

Half -Yearly EC Compliance Report

April-2025 to September-2025

for

Expansion of Viscose Staple Fibre Plant from 87,600 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 54,750 TPA

at

Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka)

by

M/s. Grasim Industries Ltd.

EC Letter No. J-11011/371/2006-IA. II(I)

Dated: 13.08.2019, amended 28/05/2025

EC Identification No. EC25A2201KA5929010A

Submitted By:



Grasim Industries Limited

**Kumarapatnam Harihar
Polyfibers and Grasilene Division
Kumarapatnam – 581123 Ranebennur,
Haveri, Karnataka**

Prepared By:



JMEnviroLab Pvt.Ltd.

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25.2.2011

F. No. J-11011/371/2006- IA II (I)

Government of India

Ministry of Environment and Forests

(I.A. Division)

Fax, No: 080 25537184

Total No. of pages : 5

Kind Attn. Smt. Susarala Sathya

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

Regards

Umesh Duggani, Grasim Harihar

E-mail : pb.restogi@nic.in

Telefax : 011: 2436 7668

Dated 8th November, 2007

To,

Grasim Industries Ltd.
Grasilex Division
Kumarapatnam - 581123, Haveri
KarnatakaE-mail : gramhar@sancharnet.in

Fax No. : 08373 - 242875/ 242465

Subject : Expansion of Viscose Staple Fibre (51,100 TPA to 87,600 TPA) and Captive Power Plant (10 MW to 20 MW) at Kumarapatnam, Randennur, Haveri, Karnataka by M/s Grasim Industries Limited. - Environmental clearance req.

Sir,

This has reference to your letter no. GRD/Sr.EP/EIA/2006 dated 18th October, 2006 wherein you have submitted filled 'Form-1', 'Pre-feasibility Report' and EIA/VEMP as per EIA Notification dated 14th September, 2006 and subsequent clarifications / additional information furnished vide your letters dated 14th August, 2007, 23rd August, 2007 and 22nd October, 2007.

2.0 Ministry has examined the proposal and it is noted that the proposal involves expansion of Viscose Staple Fibre (VSF) to enhance the capacity from 51,100 to 87,600 TPA and Captive Power Plant from 10 MW to 20 MW at Grasilex Division, Kumarapatnam, Randennur, Haveri, Karnataka. The proposed expansion activities will be carried out in 2 ha out of total 41 ha available in the existing plant premises. Details of the products being manufactured in the existing plant and to be manufactured during expansion will be as follows:

S. N.	Particulars	Unit	Capacity		
			Existing	Proposed	Total
1	Viscose Staple Fibre	TPA	51,100	36,500	87,600
2	Sulphuric Acid	TPA	38,810	36,500	75,110
3	CS ₂ (Carbon Di - Sulphide)	TPA	8,380	5,985	14,365
4	Byproduct - Anhydrous Sodium Sulphate	TPA	36,485	32,720	69,205
5	Power	MW	10	10	20

3.0 The VSF manufacturing process adopted by M/s Grasim Industries Ltd. will be environment friendly due to elimination of Zinc from the process resulting into elimination of hazardous solid waste generation and Zinc free effluent. Total water requirement from Tungbhadra river after expansion will be 18,670 m³/day (7,640 m³/day for expansion). The effluent generation from the expansion plant will be 61.2 m³/Ton of product as against 150

Water → 116 m³/day
effluent - 116 m³/day

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Documents have received earlier.
7/1/08

2
29/1/08
over all 80%

m³/Ton prescribed for Man Made Fibre Industry under E (P) Act. Sodium Sulphate recovery from the expansion plant will be 89 %. Total cost of the project is Rs. 276.00 Crores. Rs. 45.00 Crores and Rs. 4.50 Crores are earmarked towards capital cost and recurring cost/annum for pollution control measures.

4.0 Public hearing/consultation meeting was held on 9th August, 2007.

5.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. The process emissions in the form of SO₂ from the acid plant shall be scrubbed by the caustic or wet scrubber. Electrostatic Precipitators (ESPs) shall be provided to power plant boiler to control particulate matter. Double Conversion Double Absorption (DCDA) system in H₂SO₄ production area, 3-stage condensing system for recovery of CS₂, Claus kiln Sulphur recovery system to recover Sulphur from CS₂ plant gases etc. shall be provided. Vents from scrubbers and condensers shall be periodically monitored and maintained as per the best practicable technology.
- ii. The technology employed shall achieve standards notified by the Ministry for the Rayon Industry vide Gazette Notification No. 195 dated 16th October, 2006 regarding ambient air quality and stack emission norms for CS₂ and H₂S. Further efforts shall be made to bring down CS₂ levels. CS₂ storage tanks shall be provided with water dyke and sprinkling arrangements. The company shall monitor CS₂ and H₂S regularly and data on the emission levels shall be submitted to the Ministry and its Regional Office at Bangalore, KPCB and CPCB. Provision shall be made for retrofitting additional equipment if necessary in future.
- iii. The Industry shall measure ambient air quality for CS₂ and H₂S at the 3 ambient air quality monitoring stations set up in consultation with the KPCB to ensure CS₂ and H₂S not to exceed 100 ug/m³ and 150 ug/m³ respectively.
- iv. Total water requirement from River Tungbhadra after expansion shall not exceed 18,670 m³/day. Prior permission for the drawl of 18,670 m³/day water from Tungbhadra river shall be obtained from the concerned Department. The quantity of wastewater shall not exceed 81.2 m³/Ton of product as proposed for the expansion plant. Sodium sulphate recovery shall be increased from 71.4 % to 89 % in the proposed expansion. All the wastewater shall be treated in effluent treatment plant (ETP) having primary and secondary treatment facilities and treated wastewater shall be discharged into river only after meeting the standards prescribed by the KPCB or under E(P)A whichever are more stringent.
- v. The fly ash from power plant boilers shall be utilized as per Fly ash notification, 1999 and subsequently amended in 2003.
- vi. The solid waste shall be segregated according to its calorific content and stored separately for treatment and disposal. De-ashed charcoal churl, dried ETP sludge shall be mixed with coal and used as fuel in boilers. Used / waste oil shall be provided to registered recyclers/reprocessors.

- vii. Green belt of adequate width and density shall be developed in 14 ha out of total 41 ha project area to mitigate the effect of fugitive emissions all a round the plant. The development of green belt along the boundary wall, open space and avenue roads shall be provided in consultation with the local DFO as per the CPCB guidelines.
- viii. The project proponent shall comply with the environmental protection measures and safeguards recommended in EIA / EMP / Risk Analysis reports as well as the recommendations of the public hearing panel.

B. GENERAL CONDITIONS :

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka Pollution Control Board (KPCB) and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission levels shall go beyond the prescribed standards. Continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. At least three ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the KPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Bangalore / KPCB and CPCB once in six months.
- v. Fugitive emissions in the work zone environment shall be periodically monitored with instruments of proper range and emissions shall conform to the standards prescribed by the KPCB. Action shall be taken to reduce the fugitive emissions in the work zone environment as far as possible. Dust collectors shall be provided at transfer points to control fugitive emissions.
- vi. Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the KPCB. Regular monitoring shall be carried out for relevant parameters.
- vii. Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be discharged into river only after meeting the standards prescribed by the KPCB or under E(P)A whichever are more stringent.

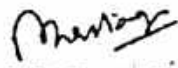
- viii. The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc. must be obtained.
- ix. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2000. Authorization from the KPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.
- x. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- xi. Rainwater shall be harvested to conserve the fresh water and recharge the ground water and an action plan shall be submitted to the Ministry.
- xii. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre shall be strengthened and medical records of each employee shall be maintained separately.
- xiii. A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.
- xiv. All the recommendations of the Charter on the Corporate Responsibility for the Environmental Protection (CREP) for the Fibre plants shall be implemented.
- xv. The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. for the overall improvement of the environment.
- xvi. As proposed in EIA/EMP, Rs. 45.00 Crores and Rs. 4.50 Crores earmarked towards capital cost and recurring cost/annum for pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. A time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore. The funds shall not be diverted for any other purposes.
- xvii. The Regional Office of this Ministry at Bangalore / CPCB / KPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.

- 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 KPCB / Committee and may also be seen at Website of the Ministry of Environment and Forests 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 should be forwarded to the Regional office at Bangalore.
- xix. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

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

3.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

7.0. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Additional Director

Copy to :-

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
2. The Chairman, Karnataka State Pollution Control Board, Parisar Bhavan, No. 49, 4th & 5th Floor, Church Street, Bangalore - 560 001, Karnataka.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034, Karnataka.
4. The Secretary, Department of Environment & Forests, Government of Karnataka, Bangalore, Karnataka.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Guard file.
7. Monitoring file.
8. Record file.


(Dr. P. B. Rastogi)
Additional Director

File No. J-11011/371/2006-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Original Clearance
from MoEF for
having amended Ec
for Zn use.

Date: 30.12.13

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : tchand2003@yahoo.co.uk
Telefax : 011: 2436 0108
Dated 30th December, 2013

To, 6 The Executive President
M/s Grasim Industries Ltd.
Grasilene Division,
Kumarapatnam-581123, Haveri,
Karnataka.

E-mail : grasimharihar@adityabirla.com; Fax No.: 08373-242875.

Subject: Expansion of Viscose Staple Fibre (VSF) Capacity from 51,100 to 87600 TPA and CPP from 10 MW to 20 MW at Grasilene Division, Kumarapatnam, Karnataka by M/s Grasim Industries Ltd. - regarding amendment of specific condition in the Environment Clearance.

Ref. : (i) Ministry's letter no. J-11011/371/2006-IA II (I) dated 8th November, 2007.
(ii) Your letter no. nil dated 12th February, 2013.

Sir,
Kindly refer to your letters dated 12th February, 2013 and 6th June, 2013, wherein you have requested for amendment in environmental clearance for using zinc or alum in Viscos Staple Fibre (VSF) process as a retardant for regeneration of fibre in the same spin bath solution.

2.0 The proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 11th meeting held during 26th-27th August, 2013. The Committee recommended the proposal for amendment in environmental clearance for uses of Zinc or Alum in the process.

3.0 The Ministry accepts the recommendation of the Expert Appraisal Committee (Industry) for amendment in the existing environmental clearance subject to compliance of following additional specific conditions:

- (i) Zinc bearing effluent shall be segregated from the Industrial effluent and treated in ETP. Treated effluent shall conform to the standards prescribed for the effluent discharge. Necessary permission may be obtained from the KSPCB.
- (ii) Treated effluent shall be passed through guard pond. Online continuous monitoring system viz. pH meter, TOC analyzer and flow meter as well as monitoring facility for relevant pollutants (i.e. Zinc) shall be installed to monitor the treated water quality.
- (iii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

Contd.....2/-


(iv) As proposed, Zinc bearing sludge shall be sent to the Cement plant.

4.0 All other conditions will remain unchanged.

5.0 You are requested to keep this letter with the Environmental Clearance accorded vide letter No. J-11011/371/2006-IA II (I) dated 8th November, 2007.


6.0 In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance.

7.0 This issues with the prior approval of the Competent Authority.


(Dr. (Ms.) T. Chandni)
Director

Copy to :-

1. The Secretary, Department of Environment & Ecology, Govt. of Karnataka, Room No. 708, Gate 2, Multi Storied Building, Dr. AmbedkarVeedhi, Bangalore - 560 001 secvenv-fee@karnataka.gov.in
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) KendriyaSadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board PariveshBhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Karnataka State Pollution Control Board, #49, ParisaraBhavana, Church Street, Bangalore-01 (Karnataka).
5. Monitoring Cell, Ministry of Environment and Forests, ParyavaranBhavan, CGO Complex, New Delhi.
6. Guard File/Monitoring File/Record File.


(Dr. (Ms.) T. Chandni)
Director

F.No. IA-J-11011/371/2006- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 13th August, 2019

To

M/s Grasim Industries Ltd
Village Kumarapatnam
District Haveri - 581123 (Karnataka)

Sub: Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka) by M/s Grasim Industries Ltd -Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/KA/IND2/82389/2006 dated 13th November 2018, on the subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36500 TPA by M/s Grasim Industries Ltd in an area of 431.36 ha at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka).

3. The details of products are as under:

S. No	Product / Unit	Capacity		
		Existing	Additional	Total
Main Products				
1	Viscose Staple Fibre	87,600 TPA	87,600TPA (Debottlenecking:7,300 TPA & new installations: 80,300 TPA)	1,75,200 TPA
2	Pulp	74,400 TPA	74,400 TPA	1,48,800 TPA
3	Captive Power Plant	20 MW	30 MW	50 MW
4	Excel Fibre (Solvent Spun Cellulosic Fibre)	—	36,500 TPA	36,500 TPA
Associated Products (not requiring EC)				
5	Sulphuric Acid	75,110 TPA	75,110 TPA	1,50,220 TPA
6	Carbon-Disulphide	14,365 TPA	14,365 TPA	28,730 TPA
7	Recovery Boiler	10 MW	10 MW	20 MW
By-Product				
8	Anhydrous Sodium Sulphate	69,205 TPA	69,205 TPA	1,38,410 TPA

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4. Existing land area is 431.36 ha (4313600 sqm). No additional land will be required for the proposed expansion. Industry will develop greenbelt in an area 960000 sqm covering 33% of total project area. The estimated project cost is Rs. 2550 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 Crores and the recurring cost (O&M) will be about Rs. 6 crores per annum. The project will lead to employment for 1003 persons directly and 860 indirectly after expansion.

5. The Ranebennur Black Buck Sanctuary is located at a distance of 4.5 km(N-NW) from the project site. The eco-sensitive zone of the sanctuary has been notified vide Ministry's Notification No.SO 2147 (E) dated 6th July, 2017. The distance of the project site from the notified ESZ is 4 km. Tungabhadra flows at a distance of 200 m from the project site.

6. Total fresh water requirement is estimated to be 97,200 cum/day which will be reduced to 87,480 KLD cum/day, proposed to be met from Tungabhadra River.

Effluent of 72,468 cum/day generated from the Industrial operations shall be treated in the existing ETPs by enhancing their capacities, and the treated effluent will be discharged to Tungabhadra river.

Existing unit has three Coal/Petcoke fired boilers 260 TPH capacity. To cater to the proposed expansion, one more Coal/Petcoke fired boiler of 300 TPH capacity and recovery boiler will be installed, which would be equipped with ESP and adequate stack height to control particulate emissions within the statutory limits.

7. The project/activity is covered under category A of item 5(d) 'Manmade fibres manufacturing', 1(d) 'Thermal Power Plants' and 5(i) 'Pulp & paper industry' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at central level in the Ministry.

8. Terms of reference (ToR) for the project was granted on 26th May, 2017. Public hearing was conducted by the State Pollution Control Board on 17th April, 2018.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 29-31 January, 2019 and 26-28 February, 2019 in the Ministry, wherein the project proponent and their accredited consultant presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36500 TPA by M/s Grasim Industries Ltd at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-**

- (i) Environmental clearance shall be subject to obtaining prior clearance from the wildlife angle including clearance from the Standing Committee of the National Board for Wildlife, as applicable.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.



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- (iii) The treated effluent of 72468 cum/day shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, for discharge into the Tunghbadra river. Necessary permission for discharge shall be obtained from the concerned regulatory authority.
- (iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vi) Solvent management, if any, shall be carried out as follows:
 - (a) Reactor shall be connected to chilled brine condenser system.
 - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.
 - (d) Solvents shall be stored in a separate space specified with all safety measures.
 - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (vii) Total fresh water requirement shall not exceed 87,480 cum/day proposed to be met from Tungabhadra river. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii) Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purposes. In any case, no ground water shall be used for the plant.
- (ix) The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (x) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xi) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (xii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (xiii) The company shall undertake waste minimization measures as below:-
 - (a) Metering and control of quantities of active ingredients to minimize waste.



Page 3 of 6

- (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 cleaning to reduce wastewater generation.
- (xiv) The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xv) At least 1.5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xvi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xvii) The unit shall make all arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xix) Storage of raw materials shall be either in silos or covered areas to prevent dust pollution and other fugitive emissions.
- (xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxi) The energy sources for lighting purposes shall preferably be LED based.
- (xxii) Transportation of raw materials/products should be carefully performed using GPS enabled vehicles.

10.1 The grant of environmental clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

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- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder.
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

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Page 5 of 6

- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.
- (xv) 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://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.
11. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
12. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


13/8/2019
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34
2. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th & 5th Floor, Church Street, Bangalore -1
5. Guard File/Monitoring File/Website/Record File


13/8/2019
(S. K. Srivastava)
Scientist E



File No.: IA-J-11011/371/2006-IA II (I)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Dated 28/05/2025



To,

Sh Sachin Samar,
M/s GRASIM INDUSTRIES LIMITED,
PO-Birlagram, Nagda, UJJAIN, MADHYA PRADESH - 456331
vikaskumar.valand@adityabirla.com

Subject: Proposed Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District Haveri, Karnataka by M/s Grasim Industries Limited – Consideration of amendment of Environmental Clearance-reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND2/533416/2025 dated 09/04/2025 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A2201KA5929010A
(ii) File No.	IA-J-11011/371/2006-IA II (I)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	5(d) Manmade fibers manufacturing
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Amendment in Existing Environment Clearance letter dated 13th August, 2019 w.r.t change in production capacity of Fibre (VSF & Excel) at Village: Kumarapatnam, Taluka: Ranebennuru, District: Haveri, Karnataka by M/s. Grasim Industries Limited
(viii) Location of Project (District, State)	HAVERI, KARNATAKA
(ix) Issuing Authority	MoEF&CC
(x) EC Date	20/05/2025
(xi) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	

3. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in Environmental Clearance (EC) granted by the Ministry vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 for the proposed Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri, Karnataka by M/s Grasim Industries Limited (GIL).

4. The project proponent has requested for amendment in the EC with the details are as under:

S. No.	Product	UOM	Existing EC Granted Capacity {As per EC dated 13th Aug., 2019}	Proposed Amendment	Total Capacity After Amendment	Remarks
A.	Main Products					
1.	Viscose Staple Fibre	TPA	1,75,200	(-) 18250	1,56,950	Reduction in capacity by 50 TPD / 18250 TPA
2.	Excel Fibre (Solvent Spun Cellulosic Fibre)	TPA	36,500	(+) 18250	54,750	Increase in capacity by 50 TPD / 18250 TPA
3.	RG Pulp	TPA	1,48,800	No change	1,48,800	No Change
4.	CPP	MW	50	No change	50	No Change
B.	Associated Products					
	Sulphuric Acid*	TPA	1,50,220	(-) 4220	1,46,000	Reduction in capacity
	Carbon-di-Sulphide*	TPA	28,730	(-) 2993	25,375	Reduction in capacity
	Recovery Boiler	MW	20	No change	20	No Change
C.	By-product					
	Anhydrous Sodium Sulphate*	TPA	1,38,410	(-) 14418	1,23,992	Reduction in capacity
Note: *EC is not required as per EIA Notification, 2006; as amended from time to time.						

