

# SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARNACE FOR

GRASIM INDUSTIRES LIMITED, EXCEL FIBRE DIVISION  
BIRLAGRAM, NAGDA – 456 331  
DIST. UJJAIN (M.P.)



Submitted to:

Ministry of Environment Forest & Climate Change, (WR Office) Bhopal  
Ministry of Environment Forest & Climate Change, New Delhi  
Central Pollution Control Board, Zonal Office, Bhopal  
Madhya Pradesh Pollution Control Board - Bhopal

**Submitted by:**

**Grasim Industries Limited, Excel Fibre Division**

**Birlagram, Nagda – 456 331**

**District: Ujjain (M.P.)**

**Period: APRIL 2020 – SEPTEMBER 2020**

**Submitted on: 1 DECEMBER 2020**

## Contents

| <b>Sr. No.</b> | <b>Title</b>   | <b>Page No.</b> |
|----------------|--|-----------------|
| 1              | Introduction   | 1               |
| 2              | Compliance Status of Environment Clearance for Grasim Industries Limited, Excel Fibre Division, Birlagram, Nagda – 456 331 | 2-15            |

Compliance Status Report for "Environment Clearance" accorded by MoEF & CC for Grasim Industries Limited, Excel Fibre Division, Birlagram, Nagda – 456 331 (M.P.)

## List of Annexures

- Exhibit -1 Ambient Air Monitoring Results for Last Six Months
- Exhibit -2 Image of the shutters on Spinning Machine
- Exhibit -3 Images of Dykes constructed for chemical storage tanks
- Exhibit -4 Details of Fire Fighting Arrangement and List of the Fire Fighting Equipment
- Exhibit -5 Glimpse of plantation in the complex
- Exhibit -6 Image of the display board at Factory Gate showing environmental parameters for general public
- Exhibit -7 Implemented measures taken for environmental protection
- Exhibit -8 Details of Environment Cell
- Exhibit -9 Advertisement in local newspaper for environment clearance

## Introduction

1. Grasim Industries Limited (GIL), incorporated on 25th Aug., 1947; is a flagship company of the Aditya Birla Group and India's pioneer in manufacturing of Viscose Staple Fibre (VSF) a man-made, biodegradable fibre with characteristics akin to cotton.
2. M/s. Grasim Industries Ltd. has four VSF Plants in India which are located at Nagda (Madhya Pradesh), Harihar (Karnataka), Kharach & Vilayat (Gujarat).
3. Excel Fibre Division is based on third generation solvent spun cellulosic technology developed by Birla Research Institute Birlagram, Nagda.
4. Solvent Spun Cellulosic Technology does not required hazardous chemicals like Carbon Disulphide (CS<sub>2</sub>), Sulphuric Acid (H<sub>2</sub>SO<sub>4</sub>) and Sodium Hydroxide (NaOH) in Manufacturing Process.
5. Solvent used for dissolving pulp and regeneration of fibre is environment friendly and more than 99.68% solvent recovered and reuse in the process.
6. No source of gaseous emission in the Solvent Spun Cellulose manufacturing process and specific water consumption is very low as compare to conventional Viscose Staple Fibre Manufacturing Process.
7. All the operation related permits, including Environmental Clearance from MOEF & CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from M.P. Pollution Control Board, Bhopal are in place.
8. Environmental quality monitoring in & around the Plant site is being carried out by M.P. Pollution Control Board & in-house Laboratory on a regular basis.
9. 03 No. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) along with other Environmental Parameter from Grasim Complex displayed on LED Board at main gate of the Plant Premises.
10. Online Continuous Effluent Quality Monitoring System (CEQMS) is installed and connected with M.P. Pollution Control Board and CPCB, New Delhi.
11. A vast green belt is developed to curb the emission and also to improve environmental conditions in & around Grasim complex.
12. Point wise compliance status of Environmental Clearance for Grasim Industries Limited, Excel Fibre Division, Birlagram, Nagda is furnished herewith;

Compliance Status Report for "Environment Clearance" accorded by MoEF & CC for Grasim Industries Limited, Excel Fibre Division, Birlagram, Nagda – 456 331 (M.P.)

