monitored as per NAAQ standard and the monitoring results including PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO, HC are displayed near the main gate of the Company.  |
| xi   | Total freshwater requirement from canal water shall not exceed 9,100 m <sup>3</sup> /day after expansion and prior permission shall be obtained from concerned authority/agency. A copy of permission shall be submitted to the Ministry's Regional Office at Bhopal.  | Complied   |
|      | No ground water shall be used.   | Ground water is not used at the site.  |
| xii  | Industrial and domestic effluent generation shall not exceed 3,390 m <sup>3</sup> /day and 310 m <sup>3</sup> /day respectively.   | The average wastewater Industrial and domestic effluent generated in the plant, together, approx. 1421 m <sup>3</sup> /day.  |
|      | As proposed, effluent from esterification reaction shall be treated in a stripper and off gas shall be burnt in HTM heater as fuel or same shall be diverted to an up flow anaerobic sludge blanket (UASB) system for decomposition and the generated biogas shall be burnt in HTM heater as fuel.   | The effluent generated from the esterification process is treated in the stripper and the off gas is used as fuel in HTM heaters<br>Since the COD of wastewater left after stripping is not high (less than 500 mg/l) UASB treatment is not considered. Wastewater is treated through aerobic system in the ETP.   |
|      | The treated stream from esterification reaction/process and effluent from utilities & toilet blocks shall be treated in an effluent treatment plant (ETP) and treated wastewater shall be recycled/reused for cooling tower make up. The DM plant regeneration and cooling tower blow down shall be treated through reverse osmosis plant. | The effluents from process plants, utilities and sewage are treated in the Effluent Treatment Plant. The treated effluent is reused for cooling tower make-up..RO and MEE plant have been provided for treatment of cooling tower & boiler blow down & DM plant effluent.<br>Additionally, provisions like sluice gates & concrete wall have been made to prevent discharge from storm water drains during non-monsoon season. |
| xiii | No effluent shall be discharged outside the factory premises and 'zero' discharge concept shall be adopted.  | Entire quantity of trade effluent and sewage generated are treated in the ETP and recycle as cooling tower make up & other uses No effluent is discharged outside the factory premises and zero discharge is maintained.   |
| xiv  | 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. The testing reports shall be submitted to the CPCB and Ministry's Regional Office at Bhopal  | Treated Effluent Tank of Capacity 1526 M <sup>3</sup> has been provided and treated effluent quality is monitored by collecting sample from storage tank.—Effluents monitoring results summary are attached as <b>Annexure-III.</b>  |

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| xv    | Sludge composition shall be tested for hazardous waste characteristics and disposed it accordingly.  | ETP Sludge composition is analyzed by TSDF laboratory and accordingly it is disposed to TSDF facility   |
| xvi   | During transfer of materials, spillages shall be avoided and garland drains shall be constructed to avoid mixing of accidental spillages with domestic water and storm water drains.   | Spillage is prevented during transfer of materials by providing closed material handling systems. Adequate and separate drainage system for process effluent, sewage and storm water are provided in the premises and therefore mixing of effluent with storm water are prevented   |
| xvii  | The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 as amended time to time for management of hazardous wastes and prior permission from DD & DNHPCC shall be obtained for disposal of solid/hazardous waste in the TSDF. | SMD has been granted 'Authorization' by PCC, DD&DNH under 'Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016' for generation, collection, storage and transport/recycling/reprocessing/disposal of hazardous waste<br>SMD is a member of the Green gene Enviro Protection and Infrastructure Private Limited (GEPIL), Silvassa (TSDF Facility) Hazardous Waste like ETP sludge & oily rags are sent to TSDF, whereas waste like used oil are disposed to registered recyclers. |
| xviii | 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.   | Provisions of MSIHC Rules, 1989, as amended from time to time, are complied with. Emergency Response Plan is in place and mock-drills are held regularly. Transportation of hazardous chemicals are done as per provisions of the Motor Vehicles Act, 1989  |
| xix   | The company shall undertake the following waste minimization measures: -   | The condition is compiled for operational plant.  |
|       | a) Metering and control of quantities of active ingredients to minimize waste.   | a) Metering arrangement is provided for monitoring the active ingredients used in the process plants and available in control room.   |
|       | b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.   | b) MEG is recycled to process on continuous basis with online purification  |
|       | c) Use of automated filling to minimize spillage.  | c) Not applicable as the products are solids  |
|       | d) Use of Close Feed system into batch reactors.   | d) Processes are designed with "Closed feed" system in reactors.  |
|       | e) Venting equipment through vapour recovery system,   | e) Not applicable   |
|       | f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.  | f) Ours being continuous process, equipment cleaning is required only during shut down and there is no regular cleaning of equipment.   |