Details of the other amendment required in the EC letter corresponding to the proposed amendment are as under:

S. No.	Para of EC issued by MoEF&CC	Description {As per EC dated 13th Aug., 2019}	To be revised/ read as	Justification/ reasons
1.	Point No. 2, Page no. 1	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the	Looking to the new generating demand of the market for special type of fibres with higher

		project for expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36,500 TPA at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka) by M/s. Grasim Industries Ltd. in an area of 431.36 ha at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka).	project for expansion of Viscose Staple Fibre Plant from 87,600 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 54,750 TPA at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka) by M/s. Grasim Industries Ltd. in an area of 431.36 ha at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka).	tenacity which can work on high-speed machines, impart different feel, look, etc. GIL has carried out extensive research and put in lot of efforts, which is spread over lost many years, and have been successful in developing New Solvent Spinning Process for production of Cellulosic Fibre.
2.	Point no. 4, Line no. 3, Page no. 2	The estimated project cost is Rs. 2550 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 crores and the recurring cost (O&M) will be Rs. 6 crores per annum.	The estimated project cost is Rs. 2669 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 crores and the recurring cost (O&M) will be Rs. 6 crores per annum.	Increase in Excel Fiber Capacity in lieu of reduction in VSF capacity.
3.	Point no. 6, 1st Para, Page no. 2	Total fresh water requirement is estimated to be 97,200 cum/day which will be reduced to 87,480 cum/day, proposed to be met from Tungabhadra River.	Total fresh water requirement is estimated to be 84,680 cum/day, proposed to be met from Tungabhadra River.	Reduction in VSF capacity.
4.	Point no. 6, 2nd Para, Page no. 2	Effluent of 72,468 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing their capacities, and the treated effluent will be discharged to Tungabhadra River.	Effluent of 69,921 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing its capacity, and the treated effluent will be discharged to Tungabhadra River.	Reduction in VSF capacity.
5.	Point no. 10, Page no. 2	Based on the proposal submitted by the project proponent and the recommendations of the EAC (Industry -2), Ministry of Environment, Forest and Climate Change hereby accords change to the environmental clearance to the project for Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36,500 TPA by M/s. Grasim Industries Ltd. at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka),	Based on the proposal submitted by the project proponent and the recommendations of the EAC (Industry -2), Ministry of Environment, Forest and Climate Change hereby accords change to the environmental clearance to the project for Expansion of Viscose Staple Fibre from 87,600 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 54,750 TPA by M/s. Grasim Industries Ltd. at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka),	Looking to the new generating demand of the market for special type of fibres with higher tenacity which can work on high-speed machines, impart different feel, look etc., GIL has carried out extensive research and put in lot of efforts, which is spread over lost many years, and have been successful in developing New Solvent Spinning Process for production of Cellulosic Fibre.
6.	Point no. 10, Condition (iii)	The treated effluent Of 72448 cum/day shall conform the	The treated effluent Of 69,921 cum/day shall conform the	Reduction in VSF capacity.

	Page no. 3	standards prescribed under the Environment (Protection) Rules, 1986 for discharge into the Tungabhadra River. Necessary permission for discharge shall be obtained from the concerned regulatory authority.	standards prescribed under the Environment (Protection) Rules, 1986 for discharge into the Tungabhadra River. Necessary permission for discharge shall be obtained from the concerned regulatory authority.	
7.	Point no. 10, Condition (vii), Page no. 3	Total fresh water requirement shall not exceed 87,480 cum/day proposed to be met from Tungabhadra River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Total fresh water requirement shall not exceed 84,680 cum/day proposed to be met from Tungabhadra River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Reduction in VSF capacity.

5. The proposal was considered by the EAC (ID: EC/AGENDA/EAC/626017/4/2025) meeting held on 06th – 07th May, 2025 in the Ministry.

6. During deliberations by EAC following issues emerged:

- EAC desired justification from the project proponent for applying the proposal in amendment instead of para 7 (ii). In this regard, the project proponent has clarified that para 7 (ii) (a) pertains to phase wise expansion in production capacity with increase in pollution load, Further, provisions of para 7 (ii) (b) pertains to increase in production capacity with or without any change in (i) raw material-mix or (ii) product-mix or (ii) quantities within products or (ii) number of products including new products falling in the same category or (iv) configuration of the plant or process or operations in existing area or in areas contiguous to the existing area without increase in pollution load. Para 7 (ii) (c) pertains to changes in configuration after detailed without increase production capacity. So, the instant proposal for change in product mix without increase in production capacity and without increase in pollution load does not fall in any of the scenarios of para 7 (ii).
- The project proponent has informed that the addendum to the EIA report has been submitted. As per the report all the parameters of pollution load in terms of air, water, solid & hazardous waste etc., are reducing due to the proposed amendment. EAC found the information satisfactory.

7. After detailed deliberations, EAC found the justification satisfactory. Accordingly, the committee **recommended** the proposal for amendment in EC as proposed by the project proponent.

8. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby **accords approval to the proposed amendment in Environmental Clearance (EC) dated 13th August, 2019 as stated above for the proposed expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri, Karnataka by M/s Grasim Industries Limited (GIL).**

9. However, all other terms and conditions stipulated in the existing EC vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 shall remain unchanged.

10. This issues with approval of the Competent Authority.

Copy To

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1.
2. The Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun

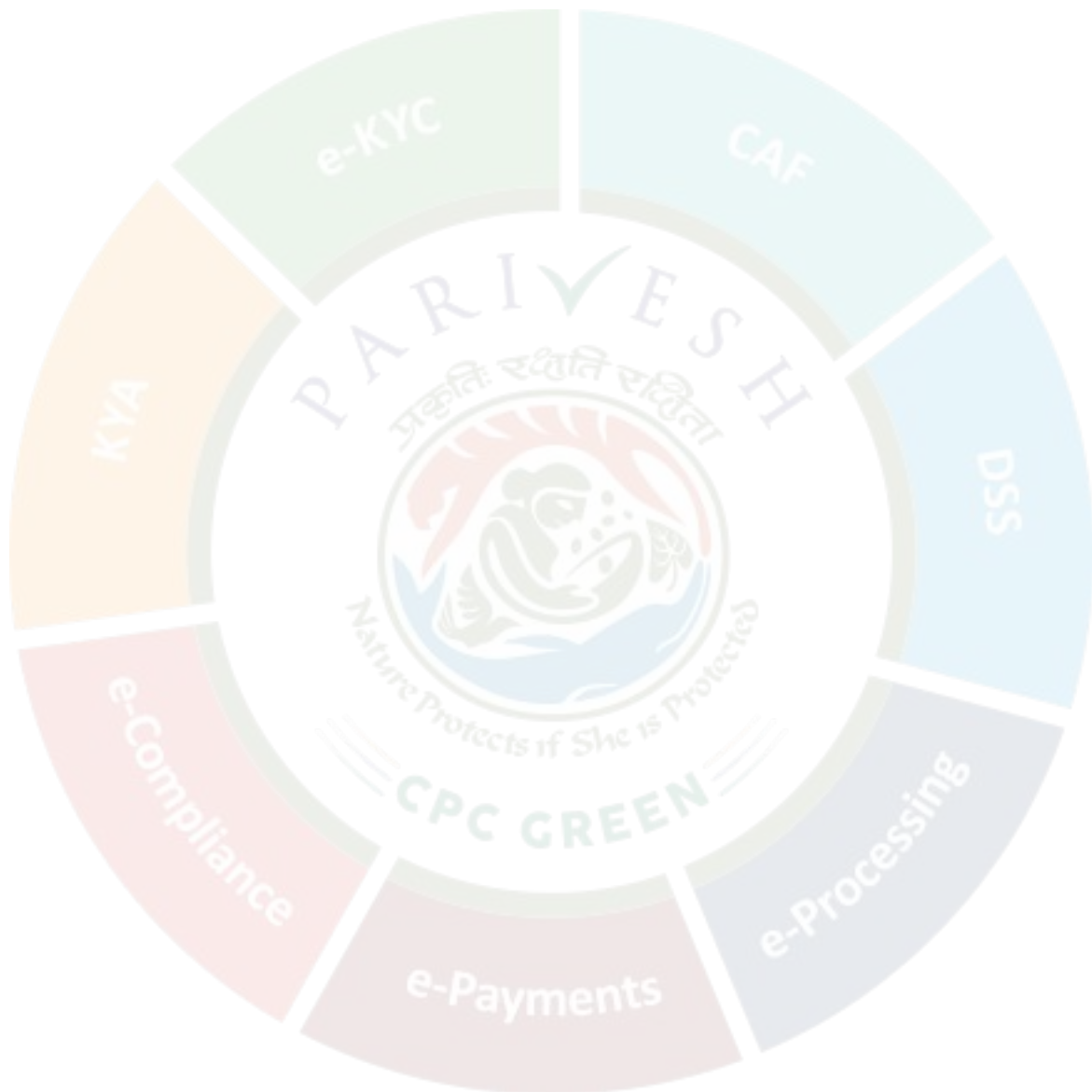
Nagar, Delhi - 32.

4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1.

5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.

6. The District Collector, District Haveri, Karnataka.

7. Guard File/Monitoring File/Parivesh portal/Record File.



Point wise compliance of conditions stipulated in Environmental Clearance is given as under:

Amendment in Environmental Clearance (EC) letter no. IA-J-11011/371/2006-IA II (I), dated 20/05/2025 in Existing Environment Clearance letter dated 13th August, 2019 w.r.t change in production capacity of Fibre (VSF & Excel)		
As per EC dated 13th Aug., 2019		Amendment granted
Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36,500 TPA		Amendment in Existing EC for Viscose Staple Fibre Plant from 1,75,200 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity from 36500 to 54,750 TPA The EC letter IA-J-11011/371/2006-IA II (I), dated 20/05/2025, and EC vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 are attached as Annexure 1.
Sl. No.	EC Condition, As per EC dated 13th Aug., 2019	Amendment granted, and Status
3.	Total fresh water requirement is estimated to be 97,200 cum/day which will be reduced to 87,480 cum/day, proposed to be met from Tungabhadra River.	Total fresh water requirement is estimated to be 84,680 cum/day, proposed to be met from Tungabhadra River.
4	Para, Page no. 2 Effluent of 72,468 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing their capacities, and the treated effluent will be discharged to Tungabhadra River.	Effluent of 69,921 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing its capacity, and the treated effluent will be discharged to Tungabhadra River.
9.	However, all other terms and conditions stipulated in the existing EC vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 shall remain unchanged.	Agreed and Abide by the conditions stipulated in the existing EC vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019.

Point wise reply on Expansion EC Dated 13th August 2019
Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36500 TPA

Sl. No.	EC Condition	Status
C. Specific Condition		
i.	Environment Clearance shall be subject to obtaining prior environment clearance from the wildlife angle including clearance from the standing committee of the National Board for wild life, as applicable.	<p>Clearance certificate issued by Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Bengaluru.</p> <p>Vide Letter No. PCCF/WLD/CR-07/2018-19.</p> <p>Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Bengaluru has issued the revised wildlife conservation plan on 29.10.2022.</p>
ii.	Consent to Establish/Operate for the Project shall be obtained from the state pollution control board as required under the Air (Prevention and control of pollution) Act, 1981 and the Water (Prevention and control of Pollution) Act, 1974	<p>Necessary Consents has been obtained from KSPCB.</p> <p>The recent Consent to Operate/Consent for Operation for Harihara Polyfibers Ltd has been granted vide Consent No: AW-327349 dated 07/10/2021 valid till 30/06/2026.</p> <p>The recent Consent to Operate/Consent for Operation for Grasilene Division, has been granted vide Consent No: AW-327298 dated 07/10/2021 valid till 30/06/2026.</p> <p>A copy of the Consent to Operate/Consent for Operation are enclosed as Annexure 2.</p>
iii.	The treated effluent of 72468 cum/day shall conform to the standard prescribed under the Environment Protection Rules, 1986, for discharge into the Tungabhadra River. Necessary permission for discharge shall be obtained from the concerned Regulatory authority.	<p>Industry is abided by the condition and having sufficient treatment facilities with upgraded tertiary treatment facility.</p> <p>Obtained permission from the concerned regulatory authority for discharging the treated waste water into Tungabhadra River with quantity 49840 m³/day for existing Pulp and Fibre production with additional 20 TPD Fibre and 30 TPD Pulp by debottlenecking project without increase in water consumption and discharge and 40 TPD expansion for fibre with increasing water consumption and effluent discharge for Grasilene Division. (Consent No. AW-327349 for M/s. Harihar Polyfibers and Consent No. AW-327298 for M/s. Grasilene</p>

		Division).
iv.	Necessary authorization required under the Hazardous and other wastes (Management and Trans – Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	<p>Noted and complied with,</p> <p>The Authorization required under the Hazardous and other wastes has been obtained from the KSPCB for Grasilene Division vide Authorization No: 329923 dated 22/02/2022 and remains valid up to 30/06/2026.</p> <p>The Authorization required under the Hazardous and other wastes has been obtained from the KSPCB for Harihara Polyfibers Ltd. vide Authorization No: 329924 dated 22/02/2022 and remains valid up to 30/06/2026.</p> <p>Copy of the authorization is enclosed as Annexure 3.</p>
v.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	<p>Agreed and complying with the condition. Industry have implemented several measures to control source such as ESP installation with chimney height as per the CTO for all the emission points.</p> <p>The fugitive emissions control measures such as Dust collectors, water spraying, Wagon Tippler system and vacuum sweeping machine are implemented.</p> <p>Source Control and fugitive emissions measures details are attached as Annexure 4.</p> <p>The gaseous emissions are being dispersed through stack of adequate height as per CPCB/SPCB guidelines</p>

vi.	Solvent management, if any, shall be carried out as follows company shall undertake waste minimization measures as below: - (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery. (d) Solvents shall be stored in a separate space specified with all safety measures. (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	<p>Noted and abide by the condition.</p> <p>It applies to the Excel Fibre plant; but we have not yet started the production of Excel fibre. Once we start the installation & operation of the activity then we would comply with the condition.</p> <p>At present no solvent is being used in any of the processes.</p>
Vii	Total fresh water requirement shall not exceed 87,480 m ³ /day proposed to be met from Tungabhadra River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	<p>Noted and complying with.</p> <p>The required permission for fresh water extraction from Tungabhadra River is obtained from KNNL. The copy of the water Agreement for Industrial use is enclosed as Annexure 5.</p>
Viii	Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purposes. In any case, no ground water shall be used for the plant.	<p>Complying with the condition,</p> <p>The industry has constructed two reservoirs of capacity 18 Lakh m³ and 16 lakh m³ respectively to harvest and store the rain water and excess runoff water from Tungabhadra River during monsoon season, thereby facilitating groundwater recharge.</p> <p>Rainwater harvesting structures were constructed to channelize the rainwater flow from rooftops, paved and cemented area within premises. The Facility available can collect & use rain water from about 4,08,000 m² area.</p> <p>Industry is not using groundwater for plant operations.</p> <p>The photos of the reservoirs are attached as Annexure 6.</p>

ix	The storm water from the premises shall be collected and discharged through a separate conveyance system.	Complying with; The storm water drains are constructed within the plant and storm water from the premises is collected and taken to the storage ponds/recharge pits. The Photographs of the Storm water channel are attached as Annexure 7.
x	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Complying with the condition, the hazardous chemicals are stored safely in appropriate containers, or carboys in accordance with the specified guidelines. Flame arresters are provided tank farm and the solvent transfer through pumps.
xi	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP Sludge, process inorganic & Evaporation salt shall be disposed off to the TSDF	At Pulp unit Centric Cleaner pulp rejects generating as Organic residue and being sent Cardboard Industries and burnt in CFBC boiler along with Coal. ETP bio sludge is basically organic sludge having more than 75% organic content with Gross calorific value 2700 Kcal/Kg and being used in CFBC boiler as fuel along with Coal. Inorganic sludge being sent for Cement Bricks Manufacture.
xii	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Noted and abide by the condition; Complying with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules. The transportation of Hazardous Chemicals is being done as per the Motor Vehicle Act (MVA), 1989.

xiii	<p>The company shall undertake waste minimization measures as below: - 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 highpressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>Complying with, the industry has taken the following measure for waste minimization:</p> <ol style="list-style-type: none"> Industry being upgraded with best available technologies periodically to achieve the desired quantity of products with minimum raw materials. Industry being followed and adopted 3R method (Reduce, Recycle, Reuse). Wagon Tippler system installed for unloading the coal and transferring directly into boiler, which will significantly reduce the spillage of coal as well as dust emission. Covered conveyor belts are/will be used for material transfer within the plant premises. Wood Chips are being fed to the Pulp Digester through Conveyor Belt. Use of Close Feed system into batch reactors. Venting equipment through vapour recovery system.
xiv	<p>The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>	<p>Out of the total plant area i.e. 266 ha, 96 ha (36% of the plant area) adequate greenbelt has been developed and maintained to mitigate the effect of fugitive emissions.</p> <p>Photographs showing the green belt development within and around the industry which has been developed in consultation with the local DFO as per the CPCB guidelines are enclosed as Annexure 8.</p>
xv	<p>At least 1.5 % of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the ministry regional office.</p>	<p>Environmental expenditure incurred by Unit is Rs. 59.11 crore (For the Investment of Rs.108.25 Crore till date) as One-time investment for Environmental improvement Projects.</p> <p>The detailed list of environmental project expenditure is enclosed as Annexure 9.</p>
xvi	<p>For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p>	<p>Noted and abide by the condition; Acoustic enclosure is being provided to DG set for controlling the noise pollution.</p>

xvii	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms	<p>Adequate arrangement for protection of possible fire hazards during manufacturing process in material handling is being made.</p> <ul style="list-style-type: none"> • Flame arrestors are provided at various places in the system. • Sufficient number of Fire Extinguishers DCP type and CO₂ type and Fire buckets are posted at many locations for fire control. • CS₂ line rerouted with collection tray to avoid the leakage of CS₂ and to avoid hot sources. • Cable trays rerouted with proper dressing to avoid the contact the CS₂ transfer line. • At spinning dept. temperature and pressure transmitter installed in Exhaust duct with alarming system. • Old FRP exhaust duct replaced with Fire retardant FRP duct with aluminum spool pieces • Fire Hydrant Points are also located around the plant. • Employees are regularly trained in firefighting. • Fire tender of adequate capacity with our Fire Fighting Department. • Pictures for firefighting facilities at plants are enclosed as Annexure 10.
xviii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the factories Act.	<p>Noted and abide by the condition. Grasim Industries Ltd. commits to create & maintain safe & healthy work environment for employees, against hazards & risks through:</p> <ul style="list-style-type: none"> • Continuously developing & maintaining safe work practices. • Focusing on operational & occupational hazards & risks. • Creating awareness about preventive health & safety measures. Six monthly compliance report is being/ will be submitted to concerned offices. • Specialists such as Cardiologist, Ophthalmologist, and Orthopedic

