



O/C

Our Ref: CR/EHS/EC-Compliance/ 12 /2024

Date: 20.05.2024

To  
**Ministry of Environment, Forest and Climate Change,**  
Regional Office (WCZ), Ground Floor, East Wing.  
New Secretarial Building Civil Lines,  
Nagpur.  
apccfcentral-ngp-mef@gov.in; ecompliance-mh@gov.in

**Sub:** Six Monthly-Environmental Clearance compliance report (Period October-2023 to March-2024)

**Rel:** Environmental Clearance (EC) Grant letter dated 31<sup>st</sup> October, 2016, vide MoEF & CC File No.1101 1/415/2014-IA II(I). Proposal no- IA/MH/IND2/52300/2014.

Respected Sir,

With reference to the above, enclosing herewith Six monthly EC-compliance report for the period October 2023 to March' 2024.

We hope you will find the compliance report in order.

Thanking you,

Yours Faithfully,  
For **Grasim Industries Limited (Unit-Century Rayan),**

(Prakash Bhat)  
General Manager (EHS)

CC: 1. MPCB, Sion, HO-email: ms@mpcb.gov.in  
2. RO-MPCB, Kalyan-email: rokalyan@mpcb.gov.in  
3. SRO-MPCB, Kalyan, email-srokalyan2@mpcb.gov.in  
3. Central Pollution Control Board: Regional Directorate-Pune, Maharashtra  
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Grasim Industries Limited  
(VFY – Fashion Yarn Business)

Unit : Century Rayon, Murbad Road, Shahad - 421103, Dist. Thane, Maharashtra, INDIA.

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Registered Office: Birlagram, Nagda - 456 331 (M.P.) | Corporate ID No.: L17124MP1947PLC000410



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SIX MONTHLY

**ENVIRONMENT CLEARANCE (EC) - COMPLIANCE REPORT**

(MoEF&CC File No.-J-11011/415/2014-IA II(I), EC grant date 31.10.2016)

**Period:** October-2023 to March-2024

Prepared by:

**Grasim Industries Limited**  
**Unit-CENTURY RAYON**  
(Formerly Century Rayon,  
A Div. of Century Textiles & Industries Limited.)

Submitted to:

**Regional Office, Pune**  
Ministry of Environment, Forests & Climate Change  
(MOEF & CC)

**May, 2024**

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## Environment Clearance (EC) Grant Details & Expansion Status

Project Name : Proposed Expansion of Viscose Filament Yarn (VFY-25,000 to 30,000 TPA)

Proposal No. : IA/MH/IND2/52300/2014

MoEF &CC File No : J-11011/415/2014-IA II(I)

EC Granted on : 31.10.2016

### **Present Status of VFY production-expansion;**

In 1<sup>st</sup> phase of VFY expansion, enhanced production by 1500 TPA (i.e. from 25,000 to 26,500 TPA).

In 2<sup>nd</sup> phase of VFY expansion, enhanced production by 2800 TPA (i.e. from 26,500 to 29,300 TPA).

Existing Consent No. : Format1.0/CAC/UAN No. MPCB-CONSENT\_AMMENDMENT-0000010874/  
2307000070 dated 11.07.2023 valid up to 30.09.2026 (Please refer

**Annexure-VII)**

## Compliance to Environment Clearance Conditions

Sr. No.	EC Condition	Compliance Status (Period: Oct-2023 to March-2024)
<b>A. SPECIFIC CONDITIONS</b>		
i	<p>ESP and adequate stack height shall be provided to coal fired boiler to control air emissions within the limit stipulated by CPCB.</p> <p>Low NOX burner shall be provided in captive Co-generation power plant to reduce the NOx emissions.</p>	<p>The project does not propose any increase in capacity of coal fired boiler. However, 3 field ESP has been provided to existing coal fired boiler to control particulate matter emissions.</p> <p>Adequate stack heights are provided as per the CPCB standards and air emissions are well within the limits stipulated by MPCB / CPCB.</p> <p>In case of low NOx burner, we wish to put as under; Ours is a utility boiler which works without burner. The coal size of 6 mm in case of Atmospheric Fluidized Bed Combustion (AFBC) boiler and 20 mm in case of Stoker Fired boiler (Standby) is fed directly to the furnace through Rotary feeder/ Drag chain feeder and coal is burnt in furnace. The combustion take place at temperature around 750 to 900 °C in AFBC boiler and around 950 to 1000°C in Stoker Fired boiler. NOx formation is known to be very minimal at these furnace temperatures. The NOx concentration measured in the boiler varies in between 4.64 to 45.7 ppm which is well within prevailing limits. Hence, condition of providing low NOx burner may not be useful/applicable at these low concentrations of NOx for AFBC &amp; Stoker fired boilers.</p>
ii	<p>The gaseous emissions (SO<sub>2</sub>, NO<sub>x</sub>, CS<sub>2</sub>, H<sub>2</sub>S, CO and HC) and particulate matter from process and CPP units shall conform norms prescribed by the CPCB/ MPCB from time to time.</p> <p>At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p>	<p>Complied. Regular monitoring of gaseous emissions from captive cogeneration power plant and process stacks is done internally by our internal Rayon Laboratory (NABL Approved) as well as MOEF approved external laboratories.</p> <p>The gaseous emissions are well within the prescribed standards. Please refer <b>Annexure-I</b> for stack emission report summary.</p> <p>No event of failure of pollution control equipment has occurred during the reporting period.</p> <p>The guidelines are being/will be followed strictly.</p>

