

Your (Half Yearly Compliance Report) has been Submitted with following details

Proposal No	J-11011/90/2011- IA II (I)
Compliance ID	128150192
Compliance Number(For Tracking)	EC/M/COMPLIANCE/128150192/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	26-11-2025
RO/SRO Name	V Geroge Jenner
RO/SRO Email	tr025@ifs.nic.in
State	ANDHRA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Vijayawada

Note:- SMS and E-Mail has been sent to V Geroge Jenner, ANDHRA PRADESH with Notification to Project Proponent.



GIL/BBP/ENV/MOEF&CC/EC/701

25-11-2025

THE REGIONAL OFFICER,
Integrated Regional Office (IRO), Vijayawada,
Ministry of Environment, Forest and Climate Change,
Green House Complex, Gopalareddy Road,
Vijayawada-520010, Andhra Pradesh.

Sub: Half-yearly Environmental Clearance Compliance Report Submission– Grasim Industries Ltd.

(Ref: 1. Environmental Clearance vide F. No. J-11011/90/2011- IA II (I), Dated 22nd March, 2013
2. Transfer of Environmental Clearance vide F. No. J-11011/90/2011-IA II (I), Dated 21st November, 2019.
3. Extension of validity of EC till 22nd March 2023, vide F. No. J-11011/90/2011-IA II (I) Dated 18th August 2020.)

Dear Sir,

With respect to the above-mentioned subject, Grasim Industries Limited (Chemical Division, BB Puram) are herewith enclosing our EC conditions compliance report for the period **April 2025 - September 2025**, with this letter for your information and kind record please.

Thanking you,

Yours faithfully,

For Grasim Industries Limited
(Chemical Division, BB Puram)

Appala Vijaya Rama Raju Sagi
Environment, Safety & Sustainability-AGM

Contact Details:

Mobile Nos: 9977448340 (alt) 9908986312

Email : shridhara.sastri@adityabirla.com

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: vijay.ramaraju@adityabirla.com

Encl.: As above

Copy to :

1. The Regional Director, Central Pollution Control Board (CPCB), Chennai.
2. The Regional Director, MoEFCC, Chennai.
3. Joint Chief Environment Environmental Engineer (JCEE), AP Pollution Control Board, Vijayawada
4. The JCEE, Zonal Office, Visakhapatnam
5. Environmental Engineer, AP Pollution Control Board, Ramanayyapeta, Kakinada

Grasim Industries Limited

Chemical Division - BB Puram,
Survey No : 1 to 4, Near Kanedu Metta Road, Balabhadrapuram
Bikkavolu (M), East Godavari Dist - 533 343, Andhra Pradesh, INDIA

Website : www.grasim.com
CIN L17124MP1947PLC000410

Regd. Office : Birlagram (P.O), Nagda, M.P. - 456 331, INDIA

To
THE REGIONAL OFFICER,
Integrated Regional Office (IRO), Vijayawada,
Ministry of Environment, Forest and Climate Change,
Green House Complex, Gopalareddy Road,
Vijayawada-520010, Andhra Pradesh.

Respected Sir,

Subject: Submission of EC half yearly compliance report for the Period of April 2025 to September 2025- Reg.

Reference: F. No: 1) J-11011/90/2011- IA II (I), Dated 22nd March, 2013.
2) J-11011/90/2011-IA II (I) Dated 18th August 2020.

With reference to the above, we are here with submitting EC Half yearly Compliance Report for the April 2025 to September 2025 on Conditions audited by Our NABL Laboratory AKUNLABORATORIES PVT.LTD for **M/s. Grasim Industries Limited**, Balabhadrapuram (V), Biccavolu (M) East Godavari District.

Thanking you,

Yours Sincerely

For AKUNLABORATORIES PVT.LTD



Manager Laboratory

Enclosure: EC half yearly Compliance Report



Grasim Industries Limited (Chemical Division)
Balabhadrapuram

**HALF YEARLY EC Conditions Compliance Report for the
period of April 2025 - September 2025.**

1. Environmental Clearance vide F. No. J-11011/90/2011- IA II (I), Dated 22nd March, 2013.
2. Transfer of Environmental Clearance vide F. No. J-11011/90/2011-IA II (I), Dated 21st November, 2019.
3. Extension of validity of EC till 22nd March 2023, vide F. No. J-11011/90/2011-IA II (I) Dated 18th August 2020.







Grasim Industries Limited (Chemical Division)
Survey No 1to 4, Near Kanedu Metta Road
Balabhadrapuram- East Godavari District
Andhra Pradesh - 533343










S. No.	Conditions	Status of Compliance						
A. SPECIFIC CONDITIONS:								
i	No mercury cell shall be used. Manufacturing process of chlor alkali shall be based on membrane cell.	Complied, The industry has adopted Manufacturing process is based on Membrane cell. Photographs of the same is annexed as an Annexure-1						
ii	Bag filter along with adequate stack shall be provided to rice husk/coal fired boilers boiler to control particulate emissions within 50 mg/Nm ³ . The waste gases shall be discharged into atmosphere through stack of adequate height as per CPCB/APPCB guidelines.	Complied, The industry has installed an Electrostatic Precipitator as an air pollution controlling device to control particulate matter to keep the particulate emission well within the prescribed limits. ESP and Bag filters photographs are as annexed as Annexure-2 Recent Environmental Monitoring reports are as annexed as and Annexure-3 . <table border="1"> <thead> <tr> <th>S. No.</th><th>Boiler Emission Limit</th><th>Result September- 2025</th></tr> </thead> <tbody> <tr> <td>1</td><td>50 mg/Nm³</td><td>38.9 mg/Nm³</td></tr> </tbody> </table>	S. No.	Boiler Emission Limit	Result September- 2025	1	50 mg/Nm ³	38.9 mg/Nm ³
S. No.	Boiler Emission Limit	Result September- 2025						
1	50 mg/Nm ³	38.9 mg/Nm ³						
iii	As proposed adequate scrubbing system shall be provided to control Cl ₂ emissions less than 15 mg/Nm ³ and control HCl emissions less than 35 mg/Nm ³ respectively. Online Chlorine analyser along with alarm indicator shall be installed in the chlorine stack with a minimum reading of 1 ppm and will be connected to the DCS control room. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly.	Complied, The industry has installed Tail gas towers for HCL furnace to control HCL emissions, and Water scrubber to control Cl ₂ emissions. Also provided Chlorine analysers along with alarm indicators which are installed with a minimum reading of 1 PPM and is connected to the DCS control room. The scrubber inlet and outlet in plant parameters are metered regularly by the production lab to measure the efficiencies. Photographs of Online Chlorine analyser connected to DCS control room are annexed as Annexure-5						
iv	The gaseous emissions (SO ₂ , NO _x , Cl ₂ , HCl) and particulate matter from boiler and process stack shall conform to the norms prescribed by the CPCB/ APPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. The system shall be interlocked with the pollution control equipment's so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped. In the event of failure of any pollution control system	Complied, The Emissions from boiler and process stacks are well within the norms of the prescribed norms. We have installed Continuous online stack emission monitoring system at Boiler and Process stacks. Recent Environmental Monitoring reports are as annexed as and Annexure-3 .						

S. No.	Conditions	Status of Compliance
	adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring shall be done regularly and report shall be submitted to APPCB and the Ministry's regional office at Bangalore.	
v	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limits stipulated by the APPCB.	<p>Complied, The industry provided a closed shed for the coal yard and also using a closed coal conveyor to reduce fugitive emissions.</p> <p>The industry is also constructing coal and salt sheds to control fugitive emissions and prevent raw material wastage, as well as to minimize soil pollution and erosion caused by rainfall runoff.</p> <p>Also, in Stable Bleaching powder area bag filter has installed to reduce the fugitive emissions.</p> <p>Water sprinkling is also carried out to control fugitive emissions.</p>   <p>Latest Fugitive emission monitoring is carried out inside the plant premises, monitoring reports is as annexed as an Annexure-3.</p>
vi	A proper Leak Detection and Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which	<p>Complied. In-house LDAR monitoring programme developed and regular intervals VOC are monitoring. The industry has a well laid out preventive maintenance of pumps, valves, pipelines for proper leak detection and repair.</p>

S. No.	Conditions	Status of Compliance
	preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	 <p style="text-align: center;">Portable Flue Gas Analyzer</p>
vii	Proper hood along with suction facility and scrubbing arrangement should be provided in the chlorine storage area. Alarm for chlorine leakage if any in the liquid chlorine storage area shall be provided along with automatic start of the scrubbing system.	<p>Complied, the industry installed Suction hoods facility at chlorine storage and filling area. Proponent also installed chlorine sensors for alarms at chlorine handling sections.</p> 
viii	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	<p>Complied, the industry provided the acoustic enclosures for DG sets, Stacks are of adequate height and the emissions are well within the prescribed CPCB standards. Monitoring report is annexed as</p>  <p>Annexure-. Acoustic enclosures are as above.</p>
ix	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the APPCB. The levels of PM10, SO2, NOX, Cl2, HCl, and CO in ambient air and	<p>Complying, the industry is uploading the status of compliance of EC conditions and are being sent to RO office, MoEF&CC and SPCB.</p> <p>The levels of PM10, SO2, NOX, Cl2, HCl, and CO in ambient air and emissions from the stacks are being monitored and/ displayed at a convenient location near the main gate of the company and at important</p>