Environment Clearance  
(Grasim Industries Limited, Excel Fibre Division)

MOEF Ref. F. No. J11011/255/2011-IA (II) (I) dated 16.08.2012

Period: APRIL 2020 – SEPTEMBER 2020

**General Profile**

| Sr. No. | Stipulation  | Compliance Status   |                    |                           |  |  |          |                    |       |   |                               |      |      |       |   |
|---------|--|---|--------------------|---------------------------|--|--|----------|--------------------|-------|---|-------------------------------|------|------|-------|---|
| 1.0     | Kindly refer your letter dated 18 <sup>th</sup> April 2011 and 3 <sup>rd</sup> November 2011, along with project documents including Form-1, Terms of Reference, Pre-feasibility report and additional information submitted vide letter dated 4 <sup>th</sup> July 2011 and 13 <sup>th</sup> July 2011 regarding above mentioned project.   | Acknowledged  |                    |                           |  |  |          |                    |       |   |                               |      |      |       |   |
| 2232.0  | <p>The Ministry of Environment and Forest has examined the application. It is noted that proposal is for expansion of Solvent Spun Cellulosic Fibre (3650 TPA to 10950 TPA) at Plot No. 295, 317-319, 326, 340-342, village Mehatwas, Birlagram, Tehsil Nagda, District Ujjain, M.P. Total plot area for existing Staple Fibre Unit is 188.12 ha. Total plot area for of the existing Solvent Spun Cellulosic Fibre Unit (10 TPD) is 0.86 ha. Additional land requirement for proposed expansion is 0.92 ha within existing Viscose Staple Fibre (VSF) unit. No wild life sanctuary / reserve forest is located within 10 km. Total cost of the project is Rs. 78.00 Crores. Following product will be manufactured.</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr.</th> <th rowspan="2">Product</th> <th colspan="3">Production Capacity (TPA)</th> </tr> <tr> <th>Existing</th> <th>Proposed Expansion</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Solvent Spun Cellulosic Fibre</td> <td>3650</td> <td>7300</td> <td>10950</td> </tr> </tbody> </table> | Sr.   | Product            | Production Capacity (TPA) |  |  | Existing | Proposed Expansion | Total | 1 | Solvent Spun Cellulosic Fibre | 3650 | 7300 | 10950 | <p>No wild life sanctuary / reserve is located within 10 km of the Plant Site.</p> <p>Total Cost of the Project is: 83.30 Crores</p> <p>Total Production During Reporting Period (April -2020 – September- 2020) is Nil (Metric Tons. Plant was stopped due to COVID-19 precaution.</p> |
| Sr.     | Product  |   |                    | Production Capacity (TPA) |  |  |          |                    |       |   |                               |      |      |       |   |
|         |  | Existing  | Proposed Expansion | Total                     |  |  |          |                    |       |   |                               |      |      |       |   |
| 1       | Solvent Spun Cellulosic Fibre  | 3650  | 7300               | 10950                     |  |  |          |                    |       |   |                               |      |      |       |   |
| 3.0     | Utility requirement (i.e. water, power and steam) will be met from existing unit. Hazardous Chemical i.e. CS2 and H2SO4 will not be used in the process. Solvent   | Water and Power & Steam requirement is being met from existing facilities of Staple Fibre |                    |                           |  |  |          |                    |       |   |                               |      |      |       |   |

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
|         | <p>recovery will be 99.8%. Total water requirement from the dam of the Chambal River is 680 m<sup>3</sup>/day and no additional fresh water will be required for the expansion. Effluent generation will be 530 m<sup>3</sup>/day and treated in Effluent Treatment Plant (ETP) and reused in SFD auxiliary cooling towers in place of fresh water being used currently. The ETP sludge will be incinerated in the existing coal fired Boiler. Waste / spent oil will be sold to authorized recyclers.</p> | <p>Division and Captive Power Plants and no additional utility is setup for the expansion</p> <p>Total Effluent generated is 268 m<sup>3</sup>/day and effluent generated from expansion is being utilized in Auxiliary Cooling Towers as makeup in place of fresh water.</p> <p>Hazardous Chemical i.e. CS<sub>2</sub>, H<sub>2</sub>SO<sub>4</sub> is not being used in manufacturing process.</p> <p><b>Plant was stopped during the reporting period due to COVID-19 precaution therefore Solvent recovery was Nil.</b></p> <p>ETP Sludge is utilized in existing coal fired boilers.</p> |
| 4.0     | EIA / EMP report preparation and public hearing were exempted as per para 7 (ii) of EIA Notification, 2006.  | Acknowledged  |
| 5.0     | All the Man-made fibre manufacturing "Rayon" are listed as S.N. 5(d) under category 'A' and apprised at the Central level.   | Acknowledged  |
| 6.0     | The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 25 <sup>th</sup> , 28 <sup>th</sup> and 29 <sup>th</sup> meetings held during 28 <sup>th</sup> -30 <sup>th</sup> July 2011, 20 <sup>th</sup> – 21 <sup>st</sup> October 2011 and 17 <sup>th</sup> – 18 <sup>th</sup> November 2011 respectively. The committee recommended the proposal for environment clearance.   | Acknowledged  |
| 7.0     | Based on the information submitted by the project proponent, the Ministry of Environment and Forest hereby accords environment clearance to above project under the provisions of EIA Notification dated 14 <sup>th</sup> September 2006, subject to compliance of the following Specific and General Conditions.  | Acknowledged  |