		<p>Surgeons are visiting our medical Centre minimum once in a month as Consultants and this facility is extended to all employees and their family members.</p> <p>Details for the Occupational health surveillance of the workers and picture of Occupational health center are enclosed as Annexure 11.</p>
xix	Storage of Raw materials shall be either in silos or covered areas to prevent dust pollution and other fugitive emissions.	<p>Duley noted and complying with, Raw materials are stored in the covered shed Proper storage facility are developed within plant. The storage details of the raw material and photographs of raw material storage facility are enclosed in Annexure 12.</p>
xx	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	<p>Online monitoring system with Interlocking facilities for the stack emission points in the plant has been installed and same is connected to KSPCB/CPCB server.</p> <p>Online continuous monitoring for effluent monitoring are also installed for the required effluent point.</p> <p>The Photographs of the Continuous monitoring system installed at stacks and effluent monitoring are enclosed as an Annexure 13.</p>
xxi	The energy sources for lighting purposes shall preferably be LED based.	Noted and complying with, the energy sources for lighting purposes is LED based.
xxii	Transportation of raw materials/products should be carefully performed using GPS enabled vehicles	<p>In this regard, industry has submitted the letter to MoEF & CC dated: 22.10.2019 (enclosed as Annexure-14), and requested to amend this condition, because wood is the major raw material consumed in the pulping process which comes mainly from the unorganized market. Hence it is highly difficult to ensure the use of GPS enabled vehicles. In addition to that, the industry is taking maximum care for safety precautions while transporting raw materials and end products so that no major damage will be caused to the environment.</p>
D. GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the Karnataka Pollution Control Board (KSPCB) and the State Government.	Agreed and abide by the condition; Grasim Industries Ltd. are adhered to the stipulations made by the Karnataka State Pollution Control Board (KSPCB) and the State Government.

ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	Noted and complying with. New Environmental Clearance (EC) with amendment approval is received by the Ministry of Environment, Forest and Climate Change vide letter no. IA-J-11011/371/2006-IA II (I) dated 28/05/2025 for the Amendment in Existing Environment Clearance letter was approved dated 13th August, 2019 w.r.t change in production capacity of Fibre (VSF & Excel).
iii	The locations of Ambient air monitoring stations shall be decided in consultation with the state Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentration anticipated.	Industry has already set up 3 ambient air quality monitoring stations in consultation with the KSPCB. CS ₂ and H ₂ S being monitored as per the AAQM Guidelines. The monitored values are well within the prescribed standards at all times. Industry has also installed continuous online AAQM stations at all the three locations. The location for ambient air quality monitoring of CAAQMs are enclosed as Annexure 15.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.No. 826(E) dated 16th November,2009 shall be complied with.	The NAAQS are being complied with. The ambient air quality results are enclosed as Annexure 16.
v	The Overall Noise level in and around the plant area shall be kept well within the standards by providing noise control measures, including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall to the standards prescribed under the environment (Protection)Act,1986 and the Rules made thereunder.	Complying with, the overall noise levels in and around the plant is maintained well within the standards. Adequate equipment's including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. Equipment's are subjected to non-destructive Testing. The ambient noise level monitoring results are enclosed as Annexure 17.
vi	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Rainwater harvesting structures are being constructed to channelize the rainwater flow from rooftops, paved and cemented area within premises. The Facility available can collect & use rain water from about 4,08,000 m ² area. The photograph for channelizing rain water is enclosed as Annexure 18.

vii	Training shall be imparted to all employees on safety and health aspects of chemical handling-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.	<p>Noted and complying with; industry provided training to all employees on safety and health aspects of chemical handling and environmental compliances.</p> <p>Also, Industry is carrying out general medical examination of all the employees and also special tests like lung function test, Spirometry test, hearing capacity test etc. for specific employees as per the requirements and Factories Act and records are being maintained.</p> <p>Medical examination details are enclosed as Annexure 11.</p>
viii.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management's mitigation measures and public hearing shall be implemented.	Noted, and abide by the condition
ix.	The Company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	<p>Socio-economic developmental activities are being carried out by the Industry under Group's CSR policy. CSR activities are carried out under 5 major headings i.e.</p> <ul style="list-style-type: none"> • Education, • Health, • Sustainable Livelihood, • Infrastructure Development & • Social empowerment <p>CSR activity report along with the photographs of the beneficiaries for April-2025 to Sep-2025 are enclosed as Annexure 19.</p>
x.	A separate Environmental Management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<p>Separate environmental cell has been developed having a team of qualified personnel. The structure for Environmental cell is enclosed as Annexure 20.</p> <p>Environment Management Cell takes care of environmental management system implementation, treatment plant operations & maintenance, air & effluent analysis, environmental record management, ensuring</p>

		<p>the adherence to environmental legal requirements, audits etc.</p> <p>Also, external NABL Accredited Environment Laboratory equipped with us as AMC.</p>
xi.	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and climate change as well as the state Government along with the Implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.</p>	<p>As a recurring cost Unit has spent Rs.8.17 Crore for the operation of Pulp Plant ETP, including color removal plant, Biogas plant expenses and air pollution control equipment operation at Harihara Polyfibers Ltd for the Period April-2025 to September-2025.</p> <p>Rs. 4.64 Crore was spent for the operations of Fiber Plant ETP operation and air pollution control equipment at Grasilene Division for the Period April-2025 to September-2025.</p> <p>The Recurring /Operation expenditure details for Harihara Polyfibers and Grasilene Division are enclosed as Annexure 21.</p>
xii.	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.</p>	<p>Noted and complied with; Submitted letter to all the concerned and taken the acknowledgment.</p>
xiii.	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as by as e-mail) to the respective Regional Office of MoEF &CC. The respective Zonal office of CPCB and SPCB.A copy of Environmental clearance and six-monthly compliance status report shall be posted on the website of the company.</p>	<p>Grasim Industries is regularly submitting the six- monthly compliance reports and the monitored data along with statistical interpretation to the concerned authorities.</p> <p>The acknowledge slip for the submission of the six- monthly compliance report (Oct 2024-March 2025) is enclosed as Annexure 22.</p>

xiv.	The Environmental statement for each financial year ending 31 st March in form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment Protection) Rules,1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective regional offices of MoEF & CC by e-mail.	Grasim Industries is regularly submitting Environmental statement for each financial year ending 31 st March in form-V to the concerned authorities. The copy of email sent for the form-V submission to respective regional offices of MoEF & CC the form-V submission is attached as Annexure 23.
xv.	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 of http://moef.nic.in . This shall be advertised with in seven days from the date of issue of the clearance in 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.	The industry had advertised in two local newspapers (One in English and one in vernaculars) regarding the accordance of Environmental Clearance by the MoEF. The advertisement appeared in “Deccan Herald”, English paper dated 20.08.2019 & “Prajavani” Kannada paper dated 20.08.2019.
Conditions issued in the Amended EC vide letter No. MoEF Letter No. J-11011/371/2006-IA.II(I) amended on 30.12.2013. Expansion of Viscose Staple Fibre (VSF) Capacity from 51,100 to 87600 TPA and CPP from 10 MW to 20 MW		
Sl. No.	EC Condition	Status
3.0	The Ministry accepts the recommendation of the Expert Appraisal Committee (industry) for amendment in the existing environmental clearance subject to compliance of following additional specific conditions:	Complying with the condition
i	Zinc bearing effluent shall be segregated from the industrial effluent and treated in ETP. Treated effluent shall conform to the standards prescribed for the effluent discharge. Necessary permission may be obtained from the KSPCB.	Provided separate stream drain for the zinc bearing effluent and treated in Zinc clarifier provided at ETP.

ii	Treated effluent shall be passed through guard pond. Online continuous monitoring system viz. pH meter, TOC analyser and flow meter as well as monitoring facility for relevant pollutants (i.e. Zinc) shall be installed to monitor the treated water quality	The treated effluent is passed through guard pond. Online continuous monitoring system for pH , BOD, COD, TSS & flow is installed and data's are being connected to CPCB / KSPCB server. Also, TOC analyzer installed.
iii	Process effluent / any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Separate drains provided for process effluent and storm water. Storm water drain is passing through the guard pond.
iv	As proposed Zinc bearing sludge shall be sent to Cement plant	Zinc bearing sludge is being sent to cement bricks manufacturing units.
4.0	All the other conditions will remain unchanged	Noted and abide by the conditions.
5.0	You are requested to keep this letter with the Environmental Clearance accorded vide letter No. J- 11011/371/2006-IA II (I) dated 8th November, 2007.	Acceptable

Point Wise Reply on Expansion EC vide Letter No. J-11011/371/2006-IA.II(I)
Dated 8th November, 2007

Expansion of Viscose Staple Fibre (51,100 TPA to 87,600 TPA) and Captive Power Plant (10 MW to 20 MW)

Sl. No.	EC Condition	Status
A. Specific Condition		
i.	<p>The process emissions in the form of SO₂ from the acid plant shall be scrubbed by caustic or wet scrubber. Electrostatic Precipitators (ESPs) shall be provided to power plant boiler to control particulate matter. Double conversion Double Absorption (DCDA) system in H₂SO₄ production area, 3- stage condensing system for recovery of CS₂, Klaus Kiln Sulphur recovery system to recover Sulphur from CS₂ plant tail gases etc. shall be provided. Vents from scrubbers and condensers shall be periodically monitored and maintained as per the best practicable technology.</p>	<p>The process emissions in the form of SO₂ from the acid plant are being scrubbed by wet scrubber. Electrostatic Precipitators (ESPs) are installed at power plant boiler to control particulate emission. Sulphuric Acid is manufactured by Double Conversion Double Absorption (DCDA) process by burning sulphur in air to form sulphur dioxide, which is then catalytically converted to sulphur trioxide and absorbed in sulphuric acid in Absorption Towers to get sulphuric acid.</p> <p>Klaus Kiln Sulphur recovery system to recover Sulphur from CS₂ plant tail gases etc. are being provided.</p> <p>Vents from scrubbers and condensers are being periodically monitored and maintained as per the best practicable technology.</p> <p>Unit wise Details for Air Pollution Control</p>

		Equipment are enclosed as Annexure 24.
ii.	<p>The technology employed shall achieve standards notified by the Ministry for the Rayon Industry vide Gazette Notification No. 195 dated 16th October, 2006 regarding ambient air quality and stack emission norms for CS₂ and H₂S. Further efforts shall be made to bring down CS₂ levels. CS₂ storage tanks shall be provided with water dyke and sprinkling arrangements. The company shall monitor CS₂ and H₂S regularly and data on the emission levels shall be submitted to the Ministry and its Regional Office at Bangalore, KSPCB and CPCB. Provision shall be made for retrofitting additional equipment if necessary.</p>	<p>The technology employed is sufficient to achieve standards notified by the Ministry regarding ambient air quality and stack emission norms for CS₂ and H₂S. Regular monitoring is being carried out and monitoring data is submitted to concerned authorities on regular basis. The ambient air quality results are enclosed as Annexure 16.</p> <p>Efforts made to bring down CS₂ levels:</p> <ul style="list-style-type: none"> Line 1 & 2 machines CS₂ recovery troughs have been replaced with new FRP trough. Line 1 & 2 conventional cutters are replaced with Chinese cutters. Line 3 CS₂ recovery trough, SS 904L has been replaced with astrolite recovery trough. Line 3 CS₂ vapour scrubber and condenser system modified to improve the CS₂ Recovery. Line 1,2 & 3 provided with acrylic sheet shutters on machine to minimize the CS₂ entry into atmosphere. CS₂ storage tanks are provided with water dyke and sprinkling arrangements. Provisions are being made for retrofitting additional equipment as when required. Optimized the addition of CS₂ in the process by modifying process retention time and upgrading the technology. Installed higher capacity process Chilled water Pump for improving CS₂ recovery.
iii.	<p>The industry shall measure ambient air quality for CS₂ and H₂S at the 3 ambient air quality monitoring stations set up in consultation with the KSPCB to ensure CS₂ and H₂S not to exceed 100 µg/m³ and 150 µg/m³ respectively.</p>	<p>Industry has already set up 3 ambient air quality monitoring stations in consultation with the KSPCB. CS₂ and H₂S being monitored as per the AAQM Guidelines. The monitored values are well within the prescribed standards at all times. Industry has also installed continuous online AAQM stations at all the three locations.</p>

		The ambient air quality results are enclosed as Annexure 16.
iv.	The water requirement from River Thunga bhadra after expansion shall not exceed 18,670 m ³ /day. Prior permission for the draw of 18,670 m ³ /day water from Tungabhadra river shall be obtained from the concerned Department. The quantity of wastewater shall not exceed 61.2 m ³ /Ton of product as proposed for the expansion plant. Sodium sulphate recovery shall be increased from 71.4% to 89% in the proposed expansion. All the wastewater shall be treated in effluent treatment plant (ETP) having primary and secondary treatment facilities and treated waste water shall be discharged into river only after meeting the standards prescribed by the KSPCB or under EPA whichever are more stringent.	<ul style="list-style-type: none"> The water requirement from River Tungabhadra after expansion does not exceed 18,670 m³/day and Prior permission for water withdrawal has been obtained from concern authority. The quantity of wastewater shall not exceed 61.2 m³/Ton of product as proposed for the expansion plant and maintaining 46.07 m³/Ton of Product. Overall Na₂SO₄ recovery is achieved 89.54 % and efforts are being made for further recovery. The wastewater is being treated in effluent treatment plant (ETP) having primary and secondary treatment facilities and treated waste water is being discharged into river only after meeting the standards prescribed by the KSPCB or under EPA whichever are more stringent. Continuous online effluent analyzing device is installed at mixed effluent outlet point.
v.	The fly ash from power plant boilers shall be utilized as per Fly ash notification, 1999 and subsequently amended in 2003.	<p>The fly ash from power plant boilers is being utilized as per Fly ash notification, 1999 and subsequently amended in 2003.</p> <p>During April 2025 to Sep 2025, a total of 31996.98 of fly ash was generated and entire quantity has been sold to brick manufacturing units.</p> <p>The details for Fly Ash Generated during April 2025 to Sep 2025 are enclosed as Annexure 25.</p>
vi.	The solid waste shall be segregated according to its calorific content and stored separately for treatment and disposal. De-ashed charcoal, churi, dried ETP sludge shall be mixed with coal and used as fuel in boilers. Used/waste oil shall be provided to registered recyclers/ reprocessors.	<p>Solid waste is being segregated according to its calorific content and stored separately for treatment and disposal.</p> <p>De-ashed charcoal churi and ETP organic sludge being used in Boiler as fuel after mixing with coal.</p> <p>Used oil is being sold to KSPCB authorized recycler. The copy of the authorization is enclosed as Annexure 3.</p>

vii	Green belt of adequate width and density shall be developed in 14 ha out of 41 ha project area to mitigate the effect of fugitive emissions all around the plant. The development of green belt along the boundary wall, open space and avenue roads shall be provided in consultation with the local DFO as per the CPCB guidelines.	Out of the total plant area i.e. 266 ha, 96 ha (36% of the plant area) adequate greenbelt has been developed and maintained to mitigate the effect of fugitive emissions. Photographs showing the green belt development within and around the industry which has been developed in consultation with the local DFO as per the CPCB guidelines are enclosed as Annexure 8.
viii.	The project proponent shall comply with the environmental protection measures and safeguards recommended in EIA/EMP/Risk Analysis reports as well as the recommendations of the public hearing panel.	Grasim has complied with the environmental protection measures and safeguards recommended in EIA/EMP/Risk analysis reports as well as the recommendations of the public hearing panel.