S. No.	Conditions	Status of Compliance
	emissions from the stacks shall be monitored and/ displayed at a convenient location near the main gate of the company and at important public places.	public places. Photograph of the same is as below. monitoring reports is as annexed as an Annexure-3 . 
x	Total fresh water drawl from Godavari River shall not exceed 3800 m ³ /day and prior permission shall be obtained from the Competent Authority.	Noted & agreed , the industry obtained permission to utilize Godavari river water but facility for transfer of Godavari River water from source to plant is not yet established in addition we have water withdrawal permission from Andhra Pradesh Water, Land and Trees Act (APWALTA) - Andhra Pradesh Ground water department and we are ensuring that water withdrawal from bore wells were within the limit the same has been submitting to Ground water Department.
xi	Efforts shall be made to reduce the fresh water requirement by adopting 3 R's (Reduce, Reuse and Recycle) concept.	Noted. 1. The industry has adopted state of the art Zero liquid discharge (ZLD) at our plant premises, the treated effluent/ Re-cycled water is used back as Process water in the plant. 2. The industry has taken enough measures to utilize the storm water, which will be channelized to a reservoir for reutilization. 3. The industry has 100% condensate recovery system for the steam generated at our plant.
xii	Industrial effluent generation shall not exceed 620 m ³ /day and treated in ETP. Treated effluent shall be recycled/reused within the factory premises. Treated effluent shall be collected in the guard pond. Regular water quality monitoring of guard pond shall be carried out and Water quality of treated effluent shall meet the norms prescribed by CPCB/APPCB. Domestic wastewater shall be treated in STP. Water quality of treated effluent shall be monitored regularly.	Noted. Our industrial effluent generation is not exceeding the limit prescribed. Treated Effluent Water/STP Water Quality is tested on monthly basis by 3 rd party NABL MOEF approved Laboratory Monthly Monitoring reports were attached as Annexure-14 • The industry has installed state of the art Zero Liquid Discharge System at our plant premises so that the process effluent is treated and reutilized in the process.

S. No.	Conditions	Status of Compliance
		<ul style="list-style-type: none"> The industry has 100 KLD STP for domestic waste water and it is Operating condition. Treated effluent is being reutilized in the process after treated in ZLD System.  <p><i>Fig. Integrated Water and Effluent treatment plant based on Zero liquid discharge principle.</i></p>  <p><i>Fig. Sewage Treatment Plant (STP) for treatment of Sewage.</i></p>
xiii	No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted.	<p>Complied.</p> <ul style="list-style-type: none"> The industry has installed state of the art Zero Liquid Discharge System at our plant premises so that the process effluent is treated and reutilized in the process. Ensuring no outside effluent discharge.  <p><i>Fig. MEE and ATFD at ETP Plant.</i></p>
xiv	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm	Complied.



S. No.	Conditions	Status of Compliance
	water drain shall be passed through guard pond.	<p>Process effluent is carried to ETP through closed pipelines and is stored in Effluent storage tanks.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Fig. Collection pits at plant Fig. Effluent Holding Tanks</p> <p>The storm water is kept separately built to collect all the rain water, the rain water is collected into a reservoir for reutilization.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Fig. Dedicated Storm Water channel leading to 1 Lakh Cubic meter holding reservoir.</p>
xv	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.	Complied , The industry has obtained Authorization for Handling Hazardous waste along with CFO Order. We have also a valid agreement and membership with TSDF located at Parawada- Visakhapatnam., AP.
xvi	As proposed, ETP sludge and process sludge shall be sent to TSDF site. High calorific value waste shall be sent to cement factory/incinerated.	Noted & Complying Sludge generated at process and ETP is disposed through TSDF. Fly ash sending for bricks manufacturing.






S. No.	Conditions	Status of Compliance
xvii	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 11989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Complied. The industry has confirm that the company is strictly complying with the provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended in October 1994 and January 2000. All transportation of hazardous chemicals is being carried out in accordance with the Motor Vehicle Act (MVA), 1989.
xviii	The company shall undertake following waste minimization measures: - a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Complied. The industry taken all necessary measures to minimize waste, such as a. Reuse and sale of by-product's generated during the process. b. All the filling stations have totalizer and flowmeter for controlled flow. c. All the feed systems are close feed systems. d. Venting is carried out only after getting it treated through scrubbers.
xix	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied, Entire plant premises are having adequate safety critical devices to handle fire. Also had fire hydrant system all over the plant, Fire alarm system, Smoke detectors, Breathing line, and SCBA. Few of them are as annexed in Annexure-4
xx	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied, Occupational health surveillance of workers is being carried out regularly and records are being maintained as per the factories act.
xxi	Green belt shall be developed in 60 acres as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around the proposed pesticide unit to mitigate the odour problem. Selection of plant species shall be as per the CPCB guidelines.	Complied, The industry has developed 33% greenbelt with local species meeting the requirement. Mass plantation program has been done on the occasion of World Environmental Day (June 5th 2025) and World Ozone Day (September 16th 2025) with around 4000 saplings which may covers around 12 Acres. Annexure- 6
xxii	All the commitments made during the Public Hearing / Public Consultation meeting held	Implemented. CSR activities are being Continued.



S. No.	Conditions	Status of Compliance
	on 15th February, 2012 shall be satisfactorily implemented and adequate budget provision should be made accordingly.	
xxiii	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	Noted and agreed. Enterprise Social Commitment now referred as CER is being implemented as per the attached Annexure- 8
xxiv	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall 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 company and/or stakeholders or shareholders.	Complied. Policy towards Corporate Environment responsibility is as annexed as an Annexure-7
xxv	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, 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.	Complied. Temporary housing is provided for construction labour within the site during the project phase.
B. GENERAL CONDITIONS:		

S. No.	Conditions	Status of Compliance
i	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.	Noted and agreed. The industry is acknowledging the importance of compliance and assure that they will strictly adhere to all stipulations laid out by the AP Pollution Control Board.
ii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed by the unit.	Noted and Agreed, The industry having three continuous ambient air quality monitoring stations and the ambient air quality monitoring standards are met with. Also carrying out monitoring by NABL accredited third party laboratory for the same. Monitoring reports are as annexed as Annexure-15.
iii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and agreed. The industry will ensure that no further expansion or modifications shall not be carried out without prior approval from the MoEFCC.
iv	The locations of ambient air quality monitoring stations shall be decided in consultation with the AP Pollution Control Board (APPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Noted and complied with. The industry having 3 number of CAAQM stations and the locations has been decided in consultation with APPCB, they are located in 3 cardinal directions. The CAAQMS are working continuously and data has been uploaded to the APPCB portal.   Fig. Continuous Ambient Air Quality Monitoring Stations.
v	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including	Complying,

S. No.	Conditions	Status of Compliance
	acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The industry has taken all necessary noise control measures to keep the noise levels within the prescribed limits. Latest Environmental Monitoring reports are as annexed as and Annexure-13 .
vi	The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Complying, The industry is harvesting rain water, which is being channelized into a reservoir of Capacity 1 Lakh Cubic meter. <div data-bbox="798 734 1404 1068" data-label="Image">  </div> <p style="text-align: center;"><i>Rain water Harvesting / reservoir</i></p>
vii	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.	Complied, The industry constructed the Dyke walls and kerb walls for all around the storage tanks, so that any accidental spillages are taken care of and mixing with storm water can be avoided. Photographs of the dyke walls and kerb walls are as below. <div data-bbox="1062 1357 1225 1384" data-label="Caption"> <p style="text-align: center;"><i>HCL Tank farm</i></p> </div> <div data-bbox="876 1404 1409 1650" data-label="Image">  </div> <div data-bbox="868 1664 1418 1989" data-label="Image">  </div> <p style="text-align: center;"><i>Fig. Tank farm for Storage of Products</i></p>



S. No.	Conditions	Status of Compliance
viii	Usage of Personnel Protection Equipment's by all employees/ workers shall be ensured.	Complied, The company is issuing all necessary PPE's which are mandatory for the employees.
ix	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.	Complying. The industry has established one skill development centre to provide Class trainings to all employees on safety and health aspects of chemicals handling. Skill development centre photo copies attached as an Annexure-12.
x	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied. All the feasible recommendations have been implemented in respect of Environmental management, risk mitigation measures and public hearing.
xi	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	Complying. The industry is carrying out CSR Activities for the uplifting of nearby villages. Few photographs of the CSR activities carried out by our Industry are as annexed as an annexure-8
xii	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complying. The industry is carrying out the community welfare measures at our surrounding villages for the overall improvement of the development annexed as Annexure- 8
xiii	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. The Industry has already established Environmental management cell in the site with full-fledged laboratory facilities for monitoring and analysis. Annexure-11
xiv	The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Complying. The industry has earmarked sufficient funds towards capital and recurring costs for implementing all conditions stipulated by the Ministry and State Government. The allocated funds are being utilized exclusively for environmental management and pollution control measures, in full compliance with EC, CFE and CFO conditions. These funds are not diverted for any other purpose.



S. No.	Conditions	Status of Compliance
xv	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilaparisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	Complied.
xvi	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the AP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complying. The Industry has submitted the previous half yearly compliance on parivesh portal and soft copy sent through mail to the MoEFCC Regional office, Vijayawada-AP, and copy of EC compliance reports sent to CPCB, APPCB office.
xvii	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bangalore Regional Offices of MoEF by e-mail.	Complying. The industry has submitted the Environment Statement Form- V. for the FY 2024-25. A copy of the same is attached as an Annexure-9 .
xviii	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. The industry is submitting six-monthly compliance reports on the PARIVESH portal and will continue to do so for the expansion project. The Environmental Clearance and compliance reports are also uploaded on the company website.