## A. SPECIFIC CONDITIONS

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
| i)      | The grant of environmental clearance is only for pilot plant project based on clean technology. Whenever unit goes for commercial establishment / full scale plant, the unit shall obtain prior environmental clearance as applicable.   | We have successfully established the clean technology for 20 TPD capacity single Spinning Machine and receiving positive acceptance of the new product from the market.<br><br>We have submitted Proposal No : IA/MP/IND2/58856/2016 on 07.09.2016 to MoEF & CC for prior environmental clearance for expansion of existing Staple Fibre Division along with setup of 36500 TPA Solvent Spun Cellulosic Fibre Spinning Machine. Proposal has been accepted by MoEF & CC on 16.10.2016 and TOR Granted on 14.02.2017, Public Hearing for the same is conducted on 05.09.2019. Final Technical Presentation for EC has been done on 22.01.2020. EAC has recommended project for EC and final EC is granted on 29.05.2020. |
| ii)     | Utilities requirement (i.e Water, Power and Steam) shall be met from the existing unit, no additional utilities shall be installed.  | Water and Power & Steam requirement is being met from existing facilities of Staple Fibre Division and Captive Power Plants and no additional utility is setup for the expansion  |
| iii)    | The company shall not use CS <sub>2</sub> as a raw material in the proposed process activity.  | Solvent Spun Cellulosic Fibre Manufacturing does not require CS <sub>2</sub> in the process and we are not using the same.  |
| iv)     | Ambient Air quality data shall be collected as per NAAQES standards notified by the Ministry vide GSR No. 826(E) dated 16.09.2009. The levels of PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CS <sub>2</sub> , VOC and CO shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important | We have installed 03 (Three) Continuous Ambient Air Quality Monitoring System in consultation with M.P. Pollution Control Board and display of the same is being provided on LED  |

