

GRASIM/ENV/ /2024 13th May 2024

To, Integrated Regional Office (IRO) A-Wing - 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhinagar - 382010

Kind Attention: Dr. Yogesh Kumar

Sub. : Compliance Status of Environmental Clearances accorded by Ministry of Environment, Forests & Climate Change, Government of India, New Delhi

Ref. : 1. MoEF Letter No. J-11012/25/95-IA. II (I) dated 19.06.1995 & Amendment dated 31.08.1998

 MoEF Letter No. J-11011/445/2008-IA. II (I) dated 18.07.2008 MoEF Letter No. J-11011/382/2008-IA. II (I) dated 02.08.2011

 MoEF Letter No. 11-80/2008-IA.III dated 20.10.2008 MoEF Letter No. 11-80/2008-IA.III (Part - II) dated 07.12.2009

MoEF& CC Letter No. J-11011/343/2013-IA II (I) dated 22.06.2015

Respected Sir,

This is in reference to above mentioned letters received from MoEF&CC, please note that we are complying all stipulated condition. We are attaching herewith the descriptive reports on status of compliance to conditions of Environmental Clearance and Environmental Management for the period 1st October 2023 to 31st March 2024 as Annexure - A.

We hope you will find the above in order.

Yours Faithfully,

For Grasim-Industries Limited; Unit - Indian Rayon

Unit Head

The Regional Officer **Gujarat Pollution Control Board** Pankaj Vikas Bunglow Opposite Saint Annes Church Station Road

Junagadh - 362001

Central Pollution Control Board Zonal Office (West), Parivesh Bhawan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10,

Subhanpura, Vadodara - 390023

The Director Forest and Environment Department Block No. 14, 8th floor Sachivalaya Gandhinagar - 382010





ANNEXURE-A

DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENTAL CLEARANCES AND ENVIRONMENTAL MANAGEMENT

A. As per Letter No. J-11011/343/2013-IA II (I) dated 22nd June, 2015 by MoEF & CC for Proposed Expansion of Viscose Filament Yarn (1650 to 2400 MTPM), Sodium Sulphate (Na₂SO₄) Plant (2050 to 2350 MTPM), Captive Power Plant (34.5 to 54.5 MW) along with Installation of Sodium Sulphite (Na₂SO₃) Plant (3000 MTPM) & Liquid Sulphur Dioxide (SO₂) Plant (1500 MTPM).

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i.	ESP and adequate stack height shall be provided to coal fired boiler to control air emissions within the limit stipulated by CPCB and GPCB. Low NO _X burner shall be provided in captive Co-generation power plant to reduce the NO _X emissions.	The Existing CPP (Boiler 1 & 2) based on CFBC technology is installed with three nos. of 3 field Electrostatic Precipitator (ESP) to control particulate emissions. The Existing CPP Boiler 3 has been provided with additional Electrostatic precipitator i.e. four field ESP in the month of January 2023. Opacity meter has also been installed for Continuous PM Emission Monitoring.
		Adequate stack height of 122 m (each) for stack no 1 attached to Boiler No.1 & 2 and stack 2 attached to Boiler 3 & 5 is maintained as per CPCB Standard to control air emission within the limit stipulated by CPCB & GPCB.
		The Boiler No. 5 (CFBC technology) has been commenced in May 2022. The connection of Boiler No. 5 hooks up with existing chimney attached to Boiler No.3. The Boiler 5 is equipped with 4 field Electrostatic Precipitator to control particulate emission.
		The unit has been granted Renewal of CC&A <i>vide</i> letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028 The Amendment of CC&A has been granted <i>vide</i> letter no GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028. The said CCA attached as <i>Annexure-I</i> .
ii.	The gaseous emissions (SO ₂ , NOx, CS ₂ , H ₂ S, CO, HC) and particulate matter from process and CPP units shall confirm 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	The existing Chlor-Alkali plant is installed with Online Continuous Emission analyzer for parameter Cl ₂ and HCl in Hypo and HCl Stack respectively. Similarly, Online Continuous Emission Monitoring System have been installed for Parameter Particulate Matter PM, SO ₂ , NOx for both the Old and New Power Plant and data w.r.t. all above mentioned parameter has been transmitted to GPCB and CPCB server. The unit has installed Online Continuous Emission Monitoring System for parameter SO ₂ at both the Sulphuric Acid Plant.

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	desired efficiency. Continuous emission monitoring system (CEMS) should be installed to measure SO ₂ , NOx and particulate from the CPP stack and SO ₂ , CS ₂ and H ₂ S from process plant stacks.	We have installed total 6 nos. of SO_2 sensor, 6 nos. of CS_2 sensor, 3 nos. of H_2S sensor in and around CS_2 plant to indicate the Work Zone concentration of CS_2 , SO_2 & H_2S gas. In addition, we have installed Online Continuous Emission Monitoring System for parameter CS_2 & H_2S for both Rayon Stack.
		We have also installed 47 Nos. of Chlorine Sensors in our Caustic Soda Plant and other location in plant which are inter-connected to the Distributed Control System through which whole lot of manufacturing process are carried out. Also we have installed 15 Nos. of hydrogen sensors for monitoring which are hooked up with DCS for onsite hydrogen handling area in Caustic Soda Plant. The gaseous emission from process stacks conform to the
		standard as per prescribed by GPCB/CPCB. The reports are submitted to GPCB every month and Six monthly reports are being submitted to Integrated Regional Office (IRO), Gandhinagar. Copy of the Stack monitoring results are attached as <i>Annexure – II</i> .
		Apart from above, stack monitoring, AAQ and Treated Effluent Analysis results performed by NABL (QCI) accredited laboratory namely "Kadam Environmental consultants" Vadodara, results of which are attached as <i>Annexure – III</i> .
iii.	Exhaust containing CS ₂ and H ₂ S gas from rayon plant shall be passed through scrubber.	H ₂ S gas is scrubbed with Caustic Soda in two stage absorption system to recover Sodium Sulphide. The gaseous emission from the Carbon di-Sulphide plant in the form of CS ₂ are recovered by condenser. Exhaust gas containing CS ₂ & H ₂ S gas is controlled by supplying humidified air through Air Washers continuously. The exhausting dilute gases through 2 Nos. of process stack and the emission level of both CS ₂ & H ₂ S concentration is maintained within permissible limit.
		The project will be expanded in three phases within 10 years for which EC & CTE have been granted.
		Phase-1: We have been granted Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar for enhancing VFY production from 1650 MTPM to 1950 MTPM <i>vide</i> letter no. GPCB/CCA/JNG-1(23)/ID17239/345269 dated 12.02.2016. We have been granted a renewed CC&A No. GPCB/ID-

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		17239/CCA/JNG-1 (27) for which Consent order number is. AWH -92560 Date of issue: 23/04/2018. For enhancing VFY production, 12 New Machines has been installed in the month of May 2022. The existing pollution control facilities are adequate to maintain the stipulated norms by GPCB.
		Phase -2: In order to further increase the production of Captive Power Plant capacity from 34.5 MW to 54.5 MW within the existing plant premises, amendment of Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar has been granted through <i>vide</i> letter no. GPCB/CCA/JNG-1(34)/ID-17239/682802 issued on 12.09.2022. Further, correction to Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar has been granted through <i>vide</i> letter no. GPCB/CCA/JNG-1(34)/ID-17239/753418 issued on 16.09.2023.
		The unit has been granted Renewal of CC&A <i>vide</i> letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028 The Amendment of CC&A has been granted <i>vide</i> letter no GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028.
		Phase – 3: In order to further increase the production of Viscose Filament Yarn (1950 MTPM to 2400 MTPM), Sodium Sulphate (Na₂SO₄) Plant (2050 to 2350 MTPM), new product Sodium Sulphite (Na₂SO₃) Plant (3000 MTPM) and Liquid Sulphur Dioxide (SO₂) Plant (1500 MTPM) within the existing plant premises, we shall seek approval for CTO from GPCB prior to production.
		During the commissioning of phase- 3, concentration of CS_2 & H_2S in process gas shall remain within permissible limit by the application of similar facilities.
iv.	Ambient Air Quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R. No 826 (E) dated 16 th September, 2009. The levels of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO, CS ₂ , H ₂ S, HCl, VOCs and methane and non-methane HC shall be monitored in the ambient air and displayed	Four Nos. of AAQ stations are installed and ambient air quality is being measured for parameters such as PM ₁₀ , PM _{2.5} , SO _x , NO _x , CS ₂ , H ₂ S, HCl, and Cl ₂ . Location of AAQ Stations are finalized after consultation with GPCB officials. Copy of the AAQ monitoring results from October 2023 to March 2024 are attached as Annexure – IV .
	at a convenient location near the main gate of the company and at important public places. The company shall upload the	The AAQ results are being displayed in main gate and the same is being updated regularly. The AAQ results are being

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	results of monitored data on its website and shall update the same periodically, it shall simultaneously be sent to the Regional office of MoEF, the respective Zonal office of CPCB and GPCB	uploaded in our website (http:// www.grasim.com/sustainability.aspx) regularly. Simultaneously, the same AAQ results are sent to all the statutory authority. Apart from above, Ambient Air Quality monitoring is performed by GPCB approved Environmental Auditor Namely R K University, Rajkot.
		Further, out of four, we have installed Three nos. of online Continuous Ambient Air Quality Monitoring System (CAAQMS) inside the plant premises i.e. over Rooftop of our Rayon Administrative Building, over rooftop of Caustic Soda Administrative Building & Guest House Building. Online Data from these stations are being transmitted to GPCB server. In addition, AAQ and Treated Effluent Results are being displayed over digital interface at our Main gate.
v.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emission 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 emission shall confirm to the limits stipulated by the GPCB.	 We have taken adequate preventive measures in all potential fugitive emission generating points such as coal handling point, transfer point etc. to control fugitive emission. The arrangements are as below: Coal is being kept in a covered shed and it is being transferred to Coal Bunker through encased conveyor Belt system to prevent fugitive dust emissions. Bag Filters & Cyclone Separator (Mechanical dust collector) with Coal fired boilers to control particulate emissions. Water sprinkler system in Coal Handling Plant to control fugitive emissions. Bag filters in Coal crushing unit Dry fog based Dust suppression system (114 Nos. Nozzles) provided in Coal Handling plant with investment of Rs. 30 Lacs to control of sub-micron particle of dust. Water sprinkler system in coal yard to control particulate emissions. Further, to improve the Ambient Air Quality, 26 Nos. of Rain Guns are provided for suppression of Coal Dust in Coal Storage & Handling Unit. Work environment is being monitored on continuous basis by chlorine sensors installed at different locations as per the requirement. CS₂ and H₂S are also being monitored with sensor and results are continuously monitored and

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		maintained and it is being reported to statutory Authority in Form No- 37.
vi.	The gaseous emission from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.	We have D.G Sets for emergency power back up having Stack Height as per GPCB Standards, which are as given below: 1 Nos. of D.G set (1500 KVA) (Stack Height = 30 m) 4 Nos. of D.G sets (750 KVA) (Stack Height = 11 m) The DG sets is provided with the acoustic enclosures to mitigate the noise.
vii.	Total fresh water requirement from Umrethi Dam supply should not exceed 15938 m³/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 3R's (Reduce, Reuse and Recycle) concept.	Agreed. Total fresh water requirement is met through Permeate from the Sea water and dam water supply and will be maintained within the limit as per stipulated condition. Unit has made efforts to reduce fresh Water consumption through water conservation measures such as 3R's (Reduce, Reuse and Recycle) and the same will be continued.
viii.	Total industrial wastewater generation shall not exceed 10540 m³/day. As proposed, effluent should be treated in effluent treatment plant. 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 GPCB. Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flow meter 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 Bhopal.	We have been granted Renewal of CC&A <i>vide</i> letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028 for generation of 12,322 m³/day of treated effluent. The Amendment of CC&A has been granted <i>vide</i> letter no GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028. Our wastewater generation will not exceed 10,540 m³/day. We have Effluent Treatment Plant (ETP) having adequate capacity and it will be adequate for treatment of wastewater. The installation of High rate solid contact clarifier-HRSCC for better performance is underway. The treated effluent is processed through guard pond. Thereafter it is being discharged into sea through pipeline having design discharge capacity of 15,000 m³/day into deep sea with diffuser system and same meets all parameters within the GPCB limits. Further, we have installed Online Continuous Effluent Monitoring system for pH, TSS, Temperature & Flow and the online data has been transmitted to GPCB/CPCB server. In addition to this, we have installed Sewage Treatment Plant of capacity 500 m³/day. However, we are generating

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		from STP is being utilized as source of make-up Water for cooling Towers & in Plantation.
		Copy of Treated Effluent Analysis report for the period from October 2023 to March 2024 is attached as <i>Annexure – V</i> .
		Apart from above, Treated Effluent Analysis is done by GPCB approved Environmental Auditor Namely R K University, Rajkot. Also, we have installed Online Continuous Emission Monitoring System for parameter TOC at site and it is in operation.
ix)	As proposed, effluent recycling RO plant shall be installed to produce 2000 m ³ /day recycle water. Efforts shall be made for recovery of sodium thio-sulphate.	We have installed 1000 m³/day Effluent recycle plant and Project of New ETP RO plant of Capacity 2000 m3/day is planned to be installed after completion of HRSCC. Efforts for recovery of Sodium thio-sulphate is noted.
x)	Treated effluent should be passed through guard pond. Online pH meter, TOC analyzer and flow meter should be installed. Sulphide contents in the effluent should also be monitored.	At present, treated effluent is processed through guard pond. Thereafter it is being discharged into sea through pipeline into deep sea having design capacity of 15,000 m³/day with diffuser system and same meets all parameters within the GPCB limits.
		Further, Online Continuous Effluent Monitoring system for pH, TSS, Temperature & Flow Meter have been installed in our ETP and the online data has been transmitted to GPCB/CPCB server.
		Sulphide concentration in effluent water is being regularly monitored.
		We have installed Online Continuous Emission Monitoring System for parameter TOC at site and it is in operation.
xi)	Process effluent/ any wastewater shall not be allowed to mix with storm water. Strom water drain shall be passed through guard pond.	The unit ensured & take all precautionary measures regularly to avoid mixing of both the streams (Storm & Process) which is done by formulating periodic schedule for cleaning of all Effluent Channel as well as storm channels which eliminate the possibility of chocking of the drains. The instructions are taken care by all the concerned departments / sections for implementation on continuous & regular basis.
xii)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Transboundary movement) Rules, 2008 and amendment as on date for management of hazardous waste and prior permission from	The unit has been granted with permission from GPCB for collection, storage and disposal of 18 No of Hazardous waste under the Hazardous Other Waste (Management & Trans-boundary movement) Rules, 2016 in CC&A Renewal vide letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028. The Amendment of CC&A has been granted vide letter no

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	GPCB 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 Bhopal.	GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028. Solid/Hazardous Waste Generated from the process is being disposed through GPCB approved TSDF/CHWIF with prior permission.
xiii)	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.	• The unit has been granted authorization for handling and storage of Hazardous waste, generated in the plant and relevant procedures are followed. The approvals from Chief Inspectorate of Factories, Gandhinagar, Chief Controller of Explosives, Nagpur and Fire Safety Inspectorate has been obtained.
		 We are complying with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000.
		 All transportation of hazardous chemicals is being done as per the Motor Vehicle Act (MVA), 1989 as registered vehicles are only used for transportation.
xiv)	All the recommendations mentioned in the Environment Management Plan, Rapid Risk Assessment Report, Disaster Management	 We have onsite Emergency plan and offsite Emergency plan having duly approved by Deputy –Director (Industrial Safety and Health), Government of Gujarat.
	Plan and safety guidelines shall be implemented.	 We are adhering to the recommendations mentioned in Environmental Management Plan & Rapid Risk Assessment Report. Moreover, we are also carrying out safety audit regularly and the report is submitted to various Government bodies.
		 We have adopted Aditya Birla Sustainability Framework for Safety System in VFY, CSP & CPP as the part of which we have Implemented 14 safety standards to maintain and improve work place safety culture.
		 Implemented Process Safety Management System to prevent process incidents and to prevent unexpected releases of toxic, reactive or flammable liquids and gases from processes of highly hazardous processes.
		 The Company is fully committed to the protection of the EHS as well as quality as it is evident from the adaption of Management Systems: ISO 14001:2015, ISO 9001:2015, ISO 45001:2018, SA 8000:2014, ISO/IEC 27001: 2013 & ISO 50001:2018 from reputed international agency TUV NORD.

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xv)	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.	The unit has installed Dry Fly ash collection facility in CPP. There are Four Silos with Bag Filter having total capacity of 1200 MT is available for storage of dry fly ash. We will uphold the existing facility for proposed fly ash generation. Appropriate PPE's are provided to the workers to avoid direct exposure to fly ash and dust.
xvi)	All the fly ash shall be utilized as per fly ash Notification, 1999 subsequently amended in 2003 and 2008.	Fly Ash generated from the CPP is 100 % Utilized in the cement plants as per the Fly Ash notification. Also note that, Annual Fly ash compliance along with the duly signed Standard Pro-forma provided by MoEF & CC, New Delhi as per Fly Ash Notification dated 31.12.2021 is submitted at your good office.
xvii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per norms.	Recommendations of Fire study & Risk Assessment is being implemented to prevent fire hazards. Routine Assessments are being done with implementation of Preventive measures and recommendations of the study. Fire safety measures is incorporated within factory premises. All the fire extinguishing media such as Water, dry chemicals, CO ₂ etc. are kept in vital locations. We have full-fledged hydrant system which will suffice to take care of an emergency in the plant. Mock drills are being carried out to train the workman to deal with emergency situation.
xviii)	Occupational health surveillance Program should be undertaken as regular exercise for all the employees. The first aid facility in the occupational health center should be strengthened and regular medical test records of each employee should be maintained separately.	 Occupational health surveillance Program are undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational Health Centre are strengthened and the medical records of each employee have been maintained separately.
xix)	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 take care the transporting 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.

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xx)	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 side etc. selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	 We have developed 33.64 % of plant area viz. Rayon, Power Plant and Caustic Soda Plant into Green belt with local species. There are 129047 nos. existing trees as on 31st March 2024. Besides above 1.147-acre area is used/developed with lawn (Hariyali). Total 10.3 Km length of hedges are planted and maintained. Plant Area breakup: Plant Boundary: 176.26 acre Green Belt Area: 59.31 acre (33.64% of total area) Open Area: 50.66 acre Although we have already achieved the 33% of area covered under Green belt but still we are carrying out plantation during onset of monsoon every year. For the year 2023-24, we have planted 2858 nos. of sapling till 31st March, 2024. Development of Biodiversity Park using the Miyawaki Plantation Technique. The Sapling were planted on 14th October 2023 at Raysil Heights colony of Indian Rayon, Veraval within the area of 450 sq. m. with 62 different species.
xxi)	All the commitments made to the public during public hearing/Public consultation meeting held on 4 th October, 2014 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 Bhopal.	All the comments raised during public hearing/ consultation was noted and detailed Action Plan and Budgetary Allocation is earmarked to satisfactorily implement the same. The aforesaid report has been submitted to your good office.
xxii)	The company shall submit within three months their policy towards Corporate Environmental Responsibility which should inter-alia address (i) standard operating process/procedure to being into focus any infringement/ deviation/ violation of environmental or forest norms. Conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) system of reporting of non- compliance/ violation environmental norms to the Board of Directors of the	Complied. The unit have ensured their environmental responsibility through adoption of Environmental policy in line with the Corporate Environmental Policy featuring all the attributes delineated in the condition. Also we would like to mention that we are carrying out the Environmental Management in our unit in line with the formulated Policy.

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	company and/or stakeholders or shareholders.	
xxiii)	At least 5% of the total cost of the project (i.e. Rs. 43 Crore) 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.	Noted for Compliance. A separate budget has been earmarked for CSR/ESC activities. CSR/ESC activities is being carried out by IR Jan Seva Trust. CSR Report for the period October 2023 to March 2024 is attached as Annexure – VI.
xxiv)	Provision shall be made for the housing for the construction Labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Noted We will provide the basic amenities to the construction workers within the site.
General	Condition	L
i)	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any other statutory authority.	Presently, we are complying all the conditions given by Gujarat State Pollution Control Board, State Government 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.	Noted The unit have received the Environmental Clearance for Expansion of Viscose Filament Yarn (1650 to 2400 MTPM), Sodium Sulphate (Na ₂ SO ₄) Plant (2050 to 2350 MTPM), Captive Power Plant (34.5 to 54.5 MW) along with Installation of Sodium Sulphite (Na ₂ SO ₃) Plant (3000 MTPM) & Liquid Sulphur Dioxide (SO ₂) Plant (1500 MTPM) from Ministry of Environment, Forests & Climate Change, New Delhi vide letter no. J-11011/343/2013-IA II (I) dated 22 nd June, 2015. We have been granted amendment in CTE/NOC from Gujarat Pollution Control Board for Expansion of

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		production Capacity of Viscose Filament Yarn & other products as prescribed in Environmental Clearance of Expansion Project Vide Order No. GPCB/CCA/JNG-1(21)/ID17239/332587 dated 10.11.2015 and corrigendum in Amendment vide Order No. GPCB/CCA/JNG-1(23)/ID17239/342712 dated 25.01.2016. Further, we have been Granted CTE-Extension by GPCB, Gandhinagar vide CTE Order No. 118896 dated 23.05.2022 valid up to 21.06.2025.
		We have been granted Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar for enhancing VFY production from 1650 MTPM to 1950 MTPM vide letter no. GPCB/CCA/JNG-1(23)/ID17239/345269 dated 12 th February 2016.
		We have been granted a renewed CC&A No. GPCB/ID-17239/CCA/JNG-1 (27)/453902 dated: 03.05.2018.
		We have been granted with Consolidated Consent and Authorization (CCA) Amendment from GPCB, Gandhinagar for increasing Captive Power Plant capacity from 34.5 MW to 54.5 MW through vide letter no. GPCB/CCA/JNG-1(34)/ID-17239/682802 issued on 12.09.2022 and correction to Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar has been granted through vide letter no. GPCB/CCA/JNG-1(34)/ID-17239/753418 issued on 16.09.2023.
		Further, the unit has been granted with permission from GPCB for collection, storage and disposal of 18 No of Hazardous waste under the Hazardous Other Waste (Management & Trans-boundary movement) Rules, 2016 in CC&A Renewal vide letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028. The Amendment of CC&A has been granted vide letter no GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028.
iii)	The National Ambient Air Quality Emission standards issued by the Ministry vide G.S.R. No 826 (E) dated 16 th September, 2009 shall be complied.	Noted
iv)	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	Four Nos. of AAQ stations are installed and ambient air quality is being measured for parameters such as PM_{10} , $PM_{2.5}$, SO_X , NO_X , CS_2 , H_2S , HCl , and Cl_2 . Location of AAQ Stations are finalized after consultation with GPCB officials.

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	that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We have installed Three nos. of online Continuous Ambient Air Quality Monitoring System (CAAQMS) over Rooftop of our Rayon Administrative Building, over rooftop of Caustic Soda Administrative Building & Guest House Building.
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 EPA Rules, 1989 viz. 75 dB (A) (day time) and 70 dB (A) (night time).	Adequate measures are taken to provide earmuffs/ earplugs for persons working in noisy areas. All the places where practicable silencers are provided to the equipment's like compressors, Blowers etc. We are regularly monitoring Noise Level at Ambient Air and also in Work Zone.
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 for the process activities of the project to conserve fresh water.	All efforts for rain water harvesting are being taken. Due to high water table in area further recharging is not possible. However, separate storm water drains are provided to prevent flooding by discharging into Devka River. In addition to this, we have also developed watershed development recharge pits in the several villages falling under 10 km of radius of Study area, resulting into rise in water level in nearby areas.
vii)	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.	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.
viii)	Usage of personnel protective Equipment's (PPE's) by all employees/workers shall be ensured.	All employees/Workers are provided with Personnel Protective Equipment's based on the work place hazards.
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 covering all aspect in condition.
x)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding areas. CSR	We actively participate in activities meant for improving Socio-economic conditions of surrounding.

Sr. No.	Conditions	Reply to Stipulated Conditions
	activities shall be undertaken by involving local villages and administration.	
xi)	The company shall undertake eco- developmental measures including community welfare measures in the project area of the overall improvement of the environment.	Noted
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 Corporate Environment Management structure which reports to the Office of the Chairman. Director of our Business monitors the environment management system and at the Unit Level President & Vice President leads Environment Management system. Qualified & Competent Engineers to maintain the aspects and implement Environment Management System effectively and ensure its continuous improvement. A well-equipped laboratory & dedicated EMC are established in the factory to regularly analyze & monitor the highly fragile eco-system of the complex. We are also monitoring ambient air apart from four stations. All the results are within the GPCB 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: a) President & Unit Head b) FH – VFY
		c) FH – Caustic & Power Plant d) DH – Environment, Safety & Sustainability e) DH – Civil f) Manager – ETP g) Engineer/ Officer – Environment & Sustainability h) Environmental Analyst i) DH – Estate, Fire & Security
хііі)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The	The policy of the company is that for any Environmental incidents there are no budget restrictions. However, a minimum amount of Rs. 40 to 50 Lacs earmarked on annual basis for environmental activities. This is besides expansion incurred for chemical consumption and strengthening of existing pollution control and monitoring equipment.

Sr. No.	Conditions	Reply to Stipulated Conditions
xiv)	funds so provided should not be diverted for any other purpose A Copy of clearance letter shall be sent by Project Proponent to the concerned panchayat/ Zila Parishad/ Municipal Corporations, Urban local body and the local NGO if any, from who suggestions/	Complied We have Intimated to Local Administration (District Collector/ Add. District Collector) about accordance of Environmental Clearance on 30.06.2015.
	representations, if any, were received while processing the proposal.	
xv)	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 email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	We are submitting the six monthly compliance report of stipulated EC conditions to your good office and GPCB in hardcopy and we are also uploading it on our website. Henceforth, we will be regularly submitting the same in the form of softcopy through Email. Kindly note that Aditya Birla Nuvo Limited have been amalgamated with Grasim Industries Limited w.e.f 1st July 2017. Therefore, now, our unit is called Grasim Industries Limited, Unit – Indian Rayon. We have intimated about the amalgamation to Pollution Control Authorities viz. The Director, IA Division (Industry - II), New Delhi, MoEF & CC, Western Regional Office, Bhopal, Zonal Officer, CPCB, Vadodara, GPCB, Gandhinagar, GPCB, Junagadh vide our Letter dated 22nd June 2017, 3rd July 2017 and 15th July 2017 respectively. Further, we have submitted notarized undertaking about
		change of company name only without increase in any production prospective to Unit Head – Junagadh, GPCB, Gandhinagar vide our Letter dated 9 th October 2017.
		We have incorporated a name change which has been included in our CC&A by GPCB [No: GPCB/ID -17239/ CCA - JNG -1(26)] and the same was informed to MoEF & CC through our letter dated 28.12.2017.
xvi)	The environmental statement for each financial year ending 31 st 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 e-mail.	We are regularly submitting the Environmental Statement to GPCB and uploading the same on our website. The same also sent to Regional Office, MoEF & CC. Henceforth, we will be regularly submitting the same in the form of softcopy through Email as well.