S. No.	Conditions	Status of Compliance
xix	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied. The industry has intimated the Regional office, MoEF & CC about the Date of start of the project. Letter of intimation is annexed as Annexure- 10

Caustic Production based on Membrane Cell based Technology



Fig 1. Membrane based Cell House Section



*Fig2. DCS control room for carrying out remote operations for entire CAPS
(Chlor Alkali products)*

Air Pollution Controlling devices at Boiler



Fig 1. ESP connected to 15 TPH Steam boiler



Fig 2. Bag Filters connected to 20 TPH Steam boiler



Fig 3. Bag filter installed at Fly Ash Silo



Fig 4. Bag filter installed at Coal transfer tower.



SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/01

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : Near AAQMS-3 (East Gate)

DATE & TIME OF START : 19-09-2025 @ 10:15 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	Parameter	Unit	Concentration	CPCB Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	70.8	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	27.4	60	IS:5182 (P-24)
3.	Sulphur Dioxide – (SO ₂)	µg/m ³	15.2	80	IS:5182 (P-2)
4.	Nitrogen Oxide – (NO ₂)	µg/m ³	11.9	80	IS:5182(P-6)
5.	Carbon Monoxide – (CO)	mg/m ³	0.34	2.0	IS:5182 (P-10)
6.	Ozone – (O ₃)	µg/m ³	15.1	100	IS :5182 (P-9)
7.	Lead – (Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia – (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene – (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo (a) pyrene – (BaP)	ng/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic – (As)	ng/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel – (Ni)	ng/m ³	< 5.0	20	IS 5182 (P-26)

CHECKED BY



AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Researching for better Environmental Solutions



Ref: SV/GIL/25-09/02

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : Near Admin Building Area

DATE & TIME OF START : 19-09-2025 @ 10:40 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	Parameter	Unit	Concentration	CPCB Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	63.2	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	25.9	60	IS:5182 (P-24)
3.	Sulphur Dioxide – (SO ₂)	µg/m ³	17.2	80	IS:5182 (P-2)
4.	Nitrogen Oxide – (NO ₂)	µg/m ³	11.6	80	IS:5182(P-6)
5.	Carbon Monoxide – (CO)	mg/m ³	0.33	2.0	IS:5182 (P-10)
6.	Ozone – (O ₃)	µg/m ³	8.9	100	IS :5182 (P-9)
7.	Lead – (Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia – (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene – (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo (a) pyrene – (BaP)	ng/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic – (As)	ng/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel – (Ni)	ng/m ³	< 5.0	20	IS 5182 (P-26)

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Ref: SV/GIL/25-09/03

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : Near AAQMS-2 (West Gate)

DATE & TIME OF START : 19-09-2025 @ 11:00 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	Parameter	Unit	Concentration	CPCB Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	52.2	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	13.4	60	IS:5182 (P-24)
3.	Sulphur Dioxide – (SO ₂)	µg/m ³	13.8	80	IS:5182 (P-2)
4.	Nitrogen Oxide – (NO ₂)	µg/m ³	10.3	80	IS:5182(P-6)
5.	Carbon Monoxide – (CO)	mg/m ³	0.37	2.0	IS:5182 (P-10)
6.	Ozone – (O ₃)	µg/m ³	15.5	100	IS :5182 (P-9)
7.	Lead – (Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia – (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene – (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo (a) pyrene – (BaP)	ng/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic – (As)	ng/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel – (Ni)	ng/m ³	< 5.0	20	IS 5182 (P-26)

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Ref: SV/GIL/25-09/04

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : Cell House Building Top

DATE & TIME OF START : 19-09-2025 @ 11:25 hr

DURATION OF SAMPLING : 24 Hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

S.No	Parameter	Unit	Concentration	CPCB Standard	Method
1.	Particulate Matter – (PM ₁₀)	µg/m ³	62.9	100	IS:5182 (P-23)
2.	Particulate Matter – (PM _{2.5})	µg/m ³	21.2	60	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	12.1	80	IS:5182 (P-2)
4.	Nitrogen Oxide – NO ₂	µg/m ³	9.4	80	IS:5182(P-6)
5.	Carbon Monoxide – CO	mg/m ³	0.22	2.0	IS:5182 (P-10)
6.	Ozone – (O ₃)	µg/m ³	10.1	100	IS :5182 (P-9)
7.	Lead – (Pb)	µg/m ³	< 0.01	01	IS:5182 (P-22)
8.	Ammonia – (NH ₃)	µg/m ³	< 20	400	IS:5182 (P-25)
9.	Benzene – (C ₆ H ₆)	µg/m ³	< 0.5	05	IS 5182 (P-11)
10.	Benzo (a) pyrene – (BaP)	ng/m ³	< 0.5	01	IS 5182 (P-12)
11.	Arsenic – (As)	ng/m ³	< 5.0	06	CPCB Guidelines
12.	Nickel – (Ni)	ng/m ³	< 5.0	20	IS 5182 (P-26)

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Ref: SV/GIL/25-09/05

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO
2000 KVA DG SET-1

DATE & TIME OF COLLECTION : 20-09-2025 @ 10:20 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific Gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	34
4.	Stack Temperature	°C	198
5.	Diameter of Stack	m	0.45
6.	Cross Sectional Area of Stack	m ²	0.159
7.	Flue Gas Velocity	m/sec	20.2
8.	Flow Rate	m ³ /hr	11562
9.	Duration of Sampling	minutes	30
10.	Fuel Used	-	HSD

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	67.1	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	50.8	-	IS:11255-P-2
3.	Oxides of Nitrogen – NOx	mg/Nm ³	70.2	-	IS:11255-P-7

Note: As per the above report, all the Paramters are within the standards

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Ref: SV/GIL/25-09/06

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO
2000 KVA DG SET-2

DATE & TIME OF COLLECTION : 20-09-2025 @ 11:10 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific Gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	35
4.	Stack Temperature	°C	190
5.	Diameter of Stack	m	0.45
6.	Cross Sectional Area of Stack	m ²	0.159
7.	Flue Gas Velocity	m/sec	18.7
8.	Flow Rate	m ³ /hr	10704
9.	Duration of Sampling	minutes	30
10.	Fuel Used	-	HSD

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	63.5	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	34.9	-	IS:11255-P-2
3.	Oxides of Nitrogen – NOx	mg/Nm ³	56.1	-	IS:11255-P-7

Note: As per the above report, all the Paramters are within the standards

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Ref: SV/GIL/25-09/07

Date: 29-09-2025

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Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO
2000 KVA DG SET – 3 (VAPS AREA)

DATE & TIME OF COLLECTION : 20-09-2025 @ 12:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific Gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	35
4.	Stack Temperature	°C	181
5.	Diameter of Stack	m	0.45
6.	Cross Sectional Area of Stack	m ²	0.159
7.	Flue Gas Velocity	m/sec	18.5
8.	Flow Rate	m ³ /hr	10589
9.	Duration of Sampling	minutes	30
10.	Fuel Used	-	HSD

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	61.1	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	39.8	-	IS:11255-P-2
3.	Oxides of Nitrogen – NOx	mg/Nm ³	56.4	-	IS:11255-P-7

Note: As per the above report, all the Paramters are within the standards

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Ref: SV/GIL/25-09/08

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO 15 TPH BOILER

DATE & TIME OF COLLECTION : 20-09-2025 @ 14:15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific Gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack Temperature	°C	105
5.	Diameter of Stack	m	1.5
6.	Cross Sectional Area of Stack	m ²	1.766
7.	Flue Gas Velocity	m/sec	5.61
8.	Flow Rate	m ³ /hr	35666
9.	Duration of Sampling	minutes	30
10.	Fuel Used	-	Coal

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	38.9	50	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂ (6% dry O ₂)	mg/Nm ³	46.6	600	IS:11255-P-2
3.	Oxides of Nitrogen – Nox (6% dry O ₂)	mg/Nm ³	32.2	300	IS:11255-P-7

Note: As per the above report, all the Paramters are within the standards

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Ref: SV/GIL/25-09/09

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO HYPO SCRUBBER -1(VAPS)

DATE & TIME OF COLLECTION : 19-09-2025 @ 11:45 hrs

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.25
2.	C/s Area of Stack	m ²	0.049
3.	Stack Height	m	30
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	33
7.	Stack Temperature	°C	41
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	6.59
10.	Gas Quantity	m ³ /hr	1162
11.	Duration of Sampling	minutes	30

EMISSION RATE

S.No	Parameter	Units	Result	Standard
1.	Chlorine (Cl ₂)	mg/Nm ³	3.2	15

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Ref: SV/GIL/25-09/10

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO HYPO SCRUBBER -2(VENT)

DATE & TIME OF COLLECTION : 19-09-2025 @ 12:50 hrs

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.25
2.	C/s Area of Stack	m ²	0.049
3.	Stack Height	m	30
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	35
7.	Stack Temperature	°C	52
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	6.01
10.	Gas Quantity	m ³ /hr	1060
11.	Duration of Sampling	minutes	30

EMISSION RATE

S.No	Parameter	Units	Result	Standard
1.	Chlorine (Cl ₂)	mg/Nm ³	2.5	15

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Ref: SV/GIL/25-09/11

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : Drinking Water @
Near RO Plant Area