iii	<p>Continuous gaseous Emission Monitoring System (24x7) should be installed to measure SO<sub>2</sub>, NO<sub>x</sub> and particulate from the CPP stack and SO<sub>2</sub>, CS<sub>2</sub> and H<sub>2</sub>S from process plant stacks.</p>	<p>Complied. CEMS installed for monitoring of SO<sub>2</sub>, NO<sub>x</sub> and particulate matter from the CPP stacks and SO<sub>2</sub>, CS<sub>2</sub> and H<sub>2</sub>S from process plant stacks.(CPP stacks - 2 No. , Process stacks-8 Nos.)</p>
iv	<p>The company shall make efforts to clean exhaust containing CS<sub>2</sub> and H<sub>2</sub>S gas from rayon plant by adopting state of art technology.</p>	<p>Complied. Company is continuously looking out for new available technologies for the cleaning of exhaust gases. We have successfully installed bio-scrubber with chemical treatment for cleaning of H<sub>2</sub>S gas at Rayon-Spin bath dept.</p>
v	<p>In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided.</p> <p>Fugitive emissions shall be controlled by providing closed storage, closed handling &amp; conveyance of chemicals/materials, multi cyclone separator and water sprinkling system.</p> <p>Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions.</p> <p>Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored.</p> <p>The emission shall confirm to the limits stipulated by the SPCB.</p>	<p>Complied. In existing plant, following preventive measures at vulnerable fugitive emission generating sources:</p> <ul style="list-style-type: none"> <li>• Water sprinkling network has been developed. water tapings across the coal storage shed for dust suppression.</li> <li>• Water is sprinkled on coal to suppress fine dust emission before feeding it on conveyer belt</li> <li>• Coal is conveyed to boiler Bunker through conveyer belt which are fully covered and enclosed with hoods to prevent fugitive emissions</li> <li>• All the transfer points are fully enclosed and water spray nozzles are provided for dust suppression</li> <li>• Three nos. of Dust Extraction-Bag filter systems are provided.</li> <li>• Coal is unloaded and stored in roof top covered shed with brick wall enclosure on three sides.</li> <li>• Cement and tar roads are provided in coal handling area</li> <li>• The roads are cleaned on daily basis. Mist system installed.</li> </ul> <p>Fugitive emissions are monitored and controlled regularly. There are no such limits specified by SPCB.</p>
vi	<p>The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards.</p> <p>Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.</p>	<p>Complied. Adequate stack height for DG set is provided as per CPCB guidelines.</p> <p>Acoustic cabin/room is provided for DG set operator and control room operator. Also Acoustic enclosure are installed for Turbine Generators.</p>
vii	<p>Total fresh water requirement from Ulhas River should not exceed 17,550 m<sup>3</sup>/day and prior permission shall be obtained from the concerned Authority.</p>	<p>Complied Total fresh water consumption for factory during Oct-2023 to March-2024 is 14580 m<sup>3</sup>/day (Refer Annexure-VI)</p>

	<p>No ground water should be used.</p> <p>Efforts should be made to reduce the fresh water requirement by adopting 3R's (Reduce, Reuse and Recycle) concept.</p>	<p>Obtained permission/sanction by Thane Irrigation Dept. Kalwa (Thane) Govt. of Maharashtra with revised water sanctioned quota vide letter dated 13.06.2018.</p> <p>We are not using ground water &amp; declaration/letter has been submitted to MPCB for the same.</p> <p>Continuous efforts are being made to reduce fresh water consumption by implementing '3R' concept. We are recycling 2000 CMD of treated water in our process degasser as per EC.</p>
Viii	<p>Total industrial wastewater generation shall not exceed 15,585 m<sup>3</sup>/day.</p> <p>As proposed, effluent should be treated in effluent treatment plant.</p> <p>Treated effluent shall be discharged into conveyance system for marine disposal after confirming to the standards prescribed for marine discharge norms and obtaining permission from the SPCB.</p> <p>Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flow meter should be installed.</p> <p>No process effluent shall be discharged in and around the project site.</p> <p>Sewage should be treated in STP.</p> <p>The water quality monitoring report for treated effluent should be submitted to the CPCB and Ministry's regional office at Nagpur.</p>	<p>Complied.</p> <p>Average industrial waste water generation/discharge for the period Oct-2023 to March-2024 is 10533 m<sup>3</sup>/day. <b>(Refer Annexure-VI)</b></p> <p>We have full-fledged ETP plant having capacity of 16,000 m<sup>3</sup>/day. The treated effluent conforming to consent norms, is being discharged as per conditions given in MPCB's consent to operate.</p> <p>The treated effluent is passed through guard pond. Online meters/CEMS for pH, TOC/BOD-analyser and flow meter are installed and connected to MPCB server. All parameters are within the specified limits.</p> <p>All raw effluent streams generated at VFY manufacturing processes are diverted to ETP for treatment. No process effluent is let out or discharged in and around the project site.</p> <p>The domestic sewage generated at factory premises is treated and disposed as per MPCB consent-connected to ETP at inlet for further treatment. The sewage generated at residential colony is treated in Sewage Treatment Plant (STP). The treated sewage conforms to MPCB parameters before discharge.</p> <p>Summary of ETP-outlet treated effluent quality /analysis report by our internal NABL Approved laboratory is enclosed as '<b>Annexure-II</b>' All parameters are within the limits.</p>
Ix	<p>As proposed, effluent recycling RO plant shall be installed to produce 2000 m<sup>3</sup>/day recycle water.</p> <p>Efforts shall be made for recovery of sodium thiosulphate.</p>	<p>We are recycling 2000 m<sup>3</sup>/day of treated effluent for degasser system and we are able to achieve 2000 m<sup>3</sup>/day for recycling of treated effluent without installing RO plant. Further efforts are being taken for recycling/reuse of treated water. Hence we feel RO plant is not required.</p> <p>In respect of Sodium Thiosulphate recovery, we have analysed ETP effluent, wherein we found that Sodium Thiosulphate concentration is in traces. Hence the recovery of the same is not feasible.</p>

x	<p>Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flow meter should be installed.</p> <p>Sulphide contents in the effluent should also be monitored.</p>	<p>Complied. The treated effluent is passed through guard pond. Online meters like pH, TOC analyser and flow meter are installed. The CEMS for pH, BOD and Flow are already connected with MPCB server. Sulphide content in the effluent is analysed and found in traces.</p>
xi	<p>Fish pond will be constructed in the close vicinity of Effluent Treatment Plant of which bioassay test will be conducted which will analyse the survival rate and health of fishes.</p>	<p>Complied. Fish pond is constructed near ETP-discharge tank for carrying out bioassay test.</p>
xii	<p>Process effluent/ any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>	<p>We are having separate system of process effluent and storm water collection. Hence there is no chance of mixing effluent with storm water. It is being done by formulating periodic schedule for cleaning of all effluent channels as well as storm channels to eliminate chocking of the same on continuous &amp; regular basis.</p>
xiii	<p>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-boundary movement) Rules, 2008 and amendment as on date for management of hazardous waste and prior permission from SPCB shall be obtained for disposal of solid/Hazardous waste in the TSDF. A copy of the same shall be submitted to the Ministry and Ministry's regional office at Nagpur.</p>	<p>The company has combined 'Consent To Operate (CTO) / authorization' (under Rules 6 ) for generation, collection, storage and disposal of HW Rules, 2016.  A copy of renewed combined 'Consent to Operate (CTO), VFY prod.- 29300 MTPA / authorization' having validity up to 30.09.2026 is being submitted to the Ministry's Regional Office through this report as <b>Annexure-VII</b> for reference.</p>
xiv	<p>Efforts shall be made for recovery of Zinc from Zinc sludge. The Company shall conduct study in association with reputed institution. Action taken report shall be submitted to the Regional Office of MoEF and CC and CPCB.</p>	<p>Efforts are being taken to explore the possibility of recovery of Zn from Zinc sludge. Pilot trials are initiated by us in collaboration with Aditya Birla Science &amp; Technology Co. Pvt. Ltd., Taloja and in progress.</p>
xv	<p>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.</p>	<p>All provisions of MSIHC Rules-1989 are being complied.  All transportation of hazardous chemicals is being done as per the Motor Vehicle Act (MVA), 1989.</p>