| Sr. No.               | Stipulation  | Compliance Status  |      |                                       |                                |              |     |   |                       |     |   |          |     |   |
|-----------------------|--|--|------|---------------------------------------|--------------------------------|--------------|-----|---|-----------------------|-----|---|----------|-----|---|
|                       | <p>public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF. The respective Zonal office of CPCB and M.P. Pollution Control Board.</p>  | <p>Display Board installed at Factory Gate for general public.</p> <p>We have also installed four Ambient Air Quality Monitoring Station in all four directions in consultation with CPCB &amp; MPPCB. We are regularly monitoring the ambient air quality and report is being sent regularly to CPCB, MPPCB and Regional Office of MOEF. Monitoring results are well below the prescribed standards. Report of the last six months is enclosed as <b>Exhibit-1</b>.</p>   |      |                                       |                                |              |     |   |                       |     |   |          |     |   |
| v)                    | <p>In plant control measures for checking fugitive emission from all the vulnerable sources shall be provided. Fugitive emission shall be controlled by providing closed storage, closed handling and conveyance of chemical / materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emission. Fugitive emission in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall conform to the limits stipulated by the MPPCB.</p> | <p>There is no source of gaseous fugitive emission from manufacturing process. During handling of chemicals, we have provided all the necessary arrangements to avoid fugitive emission. For your kind information there is no chemical being used to create fugitive emission. However, all precautionary measures have been taken for storage of chemicals i.e. Dyke, Pit and pump for recycling.</p> <p><b>For Fugitive Emission of dust, PM10 is monitored in our lab on monthly basis but plant was stopped during reporting period due to covid-19 precautions.</b></p> <table border="1" data-bbox="970 1688 1361 2018"> <thead> <tr> <th data-bbox="970 1688 1107 1798">Area</th> <th data-bbox="1107 1688 1243 1798">Std. <math>\mu\text{g}/\text{m}^3</math> (24hrs)</th> <th data-bbox="1243 1688 1361 1798">PM-10 <math>\mu\text{g}/\text{m}^3</math></th> </tr> </thead> <tbody> <tr> <td data-bbox="970 1798 1107 1868">Pulp Storage</td> <td data-bbox="1107 1798 1243 1868">100</td> <td data-bbox="1243 1798 1361 1868">-</td> </tr> <tr> <td data-bbox="970 1868 1107 1977">Chemical Storage Area</td> <td data-bbox="1107 1868 1243 1977">100</td> <td data-bbox="1243 1868 1361 1977">-</td> </tr> <tr> <td data-bbox="970 1977 1107 2018">Spinning</td> <td data-bbox="1107 1977 1243 2018">100</td> <td data-bbox="1243 1977 1361 2018">-</td> </tr> </tbody> </table> | Area | Std. $\mu\text{g}/\text{m}^3$ (24hrs) | PM-10 $\mu\text{g}/\text{m}^3$ | Pulp Storage | 100 | - | Chemical Storage Area | 100 | - | Spinning | 100 | - |
| Area                  | Std. $\mu\text{g}/\text{m}^3$ (24hrs)  | PM-10 $\mu\text{g}/\text{m}^3$   |      |                                       |                                |              |     |   |                       |     |   |          |     |   |
| Pulp Storage          | 100  | -  |      |                                       |                                |              |     |   |                       |     |   |          |     |   |
| Chemical Storage Area | 100  | -  |      |                                       |                                |              |     |   |                       |     |   |          |     |   |
| Spinning              | 100  | -  |      |                                       |                                |              |     |   |                       |     |   |          |     |   |



| Sr. No. | Stipulation  | Compliance Status   |     |   |
|---------|--|---|-----|---|
|         |  | Hall-1  |     |   |
|         |  | Spinning Hall-2   | 100 | - |
|         |  | Fibre Storage Area  | 100 | - |
| Nilvi)  | The spinning bath shall be covered and vapor shall be channelized and exhausted properly.  | Closed Shutter and proper exhaust system has been provided for water vapour, image of the shutters on Spinning Machine is enclosed as <b>Exhibit-2.</b>   |     |   |
| vii)    | Unit shall carry out the study to identify the composition of the vapor generated from spinning bath of the Solvent Spun Cellulosic Fibre.   | Study has been carried out by the NEERI and confirms that there is no solvent in the vapour.  |     |   |
| viii)   | <p>For further control of fugitive emissions, following steps shall be followed:</p> <p>a) Closed handling system shall be provided for chemicals.</p> <p>b) System of leak detection and repair of pump/pipeline based on preventive maintenance.</p> <p>c) The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</p> <p>d) Cathodic protection shall be provided to the underground solvent storage tanks.</p> | <p>a) All the chemicals are being handled through closed system and no manual handling of chemicals is involved in the process.</p> <p>b) Dykes have been constructed for chemical storage tanks as shown in <b>Exhibit-3.</b> Preventive Maintenance is being carried out as per the schedules.</p> <p>c) Acid is not required in the main process; however small quantity of Hydrochloric Acid is required for regeneration of resin for solvent purification. Storage tank of Hydrochloric Acid has been provided with a vent having trap receiver.</p> <p>d. There are no underground solvent storage tanks in the plant.</p> |     |   |