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| xx    | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the OISD 117 norms.   | <p>The OISD 117 norms are applicable for oil and gas industry. As the RIL, Silvassa facility is a polyester complex, the company has made all required arrangements for protection against the fire hazards during manufacturing operations and material handling for the process plants and utilities.</p> <p>This is as per the prevailing rules &amp; regulations.</p> <p>Following protection measures are incorporated in the manufacturing process to safeguard against possible fire hazard:</p> <ol style="list-style-type: none"> <li>1. Earthing is ensured in all tanks and pipelines, electrical motors, panels &amp; cable trays and pipeline flanges.</li> <li>2. Lightening arresters at the top of the building above height of 20 meters.</li> <li>3. Earthing clamps for tanker unloading for static charge discharges.</li> <li>4. Rubber/Epoxy mats provided in front of electric panels.</li> <li>5. Flames arresters are provided at vent of vessels as required.</li> <li>6. In process vessels appropriate safety valves are installed and their functioning is regularly checked by safety checks &amp; calibrations.</li> <li>7. Pressure sensor, temperature sensors, level control sensors are provided in all the process vessels &amp; reactors.</li> <li>8. Work permit system is followed &amp; Risk Assessment is ensured.</li> </ol> |
| xxi   | All the mitigations measures suggested in the risk assessment analysis shall be implemented.   | <p>Detailed Risk Assessment of the facilities at site was carried out during EIA studies and the recommendation were included in the design of the plants itself. Some of the major risk mitigation measures implemented at site include:</p> <ul style="list-style-type: none"> <li>• Design of civil foundation of storage tanks are done based on the earthquake zone classification of the region</li> <li>• Outlet valves and NRVs provided at pump outlets</li> <li>• FLP type and mechanical seal type pumps provided for flammable chemicals</li> <li>• Double earthing provided to all electrical motors</li> <li>• Implementation of work permit system</li> <li>• Adequate firefighting and fire protection systems are provided</li> <li>• Onsite emergency plan prepared and implemented</li> </ul>   |
| xxii  | Occupation health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.   | <p>A well-equipped Occupational Health Center is established at SMD that caters to the regular and incidental health care needs of all the employees. The OHC is equipped with facilities like Xray machine, audiometry testing, eye testing ECG machine and ambulances. The OHC is manned by experienced doctors and paramedical staff round the clock.</p> <p>Regular health checkup for surveillance of occupational diseases of all the employees and workers is carried out and records maintained as per the Factories Act.</p>  |
| xxiii | The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water. During rainy season, water reservoir shall be used for water collection and use the same water for the process activities of the project to conserve fresh water. | The total area covered at SMD for rooftop rainwater water harvesting is 5,000 m <sup>2</sup> .   |



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| xxiv  | Details of existing land use of the plot to be purchased for the green belt development shall be submitted to the Ministry and its Regional Office within 3 months.  | Additional land of 1,09,313 m <sup>2</sup> . has been purchased for green belt development.   |
| xxv   | Green belt shall be developed in 33% of the total land 4,96,587 m <sup>2</sup> in consultation with local DFO as per CPCB guidelines. This 33% green belt shall not include compensatory afforestation. Thick green belt around factory premises shall be ensured.   | Being complied  |
| xxvi  | Dedicated parking facility for loading and unloading of material shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.   | Dedicated parking facility covering an area of 9500 square meters have been provided at site for material loading and unloading activities.<br>Good traffic management system has been implemented for the incoming and outgoing vehicles. Measures implemented include provision of separate entry/exit for material transport, dedicated security personnel for diverting and guiding the trucks through proper route, prevention of parking along-side the internal roads and provision of signages for directing the traffic flow. For all the transporting vehicles, compliance with provisions of Motor Vehicles Act and PUC requirement are ensured. |
| 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. | Labour camps with necessary infrastructure were provided during construction phase.   |

#### **B. GENERAL CONDITIONS**

|    |   |   |
|----|---|---|
| i  | The project authorities shall strictly adhere to the stipulations made by the DD & DNHPCC,  | The stipulations made by the DD & DNHPCC are strictly adhered to. Compliance of consent conditions. |
| 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. | Noted & will be complied with.  |

|     |  |   |
|-----|--|---|
| iii | The locations of ambient air quality monitoring stations shall be decided in consultation with DD & DNH-PCC 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. | Three (3) ambient air quality monitoring stations have been provided in the site. Location of the monitoring stations has been decided in consultation with PCC. Out of the 3 monitoring stations provided at the site, one station is placed in upwind direction, one in down wind direction and the third one in cross wind direction as per predominant wind directions. |
| 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.   | Necessary noise control measures for the operational plants have been implemented by providing acoustic enclosures, silencers, mufflers and closed buildings for high noise generating equipment.<br>100% PPE compliance is ensured in high noise areas   |
|     | The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz 75dBA (daytime) and 70 dB (A) (nighttime).   | Ambient noise level is monitored every month, during day and nighttime by MoEF& CC approved laboratory, and the monitoring summary for the period April 23-September -23 is attached as <b>Annexure-IV</b>  |
| v   | Training shall be imparted to all employees on safety and health aspects of chemicals handling.  | Regular training is imparted to the 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.   | Pre-employment and regular health checkups for all employees are carried out and records maintained as per Factories Act. Audiometry test for employees working in high noise areas is also included in the regular health checkup.   |
| vi  | Usage of Personnel Protection Equipment (PPEs) by all employees/workers shall be ensured.  | Use of PPE's for all employees / workers is mandatory. The following PPEs are provided to the employees/workers as per requirement:<br>a. Safety Helmet<br>b. Safety Shoes<br>c. Hand gloves (cotton, leather, rubber)<br>d. Safety Goggles<br>e. Dust Mask<br>f. Full body harness<br>g. Face shield with helmet<br>Safety officers regularly monitor the usage of PPE's.  |