xvi	All the recommendations mentioned in the Environment Management Plan, Rapid Risk Assessment Report, Disaster Management Plan and Safety guidelines shall be implemented.	<p>Being complied.</p> <p>Implementation of all recommendations in EMP, Rapid Risk Assessment Report, Disaster Management Plan and safety guidelines reports are being followed strictly.</p> <p>The company is fully committed for the protection of Environment, Health and safety of employees as well as quality, as it is evident from the adaption of Management Systems certifications namely; ISO :14001, ISO: 9001, and ISO:45001. &amp; ISO:50001.</p>
xvii	Boiler ash should be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by air or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.	<p>Being Complied.</p> <p>Following measure are taken with regards to fly ash handling and disposal;</p> <ul style="list-style-type: none"> <li>• The fly ash generated at Boiler/ESP is transported to ash silos through pneumatic conveying system through MS pipes.</li> <li>• The fly ash is stored in 2 nos. closed ash silos having capacity of 200 MT.</li> <li>• The fly ash from ash silos is given for brick manufacturers on day to day basis and loaded in trucks through wet conditioner system with sprinkling of water to avoid fly ash becoming air borne. (100% utilization of fly ash for brick manufacturing)</li> <li>• Bag filters are provided to both ash silos for control of fugitive emissions</li> <li>• After filling the truck with fly ash, the ash is covered with tarpaulin/plastic cover for avoiding spillage or fly ash becoming air borne during transportation.</li> <li>• Direct exposure of workers to fly ash is avoided and dust masks are provided to workers in coal and ash handling areas.</li> <li>• Fugitive dust monitoring is done regularly.</li> </ul> <p>Also installed high jet long throw sprinklers system for coal dust suppression.</p>
xviii	All the fly ash shall be utilized as per fly ash Notification, 1999 subsequently amended in 2003 and 2008.	<p>Complied.</p> <p>Fly ash generated at captive-cogeneration power plant is given to authorized brick manufacturer. We are achieving 100 % utilization of fly ash generated. The report of fly ash generation and utilization is updated on company's website <a href="http://www.centuryrayon.co.in">www.centuryrayon.co.in</a> under 'EHS Management' caption.</p>
xix	Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facility in the occupational health center should be strengthened and	<p>Complied.</p> <p>Periodic medical examinations are being carried out as per schedule for all employees. The workers working at hazardous processes are examined medically once in six months and non-</p>

	regular medical test records of each employee should be maintained separately.	hazardous processes at a frequency of yearly once. The first aid, Occupational Health Centre (OHC) are operational. Health records of each employee are updated and maintained.
xx	Dedicated parking facility or loading and unloading of material should be provided in the factory premises. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	At present, we have the adequate infrastructure for parking for vehicle engaged in loading and unloading of material. Further, we have a team of personnel, who manage/ takes care the transport system inside plant premises. Outward moving vehicles are instructed not to rush in public road and move in a queue in order to avoid congestion on public road.
xxi	As proposed, green belt over 33% of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Complied A green belt covering over 33% of total project area is brought under green cover.  The existing plant species planted are in compliance with the CPCB's guidelines on Industrial plantation.
xxii	All the commitments made to the public during public hearing/Public consultation meeting held on 13th January, 2016 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the ministry's Regional Office at Nagpur.	Complied.
xxiii	As proposed Rs.4.88 Crores shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical break up /details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such programme should be ensured accordingly in a time bound manner.	Details of CSR / ESC activities carried out during the reporting period of 6 months, is enclosed as ' <b>Annexure-III</b> ' with cost incurred.  ESC/CSR activities carried are planned and implemented within the time frame decided.

Sr. No.	EC Condition	Compliance Status (Period: Oct-2023 to Mar-2024)
<b>B. GENERAL CONDITIONS</b>		
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra State Pollution Control Board (MPCB), State Government and any other statutory authority.	Presently, we are complying with all the conditions given by Maharashtra Pollution Control Board, State govt. and other statutory authority.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Being followed & Complied.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. The ambient air quality monitoring is done regularly at 3 locations. The location of AAQM in plant premises are chosen in consultation with the MPCB. While deciding the location consideration is given as per CPCB guidelines. Locations of Ambient air sampling in plant premises are as follows; 1. Material gate 2. Staff Gate 3. Roof top of Tyre Cord Building Three numbers of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) are installed inside company premises to monitor ambient air quality. The analysis report summary of ambient air quality monitored in at factory premises is enclosed as <b>'Annexure-IV'</b>
iv	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) (day time) and 70 dB (A) (night time).	Adequate measures are taken to reduce the noise from noise generating sources like compressors, blowers etc. by acoustic hood, enclosures etc. Ear muffs/ear plugs are provided for persons working in noise prone areas. We are regularly monitoring noise Level at Ambient Air and also in work zone areas and noise levels are within the standards prescribed. A copy of our internal laboratory- ambient noise level report is enclosed as <b>'Annexure-V'</b>

v	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same for the process activities of the project to conserve fresh water.	Since the water table of this area is more than 3 to 5 m deep and the source of water is not groundwater, hence rainwater harvesting scheme is not required for the present expansion project as mentioned in the EIA study report.
vi	During transfer of materials, spillages shall be avoided and garland drains to be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains.	Spillage control system is in place at concerned plants. Storm water and domestic waste water drains are separated and maintained.
vii	Use of Personnel Protection Equipment by all employees/workers shall be ensured,	All employees/ Workers are provided with Personnel Protective Equipment's (PPEs) based on the work place hazards and ensure wearing of PPE's by workers.
viii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Being Complied. We are regularly carrying out training to all employees on safety and health aspects on handling chemicals. Pre-employment and routine periodical medical examinations are also performed. Regular training is conducted for all employees including drivers for safety in chemical handling and transportation.
ix	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.	We adhere to the recommendations made in EIA/EMP report and implement the same in true spirit.
x	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding areas.	The CSR activities are planned for overall development of Socio-economic conditions of the surrounding area as per need.
xi	The company shall undertake eco-developmental measures including community welfare measures in the project area of the overall improvement of the environment.	We actively participate in activities meant for improving Socio-economic conditions of surrounding.
xii	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	We have a separate environmental Management Cell equipped with qualified & Competent officers to maintain the aspects and implement Environment Management System effectively and ensure its continuous improvement. In-house Rayon and Tyre Cord laboratories are involved in day to day internal monitoring and analysis of environmental parameters.