Sr. No.	Conditions	Reply to Stipulated Conditions
xvii)	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://www.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 should be forwarded to the Regional office.	Complied We have already intimated about the advertisement of accordance of Environmental Clearance with in stipulated time to your good office vide our letter no. ABNL/ENV/C3262/2015 dated 27 th June 2015 i.e. within 7 days' period.
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.	Noted for compliance. Moreover, we have been granted NOC/CTE dated 15 th September 2015 for aforesaid project. Further, we have been Granted CTE-Extension by GPCB, Gandhinagar vide CTE Order No. 118896 dated 23.05.2022 valid up to 21.06.2025.
		We have been granted with Consolidated Consent and Authorization (CCA) Amendment from GPCB, Gandhinagar for increasing Captive Power Plant capacity from 34.5 MW to 54.5 MW through vide letter no. GPCB/CCA/JNG-1(34)/ID-17239/682802 issued on 12.09.2022 and correction to Consolidated Consent and Authorization (CCA) from GPCB, Gandhinagar has been granted through vide letter no. GPCB/CCA/JNG-1(34)/ID-17239/753418 issued on 16.09.2023.
		Further, the unit has been granted with permission from GPCB for collection, storage and disposal of 18 No of Hazardous waste under the Hazardous Other Waste (Management & Trans-boundary movement) Rules, 2016 in CC&A Renewal vide letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated 03.01.2024, which is valid up to 31.12.2028. The Amendment of CC&A has been granted vide letter no GPCB/CCA/JNG-1(35)/ID-17239/784706 dated 23.02.2024, which is valid up to 31.12.2028.
8)	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We will implement all the conditions.
9)	The Ministry reserves the right to stipulate additional conditions, if found necessary.	We will comply any additional conditions may be imposed by your esteemed department from time to time.

GRASIM INDUSTRIES LIMITED, UNIT-INDIAN RAYON, VERAVAL

Sr. No.	Conditions	Reply to Stipulated Conditions
	The company in a time bound manner shall implement these conditions.	
10)	The above conditions will be enforced, interalia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	We are complying all the provisions under Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules. We are operating our Plant under statutory Consents & Clearances accorded from Gujarat Pollution Control Board, Gandhinagar and Ministry of Environment, Forests & Climate Change, New Delhi respectively.

B. As per EC Letter No. J-11011/445/2008 – IA.II (I), Dated: 18.07.2008 by MoEF & CC for Expansion Project for production of Viscose Filament Yarn from 1300 MTPM to 1650 MTPM & Caustic Soda production from 200 TPD to 400 TPD.

Sr. No.	Conditions	Reply to Stipulated Conditions
A. Spec	ific Conditions	
i.	The effluent generation shall not exceed 8540 m³/d. The effluent from the caustic soda plant and viscose filament rayon plant shall be treated in the company's own Common Effluent Treatment Plant and the treated effluent after conforming to the industry specific discharge standards shall be sent to sea creek. The domestic effluent shall be disposed of through septic tank soak pit	Being Complied
ii.	Process emissions from the caustic soda plant shall be scrubbed with alkali scrubber with efficiency of 95% at each stage. Bubble cap tray followed by packed bed scrubber with water as scrubber media shall be installed to control HCl emissions. Stack of adequate height for caustic soda plant and HCl synthesis unit shall be provided for dispersion of emission	Complied
iii.	The vent gases from Sodium hypochlorite plant and HCl acid plant shall be controlled at source by effective absorption system. Waste Chlorine gas shall be used in preparation of HCl. Bubble cap tray followed by packed bed scrubber with DM water shall be provided to scrub HCl gas mist and vapor. The vent gases shall be discharged from the stacks of adequate height for effective dispersion. On line chlorine monitors with DCS within Caustic Soda plant to monitor chlorine gas and on line hydrogen monitors with DCS shall be installed	Complied
iv.	Particulate emissions from the captive power plant and coal fired boiler shall be controlled by electrostatic precipitator and bag filters and emissions shall be	Complied

Sr.	0	Built to Site Land Site
No.	Conditions	Reply to Stipulated Conditions
	dispersed through stack of adequate	
	height. Particulate emissions shall conform	
	to the prescribed standards. For dispersion	
	of emissions from the DG set, stack height	
	as per CPCB standards shall be provided.	
	Emissions from the DG Sets shall conform	
	to the standards prescribed by the CPCB.	
	The DG sets will be provided with the	
	acoustic enclosures to mitigate the noise.	
V.	Dykes of adequate height shall be	Complied
	provided around the HCl acid tanks to	
	collect the acid within the dyke walls in the	
	event of catastrophic failure of the tank	
vi.	The gaseous emissions from the carbon di	Complied
	Sulphide plant in the form of CS ₂ and H ₂ S	
	shall be recovered by condensers and H ₂ S	
	shall be scrubbed with caustic soda and 2-	
	stage absorption system to recover sodium	
	Sulphide.	
vii.	The adequate measures shall be taken	Complied
	to prevent the fire hazards and accidental	
	release of Cl ₂ .	
viii.	The project authorities shall comply with	Complied.
	the recommendations made in the	
*	EIA/EMP report.	Convolind
ix.	Green belt shall be developed in 12 ha of	Complied
	plant area to mitigate the effects of fugitive emissions all around the plant. The	
	development of green belt shall be as per	
	the Central Pollution Control Board	
	guidelines.	
х.	Rainwater harvesting measures shall be	Complied
۸.	undertaken to recharge the ground water.	Complica
	undertaken to recharge the ground water.	
B. Gen	eral Conditions	1
		Committee
i.	The project authorities shall strictly adhere	Complied
	to the stipulations made by the Gujarat	
::	State Pollution Control Board (GPCB)	Complied
ii.	No further expansion or modifications in the plant shall be carried out without prior	Compiled
	approval of the Ministry of Environment &	
	Forests. In case of deviations or alterations	
	i orests. In case of deviations of afterations	

Sr. No.	Conditions	Reply to Stipulated Conditions
	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.	
iii.	The project authorities shall strictly comply	Complied
	with the rules and regulations under	We are renewing the approvals periodically.
	Manufacture, Storage and Import of	
	Hazardous Chemicals Rules, 1989 as	
	amended in October, 1994 and January,	
	2000. Prior approvals from Chief	
	Inspectorate of Factories, Chief Controller	
	of Explosives, Fire Safety Inspectorate etc.	
	must be obtained.	
iv.	The project authorities shall strictly comply	Complied
	with the rules and regulations with regard	
	to handling and disposal of hazardous	
	wastes in accordance with the Hazardous	
	Wastes (Management and Handling) Rules,	
	2003. Authorization from the State	
	Pollution Control Board must be obtained	
	for collections/ treatment/ storage/ disposal of hazardous wastes.	
.,	The overall noise levels in and around the	Being Complied
V.	plant area shall be kept well within the	Being Compiled
	standards (85 dB (A)) 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).	
vi.	Occupational health surveillance	Being Complied
	Programme shall be undertaken as regular	
	exercise for all the employees, specifically	
	for those engaged in handling hazardous	
	substances. The first aid facilities in the	
	occupational health center should be	
	strengthened and the medical records of	

Sr. No.	Conditions	Reply to Stipulated Conditions
	each employee should be maintained separately	
vii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and Risk analysis. Report. The Company must also undertake social welfare/ community development measures in the surrounding villages, such as health care, education and drinking water supply facilities	Complied
viii.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	Complied
ix.	The project authorities shall provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & 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.	Complied
X.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal/ State Pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.	Complied
xi.	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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter, at least	Complied

Sr. No.	Conditions	Reply to Stipulated Conditions
	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 Regional office.	
xii.	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 commencing the land development work, if any.	Complied This project was applied to enhance the production capacity of Viscose Filament Yarn through modification in machinery and in Caustic Soda Plant by installation of three electrolyzers in the cell house. For the aforesaid project we have been granted NOC/CTE on 30.06.2009 and subsequently, we obtained Consolidated Consent Authorization (CCA) on 26.11.2010 and amendment in CCA on 18.11.2011. We have received the Amendment from vide letter no. GPCB/CCA-JNG-1(16)/ID-17239/96938 dated 18 th November 2011 for commissioning of New Superior Spool Technology for Manufacturing of Viscose Filament Yarn within the existing production capacity of 1650 MTPM.
8.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
9.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.	Noted.
10.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997	Complied
11.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted. We are operating our plant under statutory consents & clearances from Gujarat Pollution Control Board (GPCB), Gandhinagar and Ministry of Environment & Forests (MoEF), New Delhi respectively.

C. As per Amendment in EC vide Letter No. J-11011/382/2008-IA.II (I) dated 02.08.2011 by MoEF & CC for Expansion project for enhancing production capacity of Viscose Filament Yarn from 1300 MTPM to 1650 MTPM and Caustic Soda plant of 200 TPD

Sr. No.	Conditions	Reply to Stipulated Conditions
i.	Plant capacity shall not increase beyond 1650	Complied
	MTPM as mentioned in the Ministry's letter	
	no. J-11011/445/2008-IA. II (I) dated	
	18.07.2008, No further expansion/	
	modification shall be carried out without prior	
	approval from the MoEF.	
ii.	All the conditions mentioned in the letter no.	Complied
	J-11011/445/2008-IA. II (I) dated 18.07.2008	
	shall be satisfactory complied.	
iii.	Permission from the State Government shall	Complied
	be obtained for the change in technology.	

D. As per EC no. J -11012/25/95-IA.II (I) dated 19.06.1995 & amendment dated 31.08.1998 by MoEF & CC (Expansion Project)

Sr. No.	Conditions	Reply to Stipulated Conditions
1	The PA must strictly adhere to the stipulations	Complied
	made by the SPCB and the State Government.	
2	The PA must take effective steps to limit the	Being Complied
	emissions of CS ₂ & H ₂ S and in no case, it should	
	exceed the limits prescribed by GPCB-	
	amended condition.	
3	Gaseous and particulate emissions from the	Being Complied
	various process vents and storage tanks should	
	conform to the standards prescribed by the	
	competent authorities from time to time. At no	
	time will the emission levels be allowed to go	
	beyond the prescribed standards. In the event	
	of failure of the any respective unit should be	
	put out of the operation immediately and	
	should not be restarted to achieve the desired	
	efficiency. An interlocking system should be	
	incorporated & its effectiveness checked and	
	approved by the SPCB.	
4	At least four AAQ monitoring stations should	Being Complied
	be established in the down wind direction as	
	well as where maximum ground level	

Sr.	Conditions	Reply to Stipulated Conditions
No.		
	concentrations of SPM, SO ₂ , NO _X , CS ₂ , H ₂ S and	
	Cl ₂ are anticipated. The selection of the AAQ	
	monitoring stations should be based on	
	modeling exercise to represent short term	
	ground level concentrations, sensitive targets	
	etc. in consultation with the SPCB. Stack	
	emissions should also be regularly monitored	
	by installing stack monitoring devices in	
	consultation with the SPCB. Data on AAQ and	
	stack emissions should be submitted regularly	
	to this Ministry once in six months and the	
	SPCB once in three months along with the	
	statistical analysis and interpretation.	
5	Fugitive emissions should be controlled,	Being Complied
	regularly monitored and data recorded.	
6	Liquid effluents coming out of the existing	Being Complied
	plant should conform to the standards as	
	prescribed by the SPCB/ stipulated under the	
	EP Act, 1986 and the treated effluents should	
	be recycled/ reused to the maximum extent	
	possible. There should not any effluent	
	discharge from proposed caustic soda plant.	
7	The hazardous wastes should be handled as	Being Complied
	per the HWMH Rules, 1989 of the EP Act, 1986.	
	A plan for handling, treatment and disposal of	
	hazardous wastes should be prepared and	
	submitted for approval within six months.	
8	Adequate measures for control of noise should	Being Complied
	be taken so as to keep noise levels below 85dB	
	in the working environment. Persons working	
	near the noisy machines in the different units,	
	blowers, compressors etc. should be provided	
	with well-designed ear muffs/ plugs. Besides,	
	measures should be taken to reduce the noise	
	at the source itself my employing engineering	
	methods.	
9	Adequate number of chlorine sensors coupled	Complied
	with alarm system should be installed at	
	vulnerable locations to detect chlorine leak(s)	
	for timely action. An early warning system	
	should develop to alert the nearby	
	communities during emergency situations. A	

Sr. No.	Conditions	Reply to Stipulated Conditions	
	wind sock should be provided at appropriate place within the plant in consultation with the SPCB.		
10	Necessary approval should also be taken from the Explosive Department and the Chief Inspector of Factories, Gujarat regarding the design and safety of the pressure vessels, storage tanks etc.	Complied We are renewing the approvals periodically.	
11	Work place air quality should be monitored regularly for acid mist, CS ₂ , H ₂ S and Cl ₂ so as to ensure that it meets the standards prescribed by the competent authorities/ OSHA/ NIOSH/ ACGIH in the form of time weighted averages.	Being Complied	
12	Brine sludge collection area should always be kept clean. Area should be made impervious to avoid contamination of ground water due to spillage. The method should be approved by the SPCB.		
13	Workers before entering the bring sludge area and undertaking any work must wear adequate PPE such as safety goggles, aprons, gloves etc. This may be achieved by proper training and strict enforcement of safety regulation.		
14	Showers (de-contamination booths) and eyes baths should be installed and properly maintained and the safety Programme should also include periodic checking and maintenance of these systems as per the requirement of the Safety Directorate.	Being Complied	
15	Occupational health surveillance Programme should be undertaken as a regular exercise especially with respect to exposure to CS ₂ , H ₂ S, chlorine, thermal stresses and noise pollution. Maintenance of individual medical records along with base-line data is required.	Being Complied	
16	A green belt of adequate width and density using local plant species should be developed all around the plant including sludge dumping site in consultation with the local DFO. There should be an average of 1500 trees/ha in the	Complied	

GRASIM INDUSTRIES LIMITED, UNIT-INDIAN RAYON, VERAVAL

Sr. No.	Conditions	Reply to Stipulated Conditions
	green belt and an overall average of 300/ha for	
	the plant.	
17	Risk assessment report should be revised and	Complied
	submitted for approval by this Ministry	
	incorporating worst scenario and risk contours	
	for hazardous toxic chemicals and gases.	
	Hazard distance should not cross the battery	
	limits of the factory under any circumstances.	
18	The PA should revise the DMP incorporating	Complied
	graphs/ nomograms indicating special	
	distribution of concentrations of pollutants	
	during day and night under different stability	
	classes wind conditions so that in case of	
	accidental release of toxic gases the area likely	
	to be affected could be known and rescue	
	operations may be organized accordingly.	
	Handling, manufacture, storage and transport	
	of hazardous chemicals should be as per the	
	details/provisions in the MSIHC Rules, 1989	
19	Approval from the State Govt. / SPCB should be	Complied
	obtained for the proposed landfill site.	
20	All the requirements of the CRZ notification	Complied
	must be complied with.	
21	The PA should set up laboratory facilities for	Complied
	collection and analysis of samples under the	
	supervision of competent technical personnel,	
	who will directly report to the Chief Executive.	
22	A separate EMC with suitably qualified people	Complied
	to carry out various functions should be set up	
	under the control of Senior Executive, who will	
	directly report to the Heat of the organization.	
23	The ministry may revoke or suspend the	Noted
	clearance, is implementation of any of the	
	above conditions is not satisfactory.	

E. As per EC Letter No. 11-80/2008-IA.III (Part - II) dated 07.12.2009 by MoEF & CC for Marine Pipeline Project

Sr.	Conditions	Reply to Stipulated Conditions
No.		
1.	The proponent shall upload the status of	Being complied
	compliance of the stipulated EC conditions,	
	including results of monitored data on their	
	website and shall update the same periodically.	
	It shall simultaneously be sent to the RO of	
	MoEF, the respective Zonal Office of CPCB and	
	the SPCB. The criteria pollutant levels namely;	
	SPM, RSPM, SO _{2,} NOx (ambient level as well as	
	stack emissions) or critical sectorial parameters,	
	indicated for the project shall be monitored &	
	displayed at a convenient location near the	
	main gate of the company in the public domain.	
2.	The PP shall also submit six monthly reports on	Complied
	the status of compliance of the stipulated EC	
	conditions including results of monitored data	
	(both in hard copies as well as by e-mail) to the	
	respective RO of MoEF, the respective Zonal	
	Office of CPCB and the SPCB.	
3.	The environmental statement for reach	Being complied
	financial year ending 31st March in Form-V as is	
	mandated to be submitted by the PP to	
	concerned SPCB 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 EC	
	conditions and shall also be sent to the	
	respective RO of MoEF by e-mail.	

F. As per Letter No. ENV-10-2008-1177-E dated 12.02.2009 by GCZMA for Marine Pipeline Project

Sr. No.	Conditions	Reply to Stipulated Conditions	
1	The Provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by M/s Indian Rayon.	We will comply with all the provisions of the CRZ Notification of 1991 and subsequent amendments issued from time to time.	
2	The treated effluent, to the tune of 15000 m³/day (max) meeting with the Gujarat Pollution Control Board (GPCB) Norms at the point recommended by CSMCRI, Bhavnagar, shall only be discharged through the said pipeline after obtaining necessary Consent of the GPCB under the Water Act, 1974. At present, the company has disposed of 8450 m³/ day of treated effluent and shall increase the quantity of the same after obtaining the necessary CCA/ Consent under the water Act 1974, from the GPCB.	Being complied	
3	All the recommendations and suggestion given by the CSMCRI in its effluent disposal point selection report/ Environment Impact Assessment Report shall be implemented strictly by M/s Indian Rayon.	Complied	
4	The effluent not meeting with the GPCB Norms shall not be discharged and shall be stored in the Guard ponds and recycled back in to the effluent Treatment Plant for further treatment to achieve the GPCB Norms. M/s Indian Rayon shall install necessary facilities for this purpose shall strictly ensure the compliance with the GPCB Norms, round the Clock	Complied	
5	Comprehensive Environment Impact Assessment report shall be submitted to this department and the recommendations/ suggestions given in it shall be implemented.	Complied	
6	The construction debris and sewage generated during the construction phase shall not be discharged in to sea creek, sea, estuary or in to the CRZ Area. The debris shall be removed from the construction site immediately after the construction is over and shall be disposed of as per the guidelines of the GPCB.	Complied	

Sr.	Conditions	Poply to Stipulated Conditions
No.	Conditions	Reply to Stipulated Conditions
7	The land ward portion of the pipeline shall be buried at least 1m below the ground and the offshore portion shall be protected appropriately from the erosion.	Complied
8	The construction camps shall be located outside the CRZ area and the construction labors shall be provided with necessary amenities including sanitations, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labors.	Complied
9	The ground water shall not be tapped to meet with water requirements during construction or operation phase in any case.	Complied
10	A Disaster Management plan to meet any eventualities that may arise during constructions and/or operations phase shall be prepared implemented.	Complied
11	The Pipeline Shall be monitored regularly by the company and it shall be ensured that there is no leak from the pipe line. In case of any such eventualities, the company shall immediately stop disposal through the said pipeline and take corrective measures in the connection in consultation with GPCB and the District Collector.	Complied
12	Necessary permissions from different departments/ agencies under different laws/ acts shall be obtained before commencing the constructions/ pipeline laying activities.	Complied
13	The company shall take up the mangrove plantation in 50 ha of area on Gujarat coastal line in phased manners in five years.	Complied
14	A separate Environmental Management Cell with qualified personnel shall be created to implement Environmental Management Plan and a separate budget shall be provided for this purpose.	Complied
15	The cost of external agency that may be appointed by this department for supervision/monitoring of the project activities during	We will bear cost of external agency appointed by DoEF, Gandhinagar for supervision/ monitoring of the project activities during constructions operational phases.

GRASIM INDUSTRIES LIMITED, UNIT-INDIAN RAYON, VERAVAL

Sr. No.	Conditions	Reply to Stipulated Conditions
	constructions operational phases shall be borne by the M/s Indian Rayon.	
16	Massive Green belt development program shall be carried out in consultations with the forest department by M/s Indian Rayon.	Complied
17	A large Scale Socio-economic upliftment program in consultation with the District Collector/ DDO shall be carried out. A Separate budget shall be provided for this purpose and details be finished to this department from time to time.	Complied
18	Environment Audit Report shall be submitted every year. The report shall also cover the change in the costal and marine environment enroute the proposed pipeline and around disposal point due to commissioning of the proposed pipe line	Complied Marine monitoring is regularly carrying out through M/s. National Institute of Oceanography, Mumbai and report is being submitted to all the Regulatory Authorities on regular basis. Monitoring Report for samples collected during the period 24.03.2023 to 31.03.2023 has been submitted to statutory authority
19	A Six Monthly Progress reports regarding the compliance of the conditions shall be submitted to this department.	We will comply.
20	Any additional conditions that may be imposed by the DOEF Department time to time shall have to be complied By M/s Indian Rayon.	We will comply any additional conditions may be imposed by the your department time to time

G. As per EC Letter No. 11-80/2008-IA.III dated 20.10.2008 by MoEF & CC for Marine Pipeline Project

Sr. No.	Conditions	Reply to Stipulated Conditions		
A. Spe	A. Specific Conditions			
(i)	The Zinc Concentration in the effluents at the discharge point shall be monitored and the report submitted to the Regional Office, Bhopal at every three months.	Complied Marine monitoring is regularly carrying out through M/s. National Institute of Oceanography, Mumbai and report is being submitted to all the Regulatory Authorities on regular basis. Monitoring Report for samples collected during the period 24.03.2023 to 31.03.2023 has been submitted to statutory authority.		
(ii)	All the conditions stipulated by Forests and Environment Department Government of Gujarat vide their letter No. ENV-10-2008-1177E dated 06.10.2008 shall be strictly implemented.	Complied		
(iii)	The Pipe line shall not be disturbed the movement of fishing vessels or fishermen.	Complied		
(iv)	It shall be ensured that there is no displacement of people, houses or fishing activities as result of the project.	Complied		
(v)	It shall be ensured due to the project that there is no adverse impact on the drainage of the area and recharge of Ground water. No ground water shall be tapped in the project area falling in Coastal Regulation Zone.	Complied		
(vi)	The Project Proponent must ensure that the effluents/ liquid wastes discharged are the standards laid down by the Gujarat Pollution Control Board.	Complied		
(vii)	The camps of Labour shall be kept outside the Coastal Regulation Zone area. Proper arrangement for cooking fuel shall be made for the Labour during construction phase so as to ensure that mangroves are not cut /destroyed for this purpose.	Complied		
(viii)	The entire stretch of the pipe lines Shall be buried underground except at the booster pumping station which will be fenced and station would be manned round the clock. The buried lines will be protected with anticorrosive	Complied		

Sr.	Conditions	Reply to Stipulated Conditions
No.		
	Coal tar based Coating. The Coating will be	
	tested in accordance with prescribed Standard.	
(ix)	Markers shall be installed at every 30 M to	Complied
	indicate the position of the line. Regular	
	patrolling of the pipe line needs to be done. This	
	will help in identifying any activities that have	
	the potential to cause the pipe line damage or to	
	identify small leaks whose effect are too small to	
()	be detected by Instrument.	Complicat
(x)	Their Shall be display board at critical location	Complied
	along the pipe line viz. road/rail/river crossings	
	giving emergency instructions as well as contact details of M/s Indian Rayon. This will ensure	
	prompt information regarding location of the	
	accident during any emergency. Emergency	
	information board shall contain emergency	
	instructions .Any additions to contact details.	
(xi)	All necessary clearance from concerned	Complied
(*,	agencies shall be obtained before initiating the	
	project.	
(xii)	The Project shall be implemented in such a	Complied
	manner that there is no damage whatsoever for	
	the mangroves/ other sensitive coastal	
	ecosystems. If any damage in mangroves is	
	anticipated as a result of project activities then	
	the clearance now been accorded shall stand	
	cancelled and proponents may seek fresh	
	approval from Ministry.	
(xiii)	A Continuous and comprehensive post project	Complied
	Marine Monitoring quality Programme shall be	Marine monitoring is regularly carrying out through
	taken up. This shall include monitoring of water	M/s. National Institute of Oceanography, Mumbai
	quality, sediment quality and biological	and report is being submitted to all the Regulatory
	characteristics covered in the EIA Studies.	Authorities on regular basis. Monitoring Report for
		samples collected during the period 24.03.2023 to
		31.03.2023 has been submitted to statutory
		authority.
B. Gen	eral Conditions	
(i)	Construction of the proposed structure shall be	Complied
	under taken miraculously conforming to the	
	existing center/ local rules and regulation. All	
	the construction/ drawing related to the	
	proposed construction activity must have	

Sr. No.		Conditions	Reply to	Reply to Stipulated Conditions	
140.	approval of	the concerned state government			
	department	_			
(ii)		authorities shall take appropriate	Complied		
` ´		development and welfare measures			
	_	gers in the vicinity of the project site,			
		rinking water facilities. A separate			
		e allocated for this purpose			
(iii)	To meet an	y emergency situation appropriate	Complied		
	firefighting	system shall be installed.			
	Appropriate	arrangement uninterrupted power			
	supply to	the environment protection			
	equipment	and continuous water supply for the			
		system to be made.			
(iv)	A separate	Environment Management Cell with	Complied		
	suitably qu	alified staff to carry out various			
	environmen	t related function shall be set up			
	under the o	charge of senior executive who will			
	directly to t	he chief executive of the company.			
(v)	The funds	s earmarked for environment	Complied		
	protection	measures shall be maintained as a			
	separate ac	count and shall be no diversion of			
	these funds	for any other purpose. A year-wise			
	expenditure	on environmental safe guard shall			
		I to this ministry's regional office at			
	Bhopal				
	Proposed Environmental Expendi		ture in Financial Yea	r 2024-25	
	Sr. No.	Environmental Management Plan		Budget Rs. Lacs	
	1	Pipe line Maintenance including Diff	user System	50	
	2	Water Environment including ETP Pe	erformance	100	
	3	Post Marine Environment Monitorin	g	40	
	4	Green Belt Development		50	
	5	Revamping of Effluent treatment pla	ant	950	
	6	Installation of Air diffuser for Odour	Mitigation	25	
	7	Extension of Guard Pond		99	
			Total	1314	
(vi)	Full support	shall be extended to the officers of	Complied		
	the ministry	regional office at, a fresh reference			
	shall be made to this ministry for modification in				
	the clearance Bhopal and the officers of the				
		State Pollution Control Board by the			
		ponent during their inspection for			
	monitoring	agency.			