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.01	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	64.0	500
6.	Total Alkalinity as CaCO ₃	mg/l	35.9	200
7.	Total Hardness as CaCO ₃	mg/l	22.6	200
8.	Chlorides as Cl ⁻	mg/l	27.1	250
9.	Fluorides as F	mg/l	0.02	1.0
10.	Nitrates as NO ₃	mg/l	1.36	45
11.	Sulphates as SO ₄ ²⁻	mg/l	3.52	200
12.	Iron as Fe	mg/l	0.08	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05

MICROBIOLOGY:

19.	<i>E. coli</i>	CFU/ 100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/ 100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SV/GIL/25-09/12

Date: 29-09-2025

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Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : Drinking Water @
Wash Pledge - 1

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.27	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	88.0	500
6.	Total Alkalinity as CaCO ₃	mg/l	51.6	200
7.	Total Hardness as CaCO ₃	mg/l	30.3	200
8.	Chlorides as Cl ⁻	mg/l	24.1	250
9.	Fluorides as F	mg/l	0.13	1.0
10.	Nitrates as NO ₃	mg/l	7.26	45
11.	Sulphates as SO ₄ ²⁻	mg/l	11.3	200
12.	Iron as Fe	mg/l	0.08	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05
MICROBIOLOGY:				
19.	<i>E. coli</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

CHECKED BY



AUTHORIZED SIGNATORY

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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/13

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : Drinking Water @
Wash Pledge – 4

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.16	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	61.0	500
6.	Total Alkalinity as CaCO ₃	mg/l	43.1	200
7.	Total Hardness as CaCO ₃	mg/l	10.8	200
8.	Chlorides as Cl ⁻	mg/l	13.5	250
9.	Fluorides as F	mg/l	0.03	1.0
10.	Nitrates as NO ₃	mg/l	1.12	45
11.	Sulphates as SO ₄ ²⁻	mg/l	8.62	200
12.	Iron as Fe	mg/l	0.06	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05
MICROBIOLOGY:				
19.	<i>E. coli</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SV/GIL/25-09/14

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : NEAR MAIN GATE AREA

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.53	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	86.0	500
6.	Total Alkalinity as CaCO ₃	mg/l	56.6	200
7.	Total Hardness as CaCO ₃	mg/l	24.1	200
8.	Chlorides as Cl ⁻	mg/l	32.3	250
9.	Fluorides as F	mg/l	0.07	1.0
10.	Nitrates as NO ₃	mg/l	1.76	45
11.	Sulphates as SO ₄ ²⁻	mg/l	4.11	200
12.	Iron as Fe	mg/l	0.09	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05
MICROBIOLOGY:				
19.	<i>E. coli</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SV/GIL/25-09/15

Date: 29-09-2025

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Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : NEAR HCL AREA

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.43	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	102	500
6.	Total Alkalinity as CaCO ₃	mg/l	52.3	200
7.	Total Hardness as CaCO ₃	mg/l	26.9	200
8.	Chlorides as Cl ⁻	mg/l	35.1	250
9.	Fluorides as F ⁻	mg/l	0.05	1.0
10.	Nitrates as NO ₃ ⁻	mg/l	4.11	45
11.	Sulphates as SO ₄ ²⁻	mg/l	14.9	200
12.	Iron as Fe	mg/l	<0.005	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05

MICROBIOLOGY:

19.	<i>E. coli</i>	CFU/ 100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/ 100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SV/GIL/25-09/16

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : DRINKING WATER

SOURCE OF COLLECTION : NEAR CCU OFFICE AREA

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Odour	-	Agreeable	Agreeable
2.	Taste	-	Agreeable	Agreeable
3.	Turbidity	NTU	<0.01	1.0
4.	pH	-	7.18	6.5 – 8.5
5.	Total Dissolved Solids	mg/l	63.0	500
6.	Total Alkalinity as CaCO ₃	mg/l	38.1	200
7.	Total Hardness as CaCO ₃	mg/l	16.5	200
8.	Chlorides as Cl ⁻	mg/l	22.9	250
9.	Fluorides as F	mg/l	0.01	1.0
10.	Nitrates as NO ₃	mg/l	1.22	45
11.	Sulphates as SO ₄ ²⁻	mg/l	6.93	200
12.	Iron as Fe	mg/l	0.05	0.3
13.	Copper as Cu	mg/l	<0.005	0.05
14.	Zinc as Zn	mg/l	<0.005	5.0
15.	Cadmium as Cd	mg/l	<0.001	0.003
16.	Lead as Pb	mg/l	<0.005	0.01
17.	Total Arsenic as As	mg/l	<0.005	0.01
18.	Total Chromium as Cr	mg/l	<0.005	0.05
MICROBIOLOGY:				
19.	<i>E. coli</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml
20.	<i>Fecal Coliforms</i>	CFU/100mL	Not detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SV/GIL/25-09/17

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : BORE WELL -10

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result
1.	pH	-	7.64
2.	Electrical Conductivity	µmhos/cm	531
3.	Total Dissolved Solids	mg/l	322
4.	Total Hardness as CaCO ₃	mg/l	197
5.	Calcium as Ca	mg/l	35.5
6.	Magnesium as Mg	mg/l	26.4
7.	Carbonates as CO ₃	mg/l	Nil
8.	Bi-Carbonates as HCO ₃	mg/l	221
9.	Sodium as Na	mg/l	50.2
10.	Potassium as K	mg/l	1.33
11.	Chlorides as Cl ⁻	mg/l	21.9
12.	Fluorides as F	mg/l	0.46
13.	Nitrates as NO ₃	mg/l	4.62
14.	Sulphates as SO ₄ ²⁻	mg/l	13.5
15.	Silica as SiO ₂	mg/l	10.2

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

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Ref: SV/GIL/25-09/18

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : BORE WELL – 09

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result
1.	pH	-	7.43
2.	Electrical Conductivity	µmhos/cm	533
3.	Total Dissolved Solids	mg/l	318
4.	Total Hardness as CaCO ₃	mg/l	92.0
5.	Calcium as Ca	mg/l	26.5
6.	Magnesium as Mg	mg/l	6.29
7.	Carbonates as CO ₃	mg/l	Nil
8.	Bi-Carbonates as HCO ₃	mg/l	172
9.	Sodium as Na	mg/l	28.9
10.	Potassium as K	mg/l	0.64
11.	Chlorides as Cl ⁻	mg/l	86.6
12.	Fluorides as F	mg/l	0.08
13.	Nitrates as NO ₃	mg/l	11.4
14.	Sulphates as SO ₄ ²⁻	mg/l	18.6
15.	Silica as SiO ₂	mg/l	20.3

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

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Ref: SV/GIL/25-09/19

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : PIEZO WELL

SOURCE OF COLLECTION : PIEZO WELL NEAR SWITCH YARD

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result
1.	pH	-	6.27
2.	Electrical Conductivity	µmhos/cm	512
3.	Total Dissolved Solids	mg/l	329
4.	Total Hardness as CaCO ₃	mg/l	182
5.	Calcium as Ca	mg/l	37.8
6.	Magnesium as Mg	mg/l	21.2
7.	Carbonates as CO ₃	mg/l	Nil
8.	Bi-Carbonates as HCO ₃	mg/l	122
9.	Sodium as Na	mg/l	56.4
10.	Potassium as K	mg/l	0.67
11.	Chlorides as Cl ⁻	mg/l	114
12.	Fluorides as F	mg/l	0.09
13.	Nitrates as NO ₃	mg/l	9.42
14.	Sulphates as SO ₄ ²⁻	mg/l	2.18

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

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Ref: SV/GIL/25-09/20

Date: 29-09-2025

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(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : PIEZO WELL

SOURCE OF COLLECTION : PIEZO WELL NEAR ALCP (Inside Palnt)

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No	Parameter	Unit	Result
1.	pH	-	6.38
2.	Electrical Conductivity	µmhos/cm	1288
3.	Total Dissolved Solids	mg/l	760
4.	Total Hardness as CaCO ₃	mg/l	263
5.	Calcium as Ca	mg/l	71.4
6.	Magnesium as Mg	mg/l	20.6
7.	Carbonates as CO ₃	mg/l	Nil
8.	Bi-Carbonates as HCO ₃	mg/l	322
9.	Sodium as Na	mg/l	161
10.	Potassium as K	mg/l	1.42
11.	Chlorides as Cl ⁻	mg/l	255
12.	Fluorides as F	mg/l	0.07
13.	Nitrates as NO ₃	mg/l	12.1
14.	Sulphates as SO ₄ ²⁻	mg/l	34.6

Note: All the above parameters are tested as per APHA methods, 24th Edition, 2023

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Ref: SV/GIL/25-09/21

Date: 29-09-2025

NAME AND ADDRESS

M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS

: NOISE LEVELS

DATE OF SAMPLE MEASURED

: 19-09-2025

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near AAQMS -3 (North East)	66.1	57.5	IS:4954 – 1968 Noise Level
2.	Near AAQMS -2 (North West)	67.5	58.7	
3.	Near Command Control Center Building	68.3	61.4	
4.	Near Cell House Building	64.6	56.2	
CPCB STANDARDS		75.0	70.0	

Note: Day time shall mean from 6.00 am to 10.00 pm
Night time shall mean from 10.00 pm to 6.00 am

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Ref: SV/GIL/25-09/22

Date: 29-09-2025

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Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF SAMPLE MEASURED : 19-09-2025

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Inside Enclosure	Outside Enclosure	
1.	2000 KVA DG Set -1	105	72.2	IS:4954 – 1968 Noise Level
2.	2000 KAV DG Set -2	100	71.4	
3.	2000 KVA DG Set -3	102	72.9	

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Ref: SV/GIL/25-09/23

Date: 29-09-2025

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Andhra Pradesh – 533343.