		<p>Also, we are availing services of external MOEF approved laboratories for environmental monitoring as per requirement. Our Rayon plant and Tyre Cord Plant laboratories have been accredited by NABL. All the results are within the MPCB prescribed norms. For the Environmental requirement, return on investment is not calculated and the budget is allocated as discretionary budget. There is no limitation from the side of Management for spending on regulatory/ Environmental protection requirements. The Environment Management Cell comprises of following persons and headed by:</p> <p>a) Unit Head  b) Functional Head – VFY  d) Department Head -Caustic Plant  e) Department Head – EHS  f) Department Head – Civil  g) Department Head – ETP  l) Department Head – Fire &amp; Security  h) Environmental Analyst</p> <p>Company also has ‘EHS &amp; Sustainability Department’ to deal with environmental pollution abatement and protection matters.</p>
xiii	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment &amp; Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.</p>	<p>Complied.</p>
xiv	<p>A copy of clearance letter shall be sent by Project Proponent to the concerned panchayat/ Zilla Parishad/ Municipal Corporations, Urban local body and the local NGO if any, from who suggestions/ representations, if any, were received while processing the proposal.</p>	<p>Complied.  We have informed to Ulhasnagar Municipal Corporation (UMC) on 18.11.2016 about the grant of Environment Clearance for VFY expansion project.</p>
xv	<p>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 State Pollution Control Board. A copy of Environmental Clearance and six</p>	<p>Complied &amp; reported through this report.  Next six monthly compliance report will be due on – 1<sup>st</sup> Nov, 2024.  A copy of compliance report is being uploaded on our company website. <a href="http://www.centuryrayon.co.in">www.centuryrayon.co.in</a></p>

	monthly compliance status reports shall be posted on the website of the company.	
xvi	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to concerned State Pollution Control Board as prescribed under the EP 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 MoEF & CC by email.	<p>We are regularly submitting the Environment Statement to MPCB within the stipulated time frame. Environment Statement for FY2022-23 submitted to MPCB on <a href="http://www.ecmpcb.com">www.ecmpcb.com</a> online portal on 30.09.2023.</p> <p>The copy of this compliance report is being sent to MOEF-RO-Pune of by email.</p>
xvii	<p>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://www.moef.nic.in">http://www.moef.nic.in</a>.</p> <p>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 should be forwarded to the concerned Regional office of the Ministry.</p>	<p>Noted and copy of Environment Clearance (EC) is available on company's website <a href="http://www.centuryrayon.co.in">www.centuryrayon.co.in</a> under EHS management.</p> <p>Complied. The advertisement of 'EC grant' was published in two local newspapers on 10<sup>th</sup> November, 2016.</p>
xviii	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.	Complied.

Annexure-I

Stack Emissions Analysis Report (Period: Oct-2023 to Mar-2024)

Stack No.	Location/ Connected to	APC system Provided	Parameters Monitored	Limits	Stack Emission Results					
					Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
S-1	Rayon Spinning Hall No. 3 & 4	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	43	44	44	40	47	49
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	190	215	220	210	205	193
S-2	Rayon Spinning Hall No. 1 & 2	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	38	45	39	43	40	46
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	197	204	197	217	198	200
S-3	Rayon Spinning Hall No. 5	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	42	52	53	48	51	45
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	200	209	212	206	209	214
S-4	Rayon Spin bath	Exhaust fan	H <sub>2</sub> S CS <sub>2</sub>	70 mg/Nm <sup>3</sup> 300 mg/Nm <sup>3</sup>	-	-	-	-	-	-
S-5	Acid Plant-1	Scrubber	Acid Mist	50 mg/Nm <sup>3</sup>	10	8	10	10	9	10
			SO <sub>2</sub>	3.5 kg/MT	1.37	1.48	1.31	1.4	1.5	1.5
S-6	Acid Plant-2	Scrubber	Acid Mist	50 mg/Nm <sup>3</sup>	14	10	8	12	10	9
			SO <sub>2</sub>	3.5 kg/MT H <sub>2</sub> SO <sub>4</sub>	1.43	1.38	1.22	1.40	1.40	1.34
S-7	CS <sub>2</sub> Plant	Chiller, CS <sub>2</sub> & H <sub>2</sub> S scrubber	-	-	-	-	-	-	-	
S-8	CS <sub>2</sub> Plant Scrubber	Scrubber	-	-	-	-	-	-	-	
S-9	Tyre Cord & CSY Spinning	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	26	40	37	34	32	31
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	189	226	192	214	200	205
S-10	Tyre Cord & CSY Spinning	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	43	42	43	46	50	43
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	200	191	204	211	215	214
S-11	Tyre Cord & CSY Spinning	Air Washer with exhaust fan	H <sub>2</sub> S	70 mg/Nm <sup>3</sup>	39	58	56	60	54	58
			CS <sub>2</sub>	300 mg/Nm <sup>3</sup>	195	214	221	226	221	225
S-12	Boiler No.5 (Standby)	-	TPM	150 mg/Nm <sup>3</sup>	-	-	-	-	-	-
			SO <sub>2</sub>	1600 kg/day	-	-	-	-	-	-

Stack No.	Location/ Connected to	APC system Provided	Parameters Monitored	Limits-Unit	Stack Emission Results					
					Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
S-13	Boiler No.6 (Standby)	-	-	-	-	-	-	-	-	-
-S-14	AFBC Boiler No.7, Co-generation	ESP, Fabric bag filer,	TPM-	150 mg/Nm <sup>3</sup>	55.4	45.7	52.2	55.3	46.5	49.6
			SO <sub>2</sub>	5320 kg/day	1920	2130	2100	2330	2510	2400
S-15	Boiler No.8 (Standby co-generation)	ESP, Fabric bag filer,	PM	150 mg/Nm <sup>3</sup>	-	-	-	-	-	-
			SO <sub>2</sub>	5320 kg/day	-	-	-	-	-	-
S-16	DG Set 1,2,3 (Standby)	WHRB	SO <sub>2</sub>	1600 kg/day	-	-	-	-	-	-
			NOx	100 ppm	-	-	-	-	-	-
<b>Remarks:</b> All stack emission results /values are well within the limits specified.										

**ETP- Treated Effluent analysis report summary**  
(Period: Oct-2023 to Mar-2024)

Sr. No.	Parameters	Unit	Consent Limits	Analysis Report-Results					
				Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	pH	-	Between 5.5 – 8.5	6.71	6.74	6.88	6.91	6.83	6.64
2	Total Suspended Solids	mg/l	Not to exceed 100	30	29	37	35	33	31
3	BOD 3 days @ 27°C	mg/l	Not to exceed 30	24	26	26	28	28	26
4	COD	mg/l	Not to exceed 250	85	87	90	104	92	89
5	Zinc	mg/l	Not to exceed 5	2.5	2.3	2.2	2.3	2.2	2.9
6	Oil & Grease	mg/l	Not to exceed 10	5.1	4.9	5.6	5.2	4.9	4.3
7	Bioassay test on fish shall show 90% survival in 96 hrs.	%	Shall allow 90 Survival in 96 Hrs.	93	94	94	95	96	96