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
| ix)     | As proposed, solvent recovery shall be not less than 99.8%   | Plant was stopped during the reporting period due to COVID-19 precaution therefore Solvent recovery was Nil.  |
| x)      | The gaseous emission from DG Set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.   | Industry does not have any DG Set.  |
| xi)     | Total fresh water requirement from Chambal River shall not exceed 680 m <sup>3</sup> /day and prior permission shall be obtained from concerned authorities and a copy submitted to the Ministry's Regional Office at Bhopal. No ground water shall be used.   | Total fresh water consumption for reporting period is Nil m <sup>3</sup> /day from Chambal River as plant was stopped during the reporting period due to COVID-19 precautions.<br><br>No Ground water is being utilized in the plant.   |
| xii)    | Industrial effluent generated shall not exceed 530 m <sup>3</sup> /day. Effluent generated from solvent Spun Cellulosic Fibre shall be treated in separate dedicated ETP and used in SFD auxiliary cooling tower in place of fresh raw water being used currently. As proposed, SFD auxiliary cooling tower blow down shall be sent to existing ETP for further treatment. No process effluent shall be discharged in and around the project site. Water quality of treated effluent shall be monitored regularly and monitoring report shall be submitted to the MPPCB. | Total Effluent generated from Solvent Spun Cellulosic Fibre plant for the reporting period is 285 m <sup>3</sup> /day<br><br>Additional effluent generated from expanded facility is being utilized in SFD Cooling Tower.<br><br>For Treated effluent quality continuous effluent quality monitoring system (CEQMS) is installed at ETP and connected to MPPCB and CPCB.<br><br>We are also monitoring the treated effluent quality in laboratory and report is being sent regularly to MPPCB.<br><br>Effluent generated from the plant and blow down of SFD cooling towers is routed through ETP and no process effluent is being discharged in and around project site. |

| Sr. No. | Stipulation   | Compliance Status   |
|---------|---|---|
| xiii)   | No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be maintained.  | Effluent generated for expansion is routed through SFD Cooling tower and no effluent is being discharged from the Excel Fibre Division premises.  |
| xiv)    | The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Wastes (Management, Handling and Trans boundary) Rules, 2008 and amended as on date for management of Hazardous Waste and prior permission from MPPCB shall be obtained for disposal of Solid / Hazardous waste in the TSDF. | Hazardous Waste Authorization obtained from M.P. Pollution Control Board and has validity up to 22.01.2024. M.P. Pollution Board has issued Hazardous Waste Authorization vide consent No. AWH-49579, Outward No:88150, dated 18/02/2019  |
| xv)     | Proper dust control arrangement shall be provided in the existing Sodium Sulphate bagging area of the existing VSF Plant.   | Improved Dust control system consisting of sieve cover, conveyor belt cover, fresh air fan and proper exhaust has been provided in bagging area of existing VSF Plant.  |
| xvi)    | 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 the Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.  | We are using Hydrochloric Acid and Sodium Hydroxide, storage for which dyke, Pit, Pump for Recycling has been provided in case spillages take place. All the relevant provision of Motor Vehicle Act (MVA), 1989 is being strictly complied during the transportation of hazardous chemicals. |
| xvii)   | <p>The company shall undertake following waste minimization measures :-</p> <p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-product from the process as raw materials or as raw material substitutes in other</p>   | <p>a) Measurement of quantities is being done through controlled Programmable Logic Controller (PLC).</p> <p>b) Solvent Spun Cellulosic Process is having no by-products.</p>   |

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
|         | <p>process.</p> <p>c. Use of automated filling to minimize spillage.</p> <p>d. Use of Close Feed system into batch reactor</p> <p>e. Venting equipment through vapor recovery system</p> <p>f. Use of high pressure hoses for equipment clearing to reduce wastewater generation</p>   | <p>c) Plant is being operated through Programmable Logic Controller (PLC).</p> <p>d) We are having continuous process of manufacturing with closed feed system.</p> <p>e) There is no process vents in the plant.</p> <p>f) We are using of high pressure hoses for equipment cleaning.</p> |
| xviii   | The unit shall make the arrangement for protection of possible fire hazard during manufacturing process in material handling. Fire Fighting system shall be as per the norms.  | Fire Fighting system has been installed as per the norms. List of the Fire Fighting Equipment is enclosed as <b>Exhibit-4</b> .   |
| xix)    | All the workers shall be regularly monitored for occupational health for relevant parameters and records maintained.   | Regular health check-up of workers and management staff is being done and records are being maintained.   |
| xx)     | Green belt shall be developed in 33% of the total land. Green belt design shall be as per CPCB guidelines.   | Regular plantation activities have been done, About 60% of the Grasim Complex is having Green Belt and Green Cover. Glimpse of plantation in the complex and details of land use is enclosed in <b>Exhibit-5</b>  |
| xxi)    | Provision shall be made for the housing for the construction labor within the site with all the necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housekeeping may be in form of temporary structure to be removed after completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment. | Construction work has been completed. Construction activity was done in the existing premises and all the required facilities are in place.   |