SAMPLE PARTICULARS : EFFLUENT WATER

SOURCE OF COLLECTION : 1. ETP INLET
2. ETP OUTLET

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No.	PARAMETER	UNIT	RESULT		METHOD FOLLOWED	PCB STANDARD (Outlet)
			ETP Inlet	ETP Outlet		
1.	pH	--	7.69	7.11	APHA 4500-H+B, 24 th Edition, 2023	5.5 – 9.0
2.	Total Dissolved Solids – TDS	mg/l	2416	626	APHA 2540-C, 24 th Edition, 2023	-
3.	Total Suspended Solids – TSS	mg/l	83.0	<1.0	APHA 2540-D, 24 th Edition, 2023	200
4.	Chemical Oxygen Demand – COD	mg/l	59.7	<10.0	APHA 5220 B, 24 th Edition, 2023	250
5.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	18.0	<3.0	IS 3025 P 44	100
6.	Oil & Grease	mg/l	3.0	<1.0	APHA 5520 D, 24 th Edition, 2023	10
7.	Chlorides as Cl ⁻	mg/l	761	135	APHA 4500 Cl, B 24 th Edition, 2023	-

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Ref: SV/GIL/25-09/24

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : SEWAGE WATER

SOURCE OF COLLECTION : 1. STP INLET
2. STP OUTLET

DATE OF COLLECTION : 20-09-2025

DATE OF RECEIPT : 21-09-2025

TEST REPORT

S.No.	PARAMETER	UNIT	RESULT		METHOD FOLLOWED	PCB STANDARD (Outlet)
			STP Inlet	STP Outlet		
1.	pH	--	7.35	7.15	APHA 4500-H+B, 24 th Edition, 2023	5.5 – 9.0
2.	Total Dissolved Solids – TDS	mg/l	1611	762	APHA 2540-C, 24 th Edition, 2023	-
3.	Total Suspended Solids – TSS	mg/l	27.0	1.0	APHA 2540-D, 24 th Edition, 2023	100
4.	Chemical Oxygen Demand – COD	mg/l	39.8	<10.0	APHA 5220 B, 24 th Edition, 2023	250
5.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	10.0	<3.0	IS 3025 P 44	30
6.	Oil & Grease	mg/l	4.0	<1.0	APHA 5520 D, 24 th Edition, 2023	10
7.	Fecal Coliforms	MPN/100ml	09X10 ³	210	IS 1622	< 1000


CHECKED BY




AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

Website: www.svenvirolabs.com

E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts

0891-2755528, +91 7207664444

PAN: ABQCS0643F

CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/25

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO HCL
FURNACE VENT – A

DATE & TIME OF COLLECTION : 19-09-2025 @ 12:00 hrs

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.25
2.	C/s Area of Stack	m ²	0.049
3.	Stack Height	m	30
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	36
7.	Stack Temperature	°C	74
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	6.11
10.	Gas Quantity	m ³ /hr	1078
11.	Duration of Sampling	minutes	30

EMISSION RATE

S.No	Parameter	Units	Result	Standard
1.	HCl Mist	mg/Nm ³	4.51	35

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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/26

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO HCL
FURNACE VENT – B

DATE & TIME OF COLLECTION : 19-09-2025 @ 14:00 hrs

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.25
2.	C/s Area of Stack	m ²	0.049
3.	Stack Height	m	30
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	34
7.	Stack Temperature	°C	47
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	5.49
10.	Gas Quantity	m ³ /hr	986
11.	Duration of Sampling	minutes	30

EMISSION RATE

S.No	Parameter	Units	Result	Standard
1.	HCl mist	mg/Nm ³	2.5	35

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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/27

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : STACK ATTACHED TO HCL
FURNACE VENT – C

DATE & TIME OF COLLECTION : 19-09-2025 @ 15:30 hrs

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Diameter of the Stack	m	0.30
2.	C/s Area of Stack	m ²	0.070
3.	Stack Height	m	30
4.	Pitot Coefficient	-	0.87
5.	Specific Gravity of Fluid	-	1.0
6.	Temperature @ DGM	°C	32
7.	Stack Temperature	°C	52
8.	Nozzle Diameter	mm	09
9.	Exit Velocity	m/sec	5.34
10.	Gas Quantity	m ³ /hr	1346
11.	Duration of Sampling	minutes	30

EMISSION RATE

S.No	Parameter	Units	Result	Standard
1.	HCl mist	mg/Nm ³	2.83	35


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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/28

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : NEAR SBP AREA

DATE & TIME OF START : 19-09-2025 @ 15:30 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Total Suspended Particulate Matter	$\mu\text{g}/\text{m}^3$	449	10000	IS:5182 (P-4) Gravimetric

CHECKED BY 



AUTHORIZED SIGNATORY 





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/29

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : NEAR BOILER AREA

DATE & TIME OF START : 19-09-2025 @ 16:10 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Total Suspended Particulate Matter	$\mu\text{g}/\text{m}^3$	334	10000	IS:5182 (P-4) Gravimetric

CHECKED BY 



AUTHORIZED SIGNATORY 



Safety Critical Equipment's at Our Plant



Fig.1 Breathing line



Fig. 2 Chlorine Sensors



Fig. 3 SCBA

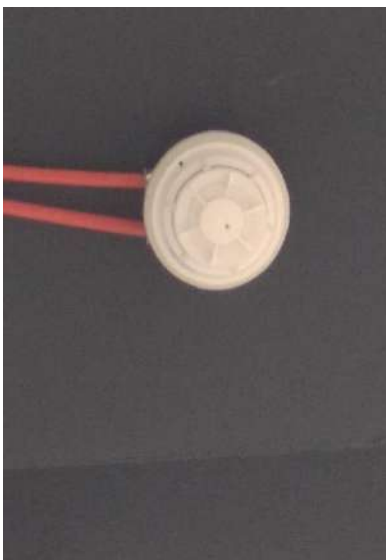


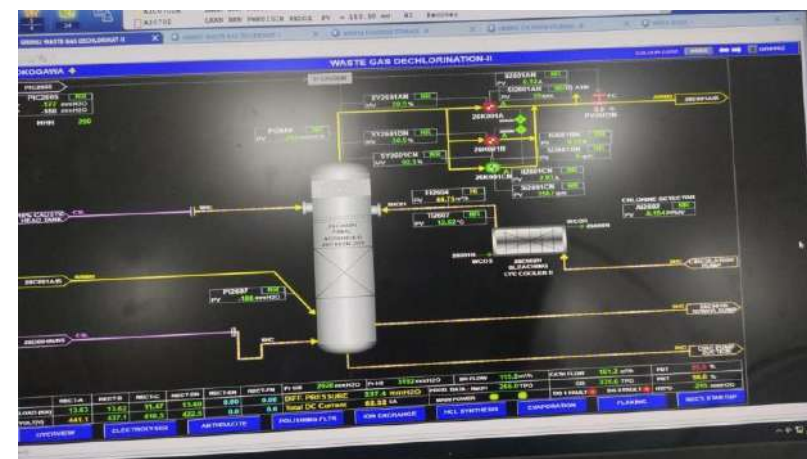
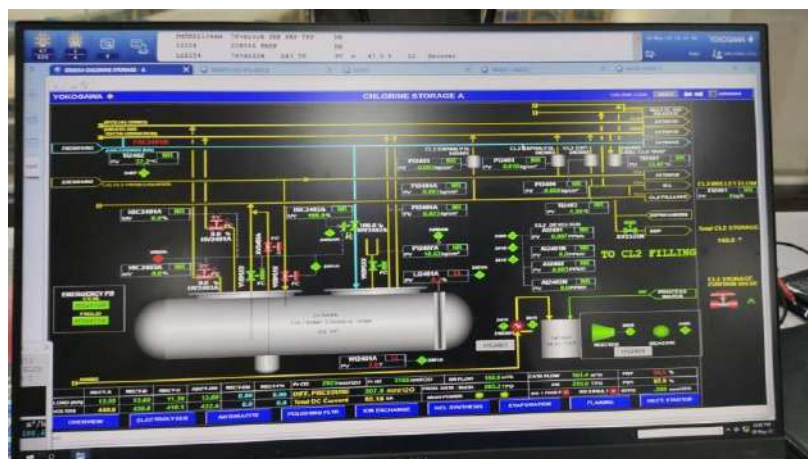
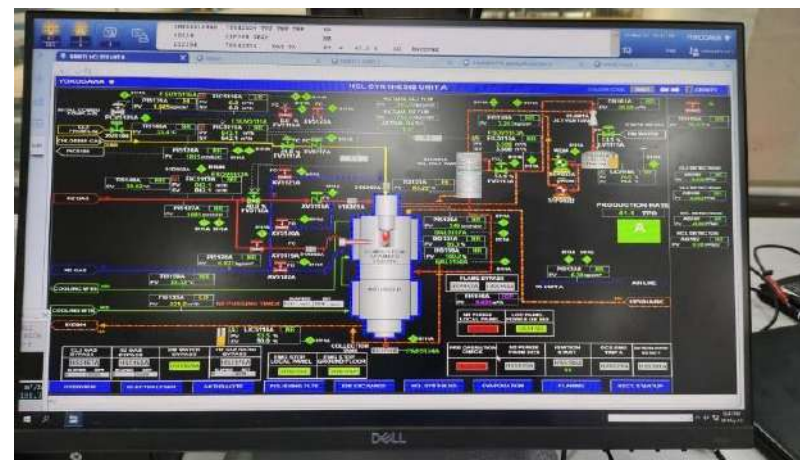
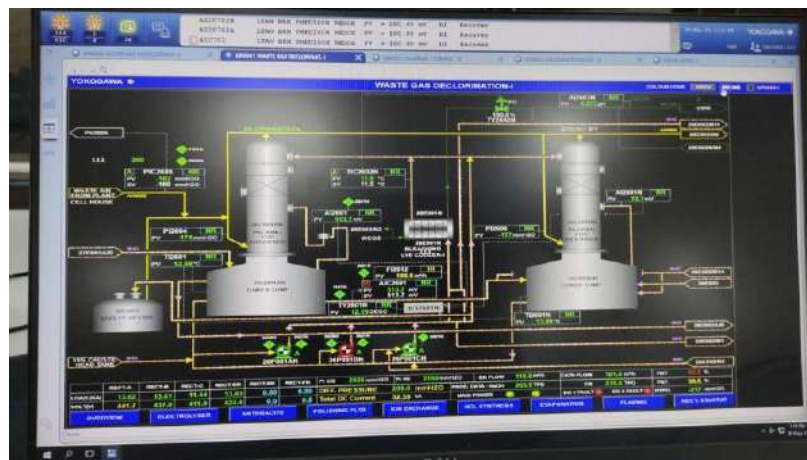
Fig.4 Smoke detectors