B. GENERAL CONDITIONS

S.No.	EC Condition	Status
i.	The project authorities must strictly adhere to the stipulations made by the Karnataka Pollution Control Board (KSPCB) and the State Government.	Grasim Industries Ltd. are adhered to the stipulations made by the Karnataka State Pollution Control Board (KSPCB) and the State Government.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	Noted and complying with. New Environmental Clearance (EC) with amendment approval is received by the Ministry of Environment, Forest and Climate Change vide letter no. IA-J-11011/371/2006-IA II (I) dated 28/05/2025 for the Amendment in Existing Environment Clearance letter was approved dated 13th August, 2019 w.r.t change in production capacity of Fibre (VSF & Excel).
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19.05.1993 and standards prescribed from time to time. The State Board may specify more stringent standards for relevant parameters keeping in view nature of the industry and its size and location. At no time, emission levels shall go beyond prescribed standards. Continuous	Online monitoring system with Interlocking facilities for the stack emission points in the plant has been installed and same is connected to KSPCB & CPCB server. The online data has been transmitted to CPCB/SPCB server. The results are enclosed as Annexure 26. The Photographs of the Continuous monitoring system installed at stacks are enclosed as an

	monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds limit.	Annexure 13.
iv.	At least three ambient air quality monitoring stations shall be established in the downward direction as well as where maximum concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the KSPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Bangalore/KSPCB and CPCB once in six months.	<p>Grasim Industries had already established 3 ambient air quality monitoring stations in downward direction as well as where maximum concentration of SPM, SO₂ and NO_x are anticipated in consultation with the KSPCB.</p> <p>Photographs of thee ambient air quality monitoring stations are enclosed as Annexure 15.</p> <p>Data on ambient air quality and stack emissions is being regularly submitted to Ministry including its Regional Office at Bangalore/KSPCB and CPCB once in six months along with the EC Compliance report.</p>
V.	Fugitive emissions in the work zone environment shall be periodically monitored with instruments of proper range and emissions shall conform to the standards prescribed by the KSPCB. Action shall be taken to reduce fugitive emissions in the work zone environment as far as possible. Dust collectors shall be provided at transfer points to control fugitive emissions	<p>Fugitive emission in the work zone environment are being monitored regularly and the values are well within the prescribed standards. The results of Fugitive emissions in the work zone and photographs for fugitive emissions control are enclosed as Annexure 27.</p> <p>Measures taken to reduce fugitive emissions are:</p> <ul style="list-style-type: none"> • Motorised shutters are provided on machine to minimize the fugitive emissions • Transfer of fly ash is/will be done through pneumatic conveying system & stored in closed silos. • Wagon Tippler installed for unloading the coal and transferring directly into boiler, which will reduce the dust emission at shop floor. • Covered conveyor belts are/will be used for material transfer within the plant premises. • Regular sweeping of all the roads and floors is being / will be done with the help of vacuum sweeping machine. • Water sprinkling is being / will be done on roads near coal and fly ash storage areas. • Dust collectors are being provided at transfer points to control fugitive emissions. • At Grasilene plant main gate entrance

		Road, Concrete Road made to minimize the fugitive emission.
vi.	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the KSPCB. Regular monitoring shall be carried out for relevant parameters.	Three monitoring stations has been established to monitor the influent and effluent quality in consultation with the KSPCB and regular monitoring is being carried out. Photographs of effluent quality monitoring stations are enclosed as Annexure 13.
vii.	Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be discharged into river only after meeting the standards prescribed by the KSPCB or under E(P)A, whichever are more stringent.	<p>Industrial Waste water is being collected and treated in Effluent Treatment Plant (ETP). Effluent is being treated based on primary treatment for clarification and neutralization followed by secondary treatment designed on the principle of extended aeration activated sludge process.</p> <p>Treated water conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time.</p> <p>KSPCB has given permission for discharging the treated effluent after mixing with the sewage from the plant vide their letter Consent order AW-327298 dated 07.10.2021. Discharge of effluent is less than 16840 m³/d. The combined effluent is meeting the stipulated standards.</p>
viii.	The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc. must be obtained.	<p>Industry is complying with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 and further amendments.</p> <p>Approvals from Chief Inspector of Factories, Chief Inspector of Explosives, Fire & Safety Inspectorate etc. has been obtained vide letter no. MY-DWR-783, valid up to 31.12.2025. (Factory License)</p>
ix.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2000. Authorization from the KSPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	<p>Grasim industries are strictly adhering to the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and further amendments.</p> <p>Authorization from the KSPCB has been obtained for collection, storage, treatment and disposal of hazardous wastes vide Authorization No. 329923 dated 22.02.2022 and it valid upto 30.06.2026.</p> <p>Copy of the authorization is enclosed as</p>

		Annexure 3.
x.	The overall noise levels in and around the plant area shall be kept within the standards (85 dBA) by providing noise measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<p>The overall noise levels in and around the plant is maintained well within the standards.</p> <p>Adequate equipment's including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. Equipment's are subjected to Non- Destructive Testing. The Ambient noise levels shall conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). The Noise monitoring results are enclosed as Annexure17.</p>
xi.	Rainwater shall be harvested to conserve the fresh water and recharge the ground water and an action plan shall be submitted to the Ministry.	<p>Complying with the condition, The industry has constructed two reservoirs of capacity 18 Lakh m³ and 16 lakh m³ respectively to harvest and store the rain water and excess runoff water from Tungabhadra River during monsoon season, thereby facilitating groundwater recharge.</p> <p>Rainwater harvesting structures were constructed to channelize the rainwater flow from rooftops, paved and cemented area within premises. The Facility available can collect & use rain water from about 4,08,000 m² area.</p> <p>Industry is not using groundwater for plant operations.</p> <p>The photos of the reservoirs are attached in Annexure 6.</p>
xii.	All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees be ensured as per the Factories Act and records maintained, specifically for those who engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre shall be strengthened and medical records of each employee shall be maintained separately.	<p>Noted and abide by the condition. Grasim Industries Ltd. commits to create & maintain safe & healthy work environment for employees, against hazards & risks through:</p> <ul style="list-style-type: none"> • Continuously developing & maintaining safe work practices. • Focusing on operational & occupational hazards & risks. • Creating awareness about preventive health & safety measures. Six monthly compliance report is being/ will be submitted to concerned offices. • Specialists such as Cardiologist, Ophthalmologist, and Orthopedic

		<p>Surgeons are visiting our medical Centre minimum once in a month as Consultants and this facility is extended to all employees and their family members.</p> <p>Details for the Occupational health surveillance of the workers and picture of Occupational health center are enclosed as Annexure 11.</p>
xiii.	A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	<p>A separate Environment Management Cell is established which takes care of environmental management system implementation, treatment plant operations & maintenance, air & effluent analysis, environmental record management, ensuring the adherence to environmental legal requirements, audits etc. The structure for Environmental cell is enclosed as Annexure 20.</p>
xiv.	All the recommendations of the Charter on the Corporate Responsibility for the Environmental protection (CREP) for the fibre plants shall be implemented.	All the recommendations made in the CREP for Pulp plant had been implemented. Annexure 28.
xv.	The company must undertake socioeconomic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. for the overall improvement of the environment.	<p>Socio-economic developmental activities are being carried out by the Industry under Group's CSR policy. CSR activities are carried out under 5 major headings i.e.</p> <ul style="list-style-type: none"> • Education, • Health, • Sustainable Livelihood, • Infrastructure Development & • Social empowerment <p>CSR activity report along with the photographs of the beneficiaries for April-2025 to Sep-2025 are enclosed as Annexure 19.</p>
xvi.	As proposed in EIA/EMP, Rs. 45.00 Crores and Rs. 4.50 Crores earmarked towards capital cost and recurring cost/annum for pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. A time bound implementation schedule for implementing all the conditions	<p>Out of the total project cost i.e. Rs. 45.00 Crores, Grasim Industries has earmarked Rs. 4.50 Crores for the environmental pollution control measures. As proposed requisite fund earmarked for environment protection is not diverted to any other purpose.</p> <p>A time bound implementation schedule for implementing all the conditions stipulated herein are being submitted to the Ministry's Regional Office at Bangalore.</p> <p>Rs. 4.64 Crore was spent for the operations of</p>

	stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore. The funds shall not be diverted for any other purposes.	Fiber Plant ETP operation and air pollution control equipment at Grasilene Division for the Period April-2025 to September-2025. The Recurring /Operation expenditure details are enclosed as Annexure 21.
xvii.	The regional Office of this Ministry at Bangalore/CPCB/KSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted regularly	Grasim Industries is regularly submitting the six-monthly compliance reports and the monitored data along with statistical interpretation to the concerned authorities. The acknowledge slip for the submission of the six- monthly compliance report (Oct 2024-March 2025) is enclosed as Annexure 22.
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 KSPCB/Committee and may also be seen at Website of the Ministry of Environment and Forests 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 news papers that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same should be forwarded to the Regional office at Bangalore.	The Industry had advertised in two local news papers (One in English and one in vernaculars) regarding the accordance of Environmental Clearance by the MoEF. The advertisement appeared in "Deccan Herald", English paper dated 15.11.2007 & "Prajavani" Kannada paper dated 14.11.2007.
xix.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The same has been informed to the concerned authorities.



File No.: IA-J-11011/371/2006-IA II (I)
Government of India
Ministry of Environment, Forest and Climate
Change
IA Division



Dated 28/05/2025



To,

Sh Sachin Samar,
M/s GRASIM INDUSTRIES LIMITED,
PO-Birlagram, Nagda, UJJAIN, MADHYA PRADESH - 456331
vikaskumar.valand@adityabirla.com

Subject: Proposed Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District Haveri, Karnataka by M/s Grasim Industries Limited – Consideration of amendment of Environmental Clearance-reg.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND2/533416/2025 dated 09/04/2025 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A2201KA5929010A
(ii) File No.	IA-J-11011/371/2006-IA II (I)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	5(d) Manmade fibers manufacturing
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Amendment in Existing Environment Clearance letter dated 13th August, 2019 w.r.t change in production capacity of Fibre (VSF & Excel) at Village: Kumarapatnam, Taluka: Ranebennuru, District: Haveri, Karnataka by M/s. Grasim Industries Limited
(viii) Location of Project (District, State)	HAVERI, KARNATAKA
(ix) Issuing Authority	MoEF&CC
(x) EC Date	20/05/2025
(xi) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	

3. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in Environmental Clearance (EC) granted by the Ministry vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 for the proposed Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri, Karnataka by M/s Grasim Industries Limited (GIL).

4. The project proponent has requested for amendment in the EC with the details are as under:

S. No.	Product	UOM	Existing EC Granted Capacity {As per EC dated 13th Aug., 2019}	Proposed Amendment	Total Capacity After Amendment	Remarks
A.	Main Products					
1.	Viscose Staple Fibre	TPA	1,75,200	(-) 18250	1,56,950	Reduction in capacity by 50 TPD / 18250 TPA
2.	Excel Fibre (Solvent Spun Cellulosic Fibre)	TPA	36,500	(+) 18250	54,750	Increase in capacity by 50 TPD / 18250 TPA
3.	RG Pulp	TPA	1,48,800	No change	1,48,800	No Change
4.	CPP	MW	50	No change	50	No Change
B.	Associated Products					
	Sulphuric Acid*	TPA	1,50,220	(-) 4220	1,46,000	Reduction in capacity
	Carbon-di-Sulphide*	TPA	28,730	(-) 2993	25,375	Reduction in capacity
	Recovery Boiler	MW	20	No change	20	No Change
C.	By-product					
	Anhydrous Sodium Sulphate*	TPA	1,38,410	(-) 14418	1,23,992	Reduction in capacity
Note: *EC is not required as per EIA Notification, 2006; as amended from time to time.						

Details of the other amendment required in the EC letter corresponding to the proposed amendment are as under:

S. No.	Para of EC issued by MoEF&CC	Description {As per EC dated 13th Aug., 2019}	To be revised/ read as	Justification/ reasons
1.	Point No. 2, Page no. 1	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the	Looking to the new generating demand of the market for special type of fibres with higher

		project for expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36,500 TPA at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka) by M/s. Grasim Industries Ltd. in an area of 431.36 ha at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka).	project for expansion of Viscose Staple Fibre Plant from 87,600 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 54,750 TPA at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka) by M/s. Grasim Industries Ltd. in an area of 431.36 ha at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka).	tenacity which can work on high-speed machines, impart different feel, look, etc. GIL has carried out extensive research and put in lot of efforts, which is spread over lost many years, and have been successful in developing New Solvent Spinning Process for production of Cellulosic Fibre.
2.	Point no. 4, Line no. 3, Page no. 2	The estimated project cost is Rs. 2550 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 crores and the recurring cost (O&M) will be Rs. 6 crores per annum.	The estimated project cost is Rs. 2669 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 crores and the recurring cost (O&M) will be Rs. 6 crores per annum.	Increase in Excel Fiber Capacity in lieu of reduction in VSF capacity.
3.	Point no. 6, 1st Para, Page no. 2	Total fresh water requirement is estimated to be 97,200 cum/day which will be reduced to 87,480 cum/day, proposed to be met from Tungabhadra River.	Total fresh water requirement is estimated to be 84,680 cum/day, proposed to be met from Tungabhadra River.	Reduction in VSF capacity.
4.	Point no. 6, 2nd Para, Page no. 2	Effluent of 72,468 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing their capacities, and the treated effluent will be discharged to Tungabhadra River.	Effluent of 69,921 cum/day generated from industrial operations shall be treated in the existing ETPs by enhancing its capacity, and the treated effluent will be discharged to Tungabhadra River.	Reduction in VSF capacity.
5.	Point no. 10, Page no. 2	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry -2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36,500 TPA by M/s. Grasim Industries Ltd. at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka),	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry -2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for Expansion of Viscose Staple Fibre from 87,600 to 1,56,950 TPA, RG Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 54,750 TPA by M/s. Grasim Industries Ltd. at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri (Karnataka),	Looking to the new generating demand of the market for special type of fibres with higher tenacity which can work on high-speed machines, impart different feel, look etc., GIL has carried out extensive research and put in lot of efforts, which is spread over lost many years, and have been successful in developing New Solvent Spinning Process for production of Cellulosic Fibre.
6.	Point no. 10, Condition (iii)	The treated effluent Of 72448 cum/day shall conform the	The treated effluent Of 69,921 cum/day shall conform the	Reduction in VSF capacity.

	Page no. 3	standards prescribed under the Environment (Protection) Rules, 1986 for discharge into the Tungabhadra River. Necessary permission for discharge shall be obtained from the concerned regulatory authority.	standards prescribed under the Environment (Protection) Rules, 1986 for discharge into the Tungabhadra River. Necessary permission for discharge shall be obtained from the concerned regulatory authority.	
7.	Point no. 10, Condition (vii), Page no. 3	Total fresh water requirement shall not exceed 87,480 cum/day proposed to be met from Tungabhadra River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Total fresh water requirement shall not exceed 84,680 cum/day proposed to be met from Tungabhadra River. Prior permission in this regard shall be obtained from the concerned regulatory authority.	Reduction in VSF capacity.

5. The proposal was considered by the EAC (ID: EC/AGENDA/EAC/626017/4/2025) meeting held on 06th – 07th May, 2025 in the Ministry.

6. During deliberations by EAC following issues emerged:

- EAC desired justification from the project proponent for applying the proposal in amendment instead of para 7 (ii). In this regard, the project proponent has clarified that para 7 (ii) (a) pertains to phase wise expansion in production capacity with increase in pollution load, Further, provisions of para 7 (ii) (b) pertains to increase in production capacity with or without any change in (i) raw material-mix or (ii) product-mix or (ii) quantities within products or (ii) number of products including new products falling in the same category or (iv) configuration of the plant or process or operations in existing area or in areas contiguous to the existing area without increase in pollution load. Para 7 (ii) (c) pertains to changes in configuration after detailed without increase production capacity. So, the instant proposal for change in product mix without increase in production capacity and without increase in pollution load does not fall in any of the scenarios of para 7 (ii).
- The project proponent has informed that the addendum to the EIA report has been submitted. As per the report all the parameters of pollution load in terms of air, water, solid & hazardous waste etc., are reducing due to the proposed amendment. EAC found the information satisfactory.

7. After detailed deliberations, EAC found the justification satisfactory. Accordingly, the committee **recommended** the proposal for amendment in EC as proposed by the project proponent.

8. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby **accords approval to the proposed amendment in Environmental Clearance (EC) dated 13th August, 2019 as stated above for the proposed expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village: Kumarapatnam, Taluka: Ranebennur, District: Haveri, Karnataka by M/s Grasim Industries Limited (GIL).**

9. However, all other terms and conditions stipulated in the existing EC vide letter no. IA-J-11011/371/2006-IA II (I) dated 13th August, 2019 shall remain unchanged.

10. This issues with approval of the Competent Authority.

Copy To

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1.
2. The Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun

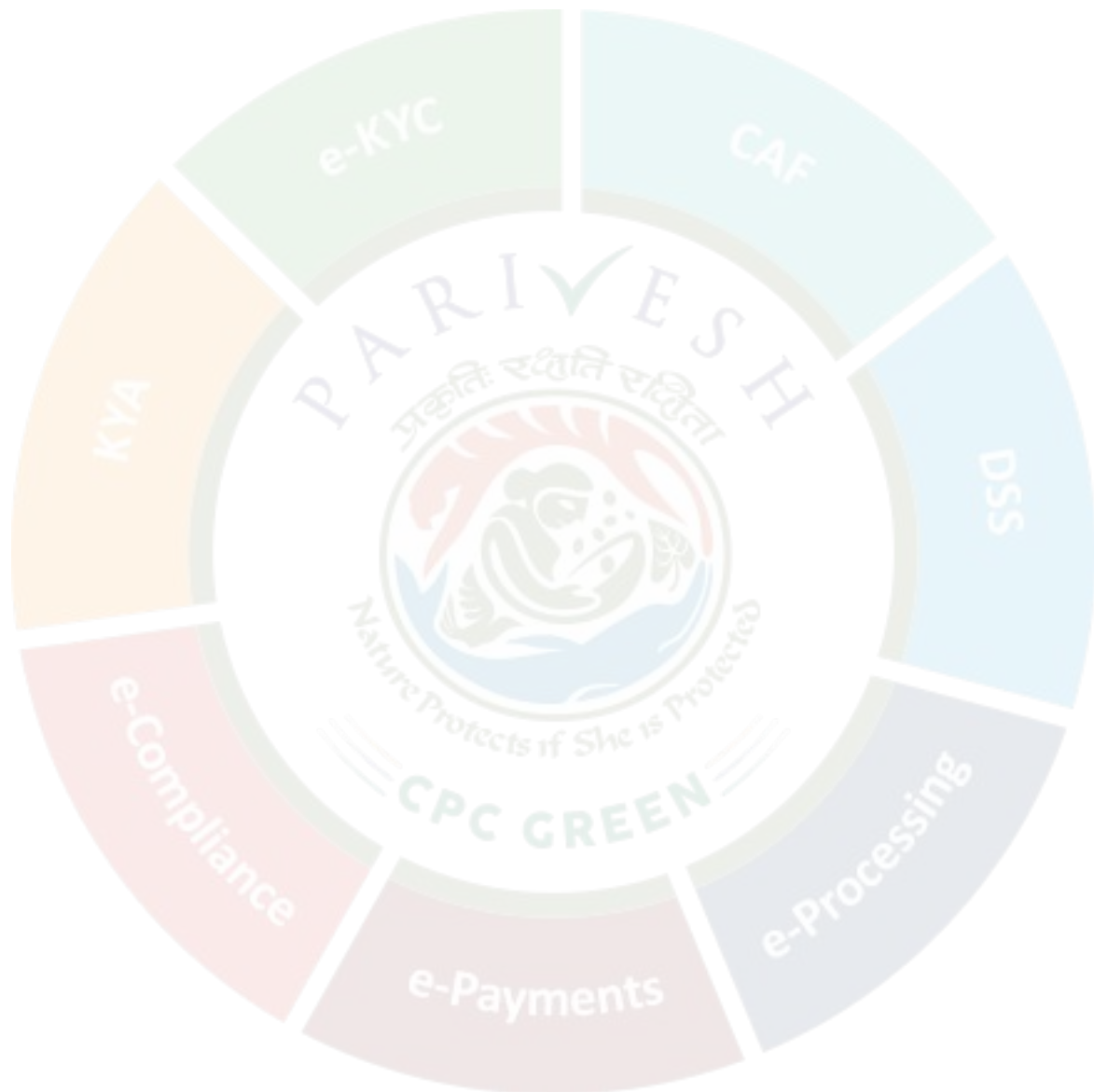
Nagar, Delhi - 32.