<b>Grasim Industries Limited: Unit-Century Rayon</b>		
<b>Details of Enterprise Social Commitments (ESC) Activities-2023-24 (October'23 - March'24)</b>		
<b>Sr. No.</b>	<b>Description</b>	<b>Rs.</b>
1	BKBC - Lab Setup & Upgrade(various expense)	29,12,039
2	C R Hospital-Ambulance	21,17,388
3	Veer Hutatma Bhai Kotwal Vidyalay, Murbad (Drinking Water)	4,99,935
4	Vithoba Temple (Community Garden)	1,45,289
	<b>Total</b>	<b>56,74,651</b>

**Ambient Air Quality Report Summary**

(Period: October-2023 to March-2024)

Month	Parameters Monitored	Unit	NAAQ Standards	Analysis Results (monthly average values Monitoring Locations)		
				Material Gate	Staff Gate	TC Terrace
Oct-2023	SO <sub>2</sub>	µg/m <sup>3</sup>	80	50	36	43
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	28	25	28
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	55	53	53
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	95	94	94
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	47	42	45
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	23	26	25
Nov-2023	SO <sub>2</sub>	µg/m <sup>3</sup>	80	49	36	39
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	25	22	21
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	53	53	51
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	94	93	93
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	51	38	45
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	22	23	22
Dec-2023	SO <sub>2</sub>	µg/m <sup>3</sup>	80	48	29	36
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	29	28	24
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	55	53	52
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	96	93	94
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	56	42	51
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	22	22	24
Jan-2024	SO <sub>2</sub>	µg/m <sup>3</sup>	80	47	32	39
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	24	24	26
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	55	53	53
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	95	94	93
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	59	43	56
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	23	24	24
Feb-2024	SO <sub>2</sub>	µg/m <sup>3</sup>	80	50	40	44
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	24	23	25
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	55	52	53
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	95	94	94
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	61	45	53
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	24	24	22
Mar-2024	SO <sub>2</sub>	µg/m <sup>3</sup>	80	53	44	42
	NO <sub>x</sub>	µg/m <sup>3</sup>	80	26	24	27
	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	54	52	53
	PM <sub>10</sub>	µg/m <sup>3</sup>	100	94	93	94
	CS <sub>2</sub>	µg/m <sup>3</sup>	100	58	45	52
	H <sub>2</sub> S	µg/m <sup>3</sup>	150	22	26	24

Note : AAQ monitoring is done at a frequency of 'Twice weekly'.

Monthly average values are given in above table location wise. All results are within the standards.

**Ambient Noise Level Report Summary**

(Period: October-2023 to March-2024)

Location/ Place of monitoring	Time of monitoring	Limits dB(A) Leq.	Noise Level Results in dB(A) Leq.					
			Oct-2023	Nov-2023	Dec-2023	Jan-2024	Feb-2024	Mar-2024
Material Gate	Daytime	75	71	72	73	72	71	72
	Night Time	70	62	60	62	61	61	61
Staff Gate	Daytime	75	72	72	71	70	71	71
	Night Time	70	62	61	62	61	62	61
Tyre Cord (TC)	Daytime	75	70	71	72	70	70	71
Building Terrace	Night Time	70	61	61	62	60	60	60

Note : Ambient- noise monitoring is being done monthly. Monthly values are given in above table location wise. All noise level results are within the standards.

**Fresh Water & Treated Effluent discharge quantity**

Month	Fresh water consumption quantity (m3)	Treated effluent discharge quantity (m3)
Oct-2023	418763	311895
Nov-2023	418894	301603
Dec-2023	461465	333429
Jan-2024	461984	336324
Feb-2024	437540	312666
Mar-2024	469543	331720
<b>Total (m3)</b>	<b>2668189</b>	<b>1927637</b>
<b>m3/Day</b>	<b>14580</b>	<b>10533</b>
<b>EC/CTO Limits m3/day</b>	<b>17550</b>	<b>12300</b>

Note : The fresh water consumption and treated effluent discharges quantities are within the EC/CTO limits.

**Annexure-VII**

**Copy of Consent To Operate (CTO)**

Document attached separately as pdf file

**Annexure-VIII**

**Copy of Environment Clearance (EC) Grant Letter**

Document attached separately as pdf file

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24023516  
Website: <http://mpcb.gov.in>  
Email: [cac-cell@mpcb.gov.in](mailto:cac-cell@mpcb.gov.in)



Kalpataru Point, 2nd and  
4th floor, Opp. Cine Planet  
Cinema, Near Sion Circle,  
Sion (E), Mumbai-400022

RED/L.S.I (R47)

Date: 11/7/23

No:- Format1.0/CAC/UAN No.MPCB-  
CONSENT\_AMMENDMENT-0000010874/ 2307000070

To,  
M/s. GRASIM INDUSTRIES LIMITED  
( UNIT- CENTURY RAYON)  
Murbad Road, Shahad, Ulhasnagar, Thane- 421103



**Sub: Grant of Amendment in Consent to Operate under Red/LSI**

- Ref:**
1. Consent to operate granted vide no. Format 1.0/CAC/UAN No. MPCB-CONSENT-0000118943 dated 24/4/2022
  2. Environmental Clearance granted by MOEFCC vide no.J-11011/415/2014/1A-II(I) dated 31.10.2016.
  3. Minutes of the Committee constituted for classification of waste/material dated 12/8/2022
  4. Minutes of the Consent Appraisal Committee Meeting held on 03/7/2023

Your application No.MPCB-CONSENT\_AMMENDMENT-0000010874 Dated 09.05.2023

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to renewal is granted for a period up to 30/09/2026**
2. **The capital investment of the project is Rs.753.62 Crs. (As per C.A Certificate submitted by industry Existing CI- 633.03 Cr + Increase in CI- 120.59 Cr)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Rayon Viscose Filament Yarn, Tyre cord, Continuous spun yarn [ Combined production]	29300	MT/A
2	Carbon- di- Sulphide	20000	MT/A
3	Sulphuric Acid	76000	MT/A
4	Captive power cogeneration [ 3 X6.3 MW- DG Set] stand by	18	MW
5	Steam [Excess from captive power plant]	180	MT/Day

<b>Sr No</b>	<b>Product</b>	<b>Maximum Quantity</b>	<b>UOM</b>
<b>By Products</b>			
6	Anhydrous Sodium Sulphate *	18900	MT/A

\* Anhydrous Sodium Sulphate shall be sold to end users.