Sr. No.	Conditions	Reply to Stipulated Conditions	
(vii)	In case deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.	Noted and Complied	
(viii)	The Ministry deserves right to revoke this clearance, if any conditions stipulated are not compiled with to the satisfaction of this Ministry.	Noted	
(ix)	This Ministry are any competent Authority may stipulate any other additional conations subsequently; any if deemed necessary, for Environmental protection, shall be compiled with.	Noted	
(x)	A Copy of clearance letter shall be marked to the concerned agency panchayat/ local/ NGO if any, from whom any suggestions/ representations has been received while processing the proposal.	Complied	
(xi)	State Pollution Control Board/ Committee shall display a copy of the clearance letter at District Industry Center, Collector's Office/ Tehsildar's office for thirty days.	Not pertains to the Project	
(xii)	The Project Proponent Shall advertises at least in two local new papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that project has been accorded Environment Clearance and copies of Environment Clearance letters are available with Gujarat State Pollution Control Board and may also be seen at website of the Ministry of Environment and Forests at http:///www.envfor.nic.in.	Complied	
(xiii)	The Project Proponents shall inform to Regional office, Bhopal as well as Ministry, the date of financial closure and final approval of the	Complied	

Sr.		
No.	Conditions	Reply to Stipulated Conditions
	project by the concerned authorities and the	
	date of start of work.	
(xiv)	The Project Proponent will obtain the Forest	Complied
	Clearance for the land passing through the	
	Reserved Forest Area before commencement of	
	the Project activities in Forest Area.	
(xv)	So as to maintain ecological features and avoid	Complied
	damage to the eco system, movement of	
	Vehicles in the Intertidal zone Shall be restricted	
(')	to the minimum.	
(xvi)	Budgetary break up for the Environmental	Same as mentioned in Point No. 5
	Management Plan for the Project to be mentioned.	
(xvii)		Not Applicable
(XVII)	Any appeal against this Environmental Clearance shall lie with the National	Not Applicable
	Environment Appellate Authority, if preferred,	
	with in a period of thirty days as prescribed	
	under Section 11 of the National Environment	
	Appellate Act, 1997.	
4.	The above mentioned stipulations will be	Being Complied
	enforced among others under the Water	
	(Prevention and Control of Pollution) Act, 1974,	
	the Air (Prevention and Control of Pollution) Act,	
	1981, the Environment (Protection) Act, 1986,	
	the Hazardous Chemicals (Manufacturing,	
	Storage and Import) Rules, 1989, the Costal	
	Regulation Zone Notification, 1991 and its	
	subsequent amendments and the Public Liability	
	Insurance Act, 1991 and the Rules made thereunder from time to time. The project	
	proponents shall also ensure that the proposal	
	complies with the provisions of the approved	
	Coastal Zone Management Plan of Gujarat and	
	the Supreme Court's order dated 18 th April, 1996	
	in the Writ Petition No. 1993 to the extent the	
	same are applicable to this proposal.	
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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A, GANDHINAGAR - 382010, (T) 079-23232152

By R.P.A.D

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A) CCA NO: AWH-131279 Appl Type: CCA-Renewal

In exercise of the power conferred under sectron-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6 (2) of the Hazardous and Other Waste (Management & Transboundary Movement) Rules 2016 framed under the Environment Protection Act-1986.

And whereas Board has received Consolidated Consent Application Inward ID No. 289890 dated: 09/11/2023 for the Consolidated Consent and Authorization (CC&A) of this Board under the provisions/rules of the aforesaid acts. Consents & Authorization are hereby granted as under:

CONSENT AND AUTHORIZATION:

(Under the provisions/Rules of the aforesaid environmental Acts)

To.

M/s. Grasim Industries Limited (Unit-Indian Rayon)

Plot No. 1502, 1507, 1511, 1516, 1493,

Veraval-362266,

Tal. Veraval, Dist. Gir-Somnath.

- Consent Order Number AWH 131279 Date of issue: 27/12/2023
- 1.1 The consent under Water Act-1974, Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid up to 31/12/2028 to operate industrial plant for manufacturing of the following products.

Sr. No.	Products	Quantity MT/Month
1.	Viscose Filament Yarn	1950
2.	Sodium Sulphate	2050
3.	Sulphuric Acid	3600
4.	Sodium Sulphide (100 %)	100
5.	Carbon di sulphide	1000
6.	Caustic Soda Lye (100%)	12000
7.	Chlorine (100%)	10560
8.	Hydrochloric Acid (100%)	1800
9.	Sodium Hypo chlorite (100%)	3750
10.	Compressed Hydrogen	650000Nm ³
11.	Captive Power Plant	54.5 MW

2. SPECIFIC CONDITIONS:

2.1 The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated:-14/09/2006 as amended from time to time is requiring prior Environmental Clearance from the competent authority.

2.2 Applicant shall strictly comply/fulfill with All the conditions stipulated by Ministry of Environment, Forests & Climate Change, Government of India their per Letter No. J-11011/343/2013-IA II (I) dated 22 June 2015 shall be strictly implemented.

2.3 The recovery of Sodium Sulphat shall not be less than 60 % in Viscose Filament Yam Unit

2.4 Unit shall sell out their hazardous waste to authorized end-users who are having authorization with valid CCA and rule-9 permission to receive this waste. Unit shall make MoU with such authorized end-users and submit MoU.

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- 2.5 Unit shall strictly follow the solid fuel guideline framed by Board and shall install APCM as per Guideline.
- 2.6 Unit shall follow coal-handling guideline framed by Board and provide close ash handling facility.
- 2.7 Unit shall install Online Continuous Emission Monitoring System (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacities or equivalent capacity of TFH.
- 2.8 Unit shall Provide APCM with solid fuel fire utility for SO2 control and comply all conditions as per GPCB office order dated:-03.06.2021.
- 2.9 Total control of Odour nuisance from the plant premises shall be achieved & maintained by the applicant continuously.

3. CONDITIONS UNDER THE WATER ACT:

3.1 The water consumption and waste water generation shall be as under

	WATER CONSUMPTION	WASTE WATER GENERATION
	KLPD	KLPD
Industrial	14020	12322
Domestic	1448	388

- 3.2 Quantity of the industrial effluent shall not exceed 12322 KI/Day.
- 3.3 The quantity of sewage effluent from the factory shall not exceed 388 KI/Day.

Trade Effluent

3.4 The quality of the treated effluent as per GPCB norms mentioned in column 2

PARAMETER	GPCB NORMS
pH	6.0 to 8.5
Temperature	45° C
Colour (pt.co.Scale)	100 units
Suspended Solids	100 mg/I
Oil and Grease	10 mg/l
BOD (5 days at 20 C)	100 mg/l
COD	250 mg/l
Zinc	15 mg/l

Note: The recovery of Sodium Sulphate shall not be less than 60 % in Viscose Filament Yarn Unit.

If the COD of the treated effluent is more than 250 mg/l, industry is required to identify chemicals causing the same in case these are to be toxic as defined in the hazardous chemical rules -1989 (Schedule-I) industry shall have to install tertiary treatment system within the month from date of such directions.

- 3.5 The permissible limit of COD in condition No 3.4 above has been fixed on the following grounds:
 - (A) Grasim Industries Limited, Unit Indian Rayon is an integrated plant manufactures various products such as sulphuric acid, caustic soda, power and sulphuric acid etc. along with viscose filament Yarn.
 - (B) Plants other than viscose filament Yarn products effluent which would have less BOD in effluent compare to effluent to give benefits of dilutions to the effluent generated.
 - (C) Standards for viscose filament yarn as laid down in Gazette of India dated 09.11.2018 for Ind. Specific Standards doe BOD is 100 mg/L.
- 3.6 The effluent conforming to the above standards shall be discharged into sea through close Marine Pipeline.
- 3.7 All the conditions stipulated by Ministry of Environment & Forests, Government of India vide letter No.11-80/2008-IA-III dtd.20/10/2008 shall be strictly implemented for laying a pipeline for disposed of treated effluent in the coastal environmental of Arabian Sea off Veraval Coast.
- 3.8 All the conditions stipulated by Ministry of Environment & Forests, Government of India vide letter No.11-14/2021-IA-III dtd.17/06/2021 shall be strictly implemented for laying of sea water intake and outfall in the Arabian sea for Reverse Osmosis reject from Desalination plant at Veraval Gujarat.
- 3.9 All the conditions stipulated by Ministry of Environment & Forests, Government of India their letter No. F No-J-11011/382/2008-IA II (I) dt: 02\08\2011 shall be strictly implemented.
- 3.10 All the conditions stipulated Ministry of Environment & Forests, Government of India their letter No. F No-J-11011/445/2008-IA II (I) dt: 18/07/2008 shall be strictly implemented.

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GUJARAT POLLUTION CONTROL BOARD



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3.11 All the conditions stipulated by Forests & Environment Department of, Government of Gujarat their letter No ENV-10/2008-1177 -E dtd.06/10/2008 shall be strictly implemented for proposed treated effluent disposal pipeline.

3.12 All the conditions stipulated by Forests & Environment Department of, Government of Gujarat their letter No ENV-10/2019-126-E(T.cell), dtd.25/02/2021 shall be strictly implemented for proposed treated effluent disposal pipeline

3.13 All the effluent treatment units shall be operated and maintained efficiently so that the treated effluent always conforms to the specifications referred in condition no.3.4 above.

3.14 Sewage shall be treated in STP and it shall conform to following standards and treated sewage shall be used for plantation and gardening on own land within in premises and for cooling tower.

Sr. No	Parameters	Permissible Limit
1.	pH	6.5-9.0
2.	BOD	Less than 30 mg/l
3.	Total Suspended Solid	Less than 100 mg/1
4.	Oil & Grease	Less than 10 mg/l
5.	Fecal Coliform Most probable number per 100 ml (MPN/100ml)	Less than 1000 mg/l

3.15 In order to enable the Board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent under the condition no. 3.4 of this order are complied with by the Company while causing discharge of effluent, the applicant shall have to submit every month the analysis report of the samples of effluent to be collected and analyzed by one of the laboratories recognized by the State Board.

PENALTY PROVISIONS: If the applicant fails to comply with the conditions and other directives issued by this Board as laid down in this order, the applicant is liable for prosecution under Section 43 & 44 and other penal provisions of the Act and shall on conviction, be liable for punishment and imprisonment as provided in the said Act.

4. CONDITIONS UNDER THE AIR ACT:

4.1 The following shall be used as fuel:

Sr.	Fuel	Total
1.	Coal cum Lignite	45 MT/Hr
2.	HCV Coal	3.5 MT/Hr
3,	Agro waste Cum Briquette	5400 MT/Year
4.	L.D.O	57 KL/Day
5.	Hydrogen	375 m3/MT

4.2 The flue gas emission through stack shall confirm to the following standards:

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	m Permissible Limit
1.	Boiler No. 1&2 (Old Power Plant)	122 m	ESP	Particulate Matter	100 mg/Nm3
2.	Boiler No- 4 (Removed)	31 m	Bag filter, Cyclone	NOx	600 mg/Nm3 600 mg/Nm3

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3.	Boiler No. 3(New Power Plant)	122 m	ESP	Particulate Matter SO2 NOx Mercury (Hg)	50 mg/Nm3 600 mg/Nm3 300 mg/Nm3 0.03 mg/Nm3
4.	Boiler No 5 (105 TPH) (connection hooked up into existing new chimney)	122 m	ESP (Lime dosing system CFBC)	Particulate Matter SO2 NOx Mercury (Hg)	30 mg/Nm3 100 mg/Nm 100 mg/Nm3 0.03 mg/Nm3
5.	D.G Sets (2270 KVA)(6 Nos.) (Removed)	40m	Acoustic enclosure	Particulate Matter SO2	150 mg/NM3
6.	D.G Sets (1450 KVA)(2 Nos.) (Removed)	11 m	Acoustic enclosure	NOx 100 ppm 50 ppm	E0000000000000000000000000000000000000
7.	D.G Sets (750 KVA)(4 Nos.) (Installed)	11m	Acoustic enclosure		
8.	D.G Sets (1500 KVA)(1 Nos.) (Existing)	30 m	Acoustic enclosure		

4.3 The process emission through various stack/vent of rectors, process, vessel etc. shall conform to following standards:

Stack No.	Stack attached to	Stack height in Meter	Air pollution control system	Parameter	Permissible Limit
1.	Old Rayon Plant	52.5	Air washers & Exhaust Fans	CS2	200 Kg/MT of Yarn Production
2.	New Rayon Plant	52.5	Air washers & Exhaust Fans	H2S	30 kg/MT of Yam Production
3.	Caustic Soda flaking unit	34	Bag Filter	Particulate Matter	150
4.	Coal Crushing Unit	52			150 mg/m3
5.	Old Sulphuric Acid Plant	30	Alkali Scrubber	SO2 Acid Mist	2 Kg/Ton of 100 % Acid Production 50 mg/Nm3
6.	New Sulphuric Acid plant	30	Alkali Scrubber	SO2 Acid Mist	2 Kg/Ton of 100 % Acid Production 50 mg/Nm3
7.	(Caustic Chlorine Plant) Hypo Plant	34	Three Stage Scrubbing System by chilled caustic	Cl ₂	15 mg/Nm3
8.	(Caustic Chlorine Plant) HCl Plant	34	Bubble Cap tray followed by packed bed scrubber	HCL vapor & Mist	35 mg/Nm3

4.4 Unit shall comply MoEF & CC Notification dated 09.11.2018 for Environmental Standards of Man Made Fibre industry and amendment from time to time.

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- 4.5 Industry shall have to comply following in pursuant to notification issued by MoEF & CC on 09.11.2018
 - (A) Uncontrolled Emission Quantities (EQ) of CS2 shall not exceed

FOR VFY

EQ = 200 KG OF CS2/T OF FIBER

- (B) Stack Height
 - a) A minimum of 80% total emission estimated above shall pass through stack having height calculated for formula described under at (b). If calculated stack height is less than 30 mt, a minimum height 30 meter shall be provided.
 - b) Stack Height in Meter

 $H = 11 Q^{0.41} - 3 V_S D/U$

WHERE Q = CS2 EMISSION RATE, KG/HR.

V₅=Stack Exit Velocity -m/sec.

D= Diameter of Stack -Meter

U= Annual Average Wind Speed at Top of Stack -m/sec.

- c)In Case of Multiple Stack
 - All stack carrying CS2 emission shall be same height based on maximum emission rate.
 - (2) Number of stack shall be increased from the existing number. However, the number of stack may be reduced. The existing stack may be rebuilt and if stack are to be relocated, condition no.3 below applies.
 - (3) Spacing among the stacks (x) at the minimum shall be 3.0 H (in mt.) if the distance, X between two stack is less than 3.0 H (in mt) emission both stack shall be calculated considering all emission is going through one stack.
- d) Ambient Air Quality Monitoring

Industry shall install three air quality monitoring station for CS₂ and H₂S measurement in consultation with this board to ensure following ambient air norms on 24 hour average basis.

CS₂= 100 µg/M3

H₂S= 150 µg/M3

4.6 Ambient Air quality within and outside the premises of the unit shall confirm National Ambient Air Quality standards Notified by MoEF vide notification dated 16/11/2009 and manly to the following standards.

Parameter	Permissible Limit (Microgram/M3)		
and the second s	Annual	24 Hours	
Particulate Matter (Size Less than 10 μn) or PM ₁₀	60	100	
Particulate Matter (Size Less than 2.5 μn) PM _{2.5}	40	60	
Oxides of Sulphur (SO _x)	50	80	
Oxides of Nitrogen (NO _c)	40	80	
HC	- 12	dicrogram/M3	
C12		/licrogram/M3	

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- Annual arithmetic mean of minimum 104 measurements in a year at particular site taken twice a week 24 hourly at uniform intervals.
- 24 hourly 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed te limits but not on two consecutive days monitoring.
- Note: whenever and whenever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.
- 4.7 Unit shall operate industrial plant/Air pollution control equipment very efficiently and continuously so that the gaseous emission always confirms to the standards specified in conditions as above...
- 4.8 D.G Set standards: The flue gas emission through stack attached to D.G Set shall conform to the following standards:
 - a. The minimum height of stack provided with each of the generator set shall be H = h +0.2 (KVA) 1/2, where H=Total stack height in meter, h= height of the building in meter where or by the side of which the generator set is installed.
 - Noise from D.G. Set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
 - c. The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
 - The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
 - e. All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises within the ambient noise requirements by proper sitting and control measure.
 - Installation of D.G. Set must be strictly in compliance with the recommendations of the D.G. Set manufacturer.
 - g. A proper routine and preventive maintenance procedure for D.G. Set should be set and followed in consultation with the D.G. Set manufacture which would help prevent noise level of the D.G. Set from deteriorating with use The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by number(s) such as S-1, S-2, etc. and these shall be painted / displayed to facilitate identification.
- 4.9 The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in condition no. 4.3, 4.4 and 4.6 above.
- 4.10 The consent to operate the industrial plant shall lapse at any time if the concentration in the ambient air is not within the tolerance limits specified in the condition no. 4.3, 4.4 and 4.6
- 4.11 The applicant shall provide portholes, ladder, platform etc at chimney (s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 4.12 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 standards in respect of Noise to less than 75dB (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 nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.13 The applicant shall operate air pollution control equipment very efficiently and continuously so that the gases emission always conforms to the standards specified in condition No.4.2, 4.3 and 4.6 above.
- 4.14 The consent to operate the industrial plant shall lapse if at any time any conditions of this consent order are not complied with OR parameters of the gaseous emission are not within the tolerance limits specified in the condition no. 4.2, 4.3 and 4.6 above.

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4.15 The applicant shall at his own cost get samples of emissions collected and analyzed from an approved laboratory once in three months for the parameters indicated in condition no. 4.2, 4.3 and 4.6 and shall submit in duplicate the report there of to the Board by the 10th of the succeeding month. The applicant shall also maintain records of the analytical results properly and shall keep these records/charts open for inspection.

PENALTY PROVISIONS: - If the applicant fails to comply with the conditions of this order and other directives issued by the Board he is liable for prosecution under Section 37, 38, 39 and other penal provisions of the Act.

- AUTHORIZATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES
 Form-2 (See rule 6(2)) Form for grant of authorization for occupier or operator handling
 hazardous waste.
- 5.1 M/s. Grasim Industries limited Unit-Indian Rayon, is hereby granted an authorization for following hazardous wastes on the premises situated Plot No. 1502, 1507, 1511, 1516, 1493, Veraval-362266, Ta. Veraval, Dist. Gir Somnath.

Sr. No.	Waste Name	(MT/Annum)		Treatment & Disposal
1.	Sulphur Sludge (Acidic)	140	Schedule-I Category No 17.1	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch for incineration.
2.	Used Oil/Burnt Oil & LDO	60	Schedule-I Category No 5.1	Collection, Storage, Transportation & disposal by selling to registered recyclers
3.	Discarded Drums	3000 Nos / 45 MT	Schedule-I Category No 33.11	Collection, Storage, Transportation, Disposal by selling to authorized decontaminated facility.
4.	Cellulose waste (Organic Bio degradable)	130	Schedule-I Category No 23.1	Collection, Storage, Transportation, Disposal at CTSDF of Safe Environ Projects Ltd., Jambusar or Utilizing in cement plant and allied industries.
5.	Spent catalyst from H2SO4 Plant (Solid)	5.0	Schedule-I Category No 17.2	Collection, Storage, Transportation, Disposal by authorized/authorized actual users CTSDF of Safe Environ Projects Ltd., Jambusar.
6.	Toxic metal containing waste i.e. Spent Resin from DM Plant (Solid)	2.5	Schedule-I Category No 35.2	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch for incineration.
7.	Oily Cotton Waste	1.5	Schedule-I Category No 5.2	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch/Co-Processing in Cement plant and allied industries
8.	Exhaust Membrane	2.5	Schedule-I Category No 36.1	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch for incineration/Co- Processing in Cement plant and allied industries

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9.	E-Waste	20	Schedule-IV Category No18	Collection, Storage, Transportation, Sale to the authorized E-waste recycler
10.	Lead Acid Battery plates and other Led Scrap not covered under Batteries Rules2001	40	Schedule-IV Category No17	Collection, Storage, Transportation, Disposal by Sale to the authorized recycler
11.	Brine Sludge (Wet Basis)	3650	Schedule-I Category No 16.3	Collection, Storage, Transportation, Disposal at approved TSDF Site/ Utilizing in Cement plant and allied industries.
12.	ETP Sludge (Wet Basis)	14500	Schedule-I Category No 35.3	Collection, Storage, Transportation, Disposal at approved TSDF Site/ Utilizing in Cement plant and allied industries.
13.	Asbestos Containing Material and Asbestos Sheets	90	Schedule-II Category No B01	Collection, Storage, Transportation, Disposal at approved TSDF site.
14.	Bag filter Clothes	05	Schedule-I Category No 35.1	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch for incineration/co-processing
15.	Glass Wool Insulation	05	Schedule- other Category S2	Collection, Storage, Transportation, Disposal at CTSDF of Safe Environ Projects Ltd., Jambusar.
16.	FRP waste	80	Schedule-I Category No 23.1	Collection, Storage, Transportation, Disposal at CHWIF of SEPPL, Bhachau, Dist. Kutch for incineration/Co- Processing in Cement plant and allied industries.
17.	Spent Acid	2000	Schedule-II Category No B15	Collection, Storage, Transportation, Disposal by Sent to actual user having valid rule-9 permission of Haz waste rule- 2016.
18.	R.O. membrane	10	Schedule-I Category No 36.1	Collection, Storage, Transportation, Disposal at approved CHWIF site for incineration/Co-Processing in Cement plant and allied industries.

- 5.2 The authorization is granted to operate a facility for collection, storage within factory premises, transportation, incineration and ultimate disposal of Hazardous wastes at CTSDF, CHWIF and authorized recyclers.
- 5.3 The authorization shall be in force for a period of Five Years from the date of application.
- 5.4 The authorization shall be in force for a period up to 31/12/2028.
- 5.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

5.6 SUBJECT TO THE FOLLOWING SPCIFIC CONDITIONS UNDER HAZ RULE:-

- Toxic Metal containing waste should be disposed only after & Encapsulation and compliance of toxicity test.
- 5.6.2. Cellulose waste shall be disposed by Co-incineration in the cement kiln of Ambuja, Kovaya and/or UCL, Kovaya/Amerli & unit shall have maintained separate record of it.
- 5.6.3. Unit shall carry out analysis of ETP waste every month & Submit its report to the board specifically with reference to zinc concentration and if it is found beyond prescribed limit, it shall be disposed of at CTSDF

6. TERMS AND CONDITIONS OF AUTHORIZATION:

6.1 The applicant shall comply with the provisions of the Environment (Protection) Act - 1986 and the rules made there under.

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- 6.2 The authorization shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
- 6.3 The persons authorized shall not rent, lend, sell, and transfer of otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- 6.4 Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorization order by the persons authorized shall constitute a breach of this authorization.
- 6.5 An application for the renewal of an authorization shall be made as laid down in rule 5 (6) (ii)
- 6.6 It is the duty of the authorized person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 6.7 Management of solid waste generated from industrial activities shall be as per Solid Waste Management Rules-2016 (Solid Waste as defined in Rule-3(46)).
- 6.8 Industry shall submit annual report within 15 days and sub squinty by 30th June every year.

7. GENERAL CONDITIONS:

- 7.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 7.2 The waste generator shall be totally responsible for i.e. collection, storage, encapsulation, incineration treatment, transportation and ultimate disposal) of the wastes generated.
- 7.3 Records of waste generation, its management and annual return shall be submitted to Gujarat Pollution Control Board in Form -4 by 30th June of every year.
- 7.4 In case of any accident, details of the same shall be submitted in Form 11 to Gujarat Pollution Control Board.
- 7.5 As per "Public Liability Insurance Act 91 "company shall get Insurance Policy, if applicable.
- 7.6 Empty drums and containers of toxic and hazards material shall be treated as per guideline published for "Management & Handling of discarded containers". Record of the same shall be maintained and forwarded to Gujarat Pollution Control Board regularly.
- 7.7 In no case any kind of hazardous waste shall be imported without prior approval of appropriate authority.
- 7.8 In case of transport of hazardous wastes to a facility for (i.e. treatment, storage and disposal) existing in a State other than the State where hazardous wastes are generated, the occupier shall obtain 'No Objection Certificate' from the State Pollution Control Board or Committee of the concerned State or Union territory Administration where the facility exists.
- 7.9 Unit shall take all concrete measures to show tangible results in waste generation, reduction, avoidance, reuse and recycle. Action taken in this regards shall be submitted within three months and along with Form-4.
- 7.10 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Courts Order in W.P. No.657 of 1995-dated 14th October-2003.
- 7.11 Industry shall have to display on-line data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous wastes generated within factory premise.
- 7.12 Whenever due to accident or other unforeseen act or ever, 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 Service, 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. Remedial actions/measures shall be implemented immediately to bring entire situation normal.
- 7.13 In order to enable the board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent under the condition no 3.4 of this order are complied with by the company while causing discharge of effluent, the applicant shall have to submit every

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- month the analysis report of the samples of effluent got collected and analyzed by one of the laboratories recognized by the state Board.
- 7.14 The Board reserves the right to review and/or revoke the consent and/or make variations in the conditions, which the Board deems, fit in accordance with Section 27 of the Act.
- 7.15 In case of change of ownership/management the name and address of the new owners/partners/ directors/proprietor should immediately be intimated to the Board.
- 7.16 The Environmental Management Unit / Cell shall be set up to ensure implementation on and monitoring of environmental safeguards and other conditions stipulated by statutory authorities The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These cells/units also coordinate the exercise of environmental audit and preparation of environmental statements.
- 7.17 The Environmental Audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 7.18 The consent to operate the industrial plant shall lapse if at any time the any conditions of this consent order is not complied with or any parameters of the liquid effluent are not within the tolerance limit specified in the condition no.3.4 above.
- 7.19 Industry shall have to obtain CRZ clearance if applicable & submit to this Board.

For and on behalf of Gujarat Pollution Control Board

> (Smt. M.\$. Bhatt) Unit Head

Dated: 3 /01/2024

No. GPCB/CCA/JNG-1(35)//ID-17239/780188

Issued To:

M/s, Grasim Industries Limited (Unit-Indian Rayon) Plot No. 1502, 1507, 1511, 1516, 1493 Veraval-362266 Tal. Veraval, Dist. Gir-Somnath



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A. GANDHINAGAR - 382010. (T) 079-23232152

BY R.P.A.D

AMENDMENT OF CONSOLIDATED CONSENT AND AUTHORIZATION (C C & A) W-132348, Dated: 13/02/2024

NO. GPCB/CCA/JNG- 1(35)/ID - 17239/ 7641-06

Date: 73 /02/2024

To.

M/s. Grasim industries Limited (Unit-Indian Rayon)

Plot No. 1502, 1507, 1511, 1516, 1493,

Veraval-362266

Ta, Veraval, Dist. Gir Somnath.

Sub	1	Amendment to Consolidated Consent & Authorization 1. Your CCA Amendment Application Inward No: 304516 dated 04/01/2024. 1. Your CCA Amendment Application Inward No: 304516 dated 04/01/2024.
Ref	10	2. This Board has issued CC&A (AWH-1312/9) vide lens
		17239/780188 dated: 03/01/2024. 3. This Board has issued CTE Amendment vide letter No: GPCB/ID-17239/CCA-JNG-1(29)/526090 dated: 05/11/2019.

