

SIX MONTHLY COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE
FOR

**Expansion of Viscose Staple Fibre Unit, Captive Power
Plant and Setting up Solvent Spun Cellulosic Fibre**

At

**Plot No. 1, GIDC Industrial Area, Vilayat,
Taluka: Vagra, District: Bharuch (Gujarat)**



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 (Vadodara)
Gujarat Pollution Control Board-Bharuch

Submitted by:

Grasim Industries Limited (Grasim Cellulosic Division)

Plot No. 1, GIDC Industrial Area, Vilayat,

Taluka: Vagra, District: Bharuch (Gujarat)

Period: 15/01/18 – 15/07/18

Compliance Status Report for “Environmental Clearance” Accorded by the MoEF
For
Grasim Cellulosic Division (GCD), Vilayat Project

List of Annexure

Annexure No. / Title

1. EC Name change application for CA plant
2. MoEF&CC EC compliance certification for EC, dated 30.11.17
3. EIA & EMP
4. CSR report of Grasim, Vilayat
5. Organization chart of Environmental Management
6. Acknowledgement of last EC compliance report submitted
7. Form-V, Environmental Statement submitted to GPCB
8. Advertisement of EC in news papers
9. CC&A compliance report

Compliance Status Report for “Environmental Clearance” Accorded by the MoEF
For
Grasim Cellulosic Division (GCD), Vilayat Project

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. Grasim Cellulosic Division is a latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This is the company's first plant producing specialty grade fibre. We have received EC for an expansion of Viscose Staple Fibre (1,27,750 to 2,55,500 TPA), Sulphuric Acid (1,38,700 to 2,19,000 TPA), Carbon-Disulphide (54,750 to 65,700 TPA) along with Proposed Solvent Spun Cellulosic Fibre (Excel Fibre) (36,500 TPA) and Captive Power Plant (55 MW) within the existing plant premises.
4. The Company's main production is Viscose Staple Fibre, Sulphuric Acid, Carbon-Disulphide.
5. All the operation related permits, including Environmental Clearance, Forest Clearance from MOEF&CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from Gujarat Pollution Control Board, are in place.
6. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
7. 04 No. of Ambient Air Quality Monitoring Stations (AAQMS) along with Environmental Parameter Display Board at main gate have been established.
8. Continuous Emission Monitoring System has installed in process stacks of Rayon (Fibre) plant and H₂SO₄ acid plant for regular monitoring of CS₂, SO₂ etc.
9. Online TOC, pH & flow meters installed at the outlet of ETP, before discharging treated effluent to GIDC pipeline.
10. A vast green belt as per the CPCB guidelines is being developed to curb the emission and also to provide an aesthetic look.
11. Point wise compliance status of Environmental Clearance for GCD, Vilayat is furnished herewith.

Compliance Status Report for “Environmental Clearance” Accorded by the
MoEF & CC For
Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance

MOEF Ref. Letter No.: J-11011/321/2016-IA II(I)Pt, dated 15-01-18

General Profile:

Sr. No.	Stipulation	Compliance Status																												
	This has reference to your proposal no. IA / GJ / IND2 /58913 /2016, dated 23rd January, 2017, submitting the EIA/EMP report on the above subject matter	---																												
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Viscose Staple Fibre from 1,27,750 TPA to 2,55,500 TPA, Captive Power Plant from 25 MW to 55 MW and setting up Solvent Spun Cellulosic Fibre unit of 36,500 TPA by M/s Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat)	Latitude : 21 deg 46'8" and 21 deg 47'11"North Longitude : 72 deg 53'18"and 72 deg 54'49"East																												
3.	<p>The Existing & proposed Production capacity:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Product (TPA)</th> <th style="text-align: right;">Existing</th> <th style="text-align: right;">Additional</th> <th style="text-align: right;">Total</th> </tr> </thead> <tbody> <tr> <td>Viscose Staple Fibre (De-bottnecking; 36,500, New Machines; 91,250)</td> <td style="text-align: right;">1,27,750</td> <td style="text-align: right;">1,27,750</td> <td style="text-align: right;">2,55,500</td> </tr> <tr> <td>Solvent Spun Cell Fibre (Excel Fibre)</td> <td style="text-align: right;">Nil</td> <td style="text-align: right;">36,500</td> <td style="text-align: right;">36,500</td> </tr> <tr> <td>Sulphuric Acid</td> <td style="text-align: right;">1,02,200</td> <td style="text-align: right;">80,300</td> <td style="text-align: right;">1,82,500</td> </tr> <tr> <td>Carbon Di-sulphide</td> <td style="text-align: right;">23,725</td> <td style="text-align: right;">10,950</td> <td style="text-align: right;">34,675</td> </tr> <tr> <td>Anhydrous Sod. Sul.</td> <td style="text-align: right;">83,038</td> <td style="text-align: right;">1,27,750</td> <td style="text-align: right;">2,10,788</td> </tr> <tr> <td>Captive Power plant</td> <td style="text-align: right;">25 MW</td> <td style="text-align: right;">30 MW</td> <td style="text-align: right;">55 MW</td> </tr> </tbody> </table>	Product (TPA)	Existing	Additional	Total	Viscose Staple Fibre (De-bottnecking; 36,500, New Machines; 91,250)	1,27,750	1,27,750	2,55,500	Solvent Spun Cell Fibre (Excel Fibre)	Nil	36,500	36,500	Sulphuric Acid	1,02,200	80,300	1,82,500	Carbon Di-sulphide	23,725	10,950	34,675	Anhydrous Sod. Sul.	83,038	1,27,750	2,10,788	Captive Power plant	25 MW	30 MW	55 MW	<p>Production increased under de-bottnecking for Viscose Staple Fibre & Sod. Sulphate after receiving EC, CTE & CTO.</p> <p>(Production from Jan-Jun-18)</p> <p>Viscose Staple Fibre : 65812.8 MT</p> <p>Nil</p> <p>Sulphuric Acid : 44,776.14 MT</p> <p>Carbon Di-sulphide : 9612.26 MT</p> <p>Anhyd. Sod. Sulphate : 45,638 MT</p> <p>Nil</p> <p>Copy of CTE & CTO is attached.</p> <p>New lines yet to be installed.</p>
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4.	<p>The existing land area is 222.63 ha and no additional land will be required for the proposed expansion.</p> <p>Industry will develop greenbelt in an area of 33 % i.e., 73.46 ha out of 222.63 ha area of the project.</p> <p>The estimated project cost is Rs.2560 Crores.</p> <p>Employment will be provided to 1300 persons as direct & 1200 persons indirectly after expansion.</p> <p>Industry proposes to allocate Rs.64.04 Crores towards enterprise social commitment</p>	<p>---</p> <p>Green belt development is under progress to cover 33% area.</p> <p>Noted</p> <p>Shall Implement</p> <p>Noted</p>
5.	<p>There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Narmada River (estuarine region) is at a distance of 9.0 km in SSW direction from the project site</p>	<p>---</p>
6.	<p>The total fresh water requirement is 35,000 m³/day, which will be met from Gujarat Industrial Development Cooperation (GIDC) water supply</p> <p>Effluent generated from the project will be treated in the existing effluent treatment plant, and the treated effluent will be discharged into Bay of Kambhat through GIDC pipeline</p> <p>Total power requirement of 55 MW will be met from the captive power plant. Three 175 TPH coal/petcoke fired boilers will be installed for the proposed CPP.</p> <p>Multi cyclone separator/ bag filter with a stack of height of 125 m will be installed to control the particulate emissions within prescribed norms</p> <p>Existing unit has 2 DG sets of 1250 KVA capacity, that are used as standby during power failure. Stack height of 30 m has been provided as per CPCB norms for the existing DG sets</p>	<p>We shall met fresh water requirement through GIDC as being done for existing plant</p> <p>Shall Comply on commissioning of project as done for existing production capacity also</p> <p>Shall Comply the condition on commissioning of plant</p> <p>Shall Comply the condition on commissioning of plant</p> <p>Existing DG sets will be used for standby power requirement, in case any power failure</p>
7.	<p>All Manmade Fibres Manufacturing (Rayon) projects are listed at 5(d) of Schedule to the Environment Impact Assessment (EIA) Notification, 2006, under Category 'A' and requires appraisal at central level by Expert Appraisal Committee (EAC) in the Ministry</p>	<p>---</p>
8.	<p>The terms of references (ToR) was granted on 2nd February, 2017 with the exemption from public</p>	<p>---</p>