| vii  | <p>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.</p> | <p>For the operational plants, the recommendations made in the EIA/EMP were included in the design and implemented accordingly. Main recommendations made in the EMP and the management plan are tabulated below:</p> <table border="1" data-bbox="628 315 1460 1155"> <thead> <tr> <th data-bbox="628 315 1075 360">Recommendation</th> <th data-bbox="1075 315 1460 360">Management plan</th> </tr> </thead> <tbody> <tr> <td data-bbox="628 360 1075 495"> <ul style="list-style-type: none"> <li>Adequate stack height to be provided for better dispersion of pollutants</li> </ul> </td> <td data-bbox="1075 360 1460 495">           60 M stack Height is provided for better dispersion of pollutant.         </td> </tr> <tr> <td data-bbox="628 495 1075 629"> <ul style="list-style-type: none"> <li>Optimum air-fuel ratio to be maintained in the HTM heaters</li> </ul> </td> <td data-bbox="1075 495 1460 629">           Optimum air-fuel ratio maintained by exercising operation control and following SOPs.         </td> </tr> <tr> <td data-bbox="628 629 1075 741"> <ul style="list-style-type: none"> <li>Provision of ETP to achieve Zero Liquid Discharge facility</li> </ul> </td> <td data-bbox="1075 629 1460 741">           Provision of ETP to achieve Zero Liquid Discharge included in design.         </td> </tr> <tr> <td data-bbox="628 741 1075 853"> <ul style="list-style-type: none"> <li>Acoustic enclosures for high noise equipment</li> </ul> </td> <td data-bbox="1075 741 1460 853">           Acoustic enclosures provided for high noise equipment.         </td> </tr> <tr> <td data-bbox="628 853 1075 965"> <ul style="list-style-type: none"> <li>Closed material handling system to avoid fugitive dust generation</li> </ul> </td> <td data-bbox="1075 853 1460 965">           Closed material handling system is provided to avoid fugitive dust generation.         </td> </tr> <tr> <td data-bbox="628 965 1075 1155"> <ul style="list-style-type: none"> <li>Hazardous waste segregation and disposal as per the HW Management Rules</li> </ul> </td> <td data-bbox="1075 965 1460 1155">           SMD has obtained 'Authorization' from PCC and Hazardous waste are accordingly segregated and disposed as per the HW Management Rules 2016         </td> </tr> </tbody> </table> | Recommendation | Management plan | <ul style="list-style-type: none"> <li>Adequate stack height to be provided for better dispersion of pollutants</li> </ul> | 60 M stack Height is provided for better dispersion of pollutant. | <ul style="list-style-type: none"> <li>Optimum air-fuel ratio to be maintained in the HTM heaters</li> </ul> | Optimum air-fuel ratio maintained by exercising operation control and following SOPs. | <ul style="list-style-type: none"> <li>Provision of ETP to achieve Zero Liquid Discharge facility</li> </ul> | Provision of ETP to achieve Zero Liquid Discharge included in design. | <ul style="list-style-type: none"> <li>Acoustic enclosures for high noise equipment</li> </ul> | Acoustic enclosures provided for high noise equipment. | <ul style="list-style-type: none"> <li>Closed material handling system to avoid fugitive dust generation</li> </ul> | Closed material handling system is provided to avoid fugitive dust generation. | <ul style="list-style-type: none"> <li>Hazardous waste segregation and disposal as per the HW Management Rules</li> </ul> | SMD has obtained 'Authorization' from PCC and Hazardous waste are accordingly segregated and disposed as per the HW Management Rules 2016 |
|--|---|--|----------------|-----------------|--|---|--|---|--|---|--|--|---|--|---|---|
| Recommendation   | Management plan   |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Adequate stack height to be provided for better dispersion of pollutants</li> </ul> | 60 M stack Height is provided for better dispersion of pollutant.   |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Optimum air-fuel ratio to be maintained in the HTM heaters</li> </ul>               | Optimum air-fuel ratio maintained by exercising operation control and following SOPs.   |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Provision of ETP to achieve Zero Liquid Discharge facility</li> </ul>               | Provision of ETP to achieve Zero Liquid Discharge included in design.   |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Acoustic enclosures for high noise equipment</li> </ul>                             | Acoustic enclosures provided for high noise equipment.  |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Closed material handling system to avoid fugitive dust generation</li> </ul>        | Closed material handling system is provided to avoid fugitive dust generation.  |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| <ul style="list-style-type: none"> <li>Hazardous waste segregation and disposal as per the HW Management Rules</li> </ul>  | SMD has obtained 'Authorization' from PCC and Hazardous waste are accordingly segregated and disposed as per the HW Management Rules 2016   |  |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |
| viii   | <p>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.</p>  | <p>CSR activities carried out in local area are as follows</p> <ul style="list-style-type: none"> <li>Various health awareness program that include</li> <li>Bone Density Camp</li> <li>Students Health Checkup at Valia ghola &amp; Blind school</li> <li>Skin Checkup Camp in village</li> <li>Pulse Polio Program</li> <li>Blood Donation Camp</li> </ul> <p>Projects in coordination with Reliance Foundation for District Administration initiatives:</p> <ul style="list-style-type: none"> <li>Distribution of 25,000 ration kits during lockdown period due to COVID-19 pandemic.</li> <li>Renovation of 26 Anganwadis (NandGhar) in Dadra Nagar Haveli</li> <li>Financial support to NIFD and other institutes for procurement of educational equipment</li> <li>Assistance for 'Kuposhan Mukh Bharat' program in the UT</li> </ul>   |                |                 |  |   |  |   |  |   |  |  |   |  |   |   |