In exercise of the power conferred under sectron-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6 (2) of the Hazardous and Other Waste (Management & Transboundary Movement) Rules 2016 framed under the Environment

The Board has granted CC&A order no.-AWH-131279, issued on 27/12/2023, vide letter no. GPCB/CCA/JNG-1(35)/ID-17239/780188 dated: 03/01/2024 is further amended as under for sea water Intake and Outfall in Arabian Sea of Veraval for reverse Osmosis (RO) Reject from Desalination plant. The validity period shall be up to dated 31/12/2028 for the following

- Source of water: Sea water as well as water from Umrethi Dam.
- The sea water Intake and Reject water quantity shall be as under.

Sr.	Sea water intake in m ³ /d	Reject water in	in Dispesal Details	
No	for Desalination	m³/d	To be discharge in to sea through outfall pipe	
1	45,000	27,000	Day capacity and the remaining 6,000 m /Day will	

- The Unit has installed Desalination plant of 12,000 m³/Day capacity and the remaining 6,000 m³/Day will be installed as per the unit's future water requirement.
- Sea water Intake shall not exceed 45000 m³/Day
- RO reject water 27000 m³/Day from the desalination plant shall be discharged into sea as per final disposal point decided by NIO via outfall pipeline at selected location for various tidal conditions i.e. 20°54'32.40"N and
- All the conditions stipulated by Forests & Environment Department, Government of Gujarat, vide letter no. ENV-10-2019-126-E (T. Cell), dated, 25/02/2021 shall be strictly implemented for disposal of reject water from sea water reverse osmosis plant through outfall pipeline.
- 7. The other conditions of the CC&A (AWH-131279) vide letter No: GPCB/CCA/JNG-1(35)/ID-17239/780188 dated: 03/01/2024 shall remain unchanged.

For and on behalf of Gujarat Pollution Control Board

> (Smt. M. S. Bhatt) Unit Head

Clean Gujarat Green Gujarat

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<u>Month</u>	: OCTOBER - 2023				
Sr.no.	Stack Location.	Type of	Unit	Analysi	s Result
		pollutant.		Sampling Date	Sampling Date
				13-10-2023	26-10-2023
1	Sulphuric Acid Plant. (DCDA)	SO2	Kg/MT of 100 % H2SO4	0.16	0.10
	(= = = - 4	Acid Mist	mg/Nm³	24.5	24.5
				13-10-2023	26-10-2023
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	0.17	0.17
	(0.101.4)	Acid Mist	mg/Nm³	18.4	42.9
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED	SINCE 01.06.2022
4	Old Power Plant (Boiler No. 1 & 2)	SPM SOX NOX	mg/Nm³ PPM PPM		PED SINCE 26.12.2022 PED SINCE 25.12.2022
					T
			,	14-10-2023	27-10-2023
5	New Power Plant	SPM	mg/Nm ³	29.8	28.7
	(Boiler No. 3 & 5)	SOX	mg/Nm ³	503.0	547.6
	,	NOX	mg/Nm³	9.21	10.0
	New Power Plant			14-10-2023	27-10-2023
6	(Boiler No. 5)	sox	mg/Nm³	75.98	83.84
				12-10	-2023
7	Coal Crushing Unit	SPM	mg/Nm³	89	0.6
	Rayon Process Stack.			10-10-2023	24-10-2023
	(a) Old	CS2 Emission	Kg/ton of yarn	105.0	110.0
		H2S Emission	Kg/ton of yarn	24.7	20.4
8					
	422			10-10-2023	24-10-2023
	(b) New	CS2 Emission H2S Emission	Kg/ton of yarn	104.3 22.2	124.9 19.7
		nza Emission	Kg/ton of yarn	22.2	19.7
9	Hypochlorite Stack.	CI2		15-10-2023	27-10-2023
	. Typodinorite otdor.	JIE	mg/Nm³	0.210	0.230
T				15-10-2023	27-10-2023
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	4.60	7.60
		Chlorine	mg/Nm³	0.480	0.920

Month : Sr.no.	: NOVEMBER - 2023 Stack Location.	Type of	Unit	Analysis	Result
51.110.	Otack Location.	pollutant.	O III	Sampling Date	Sampling Date
-+		ponutum.		04-11-2023	28-11-2023
Sulphuric Acid Plant. (DCDA)		SO2	Kg/MT of 100 % H2SO4	0.14	0.17
	,	Acid Mist	mg/Nm³	36.8	24.5
				04-11-2023	28-11-2023
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	0.42	0.13
	(5557.4)	Acid Mist	mg/Nm³	42.9	30.6
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED	SINCE 01.06.2022
4	Old Power Plant (Boiler No. 1 & 2)	SPM SOX NOX	mg/Nm³ PPM PPM	BOILER NO 1 STOPF	
				10-11-2023	25-11-2023
		SPM	mg/Nm³	20.5	22.9
5	New Power Plant	sox	mg/Nm³	377.28	466.39
	(Boiler No. 3 & 5)	NOX	mg/Nm³	18.42	14.66
6	New Power Plant (Boiler No. 5)	sox	mg/Nm³	10-11-2023 89.08	25-11-2023 96.94
_				09-11-	-2023
7	Coal Crushing Unit	SPM	mg/Nm³	98	.1
	Rayon Process Stack.			03-11-2023	20-11-2023
	(a) Old	CS2 Emission H2S Emission	Kg/ton of yarn Kg/ton of yarn	108.0 23.5	88.5 14.4
8				03-11-2023	20-11-2023
	(b) New	CS2 Emission	Kg/ton of yarn	149.9	156.8
		H2S Emission	Kg/ton of yarn	26.7	25.6
9	Hypochlorite Stack.	CI2	_	15-11-2023	30-11-2023
•	. Typodinosito otdoki	J.,_	mg/Nm ³	0.220	0.210
				15-11-2023	30-11-2023
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	4.53	4.66
		Chlorine	mg/Nm³	0.400	0.362

Month Sr.no.	: DECEMBER - 2023 Stack Location.	Type of	Unit	Analysis	s Result	
or .110.	Stack Location.	pollutant.		Sampling Date	Sampling Date	
		ponutant.		09-12-2023	20-12-2023	
1	Sulphuric Acid Plant. (DCDA)	SO2	Kg/MT of 100 % H2SO4	0.19	0.14	
	(DCDA)	Acid Mist	mg/Nm³	24.5	18.4	
2	Sulphuric Acid Plant. (SCSA)	SO2 Acid Mist	Kg/MT of 100 % H2SO4 mg/Nm³	Under Annu	al Shutdown	
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED SINCE 01.06.2022		
				23-12	-2023	
	Old Daw Dig (SPM	mg/Nm³	89	.2	
4	Old Power Plant	sox	mg/Nm³	440	.16	
	(Boiler No. 1 & 2)	NOX	mg/Nm³	11.1		
				07-12-2023	29-12-2023	
_	Name Bassas Bland	SPM	mg/Nm³	19.2	26.9	
5	New Power Plant	sox	mg/Nm³	416.58	495.18	
	(Boiler No. 3 & 5)	NOX	mg/Nm³	11.5	14.3	
				14-12	-2023	
	New Power Plant	SPM	mg/Nm³	15	5.4	
6	(Boiler No. 5)	sox	mg/Nm³	94.	.58	
	(Bollet No. 3)	NOX	mg/Nm³	11	.3	
				19-12	-2023	
7	Coal Crushing Unit	SPM	mg/Nm³	91	.7	
	Rayon Process Stack.			05-12-2023	18-12-2023	
	(a) Old	CS2 Emission	Kg/ton of yarn	106.1	97.9	
		H2S Emission	Kg/ton of yarn	17.6	20.3	
8				05-12-2023	18-12-2023	
	(b) New	CS2 Emission	Kg/ton of yarn	170.4	189.8	
	• •	H2S Emission	Kg/ton of yarn	21.4	20.9	
9	Hypochlorite Stack.	CI2		14-12-2023	28-12-2023	
9	riypocillorite stack.	GIZ	mg/Nm³	0.230	0.210	
				14-12-2023	28-12-2023	
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	4.38	4.46	
		Chlorine	mg/Nm³	0.410	0.380	

/lonth	: JANUARY - 2024				
r.no.	Stack Location.	Type of	Unit	Analysis	
		pollutant.		Sampling Date	Sampling Date
1	Sulphuric Acid Plant.	SO2	Kg/MT of 100 % H2SO4	15-01-2024 0.12	27-01-2024 0.16
	(DCDA)	Acid Mist	mg/Nm³	42.9	30.6
				15-01-2024	27-01-2024
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	0.21	0.28
	(,	Acid Mist	mg/Nm³	36.8	24.5
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED	SINCE 01.06.2022
4	Old Power Plant (Boiler No. 1 & 2)	SPM SOX NOX	mg/Nm³ mg/Nm³ mg/Nm³	PLANT STOPPED	SINCE 25.12.2023
				09-01-2024	25-01-2024
_		SPM	mg/Nm³	22.7	28.4
5	New Power Plant	sox	mg/Nm³	516.14	372.04
	(Boiler No. 3 & 5)	NOX	mg/Nm³	19.1	13.9
				09-01-2024	25-01-2024
6	New Power Plant (Boiler No. 5)	sox	mg/Nm³	94.32	73.36
_	On all Owner bloom Holls			11-01	-2024
7	Coal Crushing Unit	SPM	mg/Nm³	93	3.6
	Rayon Process Stack.			05-01-2024	18-01-2024
	(a) Old	CS2 Emission	Kg/ton of yarn	105.7	92.0
	<i>、,</i>	H2S Emission	Kg/ton of yarn	18.3	12.3
8			_		
	(1.) NI			05-01-2024	18-01-2024
	(b) New	CS2 Emission	Kg/ton of yarn	167.9	155.1
		H2S Emission	Kg/ton of yarn	30.0	24.2
9	Hypochlorite Stack.	CI2		12-01-2024	27-01-2024
•	Trypocinorite otack.	312	mg/Nm³	0.220	0.210
			Τ	12-01-2024	27-01-2024
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	3.84	3.88
		Chlorine	mg/Nm³	0.410	0.460

/lonth	: FEBRUARY - 2024	· · · · · · · · · · · · · · · · · · ·	DNITOKING REPORT		
Sr.no.	Stack Location.	Type of	Unit	Analysis	
		pollutant.		Sampling Date	Sampling Date
1	Sulphuric Acid Plant.	SO2	Kg/MT of 100 % H2SO4	13-02-2024 0.11	27-02-2024 0.10
	(DCDA)	Acid Mist	mg/Nm³	18.4	24.5
				13-02-2024	27-02-2024
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	0.28	0.25
	(000/1)	Acid Mist	mg/Nm³	42.9	36.8
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED	SINCE 01.06.2022
4	Old Power Plant (Boiler No. 1 & 2)	SPM SOX NOX	mg/Nm³ mg/Nm³ mg/Nm³	PLANT STOPPED	SINCE 25.12.2023
				09-02-2024	29-02-2024
_		SPM	mg/Nm³	22.0	17.6
5	New Power Plant	sox	mg/Nm³	447.0	448.0
	(Boiler No. 3 & 5)	NOX	mg/Nm³	10.4	13.1
				09-02-2024	29-02-2024
6	New Power Plant (Boiler No. 5)	sox	mg/Nm³	68.1	78.6
_				13-02	-2024
7	Coal Crushing Unit	SPM	mg/Nm³	84	.5
	Rayon Process Stack.			12-02-2024	27-02-2024
	(a) Old	CS2 Emission	Kg/ton of yarn	26.0	28.9
	(.,	H2S Emission	Kg/ton of yarn	5.1	6.7
8			<u> </u>		
•				12-02-2024	27-02-2024
	(b) New	CS2 Emission	Kg/ton of yarn	139.1	122.0
		H2S Emission	Kg/ton of yarn	26.1	28.0
9	Hypochlorite Stack.	CI2		13-02-2024	28-02-2024
3	Trypochionite Stack.	GIZ	mg/Nm³	0.230	0.240
				13-02-2024	28-02-2024
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	4.46	4.50
		Chlorine	mg/Nm³	0.380	0.410

	: MARCH - 2024				
Sr.no.	Stack Location.	Type of	Unit	Analysis	
		pollutant.		Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO2	Kg/MT of 100 % H2SO4	12-03-2024 0.09	26-03-2024 0.14
	(BODA)	Acid Mist	mg/Nm³	30.6	24.5
				12-03-2024	26-03-2024
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	0.16	0.14
		Acid Mist	mg/Nm³	42.9	36.8
3	Boiler no. 4 (Coal fired)	SPM SOX NOX	mg/Nm³ PPM PPM	PLANT STOPPED	SINCE 01.06.2022
4	Old Power Plant (Boiler No. 1 & 2)	SPM SOX NOX	mg/Nm³ mg/Nm³ mg/Nm³	PLANT STOPPED	SINCE 25.12.2023
				13-03-2024	28-03-2024
_		SPM	mg/Nm³	13.9	11.8
5	New Power Plant	sox	mg/Nm³	476.8	510.9
	(Boiler No. 3 & 5)	NOX	mg/Nm³	9.8	10.2
				13-03-2024	28-03-2024
6	New Power Plant (Boiler No. 5)	sox	mg/Nm³	70.7	83.8
				15-03-	-2024
7	Coal Crushing Unit	SPM	mg/Nm³	91	.7
	Rayon Process Stack.			11-03-2024	20-03-2024
	(a) Old	CS2 Emission	Kg/ton of yarn	53.2	76.0
		H2S Emission	Kg/ton of yarn	16.0	11.3
8			_		
-				11-03-2024	20-03-2024
	(b) New	CS2 Emission	Kg/ton of yarn	129.3	166.5
		H2S Emission	Kg/ton of yarn	27.4	20.7
9	Hypochlorite Stack.	CI2		10-03-2024	20-03-2024
	Trypocinorite otack.	OIZ.	mg/Nm³	0.220	0.230
				10-03-2024	20-03-2024
10	HCL Plant Stack	HCL Vapour & Mist	mg/Nm³	4.47	4.50
		Chlorine	mg/Nm³	0.390	0.400





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/01 (ULR-TC709924000004179F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Verasa				Gujarat 352266.	
2.	Sample ID: 1834918246	067FB24SE01	T	3. Client R	Client Representative: Mr.Shailendra Rathore	
4.	Sample Date: 16.02.2024			5. Samplin	g Location: Power Plant No	ew (Boiler 3 & 5)
6.	Sampling Time: 11:20 hr			7. Samplin	g Duration: 60 Mins	
8.	Analysis commenced on: 2	1.02.2024		9. Analysis	Completed on: 21.02.2024	4
10.	Reporting Date: 26.02.202	4		 Disciplin 	ne: Chemical	
12.	Sample Collected By: Mr. P	arag Shah		Group:	Atmospheric Pollution	
14.	Sampling Procedure: IS Me	thod		 Product 	: Stack Emission	
16.	Description of Sample:	Sampling Bottle	s: 5	ealed √	Thimble:Packed	Bladder: Clamped
17.	Sample Received Date: 2	21.02.2024				
			ST	ACK DETAIL	S	
					B 1.41	_
S.No.	<u>Parameters</u>	Unit (SI)			Descriptio	en .
S.No. 1.	<u>Parameters</u> Source	Unit (SI)	(0.)	Power Plan	Description t New (Boiler 3 & 5)	<u>n</u>
	-	Unit (SI)	4	Power Plan		in.
1.	Source			7.37.17.17.17.17.17.17.17.17.17.17.17.17.17		10
1.	Source Height	m	2 : :	121.5		<u> </u>
1. 2. 3.	Source Height Diameter	m	0 0 0 0	121.5 6500		10.
1. 2. 3. 4.	Source Height Diameter Temperature	oc mm	0 0 0 0 0 0	121.5 6500 139 6.94		20
1, 2, 3, 4, 5,	Source Height Diameter Temperature Velocity	oc mm	0 0 0 0 0 00 00	121.5 6500 139 6.94	t New (Boiler 3 & 5)	20.
1. 2. 3. 4. 5.	Source Height Diameter Temperature Velocity Type of fuel used	m mm °c m/s	100	121.5 6500 139 6.94 30% Lignite	t New (Boiler 3 & 5) + 70% Imported Coal	
1. 2. 3. 4. 5.	Source Height Diameter Temperature Velocity Type of fuel used	m mm °c m/s	100	121.5 6500 139 6.94 30% Lignite	t New (Boiler 3 & 5) + 70% Imported Coal	Method Used
1. 2. 3. 4. 5. 6. 7.	Source Height Diameter Temperature Velocity Type of fuel used Quantity of fuel used	m mm °c m/s MT/hr	100	121.5 6500 139 6.94 30% Lignite 14 ST RESULT	+ 70% Imported Coal Specification/SPC8	
1, 2, 3, 4, 5, 6, 7,	Source Height Diameter Temperature Velocity Type of fuel used Quantity of fuel used Parameters	m mm °C m/s MT/hr	TE	121.5 6500 139 6.94 30% Lignite 14 ST RESULT:	+ 70% Imported Coal Specification/SPCB Norms/BIS Standards	Method Used

Name: Sapana Amin

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

Designation: Lab Incharge

The results reported above relate to the sample identified under Sample Dotalis.

TEST REPORT FORMAT - STACK				
OC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03		
office Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021		





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/02 (ULR-TC709924000004180F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Verava				I, Gujarat 362266.	
2.	Sample ID: 1834918246 -	067FB24SE02		3. Client	Representative: Mr.Shailend	ra Rathore
4.	Sample Date: 16,02,2024			5. Sample	ing Location: Coal Mill	
6.	Sampling Time: 09:15 hr			7. Sample	ing Duration: 30 Mins	
8.	Analysis commenced on: 2	1.02.2024		9. Analys	sis Completed on: 21.02.202	9
10.	Reporting Date: 26.02.202	4		11. Discip	line; Chemical	
12.	Sample Collected By: Mr. P	arag Shah		13. Group	: Atmospheric Pollution	
14.	Sampling Procedure: IS Me	ethod		15. Produ	ct: Stack Emission	
16.	Description of Sample:	Sampling Bottle	5: 5	Sealed	Thimble:Packed√	Bladder: Clamped
17.	Sample Received Date:	21.02.2024				
			ST	ACK DETAI	LS	
S.No.	Parameters	Unit (SI)	Г	Description		
1.	Source		1	: Coal Mill		
2.	Height	m	1	52		
3.	Diameter	mm	1	600		
4.	Temperature	"C	1	34		
5.	Velocity	m/s	1	10.49		
6.	Type of fuel used		1	N.A.		
7.	Quantity of fuel used		1	N.A.		
	194.9854.094.01.00009.144.0000-0004		I	EST RESULT	rs	
S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	Particulate Matter	mg/Nm³	1	88	150	IS 11255 (Part 1): 1985
Remai	rk: [y]	2				W W W
Land Jacky Strict (Highly	rized By - Stulle	7				
Name	: Sapana Amin			Designa	ation: Lab Incharge	

NOTE:

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details,

----END OF REPORT-

	TEST REPORT FORMAT - STACK	
DOC: NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/03 (ULR- TC709924000004181F)

SAMPLE DETAILS

		=		II AL DEIN		
1.	Name & Address of Client: Unit - Indian Rayon, Verava		950		, Gujarat 362266.	
2.	Sample ID: 1834918246 -		T	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Representative: Mr.Shailend	ra Rathore
4.	Sample Date: 13.02.2024		Т	5. Sampl	ing Location: Old Sulphuric A	cid Plant
6.	Sampling Time: 15:00 hr			7. Sampl	ing Duration: 20 Mins	N.CIII.N.Y.II
В.	Analysis commenced on: 2	1.02.2024		9. Analys	sis Completed on: 21,02,202	
10.	Reporting Date: 26.02.2024	4	I	11. Discip	line: Chemical	
12.	Sample Collected By: Mr. P.	arag Shah		13. Group	: Atmospheric Pollution	
14.	Sampling Procedure: IS Me	thod		15. Produ	ct: Stack Emission	
16.	Description of Sample:	Sampling Bottles	s: S	Sealed √	Thimble:Packed	Bladder: Clamped
17.	Sample Received Date: 2	21.02.2024				
			ST	ACK DETAI	LS	
S.No.	Parameters	Unit (SI)			Descriptio	n
1.	Source		1	Old Sulphuric Acid Plant		
2.	Height	m		30		
3.	Diameter	mm	:	500		
4.	Temperature	0C	1	42		
5.	Velocity	m/s	:	7.92		
6.	Type of fuel used		:	N.A.		
7.	Quantity of fuel used		:	N.A.		
	77-6-1-111800-27-00-0000		TE	ST RESULT	rs .	
S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
t.	Sulphur Dioxide(SO ₂)	Kg/ton of100% Add production	1	0.0051	2	IS 11255 (Part 2): 1985
Remai	11/10	12 100				10
	rized By - 1000					
Name	: Sapana Amin			Designa	tion : Lab Incharge	

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details. ---END OF REPORT-----

TEST REPORT FORMAT - STACK				
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03		
ffective Date:, 01.03,2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021		





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/04 (ULR-TC709924000004182F)

SAMPLE DETAILS

			-					
1.	Name & Address of Client: Unit - Indian Rayon, Verava				/eraval,	Gujarat 362266.		
2.	Sample ID: 1834918246 -	057FB24SE04	T	3.	Client Representative: Mr.Shailendra Rathore			
4.	Sample Date: 13.02.2024			5.	Samplin	g Location: New Sulphuric	Acid Plant	
6.	Sampling Time: 16:00 hr			7.	Samplin	g Duration: 20 Mins		
8.	Analysis commenced on: 21.02.2024			9.	Analysis	Completed on: 21.02.2024	¥	
10.	Reporting Date: 26.02.2024	Ŧ	1	11.	Disciplin	ne: Chemical		
12.	Sample Collected By: Mr. P.	arag Shah		13.	Group:	Atmospheric Pollution		
14.	Sampling Procedure: IS Me	thod		15.	Product	: Stack Emission		
16.	Description of Sample:	Sampling Bottles	s: S	icaled	ealed √ Thimble:Packed Bladder: Clar			
17.	Sample Received Date: 2	21.02.2024						
			ST	ACK D	ETAIL	<u>s</u>		
S.No.	Parameters	Unit (SI)			Description			
1.	Source		:	New	New Sulphuric Acid Plant			
2.	Height.	105	:	30	30			
3,	Diameter	mm	:	350				
4.	Temperature	°c	:	43				
5.	Velocity	m/s	:	8.69				
6.	Type of fuel used		:	N.A.				
7.	Quantity of fuel used		:	N.A.				
	-		TE	ST R	SULTS	5		
S. No.	Parameters	Unit (SI)		Re	sults	Specification/SPCB Norms/BIS Standards	Method Used	
1.	Sulphur Dioxide(SO ₂)	Kg/ton of100% Acid production	1	0.	0029	2	IS 11255 (Part 2): 1985	
Remar	D. Strangerson and D. Strangerso							
minorphose I decolor/seed to	rized By					AMANON BOOK TO THE SAME		
Name : Sapana Amilii					Designation : Lab Incharge			

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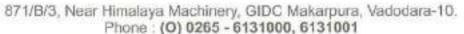
 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

4.0	TEST REPORT FORMAT - STACK	
OC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
ective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/05

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Verava				Gujarat 362265.			
2.	Sample ID: 1834918246 -	067FB24SE05	3.	Client R	Client Representative: Mr.Shailendra Rathore			
4.	Sample Date: 14.02.2024		5,	Samplin	g Location : HCL Stack (Ca	ustic Soda Plant)		
6.	Sampling Time: 11:15 hr		7.	Samplin	g Duration: 20 Mins			
8.	Analysis commenced on: 2	1.02,2024	9.	Analysis	Completed on: 21.02.2024	4		
10.	Reporting Date: 26.02.202-	4	11.	Disciplin	ne: Chemical			
12.	Sample Collected By: Mr. P	arag Shah	13.	Group:	Atmospheric Pollution			
14.	Sampling Procedure: IS Me	thod	15.	Product	: Stack Emission			
15.	Description of Sample:	Sampling Bottles	: Seal	led √	Thimble:Packed	Bladder: Clamped		
17.	Sample Received Date:	21.02.2024						
'			STAC	K DETAIL	5			
S.No.	Parameters	Unit (SI)		Description				
1.	Source		: н	HCL Stack (Caustic Soda Plant)				
2.	Height	m	: 34	34				
3.	Diameter	mm	: 20	00				
4.	Temperature	o _C	: 30)				
5.	Velocity	m/s	1 6.	59				
δ.	Type of fuel used		: N.	Α.				
7.	Quantity of fuel used		: N.	A.				
	Vi-		TEST	RESULTS	S .			
S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used		
1.	HCL	mg/Nm³	+	20.73	35	15 11255 (Part 1) :1985		
Remar	k:00	On the second se						
Author	rized By - Stully	7						
Name : Sapana Amin				Designation : Lab Incharge				

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

The second secon	TEST REPORT FORMAT - STACK	
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
Effective Date:, 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/06 (ULR- TC709924000004183F)

SAMPLE DETAILS

					-	No.		
1.	Name & Address of Client: Unit - Indian Rayon, Verava				Veraval,	Gujarat 362266.		
2.	Sample ID: 1834918246 -	057FB24SE06	T	3.	Client Representative: Mr.Shailendra Rathore			
4.	Sample Date: 14.02.2024		1	5.	Samplin	g Location: Old Rayon Plan	t	
6.	Sampling Time: 10:00 hr			7,	Samplin	g Duration: 20 Mins		
8.	Analysis commenced on: 21.02.2024		9.	Analysis	Completed on: 21.02.2024	¥7		
10.	Reporting Date: 26.02.2024	1		11.	Disciplin	ie; Chemical		
12.	Sample Collected By: Mr. P	arag Shah		13.	Group:	Atmospheric Pollution		
14.	Sampling Procedure: IS Me	thod		15.	Product	Stack Emission		
16.	Description of Sample:	Sampling Bottles	st S	icale	1√	Thimble:Packed	Bladder: Clamped	
17.	Sample Received Date: 2	21.02.2024						
			ST	ACK	DETAIL	S		
S.No.	Parameters	Unit (SI)			Description			
1.	Source		:	Old	Old Rayon Plant			
2.	Height	m	:	52.5				
3.	Diameter	mm	:	850	8500			
4.	Temperature	°C	;	36				
5.	Velocity	m/s	1	7.18	3			
6.	Type of fuel used		:	N.A.	(0			
7.	Quantity of fuel used		:	N.A.				
1270-11			TE	ST R	RESULTS			
S. No.	Parameters	(SI)		Ē	tesults	Specification/SPCB Norms/BIS Standards	Method Used	
1.	H ₂ S	log /MT of yarn production	:		2.40	30	IS 11255 (Part - 4)-1985 Colorimetric Method	
Remar	The second secon	7					V. TILINGUINIS AUTON	
	rized By - LUCE			-				
Name : Sapana Antin					Designation : Lab Incharge			