Fig.4 PA systems



Photographs of Online Chlorine analyzer connected to DCS control room





Report on World Environment Day-2025 Celebration's Theme: "Ending Plastic Pollution"

Grasim Industries Limited
(Chemical Division)
BB Puram, AP





Grasim Industry (Chemical Division) BB Puram Unit Celebrated World Environment Day-2025 by Conducted various Environmental Awareness programmes like..

1. Tree Plantation inside greenbelt and surrounding villages target 4000 saplings.
2. Tree Plantation conducted at BB Puram Village.
3. Environmental Quiz conducted for Employees.
4. Poster competition for employees, employee families and contract workers.
5. Upcycling project competition to encourage & nurturer re-cycling mindset.
6. Prize Distribution for Competition winners

Tree planation & other celebration photos are enclosed for your reference.



Plantation at Plant Site By Employees and contract workers



❖ Tree plantation was conducted with 300 native plants with in the plant greenbelt, and another 1700 plants will be planted within the month of June.



Plantation at BB Puram Village By Employees and Grama Panchayath Employees



❖ Tree plantation was conducted with 300 native plants at BB Puram Village, and another 1,700 plants will be planted within the month of June.

Awareness Training for employees & workers on plastic waste



Green Marathon with employees & workers



An engaging awareness drive on plastic pollution was conducted for young kids, housewives, and senior citizens in the community, educating them about its harmful effects and promoting eco-friendly habits. Through interactive activities and valuable inputs from senior citizens, participants learned the importance of reducing plastic use and protecting the environment.





Posters by Employees, contract workers and employee families



Speech on World Environment Day By UNIT HEAD



Award Distribution for Competition Winners By Senior Management



Thank Q



GRASIM INDUSTRIES LIMITED

Chemical Division, BB Puram

Ozone Day Celebrations

16.09.2025



Theme

From Science to Global Action

WORLD OZONE DAY CELEBRATIONS AT GRASIM INDUSTRIES - BB PURAM



WORLD OZONE DAY CELEBRATIONS AT ZPPH SCHOOL-SINGAMPALLI





Plant Distribution to the Students



WORLD OZONE DAY CELEBRATIONS AT ZPPH SCHOOL- G.DONTAMURU





Plant Distribution to the Students





GRASIM INDUSTRIES LIMITED
Chemical Division, BB Puram
Ozone Day Celebrations
16.09.2025



WORLD OZONE DAY 2025 THEME
FROM SCIENCE TO GLOBAL ACTION



ENVIRONMENT POLICY

Grasim Industries Limited ("Grasim" or "the Company") is in the business of production of Pulp & Fibre, Textiles, Chemicals, Paints, Insulators and B2B E-Commerce, among others. Grasim is a value driven organisation with Integrity, Commitment, Passion, Seamlessness, and Speed. Our Group Purpose is to "Enrich lives, by building dynamic and responsible businesses and institutions, that inspire trust. Our Group Purpose and values form the foundation for all actions and decisions within our business. Grasim acknowledges the significance of effective environmental management as a cornerstone of its business. The Company is committed to integrating sound business practices across its management and governance systems to minimise environmental impact and achieve a leadership position in environmental stewardship.

We have established a robust management framework to oversee both our involvement in climate advocacy and our engagements as members of trade associations. Notably, we have forged significant partnerships with esteemed associations that advocate critical goals such as decarbonization and the achievement of Net Zero emissions, both of which closely align with our targets.

Applicability: This Policy shall apply to all businesses of Grasim and shall be adopted by all sites and offices owned, controlled, and managed by Grasim.

Oversight: All the Business Heads are responsible for implementing the policy at their respective sites

Grasim is committed to sustainable development, reflecting its dedication to environmental preservation and responsible business practices, we continue to

- Adopt higher standards, foster innovation, and uphold values beyond what is mandated beyond mere compliance with relevant regulatory and legal requirements.
- Align with the widely known UN Sustainable Development Goals (SDG).
- Develop, implement, and maintain an internationally accepted environmental management system in our operations and new projects.
- Prioritise initiatives aimed at continual improvement and environmental protection, including pollution reduction and prevention, biodiversity enhancement and conservation, and the efficient use of natural resources and energy in alignment with international standards and best practices to ensure our operations are environmentally responsible and sustainable.
- Follow waste management hierarchy – Reduce, Reuse, Recycle, Energy recovery. Treatment & Disposal of waste and Implement strategies to promote circular economy and to conserve natural resources such as water, energy, and raw material throughout our operations by reducing

consumption. This is effective in promoting waste reduction and recycling measures to minimise environmental impact.

- Improve the environmental performance of products by implementing strategies and technology solutions to conserve natural resources, encouraging research and development to identify innovative ways to avoid, minimise, and mitigate adverse environmental impacts, and focusing on developing sustainable new products and production methods with reduced lower carbon and environmental impacts.
- Recognise and act on the urgent need to address climate change and with the objective of reducing environmental impact. This involves taking proactive steps to decrease our greenhouse gas and non-greenhouse gas air emissions by setting targets for emission reduction and other environmental focus areas. Additionally, to invest in measures to improve environmental conditions, such as investing in renewable energy sources, and promoting operational eco-efficiency, including energy efficiency, throughout our operations.
- Acknowledge the importance of preserving biodiversity and ecosystems and work to minimise our impact on habitats and species through responsible land use practices, habitat restoration efforts, and biodiversity conservation initiatives.
- Align our supply chain across businesses to adopt Grasim's environmental policy and practices, promote responsible sourcing, reduce the environmental impact of transportation, and foster transparency and accountability in supplier relationships.
- Enhance environmental awareness of environmental management policy and environmental impacts through participation and consultation with internal and external stakeholders by training and maintaining effective channels of communication.
- Monitor, measure, and report the progress on the performance of environmental conservation and management initiatives, including environmental risks and issues, in compliance with internationally recognised protocols and communicate approach and achievements to relevant stakeholders.
- Undertake internal and third-party audits at regular intervals to assess environmental performance and conduct due diligence during mergers and acquisitions.
- Raise environmental awareness at all levels of our operations, through training and effective communication, participation and consultation.
- Communicate this Policy within the Organisation. Develop and follow an appropriate communication framework to engage with all relevant stakeholders to ensure compliance.

This policy will be reviewed periodically for its suitability and updated as necessary.



Hari Krishna Agarwal
Managing Director, Grasim Industries Limited
22nd May 2024



Community cultural center



Skill development center



Contribution towards flood affected areas





GIL/ENV/APPCB/RO/ES/691

Date: 11/09/2025

o/c

To
Environmental Engineer,
Regional Office,
A.P. Pollution Control Board,
H.No.2-532, Santhi Nagar,
Near DIC Office, Ramanayyapeta,
Kakinada – 533 005.

Subject: Submission of Environmental Statement (Form V) for the FY 2024-25-Reg.

Dear Sir,

We are submitting herewith attached Form-V, Environmental Statement for the Period of **April 2024 to March 2025.**

This is for your kind record Please.

Thanking you,

Yours Faithfully

For **Grasim Industries Ltd.,**
(Chemical Division, BB Puram)

Contact Details:
Mobile Nos: 9977448340 (alt) 8008303882

Email : shridhara.sastry@adityabirla.com
Alt : grcd-bbp.environment@adityabirla.com

Sridhara Narasimha Sastry
President & Unit Head



Grasim Industries Limited

Chemical Division - BB Puram,
Survey No : 1 to 4, Near Kanedu Metta Road, Balabhadrapuram
Bikkavolu (M), East Godavari Dist - 533 343, Andhra Pradesh, INDIA

Website : www.grasim.com
CIN L17124MP1947PLC000410



ADITYA BIRLA GROUP

ENVIRONMENTAL STATEMENT
(FORM-V)

FINANCIAL YEAR 2024-25



GRASIM INDUSTRIES LIMITED

Chemical division- BB Puram,
Survey no: 1 to 4, Near Kanedu Metta road, Balabhadrapuram,
Biccavolu (M), East Godavari Dist -533 343, Andhra Pradesh, India



ENVIRONMENTAL STATEMENT
(FORM-V)

FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

- i. Name and address of the owner/ occupier of the industry operation or process.