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

<b>Sr No</b>	<b>Description</b>	<b>Permitted (in CMD)</b>	<b>Standards to</b>	<b>Disposal Path</b>
1.	Trade effluent	15000	As per Schedule - I	12,000 CMD shall be discharged to saline zone of Ulhas creek through Waldhuni Nalla through closed pipeline at disposal point suggested by NIO and 3000 CMD 100% recycled for secondary purposes
2.	Domestic effluent	1500	As per Schedule - I	Total domestic effluent qty 1500 CMD [ 1200 Colony + 300 CMD Industry) out of that 1200 CMD effluent disposed in to sewerage system provided by Local body and 300 CMD Discharge along with the trade effluent after treatment in ETP to saline zone of Ulhas creek through Waldhuni Nalla

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

<b>Sr No.</b>	<b>Stack No.</b>	<b>Description of stack / source</b>	<b>Number of Stack</b>	<b>Standards to be achieved</b>
1	S-1	Rayon Spinning	1	As per Schedule -II
2	S-2	Rayon Spinning	1	As per Schedule -II
3	S-3	Rayon Spinning	1	As per Schedule -II
4	S-9	Tyrecord and CSY Spinning	1	As per Schedule -II
5	S-10	Tyrecord and CSY Spinning	1	As per Schedule -II
6	S-11	Tyrecord and CSY Spinning	1	As per Schedule -II
7	S-4	Rayon Spinbath	1	As per Schedule -II
8	S-5	Acid Plant-1	1	As per Schedule -II
9	S-6	Acid Plant-2	1	As per Schedule -II
10	S-7	CS2 Plant	1	As per Schedule -II
11	S-8	Scrubber	1	As per Schedule -II
12	S-12	Boiler No.5 (Standby)	1	As per Schedule -II
13	S-13	Boiler 6 (Standby)	1	As per Schedule -II
14	S-14	AFBC Boiler no 7- Co-generation	1	As per Schedule -II
15	S-15	Boiler No. 8 (Standby for AFBC Boiler)- Co-generation	1	As per Schedule -II

<b>Sr No.</b>	<b>Stack No.</b>	<b>Description of stack / source</b>	<b>Number of Stack</b>	<b>Standards to be achieved</b>
16	S-16	DG Set 1 & 2 (Standby)	1	As per Schedule -II

**6. Non-Hazardous Wastes:**

<b>Sr No</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>UoM</b>	<b>Treatment</b>	<b>Disposal</b>
1	Dry Viscose, Trash Sweeping waste cellulose from Rayon & TC Plant, Civil Debris, Burnt Charcol	7500	MT/A	NA	Separate area is earmarked for disposal
2	Yarn Waste	800	MT/A	NA	Sold to vendor
3	Cinder ash & Fly ash	34000	MT/A	Sale	Sale to Brick Manufacturer
4	Bio Sludge	250	MT/A	NA	Burnt in Boiler/ Manure/ Landfill on own occupier Land

**7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:**

<b>Sr No</b>	<b>Category No./ Type</b>	<b>Quantity</b>	<b>UoM</b>	<b>Treatment</b>	<b>Disposal</b>
1	35.3 Chemical sludge from waste water treatment	4500	MT/A	Incineration/ Coprocessing	CHWTSDf/Coprocessor
2	Sulphur waste SCH-II Note 7, Sr.no.37	250	MT/A	Landfill/ Incineration/ Recycle*	Sale to authorised party / CHWTSDf
3	17.2 Spent catalyst	12	MT/A	Landfill/ Recycle*/ Incineration/Coprocessing	CHWTSDf/Coprocessor
4	5.1 Used or spent oil	75	MT/A	Recycle	Sale to authorised party
5	5.2 Wastes or residues containing oil	100	MT/A	Recycle	Sale to authorised party
6	33.2 Contaminated cotton rags or other cleaning materials	35	MT/A	Incineration/ Coprocessing	CHWTSDf/Coprocessor

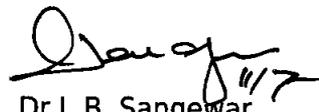
Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
7	33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1500	MT/A	Recycle	Sale to authorised party
8	35.2 Spent ion exchange resin containing toxic metals	15	MT/A	Landfill	CHWTSDF
9	Sodium Sulphide (100% Dry basis)	1870	MT/A	Recycle*	Sale to authorised party

**\* Sale to Authorized Party having permission under Rule 9 of H&OW Rule**

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. The applicant shall not carry out excess production or produce new product without Consent to Operate of the Board and without obtaining Environmental Clearance, wherever it requires
11. The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)
12. Industry shall operate flow meter to monitor qty of treated effluent, recycled back in the process/ utilities. They shall operate continuous on line monitoring system for the parameters pH, BOD and flow.
13. The consent is granted without the prejudice of the order passed or being passed by Hon'ble NGT and Hon'ble High Court.
14. The applicant shall comply conditions stipulated in Environmental Clearance granted by Ministry of Environment, Forest and Climate Change vide letter dated J-11011 / 415 /2014/1A-II(I) dated 31.10.2016.
15. The applicant shall carry out study about effluent disposal point, into the Ulhas Creek through Waldhuni Nalla through closed pipeline, from NIO within a year and ensure compliance as per their suggestion.
16. Industry has provided a separate sewage treatment plant for treatment of sewage generated from colony and achieve standards as suspended solids- 100 mg/l, BOD- 30 mg/ l. The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be used on land for gardening and connect to local body sewer line by achieving above consented standards and obtaining necessary permissions of the local body.
17. This consent is issued as per the minutes of Committee constituted for classification of waste/material dated 12/8/2022

18. This consent is issued as per the minutes of Consent Appraisal Committee meeting held on 03/7/2023
- This consent is issued as per communication letter dated 03/11/2022 which is approved by competent authority of the board.

For and on behalf of the  
Maharashtra Pollution Control Board.

  
Dr J. B. Sangewar  
Joint Director (WPC)  
& incharge Of CAC-Cell 

**Received Consent fee of -**

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	3713122.00	MPCB-DR-7417	09/08/2021	NEFT
2	241109.00	TXN2110000057	01/10/2021	Online Payment
3	70.00	TXN2203003540	25/03/2022	Online Payment
4	70.00	TXN2203003540	25/03/2022	Online Payment

**Balance consent fee of Rs. 3823149/- as mentioned in the existing consent to operate granted vide dated 17/3/2020 is considered in this renewal and there is no balance consent fee is now pending with the Board.**

**Copy to:**

1. Regional Officer, MPCB, Kalyan and Sub-Regional Officer, MPCB, Kalyan II  
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. The balance consent fees of Rs. with the Board will be considered at the time of next renewal of consent

### SCHEDULE-I

#### **Terms & conditions for compliance of Water Pollution Control:**

1. A) As per your application, you have provided Effluent Treatment Plant (ETP) of designed capacity of 16000.00 CMD consisting of Primary (Collection tank, Neutralization tank, Equalization tank, Flash mixer, Primary Clarifier/Primary Settling Tank), Secondary (MBBR), Tertiary (Pressure sand filter) for the treatment of 15000 CMD of trade effluent.
- B) The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

<b>Sr.No</b>	<b>Parameters</b>	<b>Limiting concentration not to exceed in mg/l, except for pH</b>
(1)	pH	5.5 to 8.5
(2)	Oil & Grease	10
(3)	BOD (3 days 27°C )	30
(4)	Total Suspended solids	100
(5)	COD	250
(6)	Zinc	5.0