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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

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TEST REPORT FORMAT - STACK					
DOC, NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03			
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021			





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/07 (ULR-TC709924000004184F)

SAMPLE DETAILS

		=				Dat.		
1.	Name & Address of Client: Unit - Indian Rayon, Veravo				Veraval,	Gujarat 362266.		
2.	Sample ID: 1834918246 -		T	3.	Client Representative: Mr. Shailendra Rathore			
4.	Sample Date: 14.02.2024		5.	Samplin	ng Location : New Rayon Pk	int		
6.	Sampling Time: 10:30 hr		Т	7.	Samplin	ng Duration: 20 Mins		
8.	Analysis commenced on: 2	1.02.2024	Τ	9.	Analysis	Completed on: 21.02.2024	E	
10.	Reporting Date: 26.02.2024	1	T	11.	Disciplin	ne: Chemical		
12.	Sample Collected By: Mr. P	arag Shah	T	13.	Group:	Atmospheric Pollution		
14.	Sampling Procedure: 15 Me	thod		15.	Product	: Stack Emission	,,	
16.	Description of Sample:	Sampling Bottles	s: 5	ealed	V	Thimble:Packed	Bladder: Clamped	
17.	Sample Received Date: 3	21.02.2024						
	1	- 1	ST	ACK I	DETAIL	S		
S.No.	Parameters	Unit (SI)	Г	Description				
1.	Source		:	New Rayon Plant				
2.	Height	m	:	52.5				
3.	Diameter	mm	:	5800				
4.	Temperature	*C	1	37				
5.	Velocity	m/s	1	8.02				
6.	Type of fuel used		1	N.A.				
7.	Quantity of fuel used		1	N.A.				
			I	EST R	ESULTS	5	7	
S. No.	Parameters	Unit (51)		R	esults	Specification/SPCB Norms/BIS Standards	Method Used	
1.	H.S	kg /MT of yern production	1		1.45	30	IS 11255 (Part - 4)-198. Colorimetric Method	
Remai	The same of the sa	-						
-	rized By - LUCE)		- 10				
Name : Sapana Amin				D	Designation : Lab Incharge			

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - STACK					
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03			
Effective Date: . 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021			





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/08 (ULR- TC709924000004185F)

SAMPLE DETAILS

			24.11	11 100 10 11 11	MARK.			
1.	Name & Address of Client: Unit - Indian Rayon, Veravo				Gujarat 362266.			
2.	Sample ID: 1834918246 -	067FB24SE08	T	3. Client P				
4.	Sample Date: 14.02.2024 5.		5. Samplin	ng Location: CL2 Stack (car	ustic soda plant)			
6.	Sampling Time: 12:00 hr			7. Samplir	ng Duration; 20 Mins			
8.	Analysis commenced on: 21.02.2024 9.			9. Analysis	s Completed on: 21.02.202	4		
10.	Reporting Date: 26.02.202	1		11. Discipli	ne: Chemical			
12.	Sample Collected By: Mr. P.	arag Shah		13. Group:	Atmospheric Pollution			
14.	Sampling Procedure: 1S Me	ethod		15. Product	: Stack Emission			
16.	Description of Sample:	Sampling Bottle	s: 5	Sealed √	Bladder: Clamped			
17.	Sample Received Date: .	21.02.2024						
			ST	ACK DETAIL	<u>s</u>			
S.No.	Parameters	Unit (SI)		Description				
1.	Source		:	: CL2 Stack (caustic soda plant)				
2.	Height	m	1:	: 34				
3.	Diameter	mm	:	100				
4.	Temperature	°C	:	32				
5.	Velocity	m/s	1	6.97				
6.	Type of fuel used		2	N.A.				
7.	Quantity of fuel used		1	N.A.				
	The state of the s		TE	ST RESULT	<u>s</u>	,		
S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used		
1.	CLi	mg /Nm ¹	1	3.15	15	15 : 5182 (Part XIX) : 1962		
Remai	rk: N		-		10.1	101		
تتمامات فنطبون	The second secon	7						
Name	: Sapana Amin		-	Designat	Designation : Lab Incharge			
Authorized By - Suff				Designat	Designation : Lab Incharge			

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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - STACK	
DOC: NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/09

SAMPLE DETAILS

					E-M-12-18-2	ice.	
1.	Name & Address of Client: Unit - Indian Rayon, Verav.	[[시주시다] [[[인데 [인데 [인데 [인데 [인데 [인데 [인데 [인데 [인데 [Veraval,	Gujarat 362266.	
2.	Sample ID: 1834918246	067FB24SE03		3.	Client Representative: Mr.Shailendra Rathcre		
4.	Sample Date: 13.02.2024	0.00020000000		5.	Samplin	g Location: Old Sulphuric	Acid Plant
6.	Sampling Time: 15:00 hr			7.	Samplin	g Duration: 20 Mins	
8.	Analysis commenced on: 21.02.2024			9.	Analysis	Completed on: 21.02.202	4
10.	Reporting Date: 25.02.202	4		11.	Disciplin	e: Chemical	
12.	Sample Collected By: Mr. F	arag Shah		13,	Group:	Atmospheric Pollution	
14.	Sampling Procedure: IS Me	ethod		15.	Product	: Stack Emission	
16.	Description of Sample:	Sampling Bottle	s: S	Sealec	ealed √ Thimble:Packed Bladder: Cla		
17.	Sample Received Date:	21.02.2024					
			ST	ACK	DETAIL	S	
S.No.	Parameters	Unit (SI)	П		Description		
1.	Source		:	Old	Old Sulphuric Acid Plant		
2.	Height	m		30	30		
3.	Diameter	mm	:	500			
4.	Temperature	n _C	*	42			
5.	Velocity	m/s	:	7.92			
5.	Type of fuel used		:	N.A.			
7.	Quantity of fuel used		:	N.A.			
			I	EST R	ESULTS	i	
S. No.	Parameters	Unit (SI)		B	esults	Specification/SPCB Norms/BIS Standards	Method Used
1,	Acid Mist	mg/Nm³	1		11.7	50	APHA 23 rd Edition (2310-8)
Remai	k:	_				No. 11 (1974)	
Autho	rized By - Sulli)					
Name	Name : Sapana Amin			D	Designation : Lab Incharge		

NOTE:

- Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- The results reported above relate to the sample identified under Sample Details. -- END OF REPORT--

TEST REPORT FORMAT - STACK					
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03			
Effective Date:, 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021			

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/10

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Verava				Gujarat 362266.	
2.	Sample ID: 1834918246 -	The second secon		CONTRACTOR	Representative: Mr.Shailend	ra Rathore
4.	Sample Date: 13.02.2024	200000000000000000000000000000000000000		5. Sampli	ng Location: New Sulphuric	Acid Plant
6.	Sampling Time: 16:00 hr			7. Sampli	ng Duration; 20 Mins	
8.	Analysis commenced on: 2	1.02.2024		9. Analys	s Completed on: 21.02.202	4
10.	Reporting Date: 26.02.202	4		11. Discipli	ne: Chemical	
12.	Sample Collected By: Mr. P	arag Shah		13. Group:	Atmospheric Pollution	
14.	Sampling Procedure: IS Me	thod		Produc	t: Stack Emission	
16.	Description of Sample:	Sampling Bottle	s: S	iealed V	Thimble:Packed	Bladder: Clamped
17.	Sample Received Date: 2	21.02.2024				
			ST	ACK DETAIL	<u>.s</u>	
S.No.	Parameters	Unit (SI)	T		Description	n
1.	Source		1	New Sulph	uric Acid Plant	
2.	Height	(2)	1	30	Maria de la Companya	
3.	Diameter	mm	1	350		
4.	Temperature	PC PC	1	43		
5.	Velocity	m/s	1	8.69		
6.	Type of fuel used		:	N.A.		
7.	Quantity of fuel used		2	N.A.		
			TE	ST RESULT	<u>s</u>	
S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BTS Standards	Method Used
1.	Acid Mist	mg/Nm¹	1	15.2	50	APHA 23 rd Edition (2310 B)
Remar	rk: (Y)	-				
	the second second	-1-				
	: Sapana Amin	1			tion : Lab Incharge	

NOTE:

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- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

TEST REPORT FORMAT - STACK							
DOC. NO.: LAB-FNT-052	Issue No.: 02	Revision No.: 03					
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021					

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/11

SAMPLE DETAILS

		9	SPACE	TP Selec	DE INA	to all		
1.	Name & Address of Client: Unit - Indian Rayon, Veravo				Veraval,	Gujarat 362266.		
2.	Sample ID: 1834918246	Annual Annual Control of Manager Street Control of Cont	T	3,	Particular and the Control of the Co		ndra Rathore	
4.	Sample Date: 14.02.2024			5.	Samplin	ng Location: Old Rayon Pla	nt	
6.	Sampling Time: 10:00 hr			7.	Samplin	ng Duration: 20 Mins		
8.	Analysis commenced on: 2	1.02.2024		9.	Analysis	Completed on: 21.02.202	1	
10.	Reporting Date: 26.02.202	4		11.	Disciplin	ne: Chemical		
12.	Sample Collected By: Mr. P.	arag Shah		13.	Group:	Atmospheric Pollution		
14.	Sampling Procedure: IS Me	thod		15.	Product	: Stack Emission		
16.	Description of Sample:	Sampling Bottles	5: 5	Sealed	icaled √ Thimble:Packed Bladder: Clamped			
17.	Sample Received Date:	21.02.2024						
			ST	ACK I	DETAIL	S		
S.No.	Parameters	Unit (SI)	Г			Descriptio	n	
1.	Source		:	Old	Rayon P	lant		
2.	Height	m	1:	52.5		N44000		
3.	Diameter	mm	:	8500				
4.	Temperature	°C	:	36				
5.	Velocity	m/s		7.18				
6.	Type of fuel used		1	N.A.				
7.	Quantity of fuel used		:	N.A.				
	W		TI	EST R	ESULTS	5		
S. No.	Parameters	Unit (SI)		R	esults	Specification/SPCB Norms/BIS Standards	Method Used	
1.	CS ₂	kg /MT of yarn production	-	- (55.50	200	IS 11255 (Part - 4)-1985	
Remar	rk:(½	-						
versio/technik/switch/swit	rized By			1//				
Name	: Sapana Amin			D	esignat	ion : Lab Incharge		

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The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - STACK							
DOC. NO.: LAB-FNT-052	Issue No.: 02	Revision No.: 03					
ffective Date: . 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021					

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - STACK

REPORT NO.: FEB24/067/12

SAMPLE DETAILS

2.	Unit - Indian Rayon, Verav. Sample ID: 1834918246 -		1					
4.	Sample Date: 14.02.2024		t		g Location : New Rayon Pla			
6.	Sampling Time: 10:30 hr		t		g Duration: 20 Mins			
8.	Analysis commenced on: 2	1.02.2024	T		Completed on: 21.02.2024	į.		
10.	Reporting Date: 26,02,202	4	T	11. Disciplin	e: Chemical			
12.	Sample Collected By: Mr. P.	arag Shah		13. Group:	Atmospheric Pollution			
14.	Sampling Procedure: IS Me	thod		Product	: Stack Emission			
16.	Description of Sample:	Sampling Bottles	: 5	ealed √	Thimble:Packed	Bladder: Clamped		
17.	Sample Received Date:	21.02.2024						
			ST	ACK DETAIL	S			
S.No.	Parameters	Unit (SI)	П	Description				
1,	Source			New Rayon	Plant			
2.	Height	m	:	52.5	-,6370			
3.	Diameter	mm	:	5800				
4.	Temperature	o _C	*	37				
5.	Velocity	m/s	i	8.02				
- D+	Type of fuel used		:	N.A.				
6.	The second secon		1	N.A.				
	Quantity of fuel used		100					
6.	Quantity of fuel used		TE	ST RESULTS				
6.	Quantity of fuel used Parameters	Unit (SI)	TE	ST RESULTS Results	Specification/SPCB Norms/BIS Standards	Method Used		

Name: Sapana Amin

Designation: Lab Incharge

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	TEST REPORT FORMAT - STACK	
DOC. NO.: LAB-FMT-052	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/13 (ULR-TC709924000004186F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.								
2.	Sample ID: 1834918246 -	067FB24AQ01		3.	Client Representative: Mr. Shailendra Rathore				
4.	Sampling Date: 13.02.202	4		5.	Sampling Location: ON The Adm Office Terrace				
6.	Sampling time: 12:20 hr			7.	Sampling Duration: 24 Hrs				
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 21,02,2024				
10.	Reporting Date: 26.02.202	23.13		11.	Discipline: Chemical				
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Pollution				
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air				
16.	Description of Sample:	Sampling E	Bottles: Seale	d√	Filter Paper: Packed √	Bladder: Clamped			
17.	Environment Condition:	Temp: Normal	Humidity: M	oderate	Wind speed: Moderate	Cloud cover: Clear sky			
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial			
18.	Sample Received Date: 21	.02.2024							

TEST RESULTS

S. No.	Parameters	Unit (51)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	PM ₁₀	μg /m ³	3	69	100	15 5182 (Part 23) : 2006
2.	PM 2.5	μg /m³	3	31	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	μg /m³	:	7.24	60	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	μg /m²	1	10.39	80	IS 5182 (Part 6) :2006
5.	CL2	μg /m³	3	B.D.L.	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m³	1	B.D.L	150	IS: 11255 (Part - 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By - UUC

Name : Sapana Amin

Designation: Lab Incharge

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	TEST REPORT FORMAT - AMBIENT	V
DOC, NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01:03.2021	Issue Date: 01-01-2015-	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/14 (ULR-TC709924000064187F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray	A DOMESTIC OF THE PARTY OF THE		Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ02		3.	Cient Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 13.02.202	4		5.	Sampling Location: On G	uest house Terrace	
6.	Sampling time: 12:20 hr				Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	4		11.	Discipline: Chemical		
12.	Sample Collected By: Mr.			13.	Group: Atmospheric Polls	ution	
14.	Sampling Procedure: IS M			15.	Product: Ambient Air		
16.	Description of Sample:	Sampling E	Bottles: Sealer	d V	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mo	oderate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	(SI)	П	Results	Specification/SPC0 Norms/BIS Standards	Method Used
1.	PM _{t0}	μg /m ²	1	64	100	IS 5182 (Part 23) : 2006
2.	PM 2.5	µg /m³	:	28	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	µg /m³	3	8.27	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NOx)	#g /m³	1	13.28	80	IS 5182 (Part 6) :2006
5.	CL)	µg /m³	3	B.D.L	100	15 : 5182 (Part XIX) : 1982
6.	H₂S	μg /m³	4	B.D.L	150	IS: 11255 (Part - 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By -

Name : Sapana Amin

Designation: Lab Incharge

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/15 (ULR- TC709924000004188F)

SAMPLE DETAILS

	100 miles 100 mi									
1.	Name & Address of Client: M/s, Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.									
2.	Sample ID: 1834918246 -	067FB24AQ03		3.	Client Representative: Mr. Shailendra Rathore					
4.	Sampling Date: 13.02.202	4		5,	Sampling Location: On Ho	ostel Terrace				
6.	Sampling time: 11:55 hr			7.	Sampling Duration: 24 Hrs					
8.	Analysis commenced on: 21.02,2024				Analysis Completed on: 21.02.2024					
10.					Discipline: Chemical					
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Pollution					
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air	5				
16.	Description of Sample:	Sampling E	lottles: Sealed	d√	Filter Paper: Packed √	Bladder: Clamped				
17.	Environment Condition:	Temp: Normal	Humidity: M	oderate	Wind speed: Moderate	Cloud cover: Clear sky				
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industria				
18.	Sample Received Date: 21	.02.2024								

TEST RESULTS

Si No.	<u>Parameters</u>	(SI)	П	Besults	Securification/SPCB Norms/BIS Standards	Method Used
1.	PM ₁₀	μg /m²	1	61	100	IS 5182 (Part 23) : 2006
2	PM 2.5	μg./m²	1	26	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	дg /m ³	3	9.31	80	1S 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	pg/m³	4	12.37	80	15 5182 (Part 6) :2006
5.	CLz	μg /m³	1	B.D.L	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m²	3	B.D.L	150	IS: 11255 (Part - 4)-198 Colorimetric Method

Remark: B.D.L; - Below Detection Limit.

Authorized By -

Name : Sapana Amin

Designation: Lab Incharge

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The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - AMBIENT	
DOC: NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/16 (ULR- TC709924000004189F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray			Verava	il, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ04		3.	Client Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 13.02.202	4		5.	Sampling Location: On Caustic plant Terrace		
6.	Sampling time: 11:20 hr				Sampling Duration: 24 Hr	S	
8.	Analysis commenced on: 21.02.2024				Analysis Completed on: 2	1.02.2024	
10.	The state of the s	teporting Date: 26.02.2024					
12.	Sample Collected By: Mr. I	Parag Shah		13.	Group: Atmospheric Pollu	tion	
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air		
16.	Description of Sample:	Sampling 8	lotties: Sealed	ı√	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: M	oderate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wood blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	(51)	П	Basults	Specification/SPCII Norms/BIS Standards	Method Used
1.	PM _{L0}	µg /m³	-1	59	100	IS 5182 (Part 23) : 2006
2.	PM z.s	µg /m³	:	29	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	μg./m³	4	5,21	80	IS 5182 (Part 2) :2001
4,	Oxides of Nitrogen (NO _x)	μg /m ¹	4	10.91	80	IS 5182 (Part 6) :2006
5.	CL ₂	μg /m³	1	B.D.L	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m³	į.	B.D.L	150	15: 11255 (Part - 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By -

Name : Sapana Amin

Designation : Lab Incharge

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

AND WEST PROPERTY AND ARRANGED TO	TEST REPORT FORMAT - AMBIENT	III
DOC, NO.: LAB-FMT-051	Issue No.; 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/17 (ULR- TC709924000004190F)

SAMPLE DETAILS

l.	Name & Address of Client Unit - Indian Rayon, Veran			Verava	I, Gujarat 362266.	VE-1/100-11-11-11-11-11-11-11-11-11-11-11-11-		
2.	Sample ID: 1834918246 -	067FB24AQ05		3.	Client Representative: Mr. Shailendra Rathore			
4.	Sampling Date: 14.02.202	4		5.	Sampling Location: Jales	hwar Temple		
6.	Sampling time: 14:10 hr			7,	Sampling Duration: 24 F	lrs .		
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on:	ted on: 21.02,2024		
10.	Reporting Date: 26.02.202	24		11.	Discipline: Chemical			
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Poll	ution		
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air	us accomption to		
16.	Description of Sample:	Sampling E	lottles: Sealer	d √	Filter Paper: Packed √	Bladder: Clamped		
17.	Environment Condition:	Temp: Normal	Humidity: Mo	oderate	Wind speed: Moderate	Cloud cover: Clear sky		
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industria		
18.	Sample Received Date: 21	.02.2024						

TEST RESULTS

No.	Parameters	(SI)	П	Results	Specification/SPC8 Norms/BIS Standards	Method Used
1.	PM _{t0}	μg./m ³	3	68	100	IS 5182 (Part 23) : 2006
2.	PM 25	μg /m ³	1	33	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	μg /m ³	:	8.27	90	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _k)	μg /m ³	1	11.88	80	IS 5182 (Part 6) :2006
5.	CL2	μg /m ³	3	B.D.L	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m³		B.D.L	150	15 11255 (Part – 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By

Name : Sapana Amin

NOTE:

Designation : Lab Incharge

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- The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - AMBIENT	
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/18 (ULR-TC709924000004191F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 - 067FB24AQ06				Client Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 14.02.202	4		5.	Sampling Location: Kirmani Nagar		
6.	Sampling time: 14:40 hr				Sampling Duration: 24 H	frs	
8.	Analysis commenced on: 21.02.2024				Analysis Completed on: 21.02.2024		
10.					Discipline: Chemical		
12.	Sample Collected By: Mr. I	Parag Shah		13.	Group: Atmospheric Poll	ution	
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air		
16.	Description of Sample:	Sampling 6	Bottles: Sealed	V	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mo	oderate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industria	
18.	Sample Received Date: 21	.02.2024	-99				

TEST RESULTS

5. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	PM ₁₀	μg /m ³		57	100	IS 5182 (Part 23): 2006
2.	PM 25	µg /m³	:	27	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₀)	pg /m ³	1	7.24	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	µg /m³	1	11.86	80	15 5182 (Part 6) :2006
5.	CL ₂	μg /m ³	13	B.D.L	100	15: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m³	:	B.D.L	150	IS 11255 (Part – 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By -

Name : Sapana Amin Designation : Lab Incharge

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/19 (ULR- TC709924000004192F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.								
2.	Sample ID: 1834918246 -	067FB24AQ07	******************	3.	Client Representative: Mr. Shailendra Rathore				
4.	Sampling Date: 15.02.202	4		5.	Sampling Location: IMD	Station			
6.	Sampling time: 15:00 hr				Sampling Duration: 24 H	irs			
В.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 21.02.2024				
10.	Reporting Date: 26.02.202	24		11.	The state of the s				
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Poll	ution			
14.				15.	Product: Ambient Air				
16.	Description of Sample:	Sampling B	Bottles: Sealer	ı V	Filter Paper: Packed √	Bladder: Clamped			
17.	Environment Condition:	Temp: Normal	Humidity: Mo	oderate	Wind speed: Moderate:	Cloud cover: Clear sky			
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industrial			
18.	Sample Received Date: 21	.02.2024							

TEST RESULTS

S. No.	Parameters	(SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	PM ₁₀	µg /m ³	1	62	100	IS 5182 (Part 23) : 2006
2.	PM 25	μg /m ³	1	33	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	μg /m³	3	9.73	80	IS 5182 (Part 2) ;2001
4.	Oxides of Nitrogen (NOx)	µg /m³	1	12.70	80	IS 5182 (Part 6) :2006
5	CL ₂	µg /m³	3	B.D.L	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	pg /m³	1	B.D.L	150	IS 11255 (Part - 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Ogtection Limit.

Authorized By

Name: Sapana Amin Designation: Lab Incharge

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

 END OF REPORT

TEST REPORT FORMAT - AMBIENT				
DOC, NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03		
Effective Date: 01.03,2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021		





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/20 (ULR-TC709924000004193F)

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 - 067FB24AQ08			3.	Client Representative: Mr. Shailendra Rathore		
4.	Sampling Date: 15.02.2024			5.	Sampling Location: Hudko Society		
6.	Sampling time: 15:25 hr			7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	ysis commenced on: 21.02.2024			Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	: 26.02.2024			Discipline: Chemical		
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Poll	ution	
14.	Sampling Procedure: IS M	ethod		15.	Product: Ambient Air		
16.	Description of Sample:	Sampling Bottles: Sealed √			Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Moderate		Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction: Up wind			Wind blowing from: NW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

<u>5.</u> No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	PM _{ID}	μg /m³	1	58	100	IS 5182 (Part 23) : 2006
2.	PM 25	μg /m²	:	30	60	Guidelines By CPCB(Vol-1)
3.	Sulphur Dioxide (SO ₂)	μg /m³	4	7.24	80	IS 5182 (Part 2) :2001
4.	Oxides of Nitrogen (NO _x)	μg /m ²	1	13.75	80	IS 5182 (Part 6) :2006
5.	CL ₂	μg /m ²	4	B.D.L	100	IS: 5182 (Part XIX): 1982
6.	H ₂ S	μg /m³	1	B.D.L	150	IS 11255 (Part – 4)-1985 Colorimetric Method

Remark: B.D.L: - Below Detection Limit.

Authorized By - UUUC Name : Sapana Amin

Name : Sapana Amin Designation : Lab Incharge

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - AMBIENT				
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03		
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021		

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/21

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray			Verava	, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ01		3.	Client Representative: Mr	r. Shallendra Rathore	
4.	Sampling Date: 13.02.202	024			Sampling Location: ON The Adm Office Terrace		
6.	Sampling time: 12:20 hr	r			Sampling Duration: 24 Hrs		
В.	Analysis commerced on: 2	1.02.2024		9.	Analysis Completed on: 21,02,2024		
10.	Reporting Date: 26.02.202			11.	Discipline: Chemical		
12.	Sample Collected By: Mr. I			13.	Group: Atmospheric Pollution		
14.				15.	Product: Ambient Air		
16.	Description of Sample:	Sampling 6	Bottles: Seale	d√	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: M	oderate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	Unit. (51)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	HCL.	μg /m ³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CSt	pg/m ³	1	B.D.L	100	IS 11255 (Part - 4)-1985

- Name: Sapana Amin Designation: Lab Incharge
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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
 - 3) The results reported above relate to the sample identified under Sample Details. -----END OF REPORT-----

TEST REPORT FORMAT - AMBIENT							
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03					
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021					

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/22

SAMPLE DETAILS

1.	Name & Address of Client Unit - Indian Rayon, Veras			erava	ıl, Gujarat 362266.		
2.	Sample ID: 1834918246	067FB24AQ02		3,	Client Representative: Mr	. Shailendra Rathore	
4.	Sampling Date: 13.02,202	4		5.	Sampling Location: On Guest house Terrace		
6,	Sampling time: 12:20 hr	0 hr			Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202			11.	Discipline: Chemical		
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS M		18	15.	Product: Ambient Air	Marin Indiana	
16.	Description of Sample:	Sampling B	lottles: Sealed y	1	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humicity: Mode	erate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	Unit (SI)		Results	Specification/SPCII Norms/BIS Standards	Method Used
1.	HCL.	μg /m ³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₂	µg /m ³	9	B.D.L	100	IS 11255 (Part - 4)-1985

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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

TEST REPORT FORMAT - AMBIENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.202				

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/23

SAMPLE DETAILS

1.	Name & Address of Client Unit - Indian Rayon, Veray			Verava	il, Gujarat 362266.		
2.	Sample ID: 1834918246 -	D67FB24AQ03	7	3.	Client Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 13.02.202	4		5.	Sampling Location: On Hostel Terrace		
6.	Sampling time: 11:55 hr	r			Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	1.02.2024		9.	Analysis Completed on: 21.02.2024		
10,	Reporting Date: 26.02.202	4		11.	Discipline: Chemical		
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Poilution		
14.	Sampling Procedure: 15 M			15.	Product: Ambient Air	***	
16.	Description of Sample:	Sampling B	lottles: Sealed	V	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mo	derate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	Unit (51)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	HCL	μg /m ³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₀	µg/m³	1	B.D.L	100	IS 11255 (Part - 4)-1985
	k: B.D.L: - Below Detection	Limit				
Name :	: Sapana Amin			Desi	gnation : Lab Incharge	

NOTE:

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
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TEST REPORT FORMAT - AMBIENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO .: FEB24/067/24

SAMPLE DETAILS

1.	Name & Address of Client. Unit - Indian Rayon, Veras			erava	nl, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ04		3.	Client Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 13.02.202	4		5.	Sampling Location: On Caustic plant Terrace		
6.	Sampling time: 11:20 hr			7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 2	1.02,2024	
10.	Reporting Date: 26.02.202	24		11.	Discipline: Chemical	24816225-25	
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Pollution		
14.				15.	Product: Ambient Air		
16.	Description of Sample:	Sampling B	lottles: Sealed	V	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mod	ferate	Wind speed: Moderate	Cloud cover; Clear sky	
	Rain: No Rain	Wind Direction:	Down wind		Wind blowing from: WSW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024		- 1			

TEST RESULTS

S. No.	Parameters	(SI)		Results	Specification/59CB Norms/BIS Standards	Method Used
1.	HCL	µg /m³	1	B.D.L.	200	IS 11255 (Part 1) :1985
2.	CS ₂	μg /m³	1	B.D.L	100	IS 11255 (Part -4)-1985
despetition)	ric B.D.L: - Below Detection					
	: Sapana Amin			Desi	gnation : Lab Incharge	

NOTE:

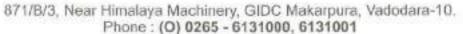
- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- The results reported above relate to the sample identified under Sample Details.