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| ix  | <p>The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p>   | <p>SMD has carried out various CSR activities for upliftment of social status of neighbouring communities.</p> <p>Regular medical camps are arranged in neighbouring villages to benefit the needy people.</p> <p>During special environmental campaigns, saplings are gifted to participating employees and workers to encourage plantation activities.</p>  |
| x   | <p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.</p>   | <p>A dedicated Environmental Management Cell is established at the plant wherein Environment Manager is appointed who reports to the site head. The Environment Manager is responsible for Site's overall Environmental Management, Environmental Monitoring, and other environment improvement activities. The organogram for HSEF management is shown as below.</p> <div data-bbox="624 645 1414 1016" data-label="Diagram"> <pre> graph TD     SP[Site President] --- SOR[S &amp;OR Head]     SP --- HR[Head- HR]     SOR --- MS[Manager Safety (S&amp;OR)]     SOR --- ME[Manager Environment (S&amp;OR)]     SOR --- MF[Manager Fire (S&amp;OR)]     HR --- MO[Medical Officer] </pre> </div> <p>A MoEF &amp; CC recognized laboratory - M/s Precitech Laboratories Pvt. Ltd., Vapi, is engaged by the site for carrying out the routine monitoring of environmental parameters.</p> |
| xi  | <p>Company shall lay down Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26<sup>th</sup> April, 2011. A copy of such Corporate Environment Policy shall be posted on the website of the company and a copy shall also be submitted to the Ministry and respective regional office of MoEF.</p>   | <p>RIL has a Corporate Environment Policy, which is available on the company's website. A copy of the policy has already been submitted vide our six-monthly compliance letter no. RIL/Proj-2010/MoEF/043 dated 01.12.2011. the same is attached herewith as <b>Annexure V</b>.</p>   |
| xii | <p>As proposed, the company shall earmark Rs. 70.00 Crores and Rs. 71.00 Lakhs toward capital cost and recurring cost/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.</p> | <p>The company has spent around Rs 70 Crores in establishing the pollution control systems at site. The operating expense for Environment Management system is around Rs 50 lakhs per annum. The detailed breakup is attached as <b>Annexure VI</b>.</p> <p>Funds allocated for implementation of environmental management / pollution control measures are not diverted for any other purposes.</p>  |

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| xiii | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parisad / Municipal Corporation, Urban Local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal.  | Copy of the EC letter has been provided to the nearby Panchayat.   |
| xiv  | 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 the DD & DNHPCC. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.  | The six-monthly compliance report is being submitted to the Regional Office of MoEF by email. Copies were sent to the Zonal Office of CPCB and PCC, DD & DNH   |
| xv   | The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board / Committee 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 Office of the Ministry.  | The Environment Statement for year is being submitted to PCC. The copy of the Form V with the EC compliance report shall be uploaded in the company website.   |
| xvi  | 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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. | General public has been informed about the Environment clearance through advertisement in local newspapers. Photocopies of the same have already been submitted vide our half yearly EC compliance Report submission letter no. RIL/Proj-2010/MoEF/043 dated 01.12.2011. The copy is attached as <b>Annexure-VII</b> |

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| xvii | 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.   | The project has been completed and implemented. "Consent to Establish "for the project was granted by PCC on 14/10/2010. The project was completed in the year 2015-16 and the first "Consent to Operate" was obtained on 24/08/2015. |
| 8.0  | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.  | Noted.  |
| 9.0  | The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.  | Noted.  |
| 10.0 | The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989/2003/2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules. | Noted.  |