- C) The Industry shall ensure connectivity online monitoring system to the MPCB server including separate energy meter for pollution control system.
  - D) The treated effluent (3000 CMD) shall be recycled for secondary purposes and remaining shall be discharged to saline zone of Ulhas creek through Waldhuni Nalla through closed pipeline at disposal point suggested by NIO by achieving above consented standards
2. A) As per your application, primary treated sewage connected to Effluent Treatment Plant for further treatment & disposal.
  - B) Industry shall comply prescribed standards & disposal path as prescribed at Sr. No. 1 B & C of schedule I.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
  4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	2000.00
2.	Domestic purpose	2318.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	14658.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

Domestic Water Consumption (Industry- 500 CMD + Colony- 1818 CMD)

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

#### **SCHEDULE-II**

#### **Terms & conditions for compliance of Air Pollution Control:**

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/prop osed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant Standard	
S-1	Rayon Spinning	Air Washer with exhaust fan	45.72	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S-2	Rayon Spinning	Air Washer with exhaust fan	61.00	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S-3	Rayon Spinning	Air Washer with exhaust fan	61.00	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S - 9	TC & CSY Spinning	Air Washer with exhaust fan	53.00	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant Standard	
S - 10	TC & CSY Spinning	Air Washer with exhaust fan	41.50	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S - 11	CSY Spinning	Air Washer with exhaust fan	41.50	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S - 4	Rayon Spinbath	Exhaust Fan	27.00	0 0 -- NA--	-	H2S	70 Mg/Nm <sup>3</sup>
						CS2	300 Mg/Nm <sup>3</sup>
S - 5	Acid Plant - I	Scrubber	41.15	0 0 -- NA--	-	Acid Mist	50 Mg/Nm <sup>3</sup>
S - 6	Acid Plant - II	Scrubber	41.15	0 0 -- NA--	-	Acid Mist	50 Mg/Nm <sup>3</sup>
S - 7	CS2 Plant	Chiller, CS2 & H2S Scrubber	32.00	0 0 -- NA--	-	---	-
S - 8	CS2 Plant Scrubber	Scrubber	16.38	0 0 -- NA--	-	---	-
S - 12	Boiler No. 5 ( Standby )	Stack	30.70	LSHS 80 MT/Day	1.0	TPM	150 Mg/Nm <sup>3</sup>
						SO2	1600 Kg/Day
S - 13	Boiler No 6 ( Standby )	Stack	30.70	LSHS 80 MT/Day	1.0	TPM	150 Mg/Nm <sup>3</sup>
						SO2	1600 Kg/Day
S - 14	AFBC Boiler No. 7 - Co-generation	Fabric Bag Filter ESP	57.50	Coal / Charcoal Churi 266 MT/Day	1.0	TPM	150 Mg/Nm <sup>3</sup>
						SO2	5320 Kg/Day
S - 15	Boiler No 8 ( Standby - Co-generation)	Fabric Bag Filter ESP	50.00	Coal / Charcoal Churi 266 MT/Day	1.0	TPM	150 Mg/Nm <sup>3</sup>
						SO2	5320 Kg/Day
S - 16	DG Set 1, 2 & 3 ( Standby )	WHRB	70.00	LSHS / HSD 80 MT/Day	1.0	SO2	1600 Kg/Day
						NOx	100 PPM

SO2 emission from S-5 & S-6: 3.5 Kg/T/Concentrated H2SO4 [100%] produced

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

**SCHEDULE-III**  
**Details of Bank Guarantees:**

<b>Sr. No.</b>	<b>Consent(C2E/C2O/C2R)</b>	<b>Amt of BG Imposed</b>	<b>Submission Period</b>	<b>Purpose of BG</b>	<b>Compliance Period</b>	<b>Validity Date</b>
1	C to R	25 Lakh	Existing	Towards operation and maintenance of pollution control systems and compliances of the consent conditions.	30/9/2023	31/3/2024

\*\* The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.

# Existing BG obtained for above purpose if any may be extended for period of validity as above.

**BG Forfeiture History**

<b>Srno.</b>	<b>Consent (C2E/C2O/C2R)</b>	<b>Amount of BG imposed</b>	<b>Submission Period</b>	<b>Purpose of BG</b>	<b>Amount of BG Forfeiture</b>	<b>Reason of BG Forfeiture</b>
NA						

**BG Return details**

<b>Srno.</b>	<b>Consent (C2E/C2O/C2R)</b>	<b>BG imposed</b>	<b>Purpose of BG</b>	<b>Amount of BG Returned</b>
NA				

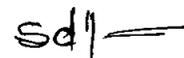
**SCHEDULE-IV**  
**General Conditions:**

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
  - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
  - f) D.G. Set shall be operated only in case of power failure.
  - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.

12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website ([www.mpcb.gov.in](http://www.mpcb.gov.in)).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the  
Maharashtra Pollution Control Board.



Dr J. B. Sangewar  
Joint Director (WPC)  
& incharge Of CAC-Cell



सत्यमेव जयते

J-11011/415/2014-IA II (I)

Government of India

Ministry of Environment, Forest and Climate Change  
(I.A. Division)

Indira Paryavaran Bhawan  
Aliganj, Jorbagh Road  
New Delhi - 110 003  
E-mail : [lk.bokolia@nic.in](mailto:lk.bokolia@nic.in)  
Telefax : 011: 24695313  
Dated: 31<sup>st</sup> October, 2016

To,

Shri S.A.Luthra  
Joint President (Century Chemicals & Safety)  
M/s Century Textiles and Industries Ltd.  
Industry House 159, Churchgate Reclamation,  
Mumbai-400020

**Subject: Expansion of Viscous Filament rayon (25000 TPA to 30000 TPA) at P.B. no 22, Murbad Road, Village Shahad, Tehsil Ulhasnagar, district Thane, Maharashtra by M/s Century Textiles and Industries Ltd - Environmental Clearance reg.**

**Ref.: Your online proposal no. IA/MH/IND2/52300/2014 dated 3<sup>rd</sup> May, 2016.**

Sir,

This has reference to your online proposal no IA/MH/IND2/52300/2014 dated 3<sup>rd</sup> May, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Expansion of Viscous Filament rayon (25000 TPA to 30000 TPA) at P.B. no 22, Murbad Road, Village Shahad, Tehsil Ulhasnagar, district Thane, Maharashtra by M/s Century Textiles and Industries Ltd. Total existing plot area is 37500 m<sup>2</sup>. No additional land will be acquired for proposed expansion. Out of which, 33% area is earmarked for greenbelt. Total cost of project is 125 crore, of which Rs. 7.0 crore and Rs. 1.6 Crore/ Annum are earmarked towards capital cost and recurring cost per annum for implementation of EMP. It is reported that no National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger/Elephant reserve, Protected forests and other environmental sensitivity exist within 10 km radius. River Ulhas is flowing about 1.2 km from the project site and Kalu River is flowing at a distance of 4.5 Km. Following products will be manufactured;