 END OF REPORT

TEST REPORT FORMAT - AMBIENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/25

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veray			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ05		3.	Client Representative: Mr. Shailendra Rathore		
4.	Sampling Date: 14.02.202	.02.2024			Sampling Location: Jaleshwar Temple		
6.	Sampling time: 14:10 hr			7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	1.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	14		11.	Discipline: Chemical		
12.	Sample Collected By: Mr. I	Parag Shah		13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS M			15.	Product: Ambient Air		
16.	Description of Sample:	Sampling I	3cttles: Sealer	1 🗸	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mo	derate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	Unit (SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	HCL	ug /m³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₂	µg /m³	1.2	B.D.L	100	IS 11255 (Part - 4)-1985

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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- 3) The results reported above relate to the sample identified under Sample Details. -----END OF REPORT-----

TEST REPORT FORMAT - AMBJENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO .: FEB24/067/26

SAMPLE DETAILS

1.	Name & Address of Client. Unit - Indian Rayon, Veras			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ06		3.	Client Representative: Mr. Shailendra Rathore		
4.	Sampling Date: 14.02.202	A service to the first term of			Sampling Location: Kirmani Nagar		
6.	Sampling time: 14:40 hr	1			Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	21.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	4		11.	Discipline: Chemical		
12.	Sample Collected By: Mr.	Parag Shah		13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: IS M			15.	Product: Ambient Air		
16.	Description of Sample:	Sampling E	Bottles: Sealer	1√	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: Mo	derate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category; Industrial	
18.	Sample Received Date: 21	.02,2024				17:	

TEST RESULTS

S. No.	Parameters	(SI)		Results	Specification/SPCB Norms/BIS Standards	Method Used
1.	HCL	pg /m³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₂	μg /m ³	3	B.D.L	100	IS 11255 (Part - 4)-1985
	rk: B.D.L: - Below Detection ized By - 4	Limit.				
lame	Sapana Amin			Desi	gnation : Lab Incharge	

NOTE:

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- The results reported above relate to the sample identified under Sample Details.
 END OF REPORT

TEST REPORT FORMAT - AMBIENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/27

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Veras			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 -	067FB24AQ07		3.	Client Representative: Mr. Shailendra Rathore		
4.	Sampling Date: 15.02.202	4		5.	Sampling Location: IMD Station		
6.	Sampling time: 15:00 hr			7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	1.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	4		11.	Discipline: Chemical		
12.	Sample Collected By: Mr. I	Parag Shah		13.	Group: Atmospheric Pollution		
14.	The state of the s			15.	Product: Ambient Air		
16.	Description of Sample:	Sampling E	Bottles: Seale	d√	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humidity: M	oderate.	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industria	
18.	Sample Received Date: 21	.02,2024					

TEST RESULTS

S. No.	Parameters	Unit (SI)		Results	Specification/SPC8 Norms/BIS Standards	Hethod Used
1.	HCL	μg /m ³	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₂	μg /m ³	1	B.D.L	100	IS 11255 (Part - 4)-1985

NOTE:

DOC, NO.: LAB-FMT-051

Effective Date: 01.03.2021

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

TEST REPORT FORMAT - AMBIENT	

Issue No.: 02 Issue Date: 01-01-2015 Revision No.: 03

Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - AMBIENT

REPORT NO.: FEB24/067/28

SAMPLE DETAILS

1.	Name & Address of Client: Unit - Indian Rayon, Verav			Verava	l, Gujarat 362266.		
2.	Sample ID: 1834918246 -	Q67FB24AQ08		3.	Client Representative: Mr. Shallendra Rathore		
4.	Sampling Date: 15.02.202	4		5.	Sampling Location: Hudko Society		
5.	Sampling time: 15:25 hr			7.	Sampling Duration: 24 Hrs		
8.	Analysis commenced on: 2	1.02.2024		9.	Analysis Completed on: 21.02.2024		
10.	Reporting Date: 26.02.202	4		11.	Discipline: Chemical		
12.	Sample Collected By: Mr. I	Parag Shah		13.	Group: Atmospheric Pollution		
14.	Sampling Procedure: 15 M			15.	Product: Ambient Air		
16.	Description of Sample:	Sampling 8	Bettles: Sealed	V	Filter Paper: Packed √	Bladder: Clamped	
17.	Environment Condition:	Temp: Normal	Humicity: Mo	derate	Wind speed: Moderate	Cloud cover: Clear sky	
	Rain: No Rain	Wind Direction:	Up wind		Wind blowing from: NW	Station category: Industrial	
18.	Sample Received Date: 21	.02.2024					

TEST RESULTS

S. No.	Parameters	(SI)	П	Besults	Specification/SPCB Norms/BIS Standards	Method Used
1.	HCL	µg /m²	1	B.D.L	200	IS 11255 (Part 1) :1985
2.	CS ₂	ug /m³	1	B.D.L	100	15 11255 (Part - 4)-1985
minimum (richer) (rich	rk: B.D.L: - Below Detection	Limit.				
Name	: Sapana Amin			Desi	gnation: Lab Incharge	

NOTE:

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.
- The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - AMBIENT						
DOC. NO.: LAB-FMT-051	Issue No.: 02	Revision No.: 03				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/29 (ULR-TC709924000004194F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Indus Unit - Indian Rayon, Veraval - Junagadh Highwa		
Z.	Sample ID: 2356538246 - 067F824EF01	3,	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
5.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12,	Sampling Location: ETP Waste Water Inlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		8	1.94	N_A,	APHA 23** Edition 4500-H* B
2.	Temperature	PC.	1	27.6	N.A.	APHA 23rd Edition 2540 C
3.	Colour	Pt-CO	2	25	N.A.	APHA 23rd Edition 2120 B
4.	Suspended Solids	mg/L	2	29	N.A.	APHA 23 rd Edition 2540 D
5,	COD	mg/L	0.1	363	N.A.	APHA 23 rd Edition 5220 B
6.	Oil & Grease	mg/L	-	<1	N.A.	APHA 23 rd Edition 5520 B
7.	Zinc	mg/L	-	17.8	N.A.	APHA 23 st Edition 3111 B

Authorised By -

Name : Sapana Amin NOTE:

Designation : Lab Incharge

 Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
 Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

--- END OF REPORT--

	TEST REPORT FORMAT - EFFLUENT	
DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 04
Effective Date: 01,03,2021	Tissue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/30 (ULR-TC709924000004195F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Indus Unit - Indian Rayon, Veraval - Junagadh Highwa		
2.	Sample ID: 2356538246 - 067FB24EF02	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: ETP Waste Water Outlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

5.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		1	6.39	6.0 - 8.5	APHA 2315 Edition 4500-H+ B
2.	Temperature	°C	I	27.6	45	APHA 23rd Edition 2540 C
3.	Colour	Pt-CO		15	100	APHA 23rd Edition 2120 B
4.	Suspended Solids	mg/L	1	16	100	APHA 23rd Edition 2540 D
5,	COD	mg/L	1	233	250	APHA 23 rd Edition 5220 B
6.	OII & Grease	mg/L	F	<1	10	APHA 23 rd Edition 5520 B
7.	Zinc	mg/L	1	4.5	15	APHA 23 rd Edition 3111 B

Authorised By -

Name : Sapana Amin Designation : Lab Incharge

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 Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - EFFLUENT	
DOC: NO.: LAB-FMT-050	Tssue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/31 (ULR- TC709924000004196F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industry Unit - Indian Rayon, Veraval - Junagadh Highway	ries Ltd.	
2.	Sample ID: 2356538246 - 067FB24EF03	3.	Client Representative; Mr. Shailendra Rathcre
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: Sewage Waste Water Inlet	13,	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		1	7.22	N.A.	APHA 23 rd Edition 4500-H* B
2.	Suspended Solids	mg/L	:	71	N.A.	APHA 23 st Edition 2540 D
3.	COD	mg/L	:	111	N.A.	APHA 23 rd Edition 5220 B
4.	BOD (3 days at 27 °C)	mg/L	:	32	N.A.	IS 3025 (Part 44): 1993
5.	Residual Chlorine	mg/L	:	< 0.1	N.A.	IS 3025 (Part - 26): 1986
6.	Ammonical Nitrogen	mg/L	:	22.19	N.A.	IS 3025 (PP 34)
7.	Oil & Grease	mg/L	:	<1	N.A.	APHA 23 rd Edition 5520 B

Remark:

Authorised By -

Name : Sapana Amin

Designation: Lab Incharge

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 Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - EFFLUENT						
DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 04				
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021				





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/32 (ULR-TC709924000004197F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industr	ies Ltd.	A GAMMAN AND ESTADO INCIDENCIA
2.	Unit - Indian Rayon, Veraval - Junagadh Highway Sample ID: 2356538246 – 067FB24EF04	Road. V	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shahi
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: Sewage Waste Water Outlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		:	7.15	6.5 - 9.0	APHA 23 rd Edition 4500-H* B
2.	Suspended Solids	mg/L	=	9	<100	APHA 23 rd Edition 2540 D
3.	COD	mg/L	:	88	N.A.	APHA 23 rd Edition 5220 B
4.	BOD (3 days at 27 °C)	mg/L	-	25	<30	IS 3025 (Part 44): 1993
5.	Residual Chlorine	mg/L	1	< 0.1	N.A.	IS 3025 (Part - 26): 1986
6.	Ammonical Nitrogen	mg/L	;	27.10	N.A.	IS 3025 (PP 34)
7.	Oil & Grease	mg/L	1	<1	N.A.	APHA 23 rd Edition 5520 B
temar luthor	k: ised By - Sull				, i) I	10
Vame :	Sapana Amin			Designati	on: Lab Incharge	

Name : Sapana Amin NOTE: 1) Repo

1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

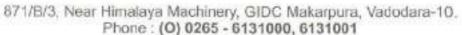
Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - EFFLUENT							
DOC. NO.: LAS-FMT-050	Issue No.: 02	Revision No.: 04					
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021					

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/33

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Indus Unit - Indian Rayon, Veraval - Junagadh Highwa		d.
2.	Sample ID: 2356538246 - 067FB24EF01	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
б.	Analysis commenced on: 20,02,2024	7.	Analysis Completed on: 25.02.2024
8.	Reporting Date: 01.03.2024	9,	Discipline: Chemical
10.	Packing Condition 8. Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: ETP Waste Water Injet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BTS Standards	Method Used
1	BOD (5 days at 20 °C)	mg/l.	101	N.A.	APHA: 23 rd Edition (5210-B)
Remar Author	k: ised By - Setulin)	7			
Name	Sapana Amin		Designati	on : Lab Incharge	

NOTE:

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Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - EFFLUENT								
DOC. NO.: LAB-FMT-050	Essue No.: 02	Revision No.: 04						
Effective Date:, 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021						

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/34

SAMPLE DETAILS

	SAMI	LE UL	Traco
1.	Name & Address of Client: M/s. Grasim Indus Unit - Indian Rayon, Veraval - Junagadh Highwa		
2.	Sample ID: 2356538246 - 067FB24EF02	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 25.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: ETP Waste Water Outlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15,	Sample Received Date: 20.02,2024

TEST RESULTS

S.No.	Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	BOD (5 days at 20 °C)	mg/L	67	100	APHA: 23 rd Edition (5210-B)
Remari Author	k: ised By -			17	
Name :	Sapana Amin		 Designati	on : Lab Incharge	

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2) Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - EFFLUENT	
DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/35

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industr Unit - Indian Rayon, Veraval - Junagadh Highway		
2.	Sample ID: 2356538246 - 067FB24EF03	3.	Client Representative: Mr. Shailendra Rathore
4,	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: Sewage Waste Water Inlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

Parameters	Unit (SI)	Results	Specification/ SPCB Norms/ BIS Standards	Method Used
Total Phosphorus	mg/L :	2.48	N.A.	APHA: (4500 P.D) 23 rd Edition
Total Nitrogen	mg/L :	24.72	N.A.	IS 3025 (PP34)
c:	mg/L :	24.72	N.A.	IS 3025 (PP34)
The state of the s		- L		
	Total Phosphorus Total Nitrogen	Total Phosphorus mg/L : Total Nitrogen mg/L : sed By - LUUD	Total Phosphorus mg/L : 2.48 Total Nitrogen mg/L : 24.72 :: sed By - LUUD	BIS Standards

NOTE:

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Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

TEST REPORT FORMAT - EFFLUENT							
DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 04					
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021					

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - EFFLUENT

REPORT NO.: FEB24/067/36

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industr Unit - Indian Rayon, Veraval - Junagadh Highway		Yeraval, Gujarat 362266.
2.	Sample ID: 2356538246 - 067FB24EF04	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: M/s. Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28,02,2024
8.	Reporting Date: 01.03.2024	9.	Discipline: Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group: Pollution and Environment
12.	Sampling Location: Sewage Waste Water Outlet	13.	Product: Waste Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1,	Total Phosphorus	mg/L	:	2.76	N.A.	APHA: (4500 PD) 23rd Edition
2.	Total Nitrogen	mg/L	:	30.10	N.A.	IS 3025 (PP34)
Remark	sed By -	7	-			at a si
dy the production of the last	Sapana Amin			Designati	on : Lab Incharge	

NOTE:

- 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.
- Re analysis of sample will be done, if requested within 15 days from the date of Reporting of sample if the samples are not consumed during analysis.

	TEST REPORT FORMAT - EFFLUENT	
DOC, NO.: LAB-FMT-050	Issue No.: 02	Revision No.; 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT FORMAT – BIO-ASSAY

REPORT NO.: FEB24/067/37 (ULR- TC709924000004198F)

SAMPLE DETAILS

	and the same of th	H. H. Mark. Mr.	AL PERSONAL PROPERTY OF THE PERSONAL PROPERTY
1.	Name & Address of Client: M/s. Grasim I Unit - Indian Rayon, Veraval - Junagadh Hig		
2.	Sample ID: 2356538246 - 067FB24EF02	3.	Client Representative; Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 24.02.2024
8.	Reporting Date: 01.03.2024	9.	Sample Category:
10.	Sampling Location: ETP Final Outlet	14.	Sample Received Date: 20.02.2024
11.	Discipline: Chemical		
12.	Group: Pollution and Environment		
13.	Product: Waste Water		

TEST RESULTS

5.	Part of the Dilution		Test Method: IS 6582 (Part-2): 2001 (RA 2013)							
No.	Water to be added to 1 part of Waste	Survival after								
	Water	2 hrs.	6 hrs.	24 hrs.	48 hrs.	96 hrs.	% Survival			
1	0	√	V	√	√	✓	100%			
2	1	√	V	√	√	√	100%			
3	3	√	V	√	√	√	100%			
4	7	√	✓	√	√	√	100%			
5	15	√	✓	√	√	✓	100%			
6	31	√	V	√	V	√	100%			
7	63	√	V	√	√	√.	100%			
8	124	√	V	√	√	√	100%			
9	249	√	V	√	√	-√	100%			
10	499	√	V	V	V	√	100%			
11	999	√	V	√	✓	√	100%			

Remark: 90 % survival of fight after 96 hrs. in 100% concentration.

Authorized By:

Name : Sapana Amin

Designation: Lab Incharge

OTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT- BIO-AS	SSAY
DOC. NO.: LAB-FMT-050	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.202





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: FEB24/067/38 (ULR- TC709924000004199F)

SAMPLE DETAILS

	Unit - Indian Rayon, Veraval - Junagadh Highway	s Ltd. y Road. Vera	wal, Gujarat 362266.
2.	Sample ID: - 2356538246 - 067FB24W01	3.	Client Representative ; Mr. Shallendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9,	Discipline : Chemical
10.	Packing Condition 8. Quantity: Sealed √	11.	Group ; Water
12.	Sampling Location: Main Storage Tank	13.	Product: Storage Tank Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TECT DECLII TO

S.Ho.	Parameters	Unit (SI)	Besetts	Specification/SPCB Rorms/RIS Standards	Method Used
1_	pH	-	7.33	6.5-8.5	APHA 23rt Edition 4500-H* B
2	Turbidity	NTU :	< 0.1	1	APHA 23 rd Edition 2130- B
3.	Colour	Pt-CO =	<1	5	APHA 23 rd Edition 2120 B
4.	Total Dissolved Solids	mg/L :	280	500	APHA 23 rd Edition 2540 C
5.	Chlorides	mg/L :	43	250	APHA 23rd Edition 4500 CFB
6.	Sulphates	mg/L :	13	200	APHA 23" Edition 4500 SO* E
7.	fluoride	mg/L :	< 0.05	1	APHA 23" Edition 4500 F-D
8.	Phenolic Compound	rng/L	<0.001	0.001	API IA 23rd Edition 5530 D
9.	Hexavalent Chromium	mg/L =	< 0.02	0.05	APHA 23rd Edition 3500 Cr - B
10.	Residual Chlorine	rng/L :	0.44	0.2(Minimum)	IS 3025 (Part - 26): 1986
11.	Iron:	mg/L :	<0.006	0.3	APHA 23 st Edition 3125 8
12.	Total Hardness	mg/L	170	200	APHA 23 st Edition 2340 C
13.	Copper	mg/L :	< 0.001	0.05	APHA 23° Edition 3125 B
14.	Nitrate	mg/L :	< 0.1	45	IS 3025 (Part 34) (i): 1988
15.	Mercury	mg/L :	<0.001	0.001	APHA 23 ^e Edition 3125 B
16.	Arsenic	mg/L :	<0.001	0.01	APHA 23 rd Edition 3125 B
17.	Zinc	mg/L :	< 0.003	5	APHA 23rd Edition 3125 B
18.	Calcium	mg/L ;	42	75	APHA 23 rd Edition 3500 - Ca B
19.	Magnesium	mg/L :	16	30	APHA 23rd Edition 3500 - Mg H
20.	Cadmium	nig/L :	<0.001	0.003	APHA 23 rd Edition 3125 B
21.	Manganese	mg/L :	<0.001	0.1	APHA 23 st Edition 3125 B
22.	Auminum	mg/L :	< 0.01	0.03	APHA 23 st Edition 3125 B
23.	Lead	mg/L :	< 0.001	0.01	APHA 23 st Edition 3125 B
24.	Boron	mg/L :	<0.01	0.5	APHA 23rd Edition 3125 B
25.	Alkalinity	mg/L :	180	200	APHA 23rd Edition 2320 B

Remark : Specification are given as per IS : 10500 : 2012 (Acceptable Limits)
Authorised By -

Name : Sapana Amin Designation: Lab Incharge

NOTE:

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed. during analysis.

The results reported above relate to the sample identified under Sample Details,

-END OF REPORT-

THE PROPERTY OF THE PROPERTY OF THE PARTY OF	TEST REPORT FORMAT - WATER	
DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: FEB24/067/39 (ULR- TC709924000004200F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industric Unit - Indian Rayon, Veraval - Junagadh Highwa		. Veraval, Gujarat 362266.	
2.	Sample ID: - 2356538246 - 067FB24W02	3.	Client Representative : Mr. Shailendra Rathore	
4.	Sample Date: 14.02.2024	5.	Sample Collected By: Parag Shah	
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02,2024	
8.	Reporting Date: 01.03.2024	9.	Discipline : Chemical	
10.	Packing Condition & Quantity: Sealed √	11.	Group : Water	
12.	Sampling Location: Main Store in New Textile	13.	Product: Drinking Water	
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024	

TEST RESULTS

			TEST RESUL		1
5.89.	Parameters	Unit (SI)	Results	Specification/SPCB Narms/BES Standards	Method Used
1.	pH.	ļ	7.38	6.5-8.5	APHA 23 ^{rt} Edition 4500-H ⁺ B
2.	Turbidity	NTU :	<0.1	1	APHA 23 rd Edition 2130- B
3.	Colour	Pt-CO :	<1	5	APHA 23 st Edition 2120 B
4.	Total Dissolved Solids	mg/L :	232	500	APHA 23rd Edition 2540 C
5.	Chlorides	mg/L :	43	250	APHA 23 st Edition 4500 CF B
6.	Sulphates	mg/L :	12	200	APHA 23 st Edition 4500 SO ⁴ E
7.	Fluoride	mg/L :	< 0.05	1	APHA 23 ^{rt} Edition 4500 F—D
8.	Phenolic Compound	mg/L ;	< 0.001	0.001	APHA 23rt Edition 5530 D
9.	Hexavalent Chromium	mg/L :	< 0.02	0.05	APHA 23rd Edition 3500 Cr - B
10.	Residual Chlorine	mg/L ;	0.35	0.2 (Minimum)	IS 3025 (Part - 26): 1986
11.	Iron	mg/t. ;	< 0.006	0.3	APHA 23 rd Edition 3125 B
12.	Total Hardness	mg/L :	170	200	APHA 23rt Edition 2340 C
13.	Copper	mg/L :	< 0.001	0.05	APHA 23rd Edition 3111 B
14.	Nitrate	mg/L :	<0.1	45	IS 3025 (Part 34) (i): 1988
15,	Mercury	mg/L :	< 0.001	0.001	APHA 23rl Edition 3125 B
16.	Arsenic	mg/L :	< 0.001	0.01	APHA 23 ^{cl} Edition 3125 B
17,	Zinc	mg/L :	< 0.003	5	APHA 23rd Edition 3125 B
18.	Calcium	mg/L :	40	75	APHA 23 rd Edition 3500 - Ca B
19.	Magnesium	mg/L ;	17	30	APHA 23rd Edition 3500 - Mg B
20.	Cadmium	mg/L :	< 0.001	0.003	APHA 23rd Edition 3125 B
21.	Manganese	mg/L :	< 0.001	0.1	APHA 23 rd Edition 3125 B
22,	Aluminum	mg/L :	< 0.01	0.03	APHA 23 rd Edition 3125 B
23.	Lead	mg/L ;	< 0.001	0.01	APNA 23 ⁻¹ Edition 3125 B
24.	Boron	mg/L ;	<0.01	0.5	APHA 231 Edition 3125 B
25.	Alkalinity	mg/L :	180	200	APHA 23 rd Edition 2320 B

Remark : Specification are given 29 per IS: 10500: 2012 (Acceptable Limits)

Authorised By -

Designation: Lab Incharge

Name : Sapana Amin-1)

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Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed. during analysis.

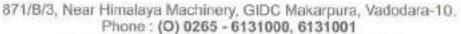
The results reported above relate to the sample identified under Sample Details.

-- END OF REPORT-

TEST REPORT FORMAT - WATER					
DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 04			
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021			

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: FEB24/067/40

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industrie Unit - Indian Rayon, Veraval - Junagadh Highwa		
2.	Sample ID: - 2356538246 - 067F824W01	3.	Client Representative : Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02,2024
8.	Reporting Date: 01.03.2024	9.	Discipline : Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group : Water
12.	Sampling Location: Main Storage Tank	13.	Product: Storage Tank Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02,2024

TEST RESULTS

S.No.	Parameters	Unit (SI)	П	Remits	Specification/SPCB Norms/RES Standards	Method Used
1.	Odour	+		Agreeable	Agreeable	APHA: (2150 B) 23 st Edition
2,	Cyanide	mg/L	1	< 0.05	0.05	APHA: (4500 CN E) 23 rd Edition

Remark : Specification are givery as per IS : 10500 : 2012 (Acceptable Limits)

Authorised By -

Name: Sapana Amin

Designation: Lab Incharge

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the leboratory.

2) Be analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details,

END OF REPORT

	TEST REPORT FORMAT - WATER	
DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.; 04
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - WATER

REPORT NO.: FEB24/067/41

SAMPLE DETAILS

ī.	Name & Address of Clent: M/s, Grasim Industri Unit - Indian Rayon, Veraval - Junagadh Highw	ies Ltd.	Veraval, Guiarat 362265.
2.	Sample ID: - 2356538246 - 067FB24WD2	3.	Client Representative : Mr. Shailendra Rathore
4.	Sample Date: 14.02.2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 28.02.2024
8.	Reporting Date: 01.03.2024	9.	Discipline : Chemical
10.	Packing Condition & Quantity: Sealed √	11.	Group : Water
12.	Sampling Location: Main Store in New Textile	13.	Product: Drinking Water
14.	Sampling Method: IS: 3025 (Part 1) - 1987	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S.Ho.	Parameters	Unit (ST)		Results	Specification/SPCB Horns/BIS Standards	Method Used
1.	Odour		:	Agreeable	Agreeable	APHA: (2150 B) 23th Edition
2.	Cyanide	mq/L	12.	< 0.05	0.05	APHA: (4500 CN E) 23rd Edition

Authorised By - CULIC Name : Sapana Amin

Designation: Lab Incharge

NOTE:

Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed. during analysis.

The results reported above relate to the sample identified under Sample Details.

END OF REPORT-

	TEST REPORT FORMAT - WATER	
DOC. NO.: LAB-FMT-055	Issue No.: 02	Revision No.: 94
Effective Date:. 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: FEB24/067/42 (ULR- TC709924000004201F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.				
2.	Sample ID: 2356538246 - 067FB24EF03	9,	Client Representative: Mr. Shailendra Rathore		
3.	Sample Date: 14.02.2024	10.	Sample Collected By: Parag Shah		
4.	Packing Condition & Quantity: Sealed √	11.	Discipline: Biological		
5.	Analysis commenced on: 20.02.2024	12.	Group: Environment & Pollution		
6.	Analysis Completed on: 23.02.2024	13.	Product: Waste Water		
7.	Reporting Date: 01.03.2024	14.	Sampling Method: IS 1622		
8.	Sampling Location: Sewage Waste Water Inlet	15.	Sample Received Date: 20.02.2024		

TEST RESULTS

Name: Priyanka Kotak

Designation: Microbiologist

NOTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory. Re-sampling may be done, if required, with written approval of the laboratory.