## B. GENERAL CONDITIONS

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
| i)      | The project authority shall strictly adhere to the stipulations made by the M.P. Pollution Control Board.  | <p>Industry has obtained Consent to Establishment and Consent to Operate from M.P. Pollution Control Board and complying all stipulation made.</p> <p>MPPCB has issued consent to establish vide their letter No. 6229/TS/MPPCB/2012 dated 24.08.2012, and Consent to Operate under Air Act vide their letter No. AW-52254 dated 09.10.2020 and under the Water Act vide their letter No. AW-52254 dated 09.10.2020.</p>  |
| cii)    | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and forest. 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. | <p>No further expansion is planned during the reporting period in existing Excel Fibre Division. However, we have submitted Proposal No</p> <p>: IA/MP/IND2/58856/2016 on 07.09.2016 to MoEF &amp; CC for prior environmental clearance for expansion of existing Staple Fibre Division along with setup of 36500 TPA Solvent Spun Cellulosic Fibre Spinning Machine. Proposal has been accepted by MoEF &amp; CC on 16.10.2016 and TOR Granted on 14.02.2017, Public Hearing for the same is conducted on 05.09.2019. Final Technical Presentation for EC has been done on 22.01.2020. EAC has recommended project for EC and final EC has been granted on 29.05.2020.</p> |
| iii)    | The locations of ambient air quality monitoring station shall be decided in consultation with State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the   | We have installed 03 (Three) Continuous Ambient Air Quality Monitoring System in consultation with M.P. Pollution   |

| Sr. No.      | Stipulation   | Compliance Status  |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
|--------------|---|--|------|-----|-------|--------------|-----------|-----------|--------|----|----|-----------|----|----|-----------|----|----|------|----|----|
|              | upwind and downwind direction as well as where maximum ground level concentrations are anticipated.   | <p>Control Board and display of the same is being provided on LED Display Board installed at Factory Gate for general public. Image of the display board is enclosed as <b>Exbit-6</b></p> <p>We have also installed Ambient Air Quality Monitoring Station in all four directions in consultation with CPCB &amp; MPPCB. We are regularly monitoring the ambient air quality and report is being sent regularly to CPCB, MPPCB and Regional Office of MOEF. Monitoring results are well below the prescribed standards; report of the last six months is enclosed as <b>Exbit-1</b>.</p>  |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| iv)          | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform the standards prescribed under Environment (Protection) Act, 1986 Rules 1986 viz. 75dBA (day time) and 70dBA (night time). | <p>All the necessary noise control measures such as Acoustic Enclosure, Silencer, Vibration Pad, and Variable Frequency Drive have been adopted wherever required. Ambient Noise Level shall confirm the prescribed standards.</p> <p>Ambient Noise Level (dBA) is measured by our Laboratory and last six month average results are tabulated as under;</p> <table border="1" data-bbox="1007 1534 1332 1756"> <thead> <tr> <th>Area</th> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td><b>Norms</b></td> <td><b>75</b></td> <td><b>70</b></td> </tr> <tr> <td>School</td> <td>49</td> <td>40</td> </tr> <tr> <td>CD Colony</td> <td>54</td> <td>42</td> </tr> <tr> <td>Durgapura</td> <td>55</td> <td>45</td> </tr> <tr> <td>E&amp;DD</td> <td>52</td> <td>44</td> </tr> </tbody> </table> | Area | Day | Night | <b>Norms</b> | <b>75</b> | <b>70</b> | School | 49 | 40 | CD Colony | 54 | 42 | Durgapura | 55 | 45 | E&DD | 52 | 44 |
| Area         | Day   | Night  |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| <b>Norms</b> | <b>75</b>   | <b>70</b>  |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| School       | 49  | 40   |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| CD Colony    | 54  | 42   |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| Durgapura    | 55  | 45   |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| E&DD         | 52  | 44   |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| v.           | The company shall harvest rain water from roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.  | Rain Water Harvesting system has been installed.   |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |
| vi.          | Training shall be imparted to all employees on safety   | Training is being imparted to all  |      |     |       |              |           |           |        |    |    |           |    |    |           |    |    |      |    |    |