4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1.

5. Compliance and Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.

6. The District Collector, District Haveri, Karnataka.

7. Guard File/Monitoring File/Parivesh portal/Record File.



F.No. IA-J-11011/371/2006- IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 13th August, 2019

To

M/s Grasim Industries Ltd
Village Kumarapatnam
District Haveri - 581123 (Karnataka)

Sub: Expansion of Fibre Plant, Pulp Plant, Captive Power Plant and setting up Excel Fibre Plant at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka) by M/s Grasim Industries Ltd -Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/KA/IND2/82389/2006 dated 13th November 2018, on the subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36500 TPA by M/s Grasim Industries Ltd in an area of 431.36 ha at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka).

3. The details of products are as under:

S. No	Product / Unit	Capacity		
		Existing	Additional	Total
Main Products				
1	Viscose Staple Fibre	87,600 TPA	87,600TPA (Debottlenecking:7,300 TPA & new installations: 80,300 TPA)	1,75,200 TPA
2	Pulp	74,400 TPA	74,400 TPA	1,48,800 TPA
3	Captive Power Plant	20 MW	30 MW	50 MW
4	Excel Fibre (Solvent Spun Cellulosic Fibre)	—	36,500 TPA	36,500 TPA
Associated Products (not requiring EC)				
5	Sulphuric Acid	75,110 TPA	75,110 TPA	1,50,220 TPA
6	Carbon-Disulphide	14,365 TPA	14,365 TPA	28,730 TPA
7	Recovery Boiler	10 MW	10 MW	20 MW
By-Product				
8	Anhydrous Sodium Sulphate	69,205 TPA	69,205 TPA	1,38,410 TPA

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4. Existing land area is 431.36 ha (4313600 sqm). No additional land will be required for the proposed expansion. Industry will develop greenbelt in an area 960000 sqm covering 33% of total project area. The estimated project cost is Rs. 2550 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 600 Crores and the recurring cost (O&M) will be about Rs. 6 crores per annum. The project will lead to employment for 1003 persons directly and 860 indirectly after expansion.

5. The Ranebennur Black Buck Sanctuary is located at a distance of 4.5 km(N-NW) from the project site. The eco-sensitive zone of the sanctuary has been notified vide Ministry's Notification No.SO 2147 (E) dated 6th July, 2017. The distance of the project site from the notified ESZ is 4 km. Tungabhadra flows at a distance of 200 m from the project site.

6. Total fresh water requirement is estimated to be 97,200 cum/day which will be reduced to 87,480 KLD cum/day, proposed to be met from Tungabhadra River.

Effluent of 72,468 cum/day generated from the Industrial operations shall be treated in the existing ETPs by enhancing their capacities, and the treated effluent will be discharged to Tungabhadra river.

Existing unit has three Coal/Petcoke fired boilers 260 TPH capacity. To cater to the proposed expansion, one more Coal/Petcoke fired boiler of 300 TPH capacity and recovery boiler will be installed, which would be equipped with ESP and adequate stack height to control particulate emissions within the statutory limits.

7. The project/activity is covered under category A of item 5(d) 'Manmade fibres manufacturing', 1(d) 'Thermal Power Plants' and 5(i) 'Pulp & paper industry' of the schedule to the EIA Notification, 2006 and requires appraisal/approval at central level in the Ministry.

8. Terms of reference (ToR) for the project was granted on 26th May, 2017. Public hearing was conducted by the State Pollution Control Board on 17th April, 2018.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 29-31 January, 2019 and 26-28 February, 2019 in the Ministry, wherein the project proponent and their accredited consultant presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion of Fibre Plant from 87,600 to 1,75,200 TPA, Pulp Plant from 74,400 to 1,48,800 TPA, Captive Power Plant from 20 to 50 MW and setting up Excel Fibre Plant of capacity 36500 TPA by M/s Grasim Industries Ltd at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-**

- (i) Environmental clearance shall be subject to obtaining prior clearance from the wildlife angle including clearance from the Standing Committee of the National Board for Wildlife, as applicable.
- (ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.



Page 2 of 6

- (iii) The treated effluent of 72468 cum/day shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, for discharge into the Tunghbadra river. Necessary permission for discharge shall be obtained from the concerned regulatory authority.
- (iv) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (v) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (vi) Solvent management, if any, shall be carried out as follows:
 - (a) Reactor shall be connected to chilled brine condenser system.
 - (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - (c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.
 - (d) Solvents shall be stored in a separate space specified with all safety measures.
 - (e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
 - (f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
- (vii) Total fresh water requirement shall not exceed 87,480 cum/day proposed to be met from Tungabhadra river. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (viii) Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purposes. In any case, no ground water shall be used for the plant.
- (ix) The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (x) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (xi) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (xii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (xiii) The company shall undertake waste minimization measures as below:-
 - (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.
- (xiv) The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xv) At least 1.5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (xvi) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xvii) The unit shall make all arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xix) Storage of raw materials shall be either in silos or covered areas to prevent dust pollution and other fugitive emissions.
- (xx) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (xxi) The energy sources for lighting purposes shall preferably be LED based.
- (xxii) Transportation of raw materials/products should be carefully performed using GPS enabled vehicles.

10.1 The grant of environmental clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

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- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder.
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

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Page 5 of 6

- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.
- (xv) 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://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.
11. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
12. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


13/8/2019
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34
2. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th & 5th Floor, Church Street, Bangalore -1
5. Guard File/Monitoring File/Website/Record File


13/8/2019
(S. K. Srivastava)
Scientist E



Consent For Operation
(CFO-Air,Water)

Consent No. AW-327349
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana,No.49, Church
Street,Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Annexure 2

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-327349 PCB ID: 23495 Date: 07/10/2021

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution)Act , 1981

- Ref: 1. Application filed by the applicant/organization on 22/06/2021
2.Inspection of the Industry/organization/by RO, on 16/06/2021
3.Proceedings of the ECM dated 04/08/2021 ,held on 29/07/2021

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Harihara Polyfibers Ltd.,(Unit Of Grasim Industries Ltd.,)
Address: 1,2,3/1,2/1,4,5/1,5/2,6/1,6/2,6/3,6/4,7/1A,7/1B,7/2A/1, Kumarapatnam, Ranebennur-Tq,Haveri-Dist.
Industrial Area: , Kumarapatnam,
Taluk: Davanagere, District: Davanagere

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Boiler Feed	1300.000	400.000	Boiler blowdown is treated in ETP.
2	Domestic Purpose	270.000	200.000	Domestic wastewater is being discharge into septic tank & Soak pit, overflow will be taken to ETP.
3	Manufacturing Processes	32800.000	32400.000	Process waste water is being treated in ETP
4	Others	1630.000	0.000	Water loss during process Gardening and Misc.

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel,constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	rayon grade pulp	7112.5000	TON

This consent is valid for the period from 01/07/2021 to 30/06/2026

To,
Harihara Polyfibers Ltd.,(Unit Of Grasim Industries Ltd.,)

COPY TO:

The Environmental Officer, KSPCB, Regional Office Davanagere for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid : Rs. 1000000



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-327349
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



**Consent For Operation
(CFO-Air,Water)**

**Consent No. AW-327349
Valid upto: 30/06/2026**

**Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in**

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



**Consent For Operation
(CFO-Air,Water)**

**Consent No. AW-327349
Valid upto: 30/06/2026**

**Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in**

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
3. There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature Not Verified

Digitally signed by
Date: 2021.10.07 15:55:04
+05:30



Consent For Operation
(CFO-Air,Water)

Consent No. AW-327298
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-327298 PCB ID: 23496 Date: 07/10/2021

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution) Act , 1981

- Ref: 1. Application filed by the applicant/organization on 22/06/2021
2. Inspection of the Industry/organization/by RO, on 16/06/2021
3. Proceedings of the ECM dated 04/08/2021 , held on 29/07/2021

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Grasilene Division(Unit Of Grasim Industries)Kumarapatnam, Ranebennur-Tq,Haveri-
Address: 17,18,20,55,60,61,62,63,64,65,67,68,69,70, Kumarapatnam, Ranebennur-Tq,Haveri-Dist.
Industrial Area: Not In I.A, Kumarapatnam,
Taluk: Davanagere, District: Davanagere

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Boiler Feed	5300.000	2280.000	Boiler blowdown will be treated in Existing ETP.
2	Domestic Purpose	150.000	120.000	Domestic wastewater is being treated in septic tank And overflow connected to ETP.
3	Manufacturing Processes	15030.000	14430.000	Process wastewater will be treated in existing ETP of capacity 20,000 KLD, treated water will be discharge into River.
4	Others	260.000	10.000	Used for gardening

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	by product sodium sulphate	7210.0000	TON
2	carbon di-sulphide for captive consumption	1296.8300	TON
3	excel fiber	0.000	TON
4	power plant	20.0000	MWH
5	sulphuric acid for captive consumption	6387.5000	TON
6	viscose staple fibre	9125.0000	TON

This consent is valid for the period from 01/07/2021 to 30/06/2026

To,
Grasilene Division(Unit Of Grasim Industries)Kumarapatnam, Ranebennur-Tq,Haveri-

COPY TO:

The Environmental Officer, KSPCB, Regional Office Davanagere for information and necessary action.

2. Master Register.
3. Case file.



**Consent For Operation
(CFO-Air,Water)**

**Consent No. AW-327298
Valid upto: 30/06/2026**

**Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in**

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

Consent Fee paid : Rs. 1500000

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall confirm to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



**Consent For Operation
(CFO-Air,Water)**

**Consent No. AW-327298
Valid upto: 30/06/2026**

**Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in**

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-327298
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions Nil mentioned in the schedule are not applicable.

Additional Conditions:

1. The occupier shall comply with all the additional terms and conditions stipulated in Annexures I & A attached here.
2. This consent order contains 9 pages including Annexures.



Consent For Operation
(CFO-Air,Water)

Consent No. AW-327298
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
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Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

Chimney No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Boiler	100TPH CFBC Boiler-2No-CFEx	110	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,0,0	COA	ESP	Before commissioning.
2	Boiler	Power plant stack	110	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,0,0	COA	ESP	Before commissioning.
3	Any Other....	Carbon Disulphide stack	32	PM(mg/NM3), SO2 (PPM), NOx(PPM)	CS2		SCR	Before commissioning.
4	Sulphuric Acid Plant	Sulphuric Acid plant Stack	51	PM(mg/NM3), SO2 (PPM), NOx(PPM)	50,1.0,0	H2SO4 mist and SO2	SCR	Before commissioning.
5	Any Other....	Spinning plant stack	175	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,0,0	SPM, CS2, H2S	N.A	Before commissioning.

Note:
ESP : E.S.P
SCR : Scrubber
SCR : Scrubber
N.A : Not Applicable

- Note:**
- The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
 - The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
 - There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to at least eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

- The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
- An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
- The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-327298
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 6 pages including annexure & excluding additional conditions)

For and on behalf of the
Karnataka State Pollution Control Board

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ

ನಿಯಂತ್ರಣ ಮಂಡಳಿ

ಕರ್ನಾಟಕ

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ

ನಿಯಂತ್ರಣ ಮಂಡಳಿ

ಕರ್ನಾಟಕ

Signature Not Verified

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Form 2 -[Rule 6(2)] Authorization
under Hazardous & Other Wastes
[Management & Transboundary
Movement]Rules,2016

Authorization No: 329923

Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana,No.49, Church
Street,Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Annexure 3

(This document contains 4 pages excluding annexure)

Authorization No: 329923 **PCB ID:** 23496 **Date:** 22/02/2022

**FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION
CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER
AND OPERATORS OF DISPOSAL FACILITIES**

- Ref: 1. Authorization application submitted by the industry/organization on 10/11/2021 at
Regional Office.
2. Inspection of the project site/organization by Regional Officer , Davanagere on 08/11/2021
3. Proceedings of CCM dated: , held on:

1. Number of authorization 329923 and date of issue 22/02/2022
2. Reference of application No. 22263 Inward Date 10/11/2021
3. Sr.President of Grasilene Division(Unit Of Grasim Industries)Kumarapatnam, Ranebennur-Tq,Haveri- is
hereby granted an authorization based on the enclosed signed inspection report for
Generation,Collection,Reception,Storage,Reuse or any other use of hazardous or other wastes or both on the
premises situated at the location **Address:** 17,18,20,55,60,61,62,63,64,65,67,68,69,70 , Kumarapatnam,
Ranebennur-Tq,Haveri-Dist. **Industrial Area :** Kumarapatnam , **Taluk :** Davanagere , **District :**
Davanagere

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II,III & IV of these rules	Description of Hazardous Waste	Quantity/Annum	Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
I	33.1~Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	65.000	M.T	As Per Annexure
I	5.2~Wastes Residues Containing Oil	1.000	M.T	As Per Annexure
	17.2~Spent Catalyst	1.000	M.T	As Per Annexure
I	35.2~Spent ion exchange resin containing toxic metals	3.000	M.T	As Per Annexure
I	5.1~Used Spent Oil	5.000	M.T	As Per Annexure



Form 2 -[Rule 6(2)] Authorization
under Hazardous & Other Wastes
[Management & Transboundary
Movement]Rules,2016

Authorization No: 329923

Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

(This document contains 4 pages excluding annexure)

	17.1~Residues Dusts Or Filter Cakes	72.000 M.T	As Per Annexure
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1. The authorization shall be valid for a period upto 30/06/2026

A. General Conditions of authorization:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
7. It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. An application for the renewal of an authorization shall be made '**3**' months before the date of expiry.
12. The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
13. Karnataka State Pollution Control Board reserves the right to review, impose additional condition or



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conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.

14. The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling or reuse.
15. The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.
16. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
17. The hazardous and other waste which gets generated during recycling or reuse or recovery or per-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
18. The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
19. The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
20. The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
21. Display Boards: The person authorized shall display sign boards at the storage site as "Hazardous Waste Storage Site" and "Danger" and the site shall be provided with accident preventive measures.

Additional Conditions:

General Conditions Nil are not applicable.

For and on behalf of the
Karnataka State Pollution Control Board

CHIEF/ SENIOR ENVIRONMENTAL OFFICER

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office,for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Office copy.



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ನಿಯಂತ್ರಣ ಮಂಡಳಿ

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Form 2 -[Rule 6(2)] Authorization
under Hazardous & Other Wastes
[Management & Transboundary
Movement]Rules,2016

Authorization No: 329924

Valid upto: 30/06/2026

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Tele : 080-25589112/3, 25581383
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Authorization No: 329924 **PCB ID:** 23495 **Date:** 22/02/2022

**FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION
CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER
AND OPERATORS OF DISPOSAL FACILITIES**

- Ref: 1. Authorization application submitted by the industry/organization on 10/11/2021 at
Regional Office.
2. Inspection of the project site/organization by Regional Officer , Davanagere on 08/11/2021
3. Proceedings of CCM dated: , held on:

1. Number of authorization 329924 and date of issue 22/02/2022
2. Reference of application No. 22260 Inward Date 10/11/2021
3. Sr. President of Harihara Polyfibers Ltd.,(Unit Of Grasim Industries Ltd.,) is hereby granted an
authorization based on the enclosed signed inspection report for
Generation,Collection,Reception,Storage,Reuse or any other use of hazardous or other wastes or both on the
premises situated at the location **Address:** 1,2,3/1,2/1,4,5/1,5/2,6/1,6/2,6/3,6/4,7/1A,7/1B,7/2A/1 ,
Kumarapatnam, Ranebennur-Tq,Haveri-Dist. **Industrial Area :** Kumarapatnam , **Taluk :** Davanagere ,
District : Davanagere

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II,III & IV of these rules	Description of Hazardous Waste	Quantity/Annum	Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
I	35.2~Spent ion exchange resin containing toxic metals	3.000	M.T	As Per Annexure
I	5.1~Used Spent Oil	3.900	KLT	As Per Annexure
I	33.1~Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	25.000	M.T	As Per Annexure
I	5.2~Wastes Residues Containing Oil	1.000	M.T	As Per Annexure

1. The authorization shall be valid for a period upto 30/06/2026

A. General Conditions of authorization:



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1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
7. It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. An application for the renewal of an authorization shall be made '**3**' months before the date of expiry.
12. The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
13. Karnataka State Pollution Control Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.
14. The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling or reuse.
15. The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.



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16. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
17. The hazardous and other waste which gets generated during recycling or reuse or recovery or per-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
18. The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
19. The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
20. The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
21. Display Boards: The person authorized shall display sign boards at the storage site as “Hazardous Waste Storage Site” and “Danger” and the site shall be provided with accident preventive measures.

Additional Conditions:

General Conditions Nil are not applicable.

For and on behalf of the
Karnataka State Pollution Control Board

CHIEF/ SENIOR ENVIRONMENTAL OFFICER

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office,for information and to inspect the industry during your next visit to the area.
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ನಿಯಂತ್ರಣ ಮಂಡಳಿ

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Signature Not Verified

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Date: 2022.02.22 15:08:24
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Source Control and Fugitive Emissions Measures

Emissions	Plant Unit	Pollution Control/ Mitigation measures adopted
Stack Emission		
Recovery Boiler	HPF	Electrostatic Precipitator with chimney height 85 Mtrs
Lime Kiln	HPF	Electrostatic Precipitator with chimney height 30 Mtrs
Spinning Stack	GRD	Cs ₂ Recovery System with chimney height 175 Mtrs
Sulphuric Acid Plant	GRD	Alkali Scrubber and Demister with chimney height 51 Mtrs
Carbon Di-Sulphide Plant	GRD	Klaus Kiln for Sulphur Recovery from CS ₂ plant and Alkali scrubber with chimney height 32 Mtrs
Power Plant Coal Fired Boiler	GRD	Electrostatic Precipitator with chimney height 110 Mtrs
Fugitive Emission		
	HPF & GRD	<ul style="list-style-type: none"> Motorized shutters are provided on machine to minimize the fugitive emissions Transfer of fly ash is/will be done through pneumatic conveying system & stored in closed silos.
		<ul style="list-style-type: none"> Wagon Tippler system installed for unloading the coal and transferring directly into boiler, which will reduce the dust emission at shop floor.
		<ul style="list-style-type: none"> Covered conveyor belts are/will be used for material transfer within the plant premises. Regular sweeping of all the roads and floors is being / will be done with the help of vacuum sweeping machine. Water sprinkling is being / will be done on roads near coal and fly ash storage areas. On regular basis Water spraying being done on roads where the heavy vehicles movements are taking place to minimize the fugitive emission. Dust collectors are being provided at transfer points to control fugitive emissions. Powder PAC replaced with liquid PAC to avoid fugitive emission at source. At Grasilene plant main gate entrance Road, Concrete Road made to minimize the fugitive emission.