## Annexure-I

| HTM-I   |                    |                    |                       |        |        |        |        |        |        |  |  |
|---------|--------------------|--------------------|-----------------------|--------|--------|--------|--------|--------|--------|--|--|
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150                   | 46     | 48     | 46     | 48     | 46     | 48     |  |  |
| 2       | Sox                | mg/Nm <sup>3</sup> | 40                    | 36     | 34     | 35     | 36     | 33     | 31     |  |  |
| 3       | Nox                | mg/Nm <sup>3</sup> | 25                    | 22     | 20     | 19     | 17     | 18     | 20     |  |  |
| 4       | CO                 | %                  | 1                     | 0.018  | 0.019  | 0.017  | 0.018  | 0.019  | 0.015  |  |  |
| 5       | HC                 | ppm                | Not specified         | 13     | 11     | 13     | 14     | 12     | 13     |  |  |
| HTM-II  |                    |                    |                       |        |        |        |        |        |        |  |  |
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150                   | 47     | 49     | 48     | 45     | 47     | 45     |  |  |
| 2       | Sox                | mg/Nm <sup>3</sup> | 40                    | 34     | 37     | 36     | 34     | 36     | 34     |  |  |
| 3       | Nox                | mg/Nm <sup>3</sup> | 25                    | 19     | 17     | 19     | 18     | 19     | 18     |  |  |
| 4       | CO                 | %                  | 1                     | 0.017  | 0.018  | 0.017  | 0.018  | 0.017  | 0.018  |  |  |
| 5       | HC                 | ppm                | Not specified         | 12     | 14     | 12     | 13     | 14     | 11     |  |  |
| HTM-III |                    |                    |                       |        |        |        |        |        |        |  |  |
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150                   | 48     | 46     | 44     | 42     | 45     | 42     |  |  |
| 2       | Sox                | mg/Nm <sup>3</sup> | 40                    | 35     | 37     | 34     | 35     | 33     | 32     |  |  |
| 3       | Nox                | mg/Nm <sup>3</sup> | 25                    | 21     | 23     | 21     | 20     | 18     | 17     |  |  |
| 4       | CO                 | %                  | 1                     | 0.019  | 0.017  | 0.019  | 0.017  | 0.019  | 0.02   |  |  |
| 5       | HC                 | ppm                | Not specified         | 14     | 12     | 14     | 12     | 13     | 15     |  |  |
| HTM-IV  |                    |                    |                       |        |        |        |        |        |        |  |  |
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150*                  | 44     | 47     | 49     | 46     | 44     | 46     |  |  |
| 2       | Sox                | mg/Nm <sup>3</sup> | 40                    | 36     | 38     | 36     | 34     | 32     | 33     |  |  |
| 3       | Nox                | mg/Nm <sup>3</sup> | 25                    | 20     | 22     | 21     | 19     | 17     | 19     |  |  |
| 4       | CO                 | %                  | 1                     | 0.016  | 0.019  | 0.016  | 0.017  | 0.016  | 0.012  |  |  |
| 5       | HC                 | ppm                | Not specified         | 11     | 13     | 12     | 13     | 14     | 12     |  |  |
| BOILER  |                    |                    |                       |        |        |        |        |        |        |  |  |
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150                   | 47     | 44     | 46     | 47     | 49     | 47     |  |  |
| 2       | Sox                | PPM                | 100                   | 35     | 33     | 35     | 33     | 36     | 34     |  |  |
| 3       | Nox                | PPM                | 50                    | 20     | 21     | 22     | 20     | 21     | 20     |  |  |
| BOILER  |                    |                    |                       |        |        |        |        |        |        |  |  |
| Sr. No. | Test Parameter     | Unit               | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1       | Particulate Matter | mg/Nm <sup>3</sup> | 150                   | 49     | 47     | 48     | 45     | 47     | 45     |  |  |
| 2       | Sox                | ppm                | 100                   | 37     | 35     | 37     | 34     | 33     | 31     |  |  |
| 3       | Nox                | ppm                | 50                    | 18     | 17     | 21     | 18     | 19     | 17     |  |  |

## Annexure-II

| Ambient Air Monitoring Results for the period from April -23 to September -23 |  |                   |                |                    |               |                |                      |
|---|--|-------------------|----------------|--------------------|---------------|----------------|----------------------|
| Period-April -2023  |  |                   |                |                    |               |                |                      |
| Sr. No.   | Test Parameter                           | Unit              | admin Building | Nr. Solar Building | Nr. Raw Water | Min. Detection | Specificati on Limit |
| 1   | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 56             | 59                 | 58            | -              | 100                  |
| 2   | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 40             | 37                 | 37            | -              | 60                   |
| 3   | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 22             | 24                 | 22            | -              | 80                   |
| 4   | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 27             | 28                 | 28            | -              | 80                   |
| 5   | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL            | BDL                | BDL           | <50            | 180                  |
| 6   | Lead (Pb)                                | µg/m <sup>3</sup> | BDL            | BDL                | BDL           | <0.5           | 1                    |
| 7   | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL            | BDL                | BDL           | <01            | 4                    |
| 8   | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL            | BDL                | BDL           | <20            | 400                  |
| 9   | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL            | BDL                | BDL           | <4             | 5                    |
| 10  | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL            | BDL                | BDL           | <1             | 1                    |
| 11  | Arsenic (As)                             | ng/m <sup>3</sup> | BDL            | BDL                | BDL           | <5             | 6                    |
| 12  | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL            | BDL                | BDL           | <1.5           | 20                   |