| Sr. No. | Stipulation  | Compliance Status   |
|---------|--|---|
|         | and health aspects of chemicals handling. Pre-employment and routine periodic medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.   | employees for Safety and health aspect for chemical handling.<br><br>Pre-employment and routine medical examination is carried out for all workman and management staff and records are being maintain.   |
| vii.    | Usages of Personal Protective Equipment (PPEs) by all employee / workers shall be ensured.   | PPE are provided to all employee and regular training being conducted for proper use of PPE. Helmet, Safety Goggles, Safety Boots provided to all employees and Earplug, face shield, Hand Gloves, Protective Clothing is provided to the all concerned employees.  |
| viii.   | The company shall also comply with all the environmental protection measures and safeguard proposed in the documents submitted to Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing related to the project shall be implemented. | All the measures proposed for environmental protection has been implemented. Details of the measures are enclosed as <b>Exhibit-7.</b>  |
| ix.     | The company shall undertake all relevant measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers and administration.   | CSR activities are our regular practice for improvement in socio-economic conditions of the surrounding area. Other than operating two hospitals and three senior secondary schools, various activities are being held in adjoining villages. Total beneficiaries of these activities in last year (FY 2019-20) are 3.97 Lacs with annual expense of Rs. 6.20 Crores. |
| x.      | The company shall undertake eco-developmental measures including community welfare measure in the project area for the overall improvement of the environment.   | All the necessary development measure is being under taken for overall improvement of environment shall be taken. Details are enclosed in <b>Exhibit-7</b>  |
| xi.     | A separate Environment Management Cell equipped with full fledged laboratory facilities shall be setup to  | A separate Environment Cell already exists with technically   |



| Sr. No. | Stipulation   | Compliance Status  |
|---------|---|--|
|         | carry out the Environmental Management and Monitoring functions.  | qualified personnel, who are under the control of Senior Executive. Organogram of Environment Cell is enclosed as <b>Exhibit-8</b>   |
| xii     | As proposed, company shall earmark sufficient funds towards capital cost and recurring cost respectively to implement the conditions stipulated by the Ministry of Environment and Forest 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.                                | Capital cost of Rs 4.5 crore had been earmarked for procuring Shutters on the spinning machine, variable frequency drives, PLC control system etc and same has been implemented. A provision of Rs 20 lacs per year has been made to maintain the above mentioned systems. This fund will is being used only for this purpose. |
| xiii    | A copy of the clearance letter shall be sent to the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban local body and the local NGO, if any from whom suggestion / representations, if any were received while processing the proposal.   | Copy of the clearance letter has been given to concern authority and also placed on company website for general public.  |
| xiv     | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment Clearance conditions including results of monitored data (both hard copies as well as by e-mail) to respective Regional Officer of MoEF, the respective Zonal Office of CPCB and M.P. Pollution Control Board. A copy of Environment Clearance and six monthly compliance status reports shall be posted on the website of the company.         | Last Six Monthly compliance report is submitted for period October-2019 – March 2020. A copy of the same is also posted on the company website.  |
| xv      | The environment 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 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 environment clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-mail. | We are regularly submitting Environment Statement before 30th September every year to the board.   |
| xvi     | The project proponent shall inform the public that  | Advertisement of Environment   |

| Sr. No. | Stipulation  | Compliance Status  |
|---------|--|--|
|         | the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of 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 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. | Clearance has been published in Hindi & English New Papers for information to general public and copy of the same is enclosed as <b>Exhibit-9</b> .  |
| 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.   | Financial Closure of the project is May 2013 same is informed to concerned authorities.  |
| 8.0     | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory   | Acknowledged & will abide  |
| 9.0     | The Ministry reserves the rights to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.   | Acknowledged   |
| 10.0    | The above conditions will be enforced, inter-alia under the provision of the Water (Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act-1986, Hazardous waste (Management & Handling) Rules-2003 and the Public Liability Insurance Act-1991 along with their amendments and rules.  | We are following terms & conditions MPPCB Consent under Air Act & Water Act and authorization under Hazardous Waste Rules.<br><br>Industry has obtained renewed CCA consent to operate from MPPCB under Water Act & Air Act vide consent No. AW-52254, dated 09.10.2020 valid up to 30.11.2021 and Hazardous Waste Authorization valid up to 22.02.2024. |