S.N Sastry,
Unit Head, Grasim Industries Ltd.,
Chemical division- BB Puram,
Survey no: 1 to 4, Near Kanedu Metta road, Balabhadrapuram,
Biccavolu (M), East Godavari Dist -533 343, Andhra Pradesh, India

- ii. Production category – Units (FY 24-25):

S.No.	Product	UOM	Quantity
1.	Caustic Soda Lye	MT	77,058
2.	Caustic Soda flakes	MT	18,428
3.	Liquid Chlorine	MT	43,046
4.	Hydrogen	NM ³	20,85,352
5.	Sodium Hypochlorite	MT	6,524
6.	Hydrochloric Acid	MT	84,156
7.	Stable bleaching powder	MT	16,488
8.	Chlorinated Paraffin wax	MT	8,864
9.	Mono Chloro Acetic Acid	MT	0

- iii. Year of establishment: **27th December 2021**

- iv. Date of the last environmental statement submitted.: **27th September 2024.**

PART: B

Water and Raw Material Consumption:

1. Water consumption m³/day

Process : 1210
Cooling : 479
Domestic : 22



Sl. No.	Name of Products	Process water consumption per unit of products	
		During the previous financial year (FY 23-24)	During the current financial year (FY24-25)
1	Caustic Soda	6.32	5.40
2	Caustic Soda Flakes		
3	Liquid Chlorine		
4	Hydrogen		
5	Sodium Hypochlorite		
6	Hydrochloric Acid		
7	Stable Bleaching Powder	0.6	0.6
8	Chlorinated Paraffin Wax	2.2	2.1
9	Mono Chloro acetic Acid	Nil	Nil

ii. Raw material consumption

Sl. No.	Name of raw materials*	Name of Products	Consumption of raw material per unit of output (Main product)	
			During the previous financial year (23-24)	During the current financial year (24-25)
1	NaCl Salt	Caustic Soda (Main Product), Caustic soda Flakes, Other by products include HCL, Cl, Hydrogen, Sodium Hypochlorite	1.57 MT/MT	1.56 MT/MT
2	Sodium Carbonate		2.09 Kg/MT	2.43 Kg/MT
3	Barium Carbonate		4.88 Kg/MT	5.64 Kg/MT
4	Caustic Soda		28.58 Kg/MT	39.56 Kg/MT
5	Hydrochloric acid		14.55 Kg/MT	16.29 Kg/MT
6	Sulphuric Acid		12.41 Kg/MT	7.17 Kg/MT
7	Sodium sulphite		0.38 Kg/MT	0.21 Kg/MT
8	Hydrated Lime	Stable bleaching powder	0.75 MT/MT	0.75 MT/MT
9	Liquid Chlorine		0.42 MT/MT	0.40 MT/MT
10	Caustic soda Lye		21.10 Kg/MT	15.64 Kg/MT
11	N- Paraffin's	Chlorinated Paraffin wax	0.38 MT/MT	0.35 MT/MT
12	Caustic soda		3.0 Kg/MT	2.0 Kg/MT
13	Chlorine gas		1.15 MT/MT	1.22 MT/MT
15	Acetic anhydride	Mono Chloro Acetic Acid	Nil	Nil
16	Caustic Soda		Nil	Nil
17	Chlorine gas		Nil	Nil

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.



PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants discharged (mass/day) (Kg/Day)	Concentration of Pollutants discharged (mass/volume) (mg/Nm ³)	Percentage of variation from prescribed standards with reasons.
(a) Water	Ours Effluent treatment plant Capacity 1350 m ³ /day It has the following units. Effluent collection tank, Equalization tank, High rate solid contact clarifier, Multi grade filter, Ultra filtration, and then RO-3, RO-4, RO-5, MEE, and Agitated Thin film dryer (ATFD). No effluent is discharged outside (ZLD), ATFD salts generated are disposed through APEMCL portal.			
(b) Air	PM (Steam Boiler -15 TPH)	18.81	27.86	Within Prescribed limits.
	PM (Steam Boiler -20 TPH)	23.60	42.82	
	HCl (Furnace-1)	0.10	0.06	
	HCl (Furnace-2)	0.14	0.07	
	Cl ₂ (Hypo- CAPS)	0.10	0.06	
	Cl ₂ (Hypo- VAPS)	0.09	0.06	

We operated the 15 TPH boiler for 6 months (April-24 to Sept-24) & 20 TPH boiler for another 6 months (Oct-24 to March-25) in this FY 2024-25.

Part-D

(as specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Dispatch Quantity	
	During the previous financial year FY 23-24	During the current financial year FY 24-25
1. From Process	Brine Sludge: 1841.17 MT	Brine Sludge: 1760.82 MT
	ATFD Sludge: 496.34 MT	ATFD Sludge: 762.6 MT
	SBP Sludge: 81.26 MT	SBP Sludge: 90.38 MT
	ETP Sludge: 520.53 MT	ETP Sludge: 705.74 MT
	Spent Oil: Nil	Spent Oil: Nil
2. From Pollution Control Facilities	Nil.	Nil.

PART-E

Solid Wastes

Solid Wastes	Total Quantity (Tonnes)	
	During the previous financial year FY 23-24	During the current financial year FY 24-25
A. From Process	Nil.	Nil.
B. From Pollution Control Facility	7326.61	4502*
C. Quantity recycled or reutilized within the unit.	Nil.	Nil.

*Fly ash generation is less due to usage of imported coal.



Part- F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1. Brine Sludge generated from the Clarifier during brine purification.
2. We are disposing Hazardous Sludge to APPCB Authorized Hazardous Waste TSDF Site through APEMCL Portal and the generation records maintaining in Form 3. We are also submitting the hazardous waste annual returns Form-4.
3. All necessary documents are provided during disposal of any hazardous waste like HW manifest, TREM card etc. as required during transportation and disposal.
4. Sludge is stored in RCC platform which is having double liner before sending it to authorized Hazardous waste handler.
5. Fly ash generated from the Steam Boiler Pollution Control Facilities of 15 TPH & 20 TPH is being sent to a nearby brick manufacturing facility to utilize the fly ash.
6. Under extended producer responsibility, we as a brand owner will collect all the plastics which will be sent as a packing material with the product.
7. The plastic which is generated during the purchase of raw materials is also being disposed through APPCB authorized recyclers only.
8. We are making bio compost using bio composting machine which is procured to convert organic waste / Food Waste generated from Canteen to Compost, which will be utilizing as a manure in developing the green belt.
9. Sludge which is generated in Sewage treatment plant is utilized as a manure.

Part- G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

We have utilized the below pollution control measures for the protection of environment.

1. ESP & Bag filters have been installed which is 99.99% efficient to reduce the SPM.
2. Closed conveyor belt and Closed shed has been constructed for the storage of Coal.
3. We have the state of the art ETP with MEE and ATFD for recycling of effluent water. The salts generated from the ATFD is sent to APPCB authorized Hazardous Waste TSDF.
4. At SBP also we have installed Bag filters for reducing the fugitive dust emissions.
5. The filtered water generated from the RVDF will be recycled back into the process.
6. Recovery of vapour condensate in Primary Brine section (CCU vapour condensate), During full load operation excess condensate was being discarded as wastewater which is now diverted to cooling tower make up. This is done by bifurcating the line of vapour condensate & steam condensate into separate tanks and then the condensate is transferred to user departments through pipelines.
7. We are best in the water consumption in this industry, resulting in cost savings.
8. We also have used 100% LED lights in the whole plant resulting in 35% savings in lighting load.
9. We have initiated the reutilization of brine sludge for making brine sludge bricks for use in the construction field.



Part-H

Additional measures/ investment proposal for environmental protection including abatement of pollution.

We have considered the below proposals for Environment protection for the abatement of Pollution.

1. Within the Green belt are 3 Ponds has been developed for harvesting the rain water.
2. The reservoir facility has been augmented with a geotextile membrane to store 1,00,000 m³ of rainwater, thereby facilitating the reuse of the stored/recovered water.
3. Greenbelt was developed 12 Acres in addition to the present 70 Acres.
4. Present sheds will be augmented to meet the requirement of the future need on need basis.
5. Third party monitoring is being carried out for all environmental concerns such as Air, Water and Noise.
6. Drain cleaning and repairing of Storm water channel.
7. Strengthening of Environmental management systems.

Part- I

Miscellaneous:

Any other particulars in respect of environmental protection and abatement of pollution Other particulars for improving the Quality of the Environment

Grasim Industries Ltd. recognizes that effective environment management is fundamental to our business. We shall strive to integrate sound business practices across Grasim's management and governance systems to minimize environmental impacts and attain a leadership position in environmental stewardship.

- We regularly develop awareness on Environment by organizing different training programs for our employees, including new joiners, Stakeholders & Surrounding communities.
- We Celebrate World Environment day on 5th June in which tree plantation drive is organized in our plant and nearby area to boost green cover.
- We Optimize consumption of raw materials on continuous basis by efficient monitoring and control through DCS which avoids the human mistakes and rejection of intermediate products at different stages.
- Greenbelt is developed around the plant and nearby area, continuous improvement in greenbelt development by planting more and more trees to reduce the dust emission is being done within our land area.
- Water consumption is being reduced by improving operational discipline and recycling of water.
- Online monitoring system is installed for all plant process stacks and online digital data is displayed near main gate.