The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - MICROBIOLOG	Y
DOC. NO.: LAB-FMT-217	Issue No.: 01	Revision No.: 01
Effective Date: 01.03.2021	Issue Date: 01.07.2020	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: FEB24/067/43 (ULR- TC709924000004202F)

SAMPLE DETAILS

 Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266. 				
Sample ID: 2356538246 - 067FB24EF04	9.	Client Representative: Mr. Shailendra Rathore		
Sample Date: 14.02.2024	10.	Sample Collected By: Parag Shah		
Packing Condition & Quantity: Sealed √	11.	Discipline: Biological		
Analysis commenced on: 20.02.2024	12.	Group: Environment & Pollution		
Analysis Completed on: 23.02.2024	13.	Product: Waste Water		
Reporting Date: 01.03.2024	14.	Sampling Method: IS 1622		
Sampling Location: Sewage Waste Water Outlet	15.	Sample Received Date: 20.02.2024		
	Unit - Indian Rayon, Veraval - Junagadh Hig Sample ID: 2356538246 - 067FB24EF04 Sample Date: 14.02.2024 Packing Condition & Quantity: Sealed √ Analysis commenced on: 20.02.2024 Analysis Completed on: 23.02.2024 Reporting Date: 01.03.2024 Sampling Location: Sewage Waste Water	Unit - Indian Rayon, Veraval - Junagadh Highway Rosample ID: 2356538246 - 067FB24EF04 9, Sample Date: 14.02.2024 10. Packing Condition & Quantity: Sealed √ 11, Analysis commenced on: 20.02.2024 12. Analysis Completed on: 23.02.2024 13. Reporting Date: 01.03.2024 14. Sampling Location: Sewage Waste Water 15.		

TEST RESULTS

S. No.	Parameters	Results	Unit (SI)	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	Fecal Coliform Bacteria	N.D(<1.8)	MPN/ 100ml	<1000	APHA 23 rd Edition(9221 C, E)

Authorised By-

NOTE:

Name: Priyanka Kotak

Designation: Microbiologist

1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

Re-sampling may be cone, if required, with written approval of the laboratory.

5) The results reported above relate to the sample identified under Sample Details. ----END OF REPORT---

	TEST REPORT FORMAT - MICROBIOLOG	Y
DOC. NO.: LAB-FMT-217	Issue No.: 01	Revision No.: 01
Effective Date: 01.03.2021	Issue Date: 01.07.2020	Revision Date: 01,03,2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: FEB24/057/44 (ULR-TC709924000004203F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Indus Unit - Indian Rayon, Veraval - Junagadh High		. Veraval, Gujarat 362266.
2.	Sample ID: 2356538246 - 067FB24W01	9.	Client Representative : Mr. Shailendra Rathore
3.	Sample Date: 14.02.2024	10.	Sample Collected By: Parag Shah
4.	Packing Condition & Quantity: Sealed √	11.	Discipline: Biological
5.	Analysis commenced on: 20.02.2024	12.	Group: Water
6.	Analysis Completed on: 23.02.2024	13.	Product: Drinking Water
7.	Reporting Date: 01.03.2024	14.	Sampling Method: IS 1622
8,	Sampling Location: Main Storage Tank	15.	Sample Received Date: 20.02.2024

TEST RESULTS

S. No.	Parameters	Results	Unit (SI)	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	Total Coliform Bacteria	: N.D(<1.1)	MPN/100ml		APHA 23 rd Edition (9221 B, C)
2.	Fecal Coliform Bacteria	N.D(<1.1)	MPW/100ml	any 100ml Sample	APHA 23rd Edition (9221 C, E)
3.	E. coli	: Absent	/100ml		APHA 23 rd Edition (9221 B, G)

Designation: Microbiologist

NOTE:

Name: Priyanka Kotak

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 Re-samping may be done, if required, with written approval of the laboratory.

The results reported above relate to the sample identified under Sample Details. ------END OF REPORT---

TEST REPORT FORMAT- MICROBIOLOGY DOC: NO.: LAB-FMT-203 Revision No.: 04 Issue No.: DI Effective Date: 01.03.2021 Issue Date: 01.04.2019 Revision Date: 01,03,2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - MICROBIOLOGY

REPORT NO.: FEB24/067/45 (ULR-TC709924000004204F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.				
2.	Sample ID: 2356538246 - 067FB24W02	9.	Client Representative: Mr. Shallendra Rathore		
3.	Sample Date: 14.02.2024	10.	Sample Collected By: Parag Shah		
4.	Packing Condition & Quantity: Sealed √	11.	Discipline: Biological		
5.	Analysis commenced on: 20.02.2024	12.	Group: Water		
6.	Analysis Completed on: 23.02.2024	13.	Product: Drinking Water		
7.	Reporting Date: 01.03.2024	14.	Sampling Method; IS 1622		
8.	Sampling Location: Main Store in New Textile	15.	Sample Received Date: 20.02.2024		

TEST RESULTS

<u>S.</u> No.	Parameters		Results	Unit (SI)	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	Total Coliform Bacteria	:	N.D(<1.1)	MPN/100ml		APHA 23 rd Edition (9221 B, C)
2.	Fecal Coliform Bacteria		N.D(<1.1)	MPN/100ml	in any 100ml Sample	APHA 23 rd Edition (9221 C, E)
3.	E. coli		Absent	/100ml		APHA 23rd Edition (9221 B, G)

Remark: N.D. - Not Detected.

Authorised By-

Name: Priyanka Kotak

Designation: Microbiologist

OTE: 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

2) Re-sampling may be done, if required, with written approval of the laboratory.

3) The results reported above relate to the sample identified under Sample Details.

----END OF REPORT-

	TEST REPORT FORMAT- MICROBIOL	DGY
DOC. NO.: LAB-FMT-203	Issue No.: 01	Revision No.: 04
Effective Date: 01.03.2021	Issue Date: 01.04.2019	Revision Date: 01.03.2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - SOLID WASTE

REPORT NO.: FEB24/067/46

SAMPLE DETAILS

			DETAILO
1.	Name & Address of Client: M/s. Grasim In Unit - Indian Rayon, Veraval - Junagadh Hig		
2.	Sample ID: 2356538246 - 067FB24HW01	3.	Client Representative: Mr. Shailendra Rathore
4.	Sampling Date: 17.02.2024	5.	Sampling location: ETP Sludge
6.	Analysis commenced on: 20.02.2024	7.	Analysis Completed on: 27.02.2024
8.	Reporting Date: 01.03.2024	9.	Sample Collected By: Mr. Parag Shah
10.	Physical Status: Solid	11.	Discipline: Chemical
12.	Sample Category:	13.	Group: Pollution and Environment
14.	Colour: Brown	15.	Product: Solid Waste
16.	Description of sample: Packed and sealed in	polythe	ne bags.
17.	Sample Received Date: 20.02.2024		

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		:	7.58	N.A.	APHA: 23 rd Edition 4500-H ⁺ B
2,	COD	gm/Kg	:	3.84	N.A.	APHA: 23rd Edition 5220 B
3.	BOD	gm/Kg		1.04	N.A.	IS 3025 PP-44
4_	Total Dissolved Solids	gm/Kg	6	9.44	N.A.	APHA: 23rd Edition 2540 C
5.	Moisture	96		53	N.A.	Loss on drying Method
6.	Zinc	gm/Kg		< 0.0006	N.A.	APHA: 23rd Edition 3111 B

Name: Bhavisha Pandya

Authorised By -

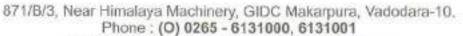
Designation : Sr.Chemist

1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory. 2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - SOLID WAST	E
DOC. NO.: LAB-FMT-053	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03,2021

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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - SOLID WASTE

REPORT NO.: FEB24/067/47

SAMDLE DETAILS

	9	AMPLE	DETAILS	
1.	Name & Address of Client: M/s. Grasim In Unit - Indian Rayon, Veraval - Junagadh Hig			
2.	Sample 1D: 2356538246 - 067FB24HW02	3.	Client Representative:Mr. Shailendra Rathore	
4.	Sampling Date: 17.02,2024	5.	Sampling location: Sulphur Sludge	
6.	Analysis commenced on: 20.02,2024	7.	Analysis Completed on: 27.02.2024	
B.	Reporting Date: 01.03.2024	9.	Sample Collected By: Mr. Parag Shah	
10.	Physical Status: Solid	11.	Discipline: Chemical	
12.	Sample Category:-	13.	Group: Pollution and Environment	
14.	Colour; Brown	15.	Product: Solid Waste	
16.	Description of sample: Packed and scaled in	polythe	ne bags.	
17.	Sample Received Date: 20.02.2024			

TEST RESULTS

S.No.	Parameters	Unit (SI)		Results	Specification/ SPCB Norms/ BIS Standards	Method Used
1.	pH		:	6.49	N.A.	APHA: 23 rd Edition 4500-H+ B
2.	COD	gm/Kg	:	2.68	N.A.	APHA: 23rd Edition 5220 B
3.	BOD	gm/Kg	:	0.80	N.A.	IS 3025 PP-44
4.	Total Dissolved Solids	gm/Kg	:	6.48	N.A.	APHA: 23 rd Edition 2540 C
5.	Moisture	96	1	4.90	N.A.	Loss on drying Method
6.	Zinc	gm/Kg	:	< 0.0006	N.A.	APHA: 23 rd Edition 3111 B

Authorised By

Name : Bhavisha Pandya Designation: Sr.Chemist

NOTE:

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 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - SOLID WAST	E
DOC. NO.: LAB-FMT-053	Issue No.: 02	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-01-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: FEB24/067/48 (ULR-TC709924000004205F)

SAMPLE DETAILS

1.	Name & Address of Client; M/s. Grasim I Unit - Indian Rayon, Veraval - Junagadh Hig		
2.	Sample ID: 1834918246 - 067FB24NO01	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 13.02.2024	5.	Sample Collected By: Parag Shah
6,	Analysis commenced on: 13.02.2024	7.	Analysis Completed on: 13.02.2024
8.	Reporting Date: 26.02.2024	9.	Sampling Location:
10.	Discipline: Chemical	13.	Sample Received Date: 13.02.2024
11.	Group: Atmospheric Pollution		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
12.	Product: Source Noise Levels		

TEST RESULTS

		E	Day	N	ight	
S. No.	Location	Time	Reading dB(A)	Time	Reading dB(A)	Method
I	Caustic Plant			33		0
1.	Sodium Hypo Chloride	09:00 hr	66.8	22:02 hr	62.2	IS 9989: 1981
2.	HCI Synthesis	09:02 hr	68.9	22:05 hr	64.7	IS 9989: 1981
3.	Chloride Bottling Plant	09:03 hr	68.7	22:07 hr	65.6	IS 9989: 1981
4.	Liq.Chlorine Storage	09:05 hr	65.7	22:08 hr	63.6	IS 9989: 1981
5.	Compressor House	09:07 hr	74.0	22:10 hr	70.0	15 9989: 1981
6.	Compressor & Brine Purifier Filter	09:08 hr	74.5	22:12 hr	69.8	IS 9989: 198)
7.	Outside salt Storage yard - 1	09:10 hr	68.2	22:14 hr	66.3	IS 9989: 1981
8.	Outside salt Storage yard – 2	09:11 hr	67.3	22:15 hr	65.2	IS 9989: 1981
9,	Center of Primary Brine Dept	09:12 hr	68.4	22:17 hr	64.3	IS 9989: 198
10.	Center of Secondary Brine Dept	09:13 hr	65.8	22:18 hr	62.7	15 9989: 1981
11.	Cell House	09:14 hr	65.2	22:20 hr	61.8	IS 9989; 198
12,	Caustic Evaporation Plant	09:15 hr	68.9	22:22 hr	63.7	IS 9989: 1981
13.	Flaker Furnaces	09:17 hr	72.7	22:23 hr	69.6	IS 9989: 198
14.	Hydrogen Bottling	09:18 hr	73.6	22:25 hr	69.2	15 9989: 198
15.	Nr. ADM Block	09:19 hr	60.1	22:27 hr	58.1	IS 9989: 198
16.	Nr. Caustic Storage Tank	09:20 hr	62.7	22:30 hr	58.4	IS 9989: 1981

Remark: Limit as per Factopy Act 85 dB(A)

Authorized By - LUUF

Name: Sapana Amin

NOTE:

Designation: Lab Incharge

1)

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Re analysis of sample will be clone, if requested within 7 days from the date of Reporting of sample if the samples are not 2) consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - NOISE	
DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021





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ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: FEB24/067/49 (ULR-TC709924000004206F)

SAMPLE DETAILS

			ALCO ALCO ALCO ALCO ALCO ALCO ALCO ALCO
1.	Name & Address of Client: M/s. Grasim I Unit - Indian Rayon, Veraval - Junagadh Hig		
2.	Sample ID: 1834918246 - 067FB24NO01	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 13.02.2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 13.02,2024	7.	Analysis Completed on: 13.02,2024
8.	Reporting Date: 26.02.2024	9,	Sampling Location:- —
10.	Discipline: Chemical	13.	Sample Received Date: 13.02.2024
11.	Group: Atmospheric Pollution		
12.	Product: Source Noise Levels		

TEST RESULTS

300		E	Day	N	ight	55-000 0							
S. No.	Location	Time	Reading dB(A)	Time	Reading dB(A)	Method							
11	Viscose Plant												
17.	Slurry Mixer	09:22 hr	73.9	22:32 hr	69.7	IS 9989: 1981							
18.	Dissolver	09:23 hr	72.8	22:35 hr	69.2	IS 9989: 1981							
19.	Spinning Old	09:24 hr	74.9	22:38 hr	68.6	IS 9989: 1981							
20.	Spinning New	09:25 hr	73.2	22:40 hr	70.0	IS 9989: 1981							
21.	Xanther Sec.	09:28 hr	65.4	22:45 hr	62.4	IS 9989: 1981							
III	After Treatment Plant												
22.	At Old Office Floor	09:30 hr	62.2	22:47 hr	60.0	IS 9989: 1981							
23.	At Old Dryer	09:32 hr	67.7	22:48 hr	64.2	IS 9989: 1981							
24.	At New Dryer	09:35 hr	73.2	22:50 hr	69.7	IS 9989: 1981							
IV	Textile												
25.	Textile Old	09:38 hr	70.9	22:52 hr	68.2	IS 9989; 1981							
26.	Textile New	09:40 hr	69.2	22:55 hr	66.3	IS 9989: 1981							
٧	H2SO4 Plant												
27.	Old Plant	09:42 hr	74.6	22:58 hr	69.7	TS 9989: 1981							
	New Plant	09:45 hr	74.5	23:00 hr	68.4	IS 9989: 1981							

Name : Sapana Amin Designation: Lab Incharge NOTE:

Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not. Re analysis or savige.

consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

END OF REPORT.

3)

	TEST REPORT FORMAT - NOISE	Water Service Committee
DOC: NO.: LAB-FMT-087	Issue No.; 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021





An ISO 9001-2015 Certified Company

(MoEF Approved)

871/El/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10. Phone: (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: FEB24/067/50 (ULR-TC709924000004207F)

SAMPLE DETAILS

1.	Name & Address of Client: M/s. Grasim In Unit - Indian Rayon, Veraval - Junagadh Hig		
2.	Sample ID: 1834918246 - 067FB24NO01	3.	Client Representative: Mr. Shailendra Rathore
4.	Sample Date: 13,02,2024	5.	Sample Collected By: Parag Shah
6.	Analysis commenced on: 13.02.2024	7.	Analysis Completed on: 13.02.2024
8.	Reporting Date: 26.02.2024	9.	Sampling Location:
10.	Discipline: Chemical	13.	Sample Received Date: 13.02.2024
11.	Group: Atmospheric Pollution		XI.
12.	Product: Source Noise Levels		

TEST RESULTS

			Day	N		
S. No.	Location	Time	Reading dB(A)	Time	Reading dB(A)	Method
VI	Boiler House		7.0	*		*
29	Shiff End Office	09:48 hr	73.8	23:00 hr	68.6	15 9989: 198:
30	Dissolver	09:50 hr	72.6	23:05 hr	69.7	IS 9989: 198:
VII	Power Plant					
31	Nr.Office	09:52 hr	70.9	23:10 hr	67.3	IS 9989: 198:
32	Near Control room	09:55 hr	72.4	23:15 hr	69.8	IS 9989: 198:
33	Turbin Room	09:58 hr	80.0	23:18 hr	74.9	IS 9989: 198:
34	Injector System	10:00 hr	77.8	23:20 hr	73.2	IS 9989: 198:
VIII	CS2 Plant					
35	Storage Tank	10:05 hr	68.5	23:22 hr	65.7	1S 9989: 198:
36	Nr.Alkali Scrubber	10:07 hr	65.7	23:25 hr	63.8	15 9989: 198.
37	D.G.Set	(#)	-		-	IS 9989: 198:
38	D.P.H		*	±	- 18	IS 9989: 198:
39	R O Plant	10:14 hr	68.9	23:26 hr	66.4	IS 9989: 198:
40	D M Plant (New)	10:15 hr	67.3	22:28 hr	64.8	15 9989: 198:
IX	Residential Area					
41	Nr.Colony Gate (Birla Temple)	10:45 hr	60.7	22:20 hr	45.2	IS 9989: 198:
42	Nr.Guest House	10:50 hr	58.9	22:05 hr	46.8	IS 9989: 198:
43	Nr.Presidents Bunglow	10:55 hr	56.7	22:12 hr	42.3	IS 9989: 198:
44	Aditya Near Block J	11:00 hr	58.8	22:17 hr	44.6	IS 9989: 198:

Remark: Limit as per Facility Act 85 dB(A)

Authorized By -

Name : Sapana Amin

Designation: Lab Incharge

NOTE: 1) Reports may be reprocisced, if required, but only in full and only with written approval of the laboratory.

 Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.

3) The results reported above relate to the sample identified under Sample Details.

- Anna anna anna anna anna	TEST REPORT FORMAT - NOISE	and the second second
DOC, NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021





871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10. Phone: (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT

LABORATORY TEST REPORT - NOISE

REPORT NO.: FEB24/067/51 (ULR-TC709924000004208F)

	-	-					DAMPLE DE	I PLAN	
me	84	Address	of	Client:	M/s.	Grasim	Industries	Ltd.	

Name & Address of Client: M/s. Grasim Industries Ltd. Unit - Indian Rayon, Veraval - Junagadh Highway Road. Veraval, Gujarat 362266.									
Sample ID: 1834918246 - 067FB24NO02	3.	Client Representative: Mr. Shallendra Rathore							
Sample Date: 13.02.2024	5.	Sample Collected By: Parag Shah							
Analysis commenced on: 13.02.2024	7.	Analysis Completed on: 13.02.2024							
Reporting Date: 26.02.2024	9.	Sampling Location:							
Discipline: Chemical	13.	Sample Received Date: 13.02.2024							
Group: Atmospheric Pollution									
Product: Source Noise Levels									
	Unit - Indian Rayon, Veraval - Junagadh Hig Sample ID: 1834918246 - 067FB24NO02 Sample Date: 13.02.2024 Analysis commenced on: 13.02.2024 Reporting Date: 26.02.2024 Discipline: Chemical Group: Atmospheric Pollution	Unit - Indian Rayon, Veraval - Junagadh Highway R Sample ID: 1834918246 - 067FB24NO02 3. Sample Date: 13.02.2024 5. Analysis commenced on: 13.02.2024 7. Reporting Date: 26.02.2024 9. Discipline: Chemical 13. Group: Atmospheric Pollution							

TEST RESULTS

			Day	N		
S. No.	Location	Time	Reading dB(A)	Time	Reading dB(A)	Method
1.	Caustic Plant (16 Point)	09:15 hr	69.4	22:20 hr	65.7	IS 9989: 1981
2.	Viscose Plant (05 Point)	09:25 hr	73.9	22:35 hr	69.8	IS 9989: 1981
3.	After Treatment Plant (03 Point)	09:35 hr	66.2	22:40 hr	65.4	IS 9989: 1981
4.	Textile (02 Point)	09:40 hr	69.4	22:55 hr	66.2	IS 9989; 1981
5.	H2SO4 Plant (02 Point)	09:45 hr	74.5	23:00 hr	69.4	IS 9989: 1981
6.	Boiler House (02 Point)	09:50 hr	73.7	23:10 hr	68.9	IS 9989: 1981
7.	Power Plant (04 Point)	10:00 hr	78.9	23:15 hr	75.6	IS 9989: 1981
В.	CS2 Plant (06 Point)	10:15 hr	66.4	23:25 hr	64.2	IS 9989: 1981
9.	Residential Area Plant (04 Point)	10:45 hr	60.2	22:10 hr	46.7	IS 9989: 1981

Remark: Limit as per Factory Act 85 dB(A)

Authorized By -

Name : Sapana Amin Designation: Lab Incharge NOTE:

Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.

Re analysis of sample will be done, if requested within 2 days from the date of Reporting of sample if the samples are not 1) consumed during analysis.

The results reported above relate to the sample identified under Sample Details.

	TEST REPORT FORMAT - NOISE	
DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.; 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021

GRASIM INDUSTRIES LIMITED- UNIT: INDIAN RAYON VERAVAL. AMBIENT AIR MONITORING REPORT

				MIDIEITI AII	MICHALL	OINING IN	LI VIVI								
Month: O	CTOBER - 2023														
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR I	LOW QUA	YTITY				ANALY	SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME	GAS	SPM	GAS	PM 2.5	PM 10	CS ₂	H ₂ S	SO ₂	NO ₂	HCL	Cl2
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 03-10-2023	3.7	W-E	1440	0.5	1.3	720	38	89	21	25	27	28	BDL	BDL
	ON THE GUEST HOUSE TERRACE 18-10-2023	4.5	W-E	1440	0.5	1.3	720	33	94	27	30	24	33	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 03-10-2023 ON THE ENGG. HOSTEL TERRACE	3.7 4.5	W-E W-E	1440 1440	0.5 0.5	1.3	720 720	17 22	68 71	11 17	9	16 19	20	BDL BDL	BDL BDL
	18-10-2023														
3	ON THE CAUSTIC PLANT TERRACE 03-10-2023	3.7	W-E	1440	0.5	1.3	720	21	61	9	13	21	26	BDL	BDL
	ON THE CAUSTIC PLANT TERRACE 18-10-2023	4.5	W-E	1440	0.5	1.3	720	25	67	13	17	25	29	BDL	BDL
4	ON THE ADMIN. OFFICE TERRACE 03-10-2023	3.7	W - E	1440	0.5	1.3	720	32	98	39	41	29	27	BDL	BDL
	ON THE ADMIN. OFFICE TERRACE 18-10-2023	4.5	W-E	1440	0.5	1.3	720	30	93	45	39	25	21	BDL	BDL

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED- UNIT : INDIAN RAYON VERAVAL.

					VERA	/AL.									
			<u> </u>	MBIENT AIR	MONIT	ORING R	EPORT								
Month: N	OVEMBER - 2023														
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR	FLOW QUAI	YTITY				ANALY	SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME	GAS	SPM	GAS	PM 2.5	PM 10	CS ₂	H₂S	SO ₂	NO ₂	HCL	CI ₂
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 07-11-2023	3.5	N - S	1440	0.5	1.3	720	58	98	28	34	28	24	BDL	BDL
	ON THE GUEST HOUSE TERRACE 21-11-2023	2.8	N-S	1440	0.5	1.3	720	53	93	34	30	22	23	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 07-11-2023	3.5	N - S	1440	0.5	1.3	720	27	63	BDL	8	19	23	BDL	BDL
	ON THE ENGG. HOSTEL TERRACE 21-11-2023	2.8	N-S	1440	0.5	1.3	720	36	74	10	12	25	29	BDL	BDL
3	ON THE CAUSTIC PLANT TERRACE 07-11-2023	3.5	N - S	1440	0.5	1.3	720	41	71	13	19	12	21	BDL	BDL
	ON THE CAUSTIC PLANT TERRACE 21-11-2023	2.8	N - S	1440	0.5	1.3	720	49	84	21	27	19	27	BDL	BDL
4	ON THE ADMIN. OFFICE TERRACE 07-11-2023	3.5	N - S	1440	0.5	1.3	720	49	92	36	47	23	29	BDL	BDL
	ON THE ADMIN. OFFICE TERRACE 21-11-2023	2.8	N-S	1440	0.5	1.3	720	57	97	40	49	21	25	BDL	BDL

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED- UNIT : INDIAN RAYON

	VERAVAL. AMBIENT AIR MONITORING REPORT														
Month: D	ECEMBER - 2023		_												
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR	FLOW QUAI	YTITY				ANALY	SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME	GAS	SPM	GAS	PM 2.5	PM 10	CS ₂	H ₂ S	SO ₂	NO ₂	HCL	CI ₂
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 13-12-2023	3.1	N - S	1440	0.5	1.3	720	49	87	39	46	19	21	BDL	BDL
	ON THE GUEST HOUSE TERRACE 29-12-2023	2.2	E-W	1440	0.5	1.3	720	53	96	32	29	25	23	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 13-12-2023 ON THE ENGG. HOSTEL TERRACE	3.1	N-S E-W	1440	0.5	1.3	720 720	58 19	78 46	12 BDL	10 BDL	15 13	13 11	BDL BDL	BDL BDL
	29-12-2023	2.2	E - W	1440	0.5	1.3	720	19	46	BDL	BUL	13	11	BUL	BUL
3	ON THE CAUSTIC PLANT TERRACE 13-12-2023	3.1	N - S	1440	0.5	1.3	720	55	81	27	25	28	17	BDL	BDL
	ON THE CAUSTIC PLANT TERRACE 29-12-2023	2.2	E-W	1440	0.5	1.3	720	41	73	12	17	16	14	BDL	BDL
4	ON THE ADMIN. OFFICE TERRACE 13-12-2023	3.1	N - S	1440	0.5	1.3	720	49	95	34	37	34	26	BDL	BDL
	ON THE ADMIN. OFFICE TERRACE 29-12-2023	2.2	E-W	1440	0.5	1.3	720	50	87	29	32	26	19	BDL	BDL

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED- UNIT: INDIAN RAYON VERAVAL. AMBIENT AIR MONITORING REPORT

				WIDILITI AII		U	<u> </u>								
Month: JA	ANUARY - 2024														
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR I	LOW QUA	YTITY				ANALY	SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME	GAS	SPM	GAS	PM 2.5	PM 10	CS ₂	H ₂ S	SO ₂	NO ₂	HCL	Cl2
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 07-01-2024	2.7	N - S	1440	0.5	1.3	720	44	85	22	22	27	24	BDL	BDL
	ON THE GUEST HOUSE TERRACE 29-01-2024	2.8	S - N	1440	0.5	1.3	720	46	93	27	31	22	29	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 07-01-2024 ON THE ENGG. HOSTEL TERRACE 29-01-2024	2.7 2.8	N - S S - N	1440 1440	0.5	1.3 1.3	720 720	38 43	71 86	10 12	13 17	15 19	22 28	BDL BDL	BDL BDL
3	ON THE CAUSTIC PLANT TERRACE 07-01-2024 ON THE CAUSTIC PLANT TERRACE 29-01-2024	2.7	N - S S - N	1440 1440	0.5	1.3	720 720	40 49	76 88	13 25	17 20	14	21	BDL BDL	BDL BDL
4	ON THE ADMIN. OFFICE TERRACE 07-01-2024 ON THE ADMIN. OFFICE TERRACE 29-01-2024	2.7	N - S S - N	1440 1440	0.5 0.5	1.3	720 720	41 46	80 95	20 33	25 39	19 25	27 22	BDL BDL	BDL BDL

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED- UNIT : INDIAN RAYON VERAVAL.