| Period-May 2023 |  |                   |                                |                    |                    |                      |                      |
|-----------------|--|-------------------|--------------------------------|--------------------|--------------------|----------------------|----------------------|
| Sr. No.         | Test Parameter                           | Unit              | admin Building (Nr. Main Gate) | Nr. Solar Building | Nr. Raw Water Tank | Min. Detection Limit | Specificati on Limit |
| 1               | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 58                             | 56                 | 50                 | -                    | 100                  |
| 2               | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 47                             | 45                 | 39                 | -                    | 60                   |
| 3               | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 24                             | 22                 | 19                 | -                    | 80                   |
| 4               | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 27                             | 28                 | 22                 | -                    | 80                   |
| 5               | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <50                  | 180                  |
| 6               | Lead (Pb)                                | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <0.5                 | 1                    |
| 7               | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <01                  | 4                    |
| 8               | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <20                  | 400                  |
| 9               | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <4                   | 5                    |
| 10              | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1                   | 1                    |
| 11              | Arsenic (As)                             | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <5                   | 6                    |
| 12              | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1.5                 | 20                   |

| Period-June -2023 |  |                   |                                |                    |                    |                      |                      |
|-------------------|--|-------------------|--------------------------------|--------------------|--------------------|----------------------|----------------------|
| Sr. No.           | Test Parameter                           | Unit              | admin Building (Nr. Main Gate) | Nr. Solar Building | Nr. Raw Water Tank | Min. Detection Limit | Specificati on Limit |
| 1                 | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 53                             | 57                 | 57                 | -                    | 100                  |
| 2                 | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 42                             | 34                 | 35                 | -                    | 60                   |
| 3                 | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 20                             | 21                 | 19                 | -                    | 80                   |
| 4                 | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 24                             | 24                 | 22                 | -                    | 80                   |
| 5                 | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <50                  | 180                  |
| 6                 | Lead (Pb)                                | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <0.5                 | 1                    |
| 7                 | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <01                  | 4                    |
| 8                 | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <20                  | 400                  |
| 9                 | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <4                   | 5                    |
| 10                | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1                   | 1                    |
| 11                | Arsenic (As)                             | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <5                   | 6                    |
| 12                | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1.5                 | 20                   |

| Period-July -2023 |  |  |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|--|
|-------------------|--|--|--|--|--|--|--|



| Sr. No. | Test Parameter                           | Unit              | admin Building (Nr. Main Gate) | Nr. Solar Building | Nr. Raw Water Tank | Min. Detection Limit | Specificati on Limit |
|---------|--|-------------------|--------------------------------|--------------------|--------------------|----------------------|----------------------|
| 1       | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 43                             | 44                 | 56                 | -                    | 100                  |
| 2       | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 38                             | 34                 | 35                 | -                    | 60                   |
| 3       | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 20                             | 21                 | 19                 | -                    | 80                   |
| 4       | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 23                             | 24                 | 23                 | -                    | 80                   |
| 5       | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <50                  | 180                  |
| 6       | Lead (Pb)                                | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <0.5                 | 1                    |
| 7       | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <01                  | 4                    |
| 8       | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <20                  | 400                  |
| 9       | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <4                   | 5                    |
| 10      | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1                   | 1                    |
| 11      | Arsenic (As)                             | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <5                   | 6                    |
| 12      | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1.5                 | 20                   |

**Period-August -2023**

| Sr. No. | Test Parameter                           | Unit              | admin Building (Nr. Main Gate) | Nr. Solar Building | Nr. Raw Water Tank | Min. Detection Limit | Specificati on Limit |
|---------|--|-------------------|--------------------------------|--------------------|--------------------|----------------------|----------------------|
| 1       | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 40                             | 57                 | 43                 | -                    | 100                  |
| 2       | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 33                             | 34                 | 36                 | -                    | 60                   |
| 3       | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 21                             | 21                 | 20                 | -                    | 80                   |
| 4       | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 25                             | 24                 | 24                 | -                    | 80                   |
| 5       | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <50                  | 180                  |
| 6       | Lead (Pb)                                | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <0.5                 | 1                    |
| 7       | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <01                  | 4                    |
| 8       | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <20                  | 400                  |
| 9       | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <4                   | 5                    |
| 10      | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1                   | 1                    |
| 11      | Arsenic (As)                             | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <5                   | 6                    |
| 12      | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1.5                 | 20                   |