Date: 16.09.2025

To,
The Assistant Executive Engineer
KNNL, No.4 canal Sub Division
Harihar

Dear Sir,

Sub: Renewal of water Agreement for Industrial use.

Ref: 1. Our letter Dated 13th May, 20252. Agreement Dated: 13th August, 2021

It is respectfully submitted that Grasim Industries Limited, Harihar Polyfibers had entered into an agreement dated 13th August 2021 with KNNL for lifting of water from the Tungabhadra River for its industrial use. The said agreement is valid from 01.07.2020 to 30.06.2025.

As the validity of the agreement was up to 30.06.2025, we had initiated the renewal process vide our letter dated 13.05.2025. We were informed by your good office that, as per the standard procedure, an initial site inspection of our plant would be conducted immediately after receipt of the renewal application. However, due to certain unavoidable circumstances, the inspection could not be taken up.

We request you to kindly intimate us regarding the schedule of the site inspection and advise us on the documents and fees required to be submitted, so that the renewal process can be carried out smoothly and without further delay.

We look forward to your kind consideration and early action in the matter.

Thanking You,

Yours faithfully,

For Grasim Industries Limited
(Harihar Polyfibers)

Subhas Kumar Sharma
Subhas Kumar Sharma
Vice President (F&C)
(Authorised Signatory)



CC: The Executive Engineer
KNNL, No.5, Bhadra Canal Division
Davangere. - 577001



Birla Cellulose
Fibres from Nature

Grasim Industries Limited
Unit : Harihar Polyfibers

Kumarapatnam 581123, Dist. Haveri, Karnataka.

W : www.grasim.com | E : grasimharihar@adityabirla.com | CIN : L17124MP1947PLC000410

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

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಜಸಂಇ.136:ಎಂಎಂಬಿ:2020 ಬೆಂಗಳೂರು ದಿನಾಂಕ: 25.03.2021. ರಲ್ಲಿ ಮೆ|| ಗ್ರಾಸಿಂ ಇಂಡಸ್ಟ್ರೀಸ್ ಲಿ., (ಹರಿಹರ ಪಾಲಿಫೈಬರ್) ಕುಮಾರಪಟ್ಟಣಂ, ರಾಣೆಬೆನ್ನೂರು ತಾಲ್ಲೂಕು, ಹಾವೇರಿ ಜಿಲ್ಲೆ, ತುಂಗಭದ್ರಾ ನದಿಯಿಂದ ಪ್ರತಿದಿನ ಸುಮಾರು 40 ಕ್ಯೂಸೆಕ್ಸ್ ನೀರನ್ನು ಮಾತ್ರ ಉಪಯೋಗಿಸಲು ಅನುಮತಿ ನೀಡಲಾಗಿದೆ.

ಷರತುಗಳು

- ಯಾವ ಉದ್ದೇಶಕ್ಕಾಗಿ ನೀರನ್ನು ಉಪಯೋಗಿಸಲು ಸಂಸ್ಥೆ ಅನುಮತಿ ನೀಡಲಾಗಿಲ್ಲ, ಅಂಥ ಉದ್ದೇಶಕ್ಕಾಗಿ ಉಪಯೋಗಿಸತಕ್ಕದ್ದು.
- ಕಂಪನಿ ಮತ್ತು ನೀರು ಸಂಗ್ರಹಣೆ ಮತ್ತು ಕೊಳವೆ ಬಾವಿಗಳಿಂದ ಲಭ್ಯವಾಗುವ ನೀರನ್ನು ಗಣನೀಯವಾಗಿ ದುರುಪಯೋಗಿಸುವಂತಿಲ್ಲ. ಉಳಿ ಪ್ರಮಾಣದ ನೀರನ್ನು ಮಾತ್ರ ನದಿಯಿಂದ ಪಡೆಯತಕ್ಕದ್ದು.
- ನದಿಯ ಮೂಲದಿಂದ ನೀರನ್ನು ಯಾವುದೇ ತಡೆಗೋಡೆ ನಿರ್ಮಿಸದೇ ಸ್ವಾಭಾವಿಕವಾಗಿ ಹರಿಯುವ ನೀರನ್ನು ಉಪಯೋಗಿಸಿಕೊಳ್ಳುವುದು. ನದಿ ಪಾತ್ರದ ನೀರಾವರಿ ವ್ಯವಸ್ಥೆಗೆ ಯಾವುದೇ ತೊಂದರೆ ಇಲ್ಲವೇ ಅಡಚಣೆಯನ್ನು ಉಂಟು ಮಾಡಬಾರದು.
- ನೀರಿನ ಬೇಡಿಕೆಯನ್ವಯ ವಿಸ್ತಾರಿತ ಸಾಮರ್ಥ್ಯದ ಪಂಪ್ ಮತ್ತು ಮೋಟಾರ್‌ಗಳನ್ನು ನದಿಯಿಂದ ನೀರೆತ್ತಲು ಅಳವಡಿಸಿಕೊಂಡಿರುವ ಬಗ್ಗೆ ಉಪ ವಿಭಾಗ ಮತ್ತು ವಿಭಾಗಾಧಿಕಾರಿಗಳಿಂದ ದೃಢೀಕರಣ ಪತ್ರಗಳನ್ನು ಪಡೆಯುವುದು.
- ಯಾವುದೇ ಕಾರಣದಿಂದ ಯಾವುದೇ ಸಮಯದಲ್ಲಿ ನದಿಯಲ್ಲಿ ನೀರು ಕಡಿ ಯಾದ ಕಂಪನಿ ಉಂಟಾಗಬಹುದಾದ ನಷ್ಟ ಸರ್ಕಾರದಿಂದ ಯಾವುದೇ ಪರಿಹಾರ ನೀಡಲಾಗುವುದಿಲ್ಲ. ನದಿಯಲ್ಲಿ ನೀರಿನ ಹರಿವು ಕಡಿಮೆಯಾದಾಗ ಕಂಪನಿಯು ನೀರಿನ ಪೂರೈಕೆಗಾಗಿ ಬೇರೆ ಸೂಕ್ತ ವ್ಯವಸ್ಥೆಯನ್ನು ಮಾಡಿಕೊಳ್ಳತಕ್ಕದ್ದು. ಯೋಜನೆಯಿಂದ ನದಿಯ ನೀರಿನ ಹರಿವಿನ ಪಥವು ಬದಲಾಯಿಸಿದಲ್ಲಿ ಇದರಿಂದ ಆಗುವ ದುಷ್ಪರಿಣಾಮ ಮತ್ತು ಅನಾಹುತಗಳಿಗೆ ಕಂಪನಿಯೇ ಜವಾಬ್ದಾರರು.
- ಕಂಪನಿಯು ನದಿಯಿಂದ ನೀರು ತರುವ ಸ್ಥಳಗಳ ಆಳಾಗದಲ್ಲಿ ಬರುವ ಡಿಯುವ ನೀರಿನ ಮಟ್ಟದ ಗಳಿ ಯಾವುದೇ ತೊಂದರೆಯಾಗದಂತೆ ಎಚ್ಚರ ವಹಿಸತಕ್ಕದ್ದು.
- ಯಾವುದೇ ಕಾರಣದಿಂದ ಸರ್ಕಾರ ಅಥವಾ ಅದರ ನಿರ್ದೇಶಿತ ಅಧಿಕಾರಿಗಳು ಕಂಪನಿ ನೀರನ್ನು ಉಪಯೋಗಿಸಲು ತಡೆಮಾಡಬಹುದು. ಇದಕ್ಕೆ ಸರ್ಕಾರ ಅಥವಾ ಅದರ ನಿರ್ದೇಶಿತ ಅಧಿಕಾರಿಗಳು ಯಾವುದೇ ಕಾರಣಗಳನ್ನು ನೀಡಬೇಕಿಲ್ಲ. ಇದರಿಂದ ಕಂಪನಿಗೆ ನಷ್ಟವಾದಲ್ಲಿ ಸರ್ಕಾರ ಜವಾಬ್ದಾರರಲ್ಲ ಹಾಗೂ ಯಾವುದೇ ನಷ್ಟವನ್ನು ಭರಿಸುವುದಿಲ್ಲ.
- ಕಂಪನಿಯು ಬಳಸಿದ ನೀರಿನ ಪ್ರಮಾಣವನ್ನು ಅಳತೆ ಮಾಡಲು ವಾಟರ್ ಮೀಟರ್ ಅನ್ನು ಅಳವಡಿಸುವುದು. ಇದರಲ್ಲಿ ಯಾವುದೇ ದುರಸ್ತಿ ಅಥವಾ ಬದಲಾವಣೆ ಮಾಡಬೇಕಾದಲ್ಲಿ ಕಂಪನಿಯವರು ಸಂಬಂಧಪಟ್ಟ ಅಧಿಕಾರಿಗಳ ಗಮನಕ್ಕೆ ತಂದು ತಮ್ಮ ಸ್ವಂತ ಖರ್ಚಿನಿಂದಲೇ ಮಾಡತಕ್ಕದ್ದು.
- ಕಂಪನಿಯವರು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಅಧಿಕಾರಿಯೊಂದಿಗೆ ಒಪ್ಪಂದ ಮಾಡಿಕೊಳ್ಳುವಾಗ Water meter, Water meter Calibration ಹಾಗೂ ಸಂಬಂಧಿಸಿದ Register Log ಬಗ್ಗೆ ಕಟ್ಟು ನಿಟ್ಟಾದ ಅಂಶದ ಬಗ್ಗೆ ಷರತ್ತನ್ನು ಒಪ್ಪಂದ ಪತ್ರದಲ್ಲಿ ಸೇರಿಸಿಕೊಳ್ಳತಕ್ಕದ್ದು.
- ಅಳವಡಿಸಿರುವ ವಾಟರ್‌ಮೀಟರ್ ಮತ್ತು ಗೇಜನ್ನು ತಪಾಸಣೆ ಮಾಡಲು ಇಲಾಖೆಯು ಗೊತ್ತುಪಡಿಸಿದ ಯಾವುದೇ ಅಧಿಕಾರಿಗೆ ಅವಕಾಶವಿರಬೇಕು.
- ಪಂಪ್ ಹೌಸ್ ನಲ್ಲಿ ಲಾಗ್‌ಬುಕ್ ಇಲ್ಲವೇ ಬುಕ್ ಆಫ್ ಅಕೌಂಟ್ಸ್ ಅನ್ನು ಪ್ರತಿ ನಿತ್ಯ ನಿರ್ವಹಿಸಬೇಕಿದ್ದು, ಇವುಗಳನ್ನು ಇಲಾಖಾ ತಪಾಸಣೆ / ಪರಿಶೀಲನೆಗೆ ಒದಗಿಸುವುದು. ಅವಶ್ಯವಿದ್ದಲ್ಲಿ ಅದರ ಜೆರಾಕ್ಸ್ ಪ್ರತಿಯನ್ನು ಒದಗಿಸುವುದು.
- ನೀರಿನ ಪ್ರಮಾಣವನ್ನು ಅಳತೆ ಮಾಡಲು ಅಳವಡಿಸಿರುವ ಯಾವುದೇ Mechanical or Electrical measurement device ಗಳನ್ನು ಕಾಲಕಾಲಕ್ಕೆ ಸರ್ಕಾರ ಅಥವಾ ಸರ್ಕಾರದ ನಿರ್ದೇಶಿತ ಅಧಿಕಾರಿಗಳು recalibrate or validate ಮಾಡಲು ತಿಳಿಸಬಹುದು. ಇಂಥ ಸಂದರ್ಭಗಳಲ್ಲಿ ಕಂಪನಿಯೇ ತನ್ನ ಸ್ವಂತ ಖರ್ಚಿನಿಂದ recognized or licensed institute ಗಳಿಂದ ಅಗತ್ಯ ಪರೀಕ್ಷೆಗಳನ್ನು ಮಾಡಿಸಿಕೊಳ್ಳಬೇಕು.
- ಬೇಡಿಕೆಗಿಂತ ಹೆಚ್ಚಿನ ಪ್ರಮಾಣದ ನೀರನ್ನು ನದಿಯಿಂದ ಎತ್ತಿದಲ್ಲಿ ಪೆನಾಲ್ಟಿ ವಿಧಿಸಲಾಗುವುದು ಇಲ್ಲವೇ ಪರವಾನಗಿಯನ್ನು ರದ್ದುಗೊಳಿಸಲಾಗುವುದು.