	VERAVAL. AMBIENT AIR MONITORING REPORT														
			<u> </u>	MBIENT AIR	MONIT	ORING R	EPORT								
Month: FE	EBRUARY - 2024		_												
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR	FLOW QUAI	YTITY				ANALY	SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME	GAS	SPM	GAS	PM 2.5	PM 10	CS ₂	H₂S	SO ₂	NO ₂	HCL	CI ₂
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 13-02-2024	3.9	N - S	1440	0.5	1.3	720	51	88	18	22	23	17	BDL	BDL
	ON THE GUEST HOUSE TERRACE 26-02-2024	3.5	N - S	1440	0.5	1.3	720	43	84	25	25	28	24	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 13-02-2024	3.9	N - S	1440	0.5	1.3	720	35	66	12	9	14	17	BDL	BDL
	ON THE ENGG. HOSTEL TERRACE 26-02-2024	3.5	N-S	1440	0.5	1.3	720	40	77	14	10	18	20	BDL	BDL
3	ON THE CAUSTIC PLANT TERRACE 13-02-2024	3.9	N - S	1440	0.5	1.3	720	41	93	22	20	24	19	BDL	BDL
	ON THE CAUSTIC PLANT TERRACE 26-02-2024	3.5	N - S	1440	0.5	1.3	720	45	89	22	17	26	15	BDL	BDL
4	ON THE ADMIN. OFFICE TERRACE 13-02-2024	3.9	N - S	1440	0.5	1.3	720	50	86	28	30	20	21	BDL	BDL
	ON THE ADMIN. OFFICE TERRACE 26-02-2024	3.5	N-S	1440	0.5	1.3	720	52	91	27	20	24	17	BDL	BDL

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED- UNIT : INDIAN RAYON

	VERAVAL. AMBIENT AIR MONITORING REPORT														
				MBIENT AIR	MONIT	ORING R	EPORT								
Month: M	winth: MARCH - 2024 Sr. LOCATION OF no. WIND VELOCITY WIND VELOCITY AIR FLOW QUANTITY ANALYSIS FOR NO. AMBIENT STATION VELOCITY DIRECTION TIME GAS SPM GAS PM 2.5 PM 10 CS2 H ₂ S SO2 NO2 HCL Cl ₂														
Sr.	LOCATION OF	WIND	WIND	SAMPLING	AIR	FLOW QUAI	YTITY					SIS FOR			
no.	AMBIENT STATION	VELOCITY	DIRECTION	TIME				PM 2.5	PM 10	CS ₂				HCL	Cl ₂
		Km/Hr.		(MIN.)	(LPM)	M3/MIN.	LITRE				(MICROG	RAMS/M ³)		
1	ON THE GUEST HOUSE TERRACE 14-03-2024	4.0	E-W	1440	0.5	1.3	720	33	72	26	18	14	11	BDL	BDL
	ON THE GUEST HOUSE TERRACE 27-03-2024	7.2	W-E	1440	0.5	1.3	720	41	85	22	13	10	7	BDL	BDL
2	ON THE ENGG. HOSTEL TERRACE 14-03-2024 ON THE ENGG. HOSTEL TERRACE	4.0 7.2	E-W W-E	1440 1440	0.5 0.5	1.3 1.3	720 720	40 30	78 73	6 11	7	BDL BDL	BDL BDL	BDL BDL	BDL BDL
	27-03-2024 ON THE CAUSTIC PLANT TERRACE	4.0	E-W	1440	0.5	1.3	720	25	77	18	13	12	9	BDL	BDL
3	14-03-2024 ON THE CAUSTIC PLANT TERRACE 27-03-2024	7.2	W - E	1440	0.5	1.3	720	34	68	21	17	14	10	BDL	BDL
4	ON THE ADMIN. OFFICE TERRACE 14-03-2024 ON THE ADMIN. OFFICE TERRACE	4.0 7.2	E - W W - E	1440 1440	0.5 0.5	1.3	720 720	34 37	82 79	24 26	20 22	15 17	13 11	BDL BDL	BDL BDL
	27-03-2024														

BDL = Below detectable limit

GRASIM INDUSTRIES LIMITED. UNIT : INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: OCTOBER - 2023

			Р	LANT	INLET					PLA	NT O	UTLE	T	
DATE	LI	ZINC	S.S.	O & G	C.O.D.	B.O.D	- LU	ZINC	S.S	O &G	COD	B.O.D	COLOUR	Temp.
	pН	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	рН	Mg/L	Mg/l	Mg/L	Mg/L	Mg/L	Units.	°C
1	1.28	54.9					7.17	< 1.0	23					34.10
2	1.77	45.8					8.38	< 1.0	19					33.68
3	1.31	68.0					6.90	< 1.0	13					35.33
4	1.47	73.2					7.14	< 1.0	16		178	54		35.57
5	1.56	68.0					6.54	5.2	30					35.13
6	1.46	45.8	127	31	489	139	6.97	6.5	26	1	133	42	10	35.00
7	0.98	116.4					7.31	5.2	20					35.93
8	138	53.6					8.35	< 1.0	14					32.69
9	1.40	92.9					6.90	6.5	21					35.35
10	1.20	54.9					6.65	< 1.0	17					35.04
11	1.26	51.0					7.75	< 1.0	34		184	47		35.52
12	1.18	41.9					6.64	< 1.0	24					35.64
13	1.35	41.9	112	19	406	117	6.70	< 1.0	17	Tr	192	57	10	35.68
14	1.08	103.3					7.91	< 1.0	22					35.29
15	1.12	64.1					7.88	< 1.0	27					33.10
16	1.13	71.9					7.98	< 1.0	22					35.29
17	1.15	56.2					6.80	2.6	24					35.06
18	1.68	43.2					7.70	< 1.0	18		165	46		34.79
19	1.39	28.8					7.87	< 1.0	27					34.63
20	1.20	51.0	119	39	471	131	7.08	3.9	16	1	138	38	10	35.92
21	1.14	113.8					6.81	< 1.0	14					36.65
22	1.27	52.3					6.80	< 1.0	21					36.76
23	1.07	70.6					7.56	< 1.0	20					35.36
24	1.49	53.6					8.47	< 1.0	19					35.91
25	1.53	52.3					8.44	5.2	56		201	59		34.94
26	1.07	94.2					7.91	< 1.0	49					33.43
27	1.10	62.8	104	23	354	108	7.00	< 1.0	14	Tr	173	48	10	33.71
28	0.95	81.1					7.50	< 1.0	72					35.24
29	1.12	98.1					7.25	< 1.0	19					34.72
30	1.03	105.9					6.40	< 1.0	22					35.41
31	2.65	27.5					7.95	5.2	14					34.67

GRASIM INDUSTRIES LIMITED. UNIT: INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: NOVEMBER - 2023

			Р	LANT	INLET					PLA	NT O	UTLE	T	
DATE		ZINC	S.S.	0 & G	C.O.D.	B.O.D		ZINC	S.S	O &G	COD	B.O.D	COLOUR	Temp.
	рН	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	рН	Mg/L	Mg/I	Mg/L	Mg/L	Mg/L	Units.	٥С
1	0.95	120.3					7.16	3.9	29		141	42		36.00
2	1.24	66.7					7.16	< 1.0	21					36.00
3	1.17	82.4	123	32	421	133	7.94	< 1.0	16	Tr	194	62	10	36.00
4	1.00	117.7					8.03	< 1.0	17					35.00
5	1.07	56.2					6.85	< 1.0	16					35.00
6	1.15	57.6					7.07	< 1.0	27					36.00
7	1.23	92.9					8.02	< 1.0	31					36.00
8	1.73	40.5					8.22	< 1.0	18		126	37		35.00
9	1.07	77.2					7.02	< 1.0	20					37.00
10	1.40	69.3	96	27	352	97	6.76	< 1.0	15	Tr	173	54	10	37.00
11	0.93	116.4					7.29	< 1.0	14					36.00
12	1.34	68.0					6.67	< 1.0	23					37.00
13	1.00	90.3					8.37	< 1.0	21					36.00
14	1.14	74.6					6.90	< 1.0	23					35.00
15	0.97	149.1					6.71	6.5	42		183	51		35.00
16	1.26	34.0					6.75	< 1.0	17					35.00
17	0.70	136.0	92	19	402	126	6.37	< 1.0	15	3	208	63	10	35.00
18	1.14	58.9					7.55	< 1.0	17					36.00
19	1.15	69.3					7.12	< 1.0	19					35.00
20	1.19	94.2					6.79	< 1.0	22					35.00
21	0.88	102.0					6.45	7.8	28					36.00
22	1.03	128.2					7.72	7.8	21		178	49		37.00
23	1.25	58.9					8.37	< 1.0	33					36.00
24	1.26	58.9	62	28	308	98	7.35	< 1.0	21	3	165	47	10	35.00
25	1.34	40.5					7.10	< 1.0	22					36.00
26	1.33	70.6					7.10	< 1.0	21					36.00
27	1.20	75.9					8.35	< 1.0	30					36.00
28	1.48	58.9					7.65	< 1.0	27					34.00
29	1.31	83.7					7.15	5.2	19		198	65		34.00
30	1.36	65.4					7.70	< 1.0	23					35.00

GRASIM INDUSTRIES LIMITED. UNIT: INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: DECEMBER - 2023

			Р	LANT	INLET					PLA	NT O	UTLE	T	
DATE	рН	ZINC	S.S.	0 & G	C.O.D.	B.O.D	рH	ZINC	S.S	O &G	COD	B.O.D	COLOUR	Temp.
	рп	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	рп	Mg/L	Mg/l	Mg/L	Mg/L	Mg/L	Units.	°C
1	1.49	79.8	126	28	452	127	7.60	< 1.0	24	2	206	59	10	35.00
2	1.85	102.0					8.15	< 1.0	21					35.00
3	1.20	109.9					6.35	< 1.0	23					35.00
4	1.60	74.6					7.12	< 1.0	20					36.00
5	1.82	104.6					7.19	< 1.0	26					33.00
6	1.49	64.1					6.77	< 1.0	36		171	49		31.00
7	1.52	79.8					7.33	< 1.0	18					36.00
8	1.80	88.9	108	37	375	113	7.70	< 1.0	11	3	138	41	10	33.00
9	2.05	45.8					6.70	7.8	17					35.00
10	1.32	92.9					7.75	< 1.0	12					35.00
11	1.81	48.4					8.01	< 1.0	24					34.00
12	1.69	126.9					7.29	6.5	19					34.00
13	1.82	70.6					7.60	5.2	27		131	41		34.00
14	1.74	82.4					7.18	< 1.0	22					34.00
15	1.59	75.9	86	26	240	75	6.80	< 1.0	20	5	92	24	10	34.00
16	1.62	91.6					7.39	< 1.0	14					36.00
17	1.77	87.6					7.13	< 1.0	20					35.00
18	2.35	85.0					6.85	< 1.0	15					33.00
19	1.83	65.4					7.50	< 1.0	12					33.00
20	1.81	56.2					6.73	< 1.0	13		173	52		32.00
21	1.70	133.4					8.30	< 1.0	12					33.00
22	1.80	62.8	102	32	364	104	6.46	< 1.0	15	3	157	42	10	34.00
23	2.09	62.8					6.21	< 1.0	21					35.00
24	1.88	70.6					7.28	< 1.0	19					30.00
25	1.55	124.3					8.36	< 1.0	22					31.00
26	1.60	95.5					6.88	< 1.0	11					34.00
27	1.79	79.8					7.88	< 1.0	13		131	41		32.00
28	1.82	77.2					8.29	< 1.0	11					32.00
29	1.75	64.1	95	21	342	98	7.35	< 1.0	12	2	178	51	10	34.00
30	1.68	69.3					7.29	< 1.0	13					33.00
31	1.94	44.4					7.80	< 1.0	52					30.00

GRASIM INDUSTRIES LIMITED. UNIT : INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: JUNUARY - 2024

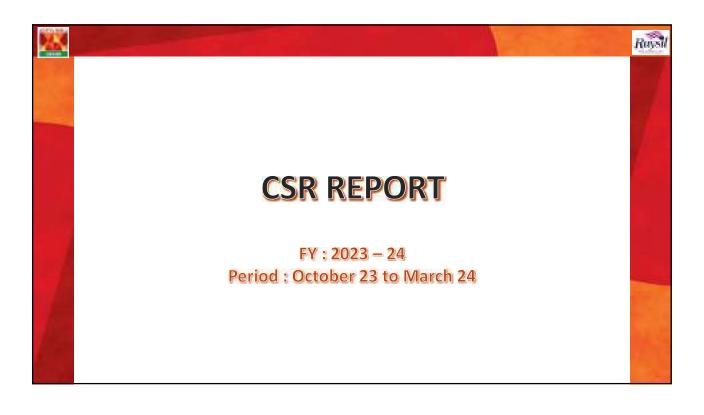
	ı		Р	LANT	INLET	WIOTILIT. 3		2024		РΙΔ	N T O	UTLE	т	
DATE		ZINC	S.S.	O&G	C.O.D.	B.O.D		ZINC	S.S	0 &G	COD	B.O.D	COLOUR	Temp.
DAIL	pН	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	рН	Mg/L	Mg/I	Mg/L	Mg/L	Mg/L	Units.	°C
1	1.75	60.2		Ů		Ť	8.37	5.2	25	_		Ť		31
2	1.70	77.2					8.13	< 1.0	37					34
3	1.84	52.3					8.05	< 1.0	22		168	48		33
4	1.60	133.4					6.68	< 1.0	18					33
5	1.64	71.9	121	27	387	109	6.58	< 1.0	15	3	186	54	10	32
6	1.37	105.9					8.34	< 1.0	17					33
7	1.58	64.1					7.29	< 1.0	24					34
8	1.45	141.3					7.50	< 1.0	18					34
9	1.41	69.3					7.80	< 1.0	25					32
10	1.32	113.8					7.45	< 1.0	16		207	67		31
11	1.65	81.1					6.83	< 1.0	21					29
12	1.76	94.2	106	38	408	117	7.62	< 1.0	25	3	172	46	10	34
13	2.30	56.2					7.74	< 1.0	19					35
14	1.98	64.1					7.65	< 1.0	13					35
15	1.47	92.9					7.96	5.2	61					34
16	11.31	< 1.0					7.43	< 1.0	16					34
17	1.90	102.0					7.83	< 1.0	23		153	38		35
18	1.56	94.2					7.07	< 1.0	17					32
19	1.50	85.0	84	23	321	95	6.40	7.8	15	1	201	56	10	30
20	1.40	120.3					8.19	< 1.0	29					34
21	1.88	69.3					7.14	< 1.0	22					34
22	1.69	95.5					7.31	< 1.0	18					34
23	1.83	48.4					8.38	< 1.0	10					34
24	1.80	81.1					8.11	< 1.0	14		151	42		33
25	1.87	90.3					7.37	3.9	22					34
26	1.97	66.7	111	31	407	109	7.00	< 1.0	16	1	187	49	10	33
27	1.74	83.7					7.71	3.1	23					30
28	2.03	54.9					6.79	< 1.0	15					29
29	2.41	45.8					6.97	< 1.0	20					33
30	1.79	75.9					8.40	< 1.0	18					34
31	1.80	75.9					8.25	< 1.0	26		198	55		33

GRASIM INDUSTRIES LIMITED. UNIT: INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: FEBRUARY - 2024

l I			Р	LANT	INLET		PLANT OUTLET							
DATE	рН	ZINC	S.S.	0 & G	C.O.D.	B.O.D	рН	ZINC	S.S	O &G	COD	B.O.D	COLOUR	Temp.
	рп	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	рп	Mg/L	Mg/l	Mg/L	Mg/L	Mg/L	Units.	oC
1	2.18	64.1					6.96	< 1.0	22					33
2	1.57	98.1	98	27	318	72	8.22	< 1.0	25	1	146	38	10	34
3	2.12	60.2					8.00	< 1.0	34					34
4	2.01	66.7					6.91	< 1.0	24					33
5	1.90	94.2					6.87	7.8	21					34
6	2.48	31.4					6.86	< 1.0	18					34
7	1.60	94.2					6.77	< 1.0	17		186	54		32
8	1.65	64.1					7.22	< 1.0	26					33
9	1.88	64.1	119	29	367	108	7.06	< 1.0	14	3	203	63	10	32
10	1.77	54.9					6.56	7.8	14					32
11	1.84	73.2					7.30	< 1.0	22					32
12	1.69	54.9					7.70	3.9	17					30
13	1.66	75.9					7.60	< 1.0	15					29
14	2.28	54.9					6.87	2.6	19		206	63		30
15	1.85	69.3					6.33	< 1.0	17					28
16	1.60	193.6	127	32	412	114	7.15	< 1.0	13	2	188	56	10	29
17	1.85	51.1					7.38	< 1.0	14					30
18	1.69	77.2					6.70	< 1.0	11					29
19	1.42	70.6					8.08	< 1.0	15					29
20	1.68	81.1					6.65	< 1.0	21					28
21	1.75	57.6					7.06	< 1.0	14		206	61		28
22	1.71	43.2					7.05	< 1.0	41					29
23	1.09	126.9	104	28	367	92	7.07	< 1.0	29	3	187	52	10	29
24	1.72	92.9					7.06	< 1.0	13					28
25	1.56	109.9					7.13	< 1.0	19					30
26	2.03	79.8					7.38	< 1.0	17					31
27	2.25	74.6					7.18	< 1.0	13					30
28	1.86	82.4					7.18	5.2	17		176	45	10	31
29	3.81	36.6					7.87	< 1.0	19					30

GRASIM INDUSTRIES LIMITED. UNIT : INDIAN RAYON - VERAVAL Analysis of Treated Effluent Water Month: MARCH - 2024

						Montn:	ntn: MARCH - 2024 PLANT OUT LET							
					INLET									
DATE	На	ZINC	S.S.	0 & G	C.O.D.	B.O.D	На	ZINC	S.S	O &G	COD	B.O.D	COLOUR	Temp.
	Pii	Mg/L	Mg/L	Mg/L	Mg/L	Mg/L	Pii	Mg/L	Mg/l	Mg/L	Mg/L	Mg/L	Units.	٥С
1	1.76	74.6	72	31	160	49	6.85	< 1.0	13	4	204	66	10	28
2	1.84	68.0					6.85	6.5	12					28
3	1.60	105.9					6.73	< 1.0	19					30
4	1.67	77.2					7.79	< 1.0	15					30
5	1.59	92.9					6.67	< 1.0	21					29
6	1.18	95.5					6.41	< 1.0	22		187	52		28
7	1.21	149.1					6.87	< 1.0	26					30
8	1.68	204.0	104	23	325	98	7.55	< 1.0	15	2	203	63	10	30
9	1.76	45.8					6.66	< 1.0	13					29
10	1.77	83.7					6.70	< 1.0	11					30
11	1.65	54.9					6.50	< 1.0	51					30
12	1.66	109.9					6.61	< 1.0	15					31
13	1.81	61.5					8.12	< 1.0	11		196	59		30
14	1.64	45.8					8.29	< 1.0	17					30
15	2.04	35.3	96	27	404	119	7.28	< 1.0	13	3	164	51	10	30
16	1.83	105.9					6.75	< 1.0	18					31
17	2.04	52.3					6.96	< 1.0	21					31
18	1.85	78.5					6.62	< 1.0	11					30
19	1.87	81.1					6.40	< 1.0	13					32
20	2.14	70.6					8.12	< 1.0	15		164	48		33
21	1.94	94.2					7.80	< 1.0	14					32
22	1.94	83.7	124	36	513	146	6.28	< 1.0	16	2	206	56	10	30
23	2.61	54.9					6.89	< 1.0	19					31
24	2.20	43.2					7.73	< 1.0	22					31
25	1.85	91.6					7.11	< 1.0	15					32
26	1.95	47.1					8.23	< 1.0	19					33
27	2.29	66.7					6.55	< 1.0	15		142	41		32
28	2.12	87.6					6.75	< 1.0	61					34
29	2.07	58.9	106	27	372	109	6.70	< 1.0	27	4	173	53	10	33
30	1.89	100.7					6.61	6.5	11					34
31	2.23	64.1					7.88	< 1.0	34					34



CSR Activities Raysh **Education** Village Library Program: In Science Exhibition: We have extended support to 1 Village where students are pursuing Higher Education after 10th and 12th were the Government Education dept., in organizing Block facilitated and appreciated, Level Science Exhibition. 125 students participated. where in total 85 students were facilitated for their achievement, and students participated for a cultural program Counselling Career Session: Career Counselling Support of Water tank in was conducted in 4 different high schools for Govt school: A water tank of class 10th and 12th students 2000 liters with a submersible motor was 315 students where participated in the session. provided at Hudco primary school benefitting students. Drawing Essay and Writing Competition: A drawing and essay writing Smart Anganwadi: A newly competition was organized constructed smart in 2 Govt Primary Schools Anganwadi centre was where 80 Students took inaugurated at Chatroda part in the competition.

Roysil

Poster making and Quiz competition: A Poster making, and quiz competition was organized at JM Science College where 220 students participated in the events. Drinking Water Station- A drinking water station was built at Govt school Govindpara to provide safe drinking water to students of the school. Safety Awareness and

Disaster

session.



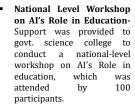
CSR Activities

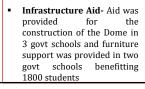


















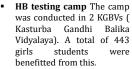
CSR Activities Roysil **Education** Healthcare **Support in Government schools** Construction of Wash room facility in 2 govt Nutrition Kit - TB Patients schools. :26 Villages - 153 Patients Appreciation from DDO and Collector of Gir Somnath For TB nutrition Kit distribution Annual Day Function in 1 Fun Fair in 1 school

Roysh

Roysh

CSR Activities

Healthcare





- **HB testing & Blood Group** Testing Camp: The Blood testing & HB testing camp was conducted in Kasturba Gandhi Balika Vidyalaya in coordination with Aditya Birla Hospital. A total of 505 Students were benefitted from this.
- Medical Camp: General Medical Camp Was Organized in coordination with Aditya Birla Hospital where 180 Patients were medicated and treated.





- Child Mother and Immunization: Mamta Session was regularly organized in five of the adopted villages. A total of 552 Beneficiaries were benefitted from this program.
- School Health Check-up Camp: A school Health check-up camp conducted in 3 Govt schools where 244 students get medication free of cost.
- Pulse Polio Immunization drive phase 2 The drive was supported on 10 December 2023. We Distributed biscuits to the children Getting Immunized in 53 Booths of the adopted Villages & and in Veraval City where in a total of 10206 children were Immunized







CSR Activities

Healthcare





Aid for Artificial Limb: Financial Aid to 2 Patients from our adopted villages was given for artificial limbs.



Safe Drinking Water -WASMO:In coordination with the Govt. department, the Gram Panchayat Foundation Stone Ceremony for Drinking Water project was carried out in the village where 2800 people will receive benefits for the same.





- Safe Drinking Water- Bore well A bore well facility was provided at 1 of our adopted villages which will benefit 950 villagers to get access to clean and safe drinking water
- **Nutrition Kit Distribution-**A 3-day Nutrition kit distribution drive was carried out at govt. hospital, where we provided nutrition kits to lactating mothers. A total of 32 kits were distributed in a span of 3
- Sanitation Block Aid to Samsth Kharva Samaj for the construction of a Toilet near the temple at Jhaleshwar benefitting 3000 people
- Family Planning Camps: Sterilization of Mother 160
- Dist. Level Ayush Camp In collaboration with dist. Ayush department the camp was conducted where a total of 3000 patients were treated



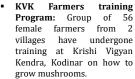


Roysh

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CSR Activities

Sustainable Livelihood





Farmers Training - FPO To form the FPO 3 farmers were sent to the Shyadari Farms Nashik, to learn in detail the process of the FPO working. A meeting was conducted with our 3 farmers who visited Shyadari farms in Nashik. They shared their knowledge with 56 farmers from 2 villages

Farmers Meeting -

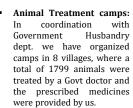
villages.

farmers' meeting was held in which 88 dedicated individuals attended the session from two





Project Pahel: A meeting was organized with 10 SHGs 90 women have participated from the slum area of Veraval city.





Vocational Training-Distribution Certificate Program to 19 Tailoring Trainees of the 58th batch



CSR Activities

Sustainable Livelihood

Tailoring Machine Aid- 4 Beneficiaries



Training-Vocational Computer Class-104 Students



Natural Resource Governance - Solar Cooker aid 15 Beneficiaries.



Vocational Training- Inaugurated new male tailoring class at our current tailoring center with the 1st batch of 12 students

Diwali Mela 2023

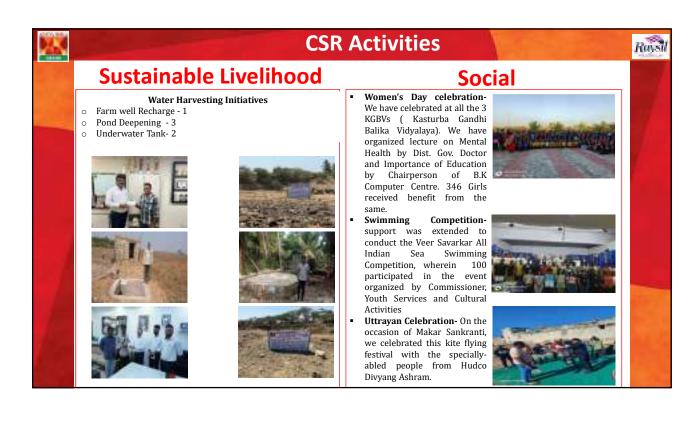
To Boost the Regional Entrepreneurs and support their livelihood we conducted the 4 day Diwali Mela where 42 People kept their stalls, of 12 Different Varieties, Like Clothing, Purse, Handloom, Food, and beverages, Products made from Cow Milk, Urine, and Dung, Products made from Mud, etc. During the 4day program, approximately 4200 people visited the Mela. Highest Income for stall was 1,50,000 INR while Lowest was 2,500 INR













Roysh

CSR Activities

Infrastructure Development





 Furniture aid: We have extended furniture support in 3 newly constructed Gram Panchayat. Benefitting 9750 people

Support in Village:

- To construct new cremation bed in 1 village. Benefiting 2400 people
- Dome construction in Sub Centre Health in 1 village for conducting Yoga and having Waiting area for Villagers

Project Ujas: To enhance safety and security in one of the adopted village, we have extended support with 100% illumination in village and peripheral areas by installing 130 Solar street lights.



- Provided a fogging machine to eradicate the malaria problem.
- Aid to Umrethi village for renovation of Anganwadi.
- Aid to Umrethi village for renovation of Cremation Ground







Support in Village:

Renovation of 2 Government Anganwadi under BALA concept.