- Scheduled monitoring of Environment (Air, Water, Effluent and Emission) is carried out by third party Which is a NABL accredited laboratory.
- Online sensors for Chlorine and Hydrogen are installed at each and every section for early detection to take action immediately.
- We have a dedicated storm water channel connected to Reservoir to reutilize the rain water, which is separate from the effluent collection.
- We have at present 8 Effluent collection pits to collect effluent which are pumped by using air operated diaphragm pump to ETP for its treatment and reutilization in the process.
- A solar dry bed system has been installed to facilitate moisture removal from the sludge, which helps in reducing its overall weight.





GIL/BBP/UH/ENV/158
24th December 2021

The Regional Director,
Ministry of Environment Forest and Climate change,
Regional office (South Eastern Zone),
1st and 2nd Floor, HEPC Building No. 34,
Cathedral garden road,
Nungambakkam, Chennai-600 034

Dear Sir,

Sub: Commencement of Operations- Grasim Industries Ltd.,

- (Ref: 1. Environmental Clearance vide F. No. J-11011/90/2011- IA II (I), Dated 22nd March, 2013
2. Transfer of Environmental Clearance vide F. No. J-11011/90/2011-IA II (I), Dated 21st November, 2019.
3. Extension of validity of EC till 22nd March 2023, vide F. No. J-11011/90/2011-IA II (I) Dated 18th August 2020.)

We would like to place on record that we Grasim Industries Limited, Balabhadrapuram (V), Biccavolu (M), East Godavari District, Chlor Alkali plant has commenced operations w.e.f 24th December 2021.

We confirm that all the safety precautions are in place for the smooth and safe operations of the plant.

Thanking you,

Yours Faithfully

For Grasim Industries Ltd.,
(Chemical Division, BB Puram)

R. G Krishnan
Jt. President & Unit Head

Contact Details:

Mobile Nos: 8884946985 (alt) 8008303882
Email : rg.krishnan@adityabirla.com
Alt : muralikrishna.mvk@adityabirla.com

Grasim Industries Limited
Chemical Division - BB Puram,
Survey No : 1 to 4, Near Kanadu Melta Road, Balabhadrapuram
Bikkavolu (M), East Godavari Dist - 533 343, Andhra Pradesh, INDIA

Website : www.grasimchem.com
CIN L17124MP1947PLC000410

Regd. Office : Birlamgram (P.O), Nagda, M.P. - 456 331, INDIA



Ambient Air Quality Monitoring



Ground Water Monitoring



Portable Flue Gas Analyser





Training given on Environmental Compliances to employees





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/21

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF SAMPLE MEASURED : 19-09-2025

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near AAQMS -3 (North East)	66.1	57.5	IS:4954 – 1968 Noise Level
2.	Near AAQMS -2 (North West)	67.5	58.7	
3.	Near Command Control Center Building	68.3	61.4	
4.	Near Cell House Building	64.6	56.2	
CPCB STANDARDS		75.0	70.0	

Note: Day time shall mean from 6.00 am to 10.00 pm
Night time shall mean from 10.00 pm to 6.00 am

AUTHORIZED SIGNATORY





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SV/GIL/25-09/22

Date: 29-09-2025

NAME AND ADDRESS : M/s. GRASIM INDUSTRIES LTD.,
(Chemical Division, BB Puram)
Survey No 1 to 4, Near Kanedu Metta Road,
Balabhadrapuram, East Godavari,
Andhra Pradesh – 533343.

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF SAMPLE MEASURED : 19-09-2025

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Inside Enclosure	Outside Enclosure	
1.	2000 KVA DG Set -1	105	72.2	IS:4954 – 1968 Noise Level
2.	2000 KAV DG Set -2	100	71.4	
3.	2000 KVA DG Set -3	102	72.9	

AUTHORIZED SIGNATORY



Effluent Water Test Results for the period of April-2025 to September-2025

S.No	Parameter	Unit	PCB Standard	Apr-25		May-25		Jun-25		Jul-25	
				ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet
1	pH	--	5.5 – 9.0	7.49	7.68	9.81	6.82	8.73	7.23	8.46	7.03
2	Total Dissolved Solids – TDS	mg/l	-	2140	535	3864	336	3522	426	3162	575
3	Total Suspended Solids – TSS	mg/l	200	45	8	240	<1	190	<1	130	<1
4	Chemical Oxygen Demand – COD	mg/l	250	91	<10	60	<10	50	<10	69.9	<10
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27oC)	mg/l	100	42	<3	21	<3	11	<3	18	<3
6	Oil & Grease	mg/l	10	5	<1	3	<1	5	<1	7	<1
7	Chlorides as Cl-	mg/l	-	763	182	1264	125	1131	116	1034	155

S.No	Parameter	Unit	PCB Standard	Aug-25		Sep-25		Oct-25	
				ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet	ETP Inlet	ETP Outlet
1	pH	--	5.5 – 9.0	8.22	7.36	7.69	7.11	7.43	7.02
2	Total Dissolved Solids – TDS	mg/l	-	2861	711	2416	626	2163	611
3	Total Suspended Solids – TSS	mg/l	200	98	<1	83	<1	72	<1
4	Chemical Oxygen Demand – COD	mg/l	250	80	<10	59.7	<10	50	<10
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27oC)	mg/l	100	22	<3	18	<3	14	<3
6	Oil & Grease	mg/l	10	5	<1	3	<1	4	<1

7	Chlorides as Cl-	mg/l	-	942	192	761	135	672	156
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Sewage Water Test Results for the period of April-2025 to September-2025

				Apr-25		May-25		Jun-25		Jul-25	
S.No	Parameter	Unit	PCB Standard	STP Inlet	STP Outlet	STP Inlet	STP Outlet	STP Inlet	STP Outlet	STP Inlet	STP Outlet
1	pH	--	5.5 – 9.0	7.48	7.22		7.01		7.34	7.49	7.12
2	Total Dissolved Solids – TDS	mg/l	-	2206	553		698		577	1935	733
3	Total Suspended Solids – TSS	mg/l	100	51	11		3		2	28	1
4	Chemical Oxygen Demand – COD	mg/l	250	160	42		<10		<10	79.8	<10
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 270C)	mg/l	30	71	9		<3		<3	34	<3
6	Oil & Grease	mg/l	10	2	<1		<1		<1	4	<1
7	Fecal Coliforms	MPN/100 ml		10*10 ³	170		280		170	14*10 ³	240

				Aug-25		Sep-25		Oct-25	
S.No	Parameter	Unit	PCB Standard	STP Inlet	STP Outlet	STP Inlet	STP Outlet	STP Inlet	STP Outlet
1	pH	--	5.5 – 9.0	7.68	7.41	7.35	7.15	7.69	7.52
2	Total Dissolved Solids – TDS	mg/l	-	1786	824	1611	762	1425	711

3	Total Suspended Solids – TSS	mg/l	100	33	2	27	1	21	2
4	Chemical Oxygen Demand – COD	mg/l	250	60	<10	39.8	<10	50	<10
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 270C)	mg/l	30	18	<3	10	<3	13	<3
6	Oil & Grease	mg/l	10	6	<1	4	<1	3	<1
7	Fecal Coliforms	MPN/100 ml		11*10 ³	140	9*10 ³	210	12*10 ³	170

Ambient Air Quality Monitoring results at 4 locations for the Period of April-2025 to September-2025

	S.No	1	2	3	4	5	6	7	8	9	10	11	12
	Parameter	Particulate Matter (size less than 10 µm) or PM10	Particulate Matter (size less than 2.5 microns) or PM2.5	Sulphur Dioxide (SO2)	Nitrogen Dioxide (NO2)	Carbon Monoxide (CO)	Ozone (O3)	Lead (Pb)	Ammonia (NH3)	Benzene (C6H6)	Benzo (a) Pyrene (BaP) – particulate phase only	Arsenic (As)	Nickel (Ni)
	Unit	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	µg/m3	ng/m3	ng/m3	ng/m3
	Standard	100	60	80	80	2	100	1	400	5	1	6	20
Apr-25	NNE area	74.7	31.6	13.2	10.09	0.26	11.2	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	69.8	30.3	14.1	11.8	0.26	10.8	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	67.7	28.9	15.5	12.6	0.32	11.2	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	66.1	25.9	13.2	9.2	0.2	9.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
May-25	NNE area	70.2	29.7	14.5	11.8	0.3	12.3	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	65.3	28.1	13	10.6	0.23	9.9	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	63.2	25.8	14.3	11	0.27	10.4	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	62.4	23.8	12	10.3	0.25	8.8	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
Jun-25	NNE area	75.1	33.9	15.5	13.1	0.26	11.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	63.5	24.1	11.2	8.6	0.2	9.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	67.7	28.1	16.2	12.2	0.36	9.7	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	58.1	19.8	10.9	8.2	0.2	8.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
Jul-25	NNE area	70.3	27.9	14.1	10.6	0.34	14.4	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	59.9	20.3	13.4	10.2	0.25	11.7	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	63.3	24.2	13.4	11.1	0.29	11.7	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	62.5	22.9	13.1	10.5	0.24	9.9	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0

Aug-25	NNE area	66.1	23.9	12.5	8.7	0.25	12.9	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	56.5	17.7	11.9	9.4	0.21	13.3	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	59.8	21.4	15.2	13.1	0.39	10.4	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	66.5	25.9	14.9	11.4	0.31	13.6	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
Sep-25	NNE area	70.8	27.4	15.2	11.9	0.34	15.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	NNW area	52.2	13.4	13.8	10.3	0.37	15.5	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	CCC Top	63.2	25.9	17.2	11.6	0.33	8.9	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0
	Near Cell house	62.9	21.2	12.1	9.4	0.22	10.1	< 0.01	< 20	< 0.5	< 0.5	< 5.0	< 5.0