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14. ಕಂಪನಿಯು ಉಪಯೋಗಿಸುವ ನೀರಿನ ದರವನ್ನು ಕಂಪನಿಯು draw ಮಾಡುವ gross water quantity ಮೇಲೆ (drawal point ಹತ್ತಿರ) ವಿಧಿಸಲಾಗುವುದು. ಈ ನೀರನ್ನು ರವಾನಿಸುವಾಗ ನೀರಿನ ನಷ್ಟದ (losses) ಬಗ್ಗೆ ಸರ್ಕಾರವಾಗಲಿ/ಯೋಜನಾಧಿಕಾರಿಯಾಗಲಿ ಜವಾಬ್ದಾರಲ್ಲ.
15. ಕಂಪನಿಯು ಕಟ್ಟಿದ ಯಾವುದೇ ಕಟ್ಟಡಗಳು (Mechanical, Civil and Electrical) ಕುಸಿದು ಬಿದ್ದು ನೀರಾವರಿಗೆ ಅಥವಾ ಕುಡಿಯುವ ನೀರಿಗೆ ಅಥವಾ ಯಾವುದೇ ರೀತಿಯ ತೊಂದರೆಯಾದಲ್ಲಿ, ಸಂಭವಿಸಬಹುದಾದ Material & Financial ನಷ್ಟಗಳನ್ನು ಕಂಪನಿಯೇ ಭರಿಸಬೇಕಾಗುವುದು. ಇಂಥಹ ನಷ್ಟಗಳ ಮೊತ್ತವನ್ನು ಕಂಪನಿಗೆ ಯಾವುದೇ ಸೂಚನೆ ನೀಡದೇ ನಿರ್ಧರಿಸಲಾಗುವುದು.
16. ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳುವಾಗ ಹಾಗೂ ನಂತರ ಸರ್ಕಾರ ಹಾಗೂ ಖಾಸಗಿ ಆಸ್ತಿ - ಪಾಸ್ತಿ ಹಾನಿಯಾಗದಂತೆ, ಎಚ್ಚರವಹಿಸತಕ್ಕದ್ದು. ಒಂದು ಪಕ್ಷ ಯಾವುದೇ ಹಾನಿಯಾದಲ್ಲಿ ಕಂಪನಿಯೇ ನಷ್ಟದ ವೆಚ್ಚವನ್ನು ಭರಿಸತಕ್ಕದ್ದು.
17. ಕಂಪನಿಯು ನದಿಯಿಂದ ನೀರು ಪ ಯಲು ಳ ಗಳನ್ನು ಅಳವಡಿಸುವಾಗ ಮಾರ್ಗ ಮಧ್ಯದಲ್ಲಿ ವಿವಿಧ ಇಲಾ ಗಳಿ ಸೇರಿದ ಭೂಮಿ ಸಂಬಂಧ ಆಯಾ ಇಲಾಖೆ ಅನುಮತಿಯನ್ನು ಪಡೆಯತಕ್ಕದ್ದು.
18. ಕಂಪನಿಯು ಕೆಲಸಗಳಿಗೆ ಬೇಕಾಗುವ ಸರ್ಕಾರಿ ಜಮೀನು, ಇತರೆ ಆಸ್ತಿ ಅಥವಾ ಇತ ಅನುಕೂಲಗಳನ್ನು ಸರ್ಕಾರದಿಂದಾಗಲೀ ಅಥವಾ ಖಾಸಗಿಯವರಿಂದಾಗಲೀ, ನಿಗದಿಪಡಿಸಿದ ದರಗಳ ಮೊತ್ತವನ್ನು, ಕೆಲಸಗಳನ್ನು ಪ್ರಾರಂಭಿಸುವ ಮೊದಲೇ ಭರಿಸಿ ಕಂಪನಿಯು ಪಡೆಯಬೇಕು, ಈ ವಿಷಯದಲ್ಲಿ ಯಾವುದೇ ತಂಟೆ ತಕರಾರನ್ನು ಕಂಪನಿಯು ತೆಗೆಯಬಾರದು. ಖಾಸಗಿ ಜಮೀನುಗಳು ನೀರಿನಲ್ಲಿ ಮುಳುಗಡೆಯಾದಲ್ಲಿ ಅಥವಾ ಕಂಪನಿಯ ಕೆಲಸಗಳಿಗೆ ಬೇಕಾದಲ್ಲಿ ಕಂಪನಿಯೇ ಮೊತ್ತವನ್ನು ನೀಡಿ ಪಡೆಯಬೇಕು. ಖಾಸಗಿ ಜಮೀನುಗಳನ್ನು ವಶಪಡಿಸಿಕೊಳ್ಳುವಲ್ಲಿ ತಂಟೆ ತಕರಾರುಗಳು ಉದ್ಭವಿಸಿದಲ್ಲಿ ಕಂಪನಿಯೇ ಖಾಸಗಿಯವರ ಹತ್ತಿರ ತನ್ನ ಸ್ವಂತ ಖರ್ಚಿನಲ್ಲಿ ಇತ್ಯರ್ಥ ಮಾಡಿಕೊಳ್ಳಬೇಕು. ಸರ್ಕಾರವು ಈ ವಿಷಯದಲ್ಲಿ ಯಾವುದೇ ತರಹದ ಜವಾಬ್ದಾರಿಯನ್ನು ತೆಗೆದುಕೊಳ್ಳುವುದಿಲ್ಲ. ಕಂಪನಿಯು ಯೋಜನೆಯನ್ನು ನಿರ್ಮಿಸುವಾಗ ಅಗದ ಮಣ್ಣು ಮತ್ತು ಇತರ ಸಾಮಗ್ರಿಗಳನ್ನು ಯಾವುದೇ ಕಾರಣಕ್ಕೂ ಸರ್ಕಾರಿ ಜಾಗದಲ್ಲಿ ಸಂಗ್ರಹಣೆ ಮಾಡಬಾರದು. ಕಂಪನಿಯು ತನ್ನ ಉಪಯೋಗಕ್ಕೆ ಸ್ವಾಧೀನಪಡಿಸಿಕೊಂಡ ಜಾಗದಲ್ಲಿ ಮಾತ್ರ ಸಂಗ್ರಹಣೆ ಮಾಡಬಹುದು.
19. ಕಂಪನಿಯು ಅದರ ಲಸ ಕಾರ್ಯಗಳನ್ನು ಅದು ಸ್ವಾಧೀನಪಡಿಸಿ ಂಡ ಭೂಮಿಯಲ್ಲಿ ಿ ಮಾಡತಕ್ಕದ್ದು.
20. ಸರ್ಕಾರವು ಕಾಲ ಕಾಲಕ್ಕೆ ನಿಗದಿಪಡಿಸಿದ ದರದಂ ನೀರಿನ ದರವನ್ನು ಕಂಪಿಯು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಗೆ ನಿಗದಿಪಡಿಸಿದ ಅವಧಿಯೊಳಗೆ ಮಾಹೆಯಾನ ಪಾವತಿಸುವುದು.
21. ಕಂಪನಿಯು ಕಾಲ ಕಾಲಕ್ಕೆ ಸರ್ಕಾರವು ನಿಗದಿಪಡಿಸುವ ವಾರ್ಷಿಕ ಹಾಗೂ ಗೌರವ ಧನವನ್ನು ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ ಪಾವತಿಸತಕ್ಕದ್ದು.
22. ನೀರಿನ ಕೊರತೆ ಉಂಟಾದಲ್ಲಿ ನೀಡಿರುವ ಅನುಮತಿಯನ್ನು ಹಿಂಪ ಯುವ ಅಧಿಕಾರವು ಇಲಾ ಇರುತ್ತದೆ.
23. ಕಂಪನಿಯು ನೀರನ್ನು ಉಪಯೋಗಿಸಿ ಹಳ್ಳಕ್ಕೆ/ನದಿಗೆ ವಾಪಸ್ಸು ಬಿಡುವ ಸಮಯದಲ್ಲಿ ಸರ್ಕಾರ ವಿಧಿಸುವ Standard ಗೆ (CPHEO/BIS/KPSCB standard) treat ಮಾಡಿ ಬಿಡತಕ್ಕದ್ದು. ಹಾಗೆ ಮಾಡದೇ ಇದ್ದ ಪಕ್ಷದಲ್ಲಿ ಕಂಪನಿಗೆ ನೀಡಿದ ಪರವಾನಿಗೆಯನ್ನು ಸರ್ಕಾರವು ಯಾವುದೇ ಮುನ್ನೂಚನೆ ಇಲ್ಲದೆ ಹಿಂದಕ್ಕೆ ಪಡೆಯಬಹುದು.
24. ಕಾಮಗಾರಿಗಳನ್ನು ನಿರ್ವಹಿಸುವಾಗ ಹಾಗೂ ಿಜ ಕಾರ್ಯ ರೂಪದಲ್ಲಿದ್ದಾಗ, ಯಾವುದೇ ವಿವಾದಗಳು ಉದ್ಭವಿಸಿದ , ಆ ವಿವಾದಗಳನ್ನು ಕಂಪನಿಯೇ ಇತ್ಯರ್ಥ ಮಾಡಿಕೊಳ್ಳಬೇಕು. ಈ ಇತ್ಯರ್ಥದಲ್ಲಿ ಸರ್ಕಾರಕ್ಕೆ ವೆಚ್ಚವಾದರೆ ಅದನ್ನು ಕಂಪನಿಯು ಸರ್ಕಾರಕ್ಕೆ ಭರಿಸತಕ್ಕದ್ದು.
25. ಸಂಬಂಧಪಟ್ಟ ಇಲಾ ಗಳಾದ ಅರಣ್ಯ, ಪರಿಸರ ಮತ್ತು ಜೀವಶಾಸ್ತ್ರ ಮಾಲೀನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ ಹಾಗೂ ಇತ ಇಲಾಖೆಗಳಿಂದ ಎಲ್ಲಾ ಅಗತ್ಯ ನಿರಾಪೇಕ್ಷಣಾ/ಪರವಾನಗಿಯನ್ನು ಪಡೆದು ನಂತರವೇ ಪ್ರಸ್ತಾಪಿತ ಘಟಕವನ್ನು ಕಾರ್ಯರೂಪಕ್ಕೆ ತರಲು ಕಂಪನಿಯು ಕ್ರಮ ವಹಿಸತಕ್ಕದ್ದು.
26. ಅರಣ್ಯ, ಪರಿಸರ ವನ್ಯ ಜೀವಿಗಳಿ ಅಥವಾ ಇನ್ಯಾವು ಿ ನಷ್ಟ ಅಥವಾ ಅಪಾಯ ಉಂಟಾದಲ್ಲಿ ಕಂಪನಿಯು ಕಾನೂನಿನ ಕ್ರಮಗಳಿಗೆ ಗುರಿಯಾಗುವುದಲ್ಲದೇ, ಇದರಿಂದ ಆಗುವ ನಷ್ಟವನ್ನು ಸರ್ಕಾರ ಅಥವಾ ಅದರ ನಿಯೋಜಿತ ಅಧಿಕಾರಿಗಳು ನಿಗದಿಪಡಿಸುವ ಪ್ರಮಾಣ ಮತ್ತು ರೀತಿಯಲ್ಲಿ ಕಂಪನಿಯು ತುಂಬಬೇಕು.
27. ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾ ಹಾಗೂ ಇತ ಇಲಾ ಗಳು ಕಾಲ ಕಾಲಕ್ಕೆ ನಿಗದಿಪಡಿಸಬಹುದಾದ ಸೇವಾ ಶುಲ್ಕಗಳು ಮತ್ತು ಇತ ಕರಗಳನ್ನು ತಪ್ಪದೇ ಆಯಾ ಇಲಾಖೆಗೆ ಕಂಪನಿ ಪಾವತಿಸತಕ್ಕದ್ದು.

SUBHAS K. SHARMA

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VP (F&C)



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28. ಈ ಪರವಾನಗಿಯು 05 ವರ್ಷಗಳ ಅವಧಿಗೆ ಚಾಲ್ತಿಯಲ್ಲಿರುತ್ತದೆ. ತದನಂತರ ಅವಧಿಗೆ ಅವಶ್ಯವಿದ್ದಲ್ಲಿ ನೀರಿನ ಲಭ್ಯತೆಯನುಸಾರ ಪರವಾನಗಿಯನ್ನು ನವೀಕರಿಸಲಾಗುವುದು.
29. ನೀರಿನ ಬಳಕೆಯ Royalty ಯನ್ನು ಸರ್ಕಾರವು ಕಂಪನಿಗೆ ಮುನ್ನೂಚನೆ ಇಲ್ಲದೆ ಹೆಚ್ಚಿಸಬಹುದು.
30. ಈ ಯ ಅನುಷ್ಠಾನದಿಂದ ಸ್ಥಳೀಯರಿ ಯಾವು ಿಂದ ಯಾಗುವುದಿಲ್ಲ ಎಂಬ ಅಂಶವನ್ನು ಖಚಿತಪಡಿಸಿ ಳ್ಳು ಕು.
31. The Government or its designated officer will determine measurements of water used. ಈ ರೀತಿ ಸರ್ಕಾರವು ಅಥವಾ ಅದರ designated officer ಅಳತೆ ಮಾಡಿದ ನೀರಿನ ಪ್ರಮಾಣಕ್ಕೆ ಕಂಪನಿಯು ಮೊತ್ತವನ್ನು (Water Charges) ಸಂಬಂಧಪಟ್ಟ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರವರಿಗೆ ಭರಿಸಬೇಕಾಗುತ್ತದೆ. ಈ ಮೊತ್ತವನ್ನು ಸರ್ಕಾರವು ಕಂಪನಿಗೆ ಮುನ್ನೂಚನೆ ಇಲ್ಲದಂತೆ ಯಾವುದೇ ಸಮಯದಲ್ಲಿ ಹೆಚ್ಚಿಸಬಹುದು ಇದಕ್ಕೆ ಕಂಪನಿಯು ಯಾವುದೇ ತಕರಾರಿಲ್ಲದೆ ಪಾವತಿಸಬೇಕು.
32. ನೀರನ್ನು ಬಳಸಿಕೊಂಡ ಪ್ರಮಾಣವನ್ನು ಪ್ರತಿ ಮಾಹೆಯ 1ನೇ ತಾರೀಖಿ ಳಗೆ ವಿಭಾಗ ಕಛೇರಿಗೆ ವಿವರಗಳನ್ನು ಹಾಗೂ ಬಳಸಿಕೊಂಡ ನೀರಿನ ಪ್ರಮಾಣಕ್ಕೆ ಪ್ರತಿ ಮಾಹೆಯ 5ನೇ ತಾರೀಖಿನೊಳಗೆ ಹಣ ಪಾವತಿಸಿದ ಚಲನ್‌ಗಳನ್ನು ವಿಭಾಗ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸುವುದು.
33. ಸರ್ಕಾರದ ಜಮೀನಿನಲ್ಲಿರುವ ಯಾವು ಿ ವಸ್ತುಗಳನ್ನು ಕಂಪನಿಯು ಯಾವು ಿ ಲಸಗಳಿ ಉಪಯೋಗಿಸಿದಲ್ಲಿ ಇವುಗಳ Royalty ಅನ್ನು ಕಂಪನಿಯು ಸರ್ಕಾರವು ನಿಗದಿಪಡಿಸಿದ ರೀತಿಯಲ್ಲಿ ಸರ್ಕಾರಕ್ಕೆ ಯಾವುದೇ ತಕರಾರುಗಳಿಲ್ಲದೆ ಪಾವತಿಸತಕ್ಕದ್ದು.
34. ಕಾಮಗಾರಿಯನ್ನು ಪ್ರಾರಂಭಿಸುವ ಮುನ್ನ ಅಕ್ಕಪಕ್ಕದ ಮಾ ಿಕರಿಂದ ನಿರಾಪೇಕ್ಷಣಾ ಪತ್ರವನ್ನು ಪ ಯತಕ್ಕದ್ದು. ಮತ್ತು ಕಾಮಗಾರಿಯ ಸ್ಥಳದ ಬಳಿಯ ಹಳ್ಳದ ದಂಡೆಗಳಿಗೆ ಸೂಕ್ತ ರಕ್ಷಣಾ ಗೋಡೆಗಳನ್ನು ಕಂಪನಿಯು ತನ್ನ ವೆಚ್ಚದಲ್ಲಿ ನಿರ್ಮಿಸತಕ್ಕದ್ದು.
35. ಕಂಪನಿಯು ಿಲಿನ ಯಾವು ಿ ನಿಬಂಧ ಗಳನ್ನು ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ ಯಾವು ಿ ಮುನ್ನೂಚನೆ ನೀಡ ಿ ಅನುಮತಿಯನ್ನು ಹಿಂದಕ್ಕೆ ಪಡೆಯಲಾಗುವುದು. ಅರ್ಜಿದಾರರು. ಸಲ್ಲಿಸಿರುವ ಮಾಹಿತಿಯು ತಪ್ಪಾಗಿದ್ದಲ್ಲಿ, ಅಪೂರ್ಣವಿದ್ದಲ್ಲಿ ಅಥವಾ ಕೆಲವೊಂದು ಅವಶ್ಯ ಮಾಹಿತಿಯನ್ನು ಮರೆಮಾಚಿದ್ದಲ್ಲಿ, ಕಂಪನಿಯು ಜವಾಬ್ದಾರಿಯ ಮೇಲೆ ಅನುಮತಿಯು ತಾನಾಗೇ ರದ್ದಾಗುವುದು. ಕಂಪನಿಯು ಮೇಲಿನ ಯಾವುದೇ ನಿಬಂಧನೆಗಳನ್ನು ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ ಯಾವುದೇ ಮುನ್ನೂಚನೆ ನೀಡದೆ ಅನುಮತಿಯನ್ನು ಹಿಂದಕ್ಕೆ ಪಡೆಯಲಾಗುವುದು ಹಾಗೂ ಯಾವುದೇ ಕಾರಣದಿಂದ ಸರ್ಕಾರಕ್ಕೆ ಆಗುವ ನಷ್ಟವನ್ನು ಕಂಪನಿಯಿಂದ ಭರಿಸಿಕೊಳ್ಳುವ ಅಧಿಕಾರವನ್ನು ಸರ್ಕಾರವು ಹೊಂದಿರುತ್ತದೆ.
36. ಭವಿಷ್ಯದಲ್ಲಿ ಯಾವುದೇ ಕೆಲಸಗಳನ್ನು ನೀರಿನ ಶೇಖರಣೆ ಉಪಯೋಗ ಮತ್ತು ಇನ್ಯಾವುದೇ ಕಾರಣಗಳಿಗಾಗಿ ಸರ್ಕಾರವು ಕಂಪನಿಯು ಅನುಮತಿಯಿಲ್ಲದೆ ತೆಗೆದುಕೊಳ್ಳಬಹುದು. ಈ ರೀತಿಯ ಕೆಲಸಗಳನ್ನು ಕೈಗೆತ್ತಿಕೊಂಡಲ್ಲಿ ಕಂಪನಿಯು ಉತ್ಪಾದನೆಗೆ ಯಾವುದೇ ರೀತಿಯ ತೊಂದರೆಯಾದಲ್ಲಿ ಸರ್ಕಾರವು ಯಾವುದೇ ರೀತಿ ಜವಾಬ್ದಾರರಲ್ಲ. ಹಾಗೂ ಕಂಪನಿಯು ಯೋಜನೆಯಾಗಲಿ ಅಥವಾ ಕಂಪನಿಯ ಆಸ್ತಿ ಮುಳುಗಡೆಯಾದಲ್ಲಿ ಅಥವಾ ಇನ್ಯಾವುದೇ ತೊಂದರೆಯಾದಲ್ಲಿ, ಸರ್ಕಾರವು ಜವಾಬ್ದಾರರಲ್ಲ. ಅಥವಾ ಯಾವುದೇ ಪರಿಹಾರವನ್ನು ಸರ್ಕಾರವು ನೀಡುವುದಿಲ್ಲ. ಈ ಕೆಲಸ ಕಾರ್ಯಗಳನ್ನು ಸರ್ಕಾರವು ಕಂಪನಿಯ ಯೋಜನೆಯ ಮೇಲ್ದಿಗ್ಗದಲ್ಲಾಗಲಿ ಅಥವಾ ಕೆಳಭಾಗದಲ್ಲಾಗಲಿ ಕೈಗೆತ್ತಿಕೊಳ್ಳಬಹುದು.
37. ಈ ಯೋಜನೆಯ weir ನಲ್ಲಿ ಶೇಖರಣೆ ಮಾಡುವ ಹಿನ್ನೀರಿನಿಂದ Communication problem ಅಂದರೆ Surface transport, electrical, electronics ಅಥವಾ ಇನ್ಯಾವುದೇ ರೀತಿಯ ಅಡಚಣೆಯಾದಲ್ಲಿ ಕಂಪನಿಯೇ ತನ್ನ ಖರ್ಚಿನಲ್ಲಿ New communication network ಅನ್ನು ಸರ್ಕಾರ ನಿಗದಿಪಡಿಸುವ ರೀತಿಯಲ್ಲಿ ಕಂಪನಿಯು ತಂಟೆ ತಕರಾರುಗಳಿಲ್ಲದೆ ಮಾಡಬೇಕು.
38. ಕಂಪನಿಯ ಯೋಜನಾ ವರದಿಯಲ್ಲಿರುವ ವಿನ್ಯಾಸಗಳನ್ನು ಹೊರತುಪಡಿಸಿದಲ್ಲಿ ಅಥವಾ ಮಾರ್ಪಾಡು ಮಾಡಿದಲ್ಲಿ, ಕಂಪನಿಯು ಸರ್ಕಾರಕ್ಕೆ ಅಥವಾ ಸರ್ಕಾರದಿಂದ ನೇಮಕವಾದ ಅಧಿಕಾರಿಗೆ ಮುನ್ನೂಚನೆ ನೀಡುವುದು ಹಾಗೂ ಇಂಥ ಮಾರ್ಪಾಡುಗಳಿಗೆ ಸರ್ಕಾರದಿಂದ ಪರವಾನಗಿ ಪಡೆಯಬೇಕು. ಅವಶ್ಯವಿದ್ದಲ್ಲಿ ಕಂಪನಿಯು ಹೊಸ Full agreement or Supplementary agreement ಗಳನ್ನು ಮಾಡಿಕೊಳ್ಳಬೇಕು.