**Period-September -2023**

| Sr. No. | Test Parameter                           | Unit              | Admin Building (Nr. Main Gate) | Nr. Solar Building | Nr. Raw Water Tank | Min. Detection Limit | Specificati on Limit |
|---------|--|-------------------|--------------------------------|--------------------|--------------------|----------------------|----------------------|
| 1       | PM <sub>10</sub> (µg/m <sup>3</sup> )    | µg/m <sup>3</sup> | 35                             | 33                 | 40                 | -                    | 100                  |
| 2       | PM <sub>2.5</sub> (µg/m <sup>3</sup> )   | µg/m <sup>3</sup> | 35                             | 34                 | 35                 | -                    | 60                   |
| 3       | SO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 21                             | 22                 | 21                 | -                    | 80                   |
| 4       | NO <sub>2</sub> (µg/m <sup>3</sup> )     | µg/m <sup>3</sup> | 27                             | 26                 | 27                 | -                    | 80                   |
| 5       | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <50                  | 180                  |
| 6       | Lead (Pb)                                | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <0.5                 | 1                    |
| 7       | Carbon Monoxide (CO)                     | mg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <01                  | 4                    |
| 8       | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <20                  | 400                  |
| 9       | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | BDL                            | BDL                | BDL                | <4                   | 5                    |
| 10      | Benzo (α) Pyrene (BaP)                   | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1                   | 1                    |
| 11      | Arsenic (As)                             | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <5                   | 6                    |
| 12      | Nickel (Ni)                              | ng/m <sup>3</sup> | BDL                            | BDL                | BDL                | <1.5                 | 20                   |

## Annexure-III

## Treated Effluent Analysis Results for the period from April'23 to Sep'23

## Period: April-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.46    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 4       | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 473     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 25      | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 7       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 2       | APHA   | 10                           |

## Period: May-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.45    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 6       | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 289     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 29      | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 6       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 1       | APHA   | 10                           |

## Period: June-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.42    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 7       | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 315     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 24      | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 5       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 1       | APHA   | 10                           |

## Period: July-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.34    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 5       | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 297     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 33      | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 6       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 1       | APHA   | 10                           |

## Period: August-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.38    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 5       | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 329     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 16      | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 5       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 1       | APHA   | 10                           |

## Period: September-2023

| Sr. No. | Test Parameters            | Unit | Results | Method | Specification/ Limits by PCC |
|---------|----------------------------|------|---------|--------|------------------------------|
| 1       | pH                         | --   | 7.49    | APHA   | 5.5-9.0                      |
| 2       | Suspennded Solids          | mg/L | 10      | APHA   | 100                          |
| 3       | Total Dissolved Solids     | mg/L | 199     | APHA   | NS                           |
| 4       | Chemical Oxygen Demand     | mg/L | 8       | APHA   | 250                          |
| 5       | Bio-Chemical Oxygen Demand | mg/L | 5       | APHA   | 100                          |
| 6       | Oil & Grease               | mg/L | 1       | APHA   | 10                           |

NS-Not Specified

| Annexure-IV                        |                                      |        |                       |        |        |        |        |        |        |  |  |
|------------------------------------|--------------------------------------|--------|-----------------------|--------|--------|--------|--------|--------|--------|--|--|
| Ambient Noise Monitoring(Day Time) |                                      |        |                       |        |        |        |        |        |        |  |  |
| Sr. No.                            | Parameter                            | Unit   | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1                                  | Nr. Main Gate                        | db (A) | 75                    | 54.1   | 53.5   | 54.1   | 53.5   | 52.6   | 53.4   |  |  |
| 2                                  | Nr. Gate No. 2                       | db (A) | 75                    | 55.3   | 54.5   | 55.3   | 54.1   | 53.4   | 54.8   |  |  |
| 3                                  | Nr. Compressor House                 | db (A) | 75                    | 57.1   | 56.9   | 57.2   | 55.9   | 54.1   | 52.6   |  |  |
| 4                                  | Behind Tank Farm (Nr. Boundary Wall) | db (A) | 75                    | 53.9   | 52.7   | 53.6   | 51.8   | 50.9   | 51.9   |  |  |

| Ambient Noise Monitoring(Night Time) |                                      |        |                       |        |        |        |        |        |        |  |  |
|--------------------------------------|--------------------------------------|--------|-----------------------|--------|--------|--------|--------|--------|--------|--|--|
| Sr. No.                              | Parameter                            | Unit   | Specification/ Limits | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |  |  |
| 1                                    | Nr. Main Gate                        | db (A) | 70                    | 41.3   | 40.5   | 41.4   | 40.2   | 41.2   | 40.6   |  |  |
| 2                                    | Nr. Gate No. 2                       | db (A) | 70                    | 43.6   | 42.3   | 43.5   | 41.4   | 42.3   | 41.7   |  |  |
| 3                                    | Nr. Compressor House                 | db (A) | 70                    | 52.3   | 51.7   | 52.3   | 50.6   | 51.6   | 50.4   |  |  |
| 4                                    | Behind Tank Farm (Nr. Boundary Wall) | db (A) | 70                    | 41.8   | 41.2   | 42.2   | 41.3   | 40.3   | 42.2   |  |  |



## Environment Policy

Protection of environment is of prime concern and a core business value at Reliance Industries Limited (RIL). With a leading role in providing competitive goods and services in the materials and energy value chains and infrastructure, RIL is conscious of its responsibility towards the needs of the communities in which it operates by creating, maintaining and ensuring a safe and clean environment for sustainable development.