	consultation in terms of para 7 (i), Point III, Stage (3)(i)(b) of EIA Notification, 2006	
9.	The proposal for environmental clearance (EC) was placed before the EAC (Industry-2) in its 25 th meeting held during 5-7 July, 2017 in the Ministry. The project proponent and their consultant M/s J. M. EnviroNet Pvt Ltd, presented the EIA/EMP report as per the ToR. The EAC, found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions	---
10.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project ' Expansion of Viscose Staple Fibre from 1,27,750 TPA to 2,55,500 TPA, Captive Power Plant from 25 MW to 55 MW and setting up Solvent Spun Cellulosic Fibre unit of 36,500 TPA ' by M/s Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:	---

10. Terms & Conditions

i.	The environmental clearance issued by SEIAA vide letter dated 30 th May, 2011 for the project 'Chlor-alkali unit with value added products (as a backward integration of VSF plant)' at the same premises, should be rectified to reflect M/s Grasim Industries Ltd (Grasim Chemical Division) as the project proponent in place of M/s Grasim Cellulosic (A Unit of Grasim Industries Ltd)	We have applied for the 'Chlor-alkali unit with value added products, to be rectified to reflect M/s Grasim Industries Ltd (Grasim Chemical Division) in the name as Grasim Chemical Division, pl. refer attached Annexure-1
ii.	The Monitoring report on compliance status of the conditions stipulated by SEIAA in the environmental clearance dated 30 th May, 2011, shall be submitted to the Ministry through the Regional Office, for further review of the project, if so required.	The monitoring report on compliance status of the conditions stipulated by SEIAA in the environmental clearance dated 30 th May, 2011 has already submitted to ministry. Pl. refer Annexure-2
iii.	Effluent shall be treated properly before discharging to Bay of Kambhat through GIDC pipeline.	Being done for existing capacity, shall follow for additional too.
iv.	Atleast, 50 % of the fuel requirement shall be met from natural gas and the rest 50 % may be met	Condition has amended for use of 100% coal with ETP bio mass. We shall

	from briquette/coal (with sulphur content less than 0.5%).	ensure to use coal of < 0.5% sulphur contents.
v.	Proposed effluent generation (27160 KLD) shall be reused after treating/processing through RO, etc. and fresh water requirement shall accordingly be restricted to 22,000 KLD	Condition has amended for 28,000 KLD water after reusing/recycling of 7,350 KLD through RO plant.
vi.	Smart energy conservation equipments (like LED/solar light) shall be installed in the factory and premises.	Being done
vii.	As assured, 5 MW power (of the total power requirement) shall be generated from solar power/renewable energy sources.	Shall install by our corporate solar division.
viii.	Green belt of 10 m width shall be developed along the periphery of the plant with three layers of trees. At least 33 % of the area shall be developed as green area with trees	Shall develop the green belt accordingly to cover 33% of plot area with 10m width along with periphery.
ix.	The proponent shall plant and maintain at least 1 lakh native trees for five year in the nearby villages.	Being planned, under financial approval and discussion with nearby villages. Shall be done based on area availability and agreement with Panchayats.
x.	Enterprises social commitment (ESC) plan shall be implemented with atleast 2.5 % of the project cost. As proposed, Hospital (with modern facilities) may be constructed/ maintained, and also construct and maintain modern RO drinking water facility in the five nearby village	Shall plan accordingly
10.1.	General Conditions	
i.	The project authorities must strictly adhere to the stipulations made by the Central Pollution Control Board, State Pollution Control Board, State Government and any other statutory authority	All stipulations made by GPCB are strictly complied.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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, we have applied for amendment in EC for increasing the production capacity of Viscose staple fibre (VSF) from 2,55,500 to 4,38,000 TPA.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated	There are 4 nos. AAQ monitoring stations installed in consultation with GPCB in nearby 4 villages, at Derol, Vilayat, Sranar and Argama within 2-3 kms radius. Also monitoring AAQ inside plant periphery.

iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed	Being followed																												
v.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	<p>The Noise level (dBA) at workroom for last 6 months is tabulated as under :</p> <table border="1" data-bbox="1062 373 1523 674"> <thead> <tr> <th>Area</th> <th>Max.</th> <th>Min.</th> <th>Avg.</th> </tr> </thead> <tbody> <tr> <td>Hospital</td> <td>45</td> <td>40</td> <td>43</td> </tr> <tr> <td>School</td> <td>50</td> <td>45</td> <td>47</td> </tr> <tr> <td>Derol</td> <td>50</td> <td>45</td> <td>47</td> </tr> <tr> <td>Vilayat</td> <td>56</td> <td>50</td> <td>53</td> </tr> <tr> <td>Sarnar</td> <td>52</td> <td>47</td> <td>49</td> </tr> <tr> <td>Argama</td> <td>54</td> <td>46</td> <td>50</td> </tr> </tbody> </table> <p>Following measures are taken to control noise level:</p> <ul style="list-style-type: none"> • Provision of Silencers • Acoustic Enclosures • Rubber pads for rotating equipment 	Area	Max.	Min.	Avg.	Hospital	45	40	43	School	50	45	47	Derol	50	45	47	Vilayat	56	50	53	Sarnar	52	47	49	Argama	54	46	50
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vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water	Scheme is being developed to collect rooftop rain water of major buildings in a pond for recycle / reuse																												
vii.	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling.</p> <p>Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.</p> <p>Training to all employees on handling of chemicals shall be imparted.</p>	<p>Training is regularly provided for safety and health aspect.</p> <p>Pre-employment checkup is done for all employees regularly.</p> <p>Training is done for all employees on chemical handling.</p>																												
viii.	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, and risk mitigation measures relating to the project shall be implemented	All conditions as prescribed in EC, NOC and CC&A is maintained and monitored regularly. Detailed status of EIA/EMP is attached as Annexure-3																												
ix.	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	All relevant measures for improving the socio-economic conditions are done in surrounding area under CSR initiatives as attached in Annexure-4																												
x.	The company shall undertake eco-developmental measures including community welfare measures in	Eco development measures are being																												

	the project area for the overall improvement of the environment	taken under CSR for community welfare & improvement of Environment
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	Environment Management Cell comprising team member from process, maintenance, civil, safety and CSR team and Lab is formed under leadership of Unit Head Detailed organization chart, attached as Annexure-5
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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	Separate funds is earmarks on annual basis for Environmental management;
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal	A copy of clearance letter has submitted to Panchayat & GIDC authorities.
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&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company	Being complied regularly, pl. refer Annexure-6 of last EC's six monthly compliance submitted.
xv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices by e-mail	Being followed, pl. find herewith attached Form-V for FY-17. Annexure-7
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	EC issued on 15.01.2018, and advertisement released on 18.01.2018.

	SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry	Copy attached Annexure-8
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	Shall submit the desired information on project completion.
11.	The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory	Noted & will abide
12.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions	---
13.	The above conditions will be enforced, <i>inter alia</i> under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules	We are following terms & conditions GPCB CC&A compliance is attached as Annexure-9