Sl. No.	Product Name	Existing Quantity (MT/A).	Proposed Additional Quantity (MTPA)	Total (MTPA)
1	Viscose Filament Rayon Yarn	25,000	5000	30,000

2	CS <sub>2</sub>	20,000	--	20,000
3	Sulphuric Acid	76,000	--	76,000
4	(By-Product) Anhydrous Sulphate	16272		19,350

Capacity of Captive Power Plant will be 18 MW. Steam requirement will be 180 MTPD)

3.0 ESP has been provided to existing coal fired boiler to control particulate emissions. Bagfilter and cyclone separator have been provided to coal crushing plant. Alkali scrubber and mist eliminator have been provided to existing sulphuric acid plant. Air washer and air exhaust system have been connected to stack. Power requirement will meet from Maharashtra State Electricity Distribution Company Limited (MSEDCL) and capacity of Captive Power Plant will be increased from 24.6 MW to 26.2 MW. Sulphuric Acid Plants have been provided with DCDA system in order to avoid gas nuisance. A scrubbing system has been provided in the CS<sub>2</sub> so that the gases get scrubbed before going to the atmosphere. Total water requirement will be increased from 15,500 m<sup>3</sup>/day to 19,550 m<sup>3</sup>/day after expansion. Out of which, fresh water requirement from Ullas River will be 17,550 m<sup>3</sup>/day and balance water requirement (2,000 m<sup>3</sup>/day) will be met from recycled/treated effluent. The total wastewater generation after proposed expansion will be 15585 m<sup>3</sup>/day. The capacity of existing installed ETP is 16,000 m<sup>3</sup>/day which is sufficient to treat the increased effluent quantity. Treated effluent will be discharged to the Saline zone of Ulhas Creek through existing pipeline. Fish pond will be constructed in the close vicinity of Effluent Treatment Plant of which Bioassay tests will be conducted which will analyze the survival rate and health of fishes. Yarn waste will be sold to registered vendors. Fly Ash and Bottom Ash will be sent to brick manufacturers. Sulphur Waste is sent to CHWTSDF of M/s. Mumbai Waste Management Limited, Talaja, Dist. Thane (Maharashtra). The Committee suggested them to send spent Vanadium Pentoxide catalyst to the authorized recyclers. Effluent from VFY plant having high concentration of trace element i.e. Zinc is passed through Zinc equalization tank and then pumped to Clariflocculator tank where pH is maintained between 9 to 11 to separate out zinc from effluent. Finally, after concentration of Sludge in decanter, the treated sludge is sent to CHWTSDF of M/s. Mumbai Waste Management Limited, Talaja, Dist. Thane (Maharashtra). Waste heat recovery boiler have been installed to recover waste heat from sulphuric acid plant.

4.0 Public Hearing / Public Consultation meeting was conducted on 13<sup>th</sup> January, 2016.

5.0 All Rayon manufacturing unit are listed at S.N. 5 (d) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 9<sup>th</sup> meetings held during 27<sup>th</sup>-28<sup>th</sup> June, 2016. Project Proponent and the EIA Consultant namely M/s J M Environet Pvt. Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

MS

**A. SPECIFIC CONDITIONS:**

- i) ESP and adequate stack height shall be provided to coal fired boiler to control the air emissions within the limit stipulated by CPCB. Low NOx burner shall be provided in Captive Co-generation Power Plant to reduce the NOx emissions.
- ii) The gaseous emissions (SO<sub>2</sub>, NOx, CS<sub>2</sub>, H<sub>2</sub>S, CO, HC) and particulate matter from process and CPP units shall conform to the norms prescribed by the CPCB/GPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- iii) Continuous gaseous emission monitoring system (24x7) should be installed to measure SO<sub>2</sub>, NOx and Particulate from the CPP stacks and SO<sub>2</sub>, CS<sub>2</sub> and H<sub>2</sub>S from process plant stacks.
- iv) The Company shall make the effort to clean exhaust containing CS<sub>2</sub> and H<sub>2</sub>S gas from rayon plant by adopting state of art technology.
- v) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/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 emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.
- vi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- vii) Total fresh water requirement from Ullas River should not exceed 17,550 m<sup>3</sup>/day and prior permission shall be obtained from the concerned Authority. No ground water should be used. Efforts should be made to reduce the fresh water requirement by adopting 3 R's (Reduce, Reuse and Recycle) concept.
- viii) Total industrial wastewater generation shall not exceed 15585 m<sup>3</sup>/day. As proposed, effluent should be treated in the effluent treatment plant. Treated effluent shall be discharged into conveyance system for marine disposal after conforming to the standards prescribed for marine discharge norms and obtaining permission from the SPCB. Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flowmeter should be installed. No process effluent shall be discharged in and around the project site. Sewage should be treated in STP. The water quality monitoring report for treated effluent should be submitted to the CPCB and Ministry's regional Office at Nagpur.
- ix) As proposed, effluent recycling RO plant shall be installed to produce 2000 m<sup>3</sup>/day recycle water. Efforts shall be made for recovery of sodium thiosulphate.
- x) Treated effluent should be passed through guard pond. Online pH meter, flow meter and TOC analyzer should be installed. Sulphide contents in the effluent should also be monitored.

- xi) Fish pond will be constructed in the close vicinity of Effluent Treatment Plant of which Bioassay tests will be conducted which will analyze the survival rate and health of fishes.
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xiii) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. A copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Nagpur.
- xiv) Efforts shall be made for recovery of Zinc from the Zinc sludge. The Company shall conduct study in association with reputed Institution. Action taken report shall be submitted to the Regional Office of MoEF&CC and CPCB.
- xv) 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.
- xvi) All the recommendations mentioned in the Environmental Management Plan, Rapid Risk Assessment Report, Disaster Management Plan and safety guidelines shall be implemented.
- xvii) Boiler ash should be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided.
- xviii) All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008.
- xix) Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.
- xx) Dedicated parking facility for loading and unloading of material should be provided in the factory premises. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxi) As proposed, green belt over 33 % of the total project area should be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xxii) All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 13<sup>th</sup> January, 2016 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Nagpur.

- xxiii) As proposed, Rs 4.88 Crore shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra State Pollution Control Board (MPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the SPCB and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. During transfer of materials, spillages shall be avoided and gullies drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report 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.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.

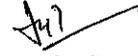
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- 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 State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- 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 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 Lucknow Regional Offices of MoEF by e-mail.
- 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 <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- 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.

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

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

10.0 The above conditions will be enforced, inter-alia 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 Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



**(Lalit Bokolia)**  
**Additional Director**

**Copy to :-**

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Additional Principal Chief Conservator of Forests, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, Nagpur.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.



**(Lalit Bokolia)**  
**Additional Director**