In particular, RIL is committed to:

- Comply with all applicable laws, regulations and conditions granted in environmental and forest clearances, as well as take any additional measures considered necessary to go beyond compliance.
- Implement an environmental compliance management process to capture deviations and report the violations observed by the authorities to the HSE committee of Directors.
- Follow an international environmental management system, governance process with clearly defined responsibilities in order to achieve continual improvement and communicate environmental performance to the stakeholders.
- Design new facilities and conduct operations with preventive approach and industry best practices to avoid adverse impacts to the human health and the environment.
- Conserve natural resources by their responsible and efficient use in all our operations.
- Take appropriate measures to prevent environmental incidences and maximize recycle to reduce wastes, discharges and emissions.
- Promote tree plantation, green surrounding and protection of biodiversity at our locations to be in harmony with nature.
- Ensure appropriate training and awareness on environmental systems, procedures, best practices and on shared responsibility towards environmental protection among employees, contractors, suppliers and customers.
- Communicate this policy to the stakeholders.

Mukesh D. Ambani

**Annexure - VI**

**Capital Cost**

| Sr. No | Particulars                  | Cost (Rs. in Crores) |
|--------|------------------------------|----------------------|
| 1      | Effluent Treatment Plant     | 40.00                |
| 2      | Air Pollution control device | 14.00                |
| 3      | Safety equipment & device    | 16.00                |
|        | <b>Total</b>                 | <b>70.00</b>         |

**Recurring Cost**

| Sr. No | Details                                      | Approx. cost per Annum (Rs. in Lakh) |
|--------|--|--------------------------------------|
|        |  | Existing                             |
| 1      | Environment Monitoring & Environment Audit   | 12.00                                |
| 2      | Safety & Occupational Health                 | 12.00                                |
| 3      | Green Belt Development                       | 2.00                                 |
| 4      | Maintenance of ETP and Air pollution control | 26.51                                |
|        | <b>TOTAL</b>                                 | <b>52.51</b>                         |

### વેજવાલસિદ્ધ

રૂબવાર, તા.૧૫-૦૬-૨૦૧૧

## જાહેર સુચના

વિષય:- જાણીતા રૂપે ઉ-પુમ નાજી  
 (પી.એ. માવજાત ૨૦૦૦ એમ.ટી.પી.એમ.)  
 ની પુત્રી સુચના સિદ્ધિ-વિવાહી પ્રાગટ્ય  
 એસ.પી.સી.એસ. (સી.ટી.એસ.પી.સી. ૧૦  
 ૧-૩૬૦૦ થી ૨૦૦૦૦ એમ.ટી.પી.એમ.)  
 વિસ્તરણ બેસ લેખક-કેપટીવ એ. જમશાન ટ્રોટ  
 એન્ડ પાવર પ્લાન્સ (સી.સી. એસ.પી.સી. ૫૦  
 એમ.કલકત્તા)

સીવાચાર્ય ઈન્ડ. લી. શર્મા મંજુર કરે  
 અરજીદારાદારા અને સગર હોટેલી, તમલો  
 પુલકે પ્રજાને જણાવે છે કે વન અને પર્યાવરણ  
 મંત્રાલય નવી દિલ્લી દ્વારા પર્યાવરણ મનુષ્યની  
 અભિની મંજુરી તા.૧૬ જૂન ૨૦૧૧ ના રોજ  
 ઉપરોક્ત મોજકેટ, પાટે ઈ.આઈ.એ.  
 અધિનિયમ ૧૪.૦૯.૨૦૦૬ અંતર્ગત  
 આપવામાં આવેલી છે. મંજુરી પત્રની કોપી  
 એસ.પી.સી.બી. /કમીટી અને મંત્રાલયની  
 વેબસાઇટ <http://envfornic.in> પર જોઈ  
 શકાશે.

**असली आवाजी (समण)**



**बुधवार 15 जून 2011**

**PUBLIC NOTICE**

Subject: Expansion of Partially Oriented Yarn (POY, 45000 MT/PM), Fully Drawn Yarn (FDY, 15000 MT/PM), Polyester Textured Yarn (PTY, 13300 MT/PM to 47000 MT/PM) alongwith Gas based Captive Co-generation Heat and Power Plant (CCHPP 50 MW).

RELIANCE INDUSTRIES LIMITED, SURVHY NO 342, KHARADPADA, U.T. OF DADRA & NAGAR HAVELI - 396 235, IS PLEASED TO INFORM THE PUBLIC THAT THE MINISTRY OF ENVIRONMENT AND FORESTS, NEW DELHI, VIDE ITS ORDER DATED 8<sup>TH</sup> JUNE 2011 HAS ACCORDED AN ENVIRONMENTAL CLEARANCE TO THE ABOVE PROJECT UNDER THE PROVISIONS OF THE EIA NOTIFICATION DATED SEPTEMBER 14, 2006. COPIES OF THE CLEARANCE LETTER ARE AVAILABLE WITH THE SPCB / COMMITTEE AND MAY ALSO BE SEEN AT WEBSITE OF THE MINISTRY AT <http://moef.nic.in>