For GRASIM INDUSTRIES LTD.,
Unit: Harihar Polyfibers

Subhas Kumar Sharma

SUBHAS K. SHARMA
VP (F&C)



39. ಸ್ಥಾಪನೆಯಾಗಲಿರುವ ಘಟಕದ ಎಲ್ಲಾ ಅಂಗಗಳನ್ನು (Electrical, Mechanical, Civil, Components, / Structures etc.,) ಕಂಪನಿಯು ಅನುಮೋದಿತ ವಿನ್ಯಾಸಗಳಂತೆ ಹಾಗೂ ನಿಗದಿತ ಗುಣಮಟ್ಟದಂತೆ ಮಾಡಲಾಗಿದೆಯೇ ಎಂಬುದರ ಬಗ್ಗೆ ಸಂಬಂಧಪಟ್ಟ ಸರ್ಕಾರಿ ಇಲಾಖೆ (ಜಲ ಸಂಪನ್ಮೂಲ ಅಭಿವೃದ್ಧಿ ಸಂಸ್ಥೆ, ಕ್ರೆಡಲ್ ಹಾಗೂ ಕೆ.ಪಿ.ಟಿ.ಸಿ.ಎಲ್) ಗಳಿಂದ ದೃಢೀಕರಿಸಿದ ನಂತರವೇ ಯೋಜನೆಯನ್ನು ಚಾಲನೆಗೊಳಿಸತಕ್ಕದ್ದು.
40. ಮೇಲಿನ ನಿಬಂಧನೆಗಳ , ಸ್ಥಳೀಯವಾಗಿ ಅಗತ್ಯವಿರುವ ಇತರ ಯಾವುದೇ ನಿಬಂಧನೆಗಳನ್ನು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸಂಬಂಧಪಟ್ಟ ಅಧಿಕಾರಿಯವರು ಸೂಚಿಸಿದಲ್ಲಿ, ಅವುಗಳನ್ನು ಅಳವಡಿಸಿ ಸೂಕ್ತ ನೂತನ ಕರಾರನ್ನು ಕಂಪನಿಯವರು ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಅಧಿಕಾರಿಗಳೊಂದಿಗೆ ಮಾಡಿಕೊಳ್ಳತಕ್ಕದ್ದು. (ಹಿಂದಿನ ನೀರಿನ ಹಂಚಿಕೆಯೂ ಸೇರಿದಂತೆ) ಯೋಜನೆಯನ್ನು ಕಾರ್ಯಗತಗೊಳಿಸುವ ಮುನ್ನಾ ಜಲ ಸಂಪನ್ಮೂಲ ಇಲಾಖೆಯ ಸಂಬಂಧಪಟ್ಟ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರವರೊಂದಿಗೆ ಮೇಲಿನ ಎಲ್ಲಾ ನಿಬಂಧನೆಗಳನ್ನು ಒಳಪಡಿಸಿ ಸೂಕ್ತ ಕರಾರನ್ನು ಮಾಡಿಕೊಳ್ಳತಕ್ಕದ್ದು. ಮತ್ತು ಅವರ ನಿರ್ದೇಶನದ ಅನುಸಾರ ಯೋಜನೆಯನ್ನು ಕಾರ್ಯಗತಗೊಳಿಸತಕ್ಕದ್ದು.
- ಎ) ಕರ್ನಾಟಕ ಮಾಲೀನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿಯಿಂದ ನಿರ್ದೇಶನ ಪತ್ರವನ್ನು ಅವಧಿ ಮೀರುವ ಮುನ್ನ ಕಾಲಕಾಲ ಪಡೆದು ಈ ಕಛೇರಿಗೆ ಸಲ್ಲಿಸತಕ್ಕದ್ದು.
- ಬಿ) ಭದ್ರತಾ ಠೇವಣಿ ರೂಪದಲ್ಲಿ ರೂ. 3,00,000-00 ಗಳನ್ನು ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ಕೆ.ನೀ.ನಿ.ನಿ, ನಂ. 5 ಭದ್ರಾ ನಾಲಾ ವಿಭಾಗ, ದಾವಣಗೆರೆ ಇವರ ಹೆಸರಿಗೆ ಅಡಮಾನ ಮಾಡುವುದು. ಹಾಗೂ ಭದ್ರತಾ ಠೇವಣಿ ಅವಧಿ ಮುಗಿಯುವ ಮುನ್ನ ಕ್ರಮವಾಗಿ ನವೀಕರಿಸತಕ್ಕದ್ದು. (A/C No. 40304607036 Date: 20.07.2021 State Bank of India, Kumarapatnam)
- ಸಿ) ಕರಾರನ್ನು ದಿನಾಂಕ: 01.07.2020 ರಿಂದ 30.06.2025 ರವರೆಗೆ ನವೀಕರಿಸಿಕೊಳ್ಳಲಾಗಿದ್ದು, ಅವಧಿಗೆ ಮುನ್ನ ಕರಾರು ನವೀಕರಿಸಿಕೊಳ್ಳಲು ಇಲಾಖಾ ನಿಯಮಾನುಸಾರ ಕ್ರಮವಹಿಸತಕ್ಕದ್ದು.
- ಡಿ) ಸರ್ಕಾರದಿಂದ/ನಿಗಮದಿಂದ ಕಾಲಕಾಲಕ್ಕೆ ಸೂಚಿಸಲಾಗುವ ನಿಯಮ/ಷರತ್ತುಗಳಿಗೆ ಬದ್ಧರಾಗಿರತಕ್ಕದ್ದು.
- ಇ) ನದಿಯಲ್ಲಿ ನೀರಿನ ಹರಿಯುವಿಕೆಯ ಲಭ್ಯತೆಯ ಆಧಾರದ ಮೇಲೆ ಕುಡಿಯುವ ನೀರಿಗಾಗಲೀ ಅಥವಾ ನೀರಾವರಿಗಾಗಲೀ ತೊಂದರೆಯಾಗದಂತೆ ನದಿಯ ನೀರಿನ ಹರಿಯುವಿಕೆಗೆ ಯಾವುದೇ ತಡೆಯೊಡ್ಡದೆ, ನದಿಯ ಪಥವನ್ನು ಬದಲಾಯಿಸದೇ ಕೈಗಾರಿಕಾ ಉದ್ದೇಶಕ್ಕೆ ನೀರನ್ನೆತ್ತಿಕೊಳ್ಳತಕ್ಕದ್ದು.
- ಎಫ್) ಸರ್ಕಾರವು ಕಾಲಕಾಲಕ್ಕೆ ನಿಗದಿಪಡಿಸಿದ ನೀರಿನ ದರವನ್ನು ಪ್ರತಿ ತಿಂಗಳು ಸಮಯಕ್ಕೆ ಸರಿಯಾಗಿ ಪಾವತಿಸತಕ್ಕದ್ದು. ತಪ್ಪಿದ್ದಲ್ಲಿ 1964 ಮತ್ತು 1965ರ ಕರ್ನಾಟಕ ನೀರಾವರಿ ಕಾಯ್ದೆಯನ್ವಯ ಕ್ರಮ ತೆಗೆದುಕೊಂಡು ದಂಡ ವಿಧಿಸಲಾಗುವುದು.
- ಜಿ) ಮೇಲಿನ ಎಲ್ಲಾ ನಿಯಮಗಳನ್ನು ಚಾಚೂ ತಪ್ಪದೇ ಪಾಲಿಸತಕ್ಕದ್ದು. ಒಂದು ವೇಳೆ ಯಾವುದೇ ನಿಯಮವನ್ನು ಉಲ್ಲಂಘಿಸಿದಲ್ಲಿ ಸದರಿ ಕರಾರು ತನ್ನಂತಾನೇ ರದ್ದಾಗುವುದು.

For GRASIM INDUSTRIES LTD.
Unit: Harihar Polyfibers

Subhas Kumar Sharma

SUBHAS K. SHARMA

ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು,

ಮೆ|| ಗ್ರಾಸಿಂ ಇಂಡಸ್ಟ್ರೀಸ್ ಲಿ.,

(ಹರಿಹರ ಪಾಲಿಫೈಬರ್)

ದಾಣೆಬೆನ್ನೂರು.

ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್,

ಕೆ.ನೀ.ನಿ.ನಿ, ನಂ. 5 ಭದ್ರಾ ನಾಲಾ ವಿಭಾಗ,

ದಾವಣಗೆರೆ.

ಸಾಕ್ಷಿದಾರರು

Chaitanya Bann

(Signature)

Reservoirs



Figure Reservoir 1



Figure Reservoir 2

Annexure 7

Strom water channel



Green Belt Development







List of Environmental Project Implemented with One- time Investment

Sl No.	Name of the Environmental Projects Implemented From FY19 to FY25	Implemented Year	One Time expenditure Cost Rs. In Lakhs
1	Lime injection system for CFBC Boilers to ensure reduction of SOX emission from CFBC Boilers.	FY 19	255.00
2	Magnetic Flow meters for monitoring of department wise water consumption and better control to avoid loss of water.	FY19	25.99
3	Replacement of existing concrete drain with Closed conduit for effluent from Grasilene ETP to HPF ETP in the view of safety .	FY20	47.19
4	Gas detectors at CS2 storage tanks & Refinery section to take safety control measures immediately.	FY 20	11.73
5	Installation of Level transmitter for lime storage Tank to avoid the overflow and loss of resources .	FY19	4.48
6	SOX, NOX And CO analyser for AFBC Boiler for better monitoring and control.	FY 20	23.57
7	Level indicator for grit chamber better monitoring and control.	FY20	1.86
9	Replacement of Biological Reactor # 2 & 3 Aeration air blower 1 & 2 to improve the efficiency of Biological Reactor.	FY20	6.39
10	Replacement of OCEMS (Online continuous Effluent Monitoring Station) for measuring with more accuracy.	FY 20	15.00
11	Enhancement ClO2 plant at Pulp mill to minimize the usage of Elemental Chlorine	FY 20	129.00
12	Installation of Biogas Plant at Staff colony for generation of Biogas by utilizing kitchen Waste and food waste which is generated of resident's households.	FY 20	20.00
13	Upgradation and repair of Biogas Reactor #1 to increase the Biogas generation and minimize the COD&BOD load on ETP.	FY 21	65.00
14	Construction of drain as a part of Rainwater collection and reusing the water during non monsoon season.	FY20	20.00
15	Construction of Water reservoir with storage capacity 16lakhs m3 to pump & store the water from River during peak monsoon to avoid pumping of water during River lean stream. Also to collect rain water with capturing area 208000m2 .	FY21	3,751.00
16	Greenbelt Development activity	FY22	18.0
17	Construction of Coal shed to store the coal	FY22	204.00
18	Greenbelt Development activity	FY-23	10.0
19	Installation of 3 No's Jet aerators @ GRD ETP	FY-23	28.78

20	Greenbelt Development activity	FY23	10.0
21	At Grasilene Division in Baling press section , water being used for oil cooling system and same water reusing by recirculation in cooling tower and saved 100KLD per day water	FY24	1.0
22	At Grasilene Division in Acid plant , Installed two cooling towers for cooling & reusing the PHE outlet Soft water .	FY24	13.0
23	At Grasilene Division power plant installed VFD for ID fan and Primary Air Fan and Saved around 11000KWH power per day and reduce the consumption of fossil fuel .saved 11000 KW	FY24	685.0
24	At Harihar Polyfibers , rain harvesting system adopted for non-processing area .	FY24	48.0
25	At Grasilene Division , 624 No's of LED fittings installed to save the power consumption	FY24	9.92
26	At Harihar Polyfibers, 206 No's Of LED fittings installed to save the power consumption	FY24	2.96
27	AT NETP area rainwater surrounding to tertiary clarifier catchment system adopted.	FY.25	30.0
28	New Sox And NoX analyzer installed for Recovery Boiler and Lime Kin	FY.25	48.0
29	At GRD ETP enhancing diffuser aeration system in Polishing Pond	FY.25	72.36
30	Installation Mix charge lye cooling Chillers in Viscose 1 No Phase I to reduce the power consumption	FY.25	129.03
31	Replacement of Aluminum bus bars in 3 CS2 Furnaces (Phase –I) to reduce the power consumption	FY.25	14.87
32	Installation of energy Efficient of New Soft Water pump#1 to reduce the power consumption	FY.25	8.69
33	Installation of VFDs for Wal seal Blower Motors of CFBC#2 boiler to reduce the power consumption	FY.25	34.04
34	Retrofitting & OH of CE Pump-2 for Energy Efficiency enhancement – to reduce the power consumption	FY.25	8.00
35	VFD for Washing Hot water pump - to reduce the power consumption	FY.25	8.00
36	Vermicompost Bed	FY.25	5.36
37	Installation of VFDs for Wal seal Blower Motors of CFBC#1 boiler to reduce the power consumption	FY25	16.93
38	Installation for VDF for CD Plant cooling tower fan to reduce power consumption	FY25	5.48
39	Replacement of Aluminum bus bars in 3 CS2 Furnaces (Phase –2) to reduce the power consumption	FY25	14.87
40	Construction of Shed for Sulphur Hard mass Sludge Storage	FY25	23.06
41	Installation of Coal dust suppression system	FY25	16.39
42	New Anaerobic Lagoon (NAL) No.1 desilting.	FY25	69.90
		Total	5911.85

Firefighting Facilities



Occupational Health Surveillance Data

Health check-up status of Employees

Grasilene Division

S. no	Department	Test	No. of Employees	No. of Employees Covered
1	Viscose	PFT	94	92
2	Spinning	PFT	163	154
3	CS2 / H2SO4, Elect. & Inst.	PFT	48	48
4	Power Plant + Contractor	Audiometry & PFT	54	54
5	Coal Plant + Contractor	PFT	14	14
	Total		373	362

Harihara Polyfibers Ltd, unit

Sl No.	Department	Test	No. of Employees	No. of Employees Covered
1.	Boiler House + Contractor	Audiometry & PFT	28	28/28
2.	Chipper House + Contractor	Audiometry & PFT	35	35/35
3.	Recovery + Contractor	Audiometry & PFT	50	50/50
4.	Rec maint/Chipper Maint + Contractor	Audiometry & PFT	28	28/28
5.	ETP (Biogas) + Contractor	PFT	03	03
	Total		144	144



Occupational Health Center

Raw Material Storage Details

Unit	Chemicals	Form of material (Solid/Liquid/ Gas)	Type of Storage
Grasilene Division	Carbon Di-Sulphide	liquid	containers
	Sulphuric Acid	Liquid	containers
	Sodium Hydroxide	liquid	containers



CS₂ Storage Tanks

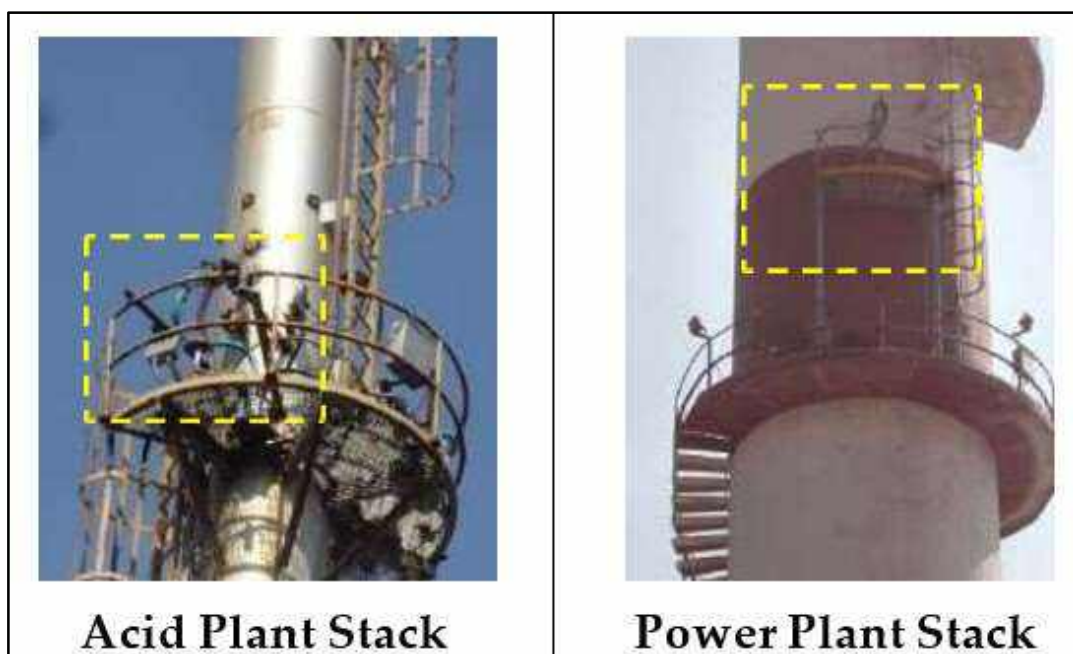
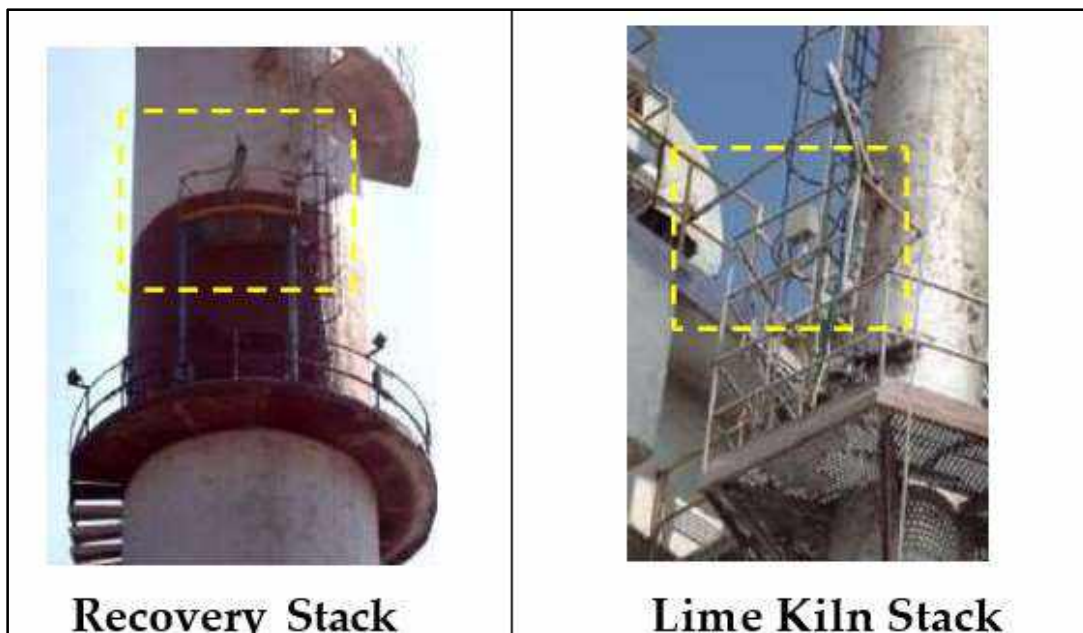


Raw Material Storage facility



Sulphuric Acid storage tanks

Continuous Monitoring System Installed at Stacks



Online continuous monitoring for Effluent Monitoring



Letter To MoEF&CC



Date: 22.10.2019

Scientist – E & Member Secretary (EAC)
Ministry of Environment, Forest & Climate Change (IA-II Section)
Indira Paryavaran Bhawan
Jorbagh Road
New Delhi - 3

Sir,

Sub : Expansion of Fibre Plant, Pulp Plant, Captive Power Plant & setting up Excel Fibre Plant at Village Kumarapatnam, Taluka Ranebennuru, District Haveri (Karnataka) by M/s Grasim Industries Ltd regarding
Environmental Clearance # F.No. IA-J-11011/371/2005-IA II(i)

Reference to the above, we thank you for granting us the Environmental Clearance (EC) for the aforesaid expansion project by M/s Grasim Industries Ltd.

We would like to bring to the industry's view & plea against the specific EC conditions as mentioned below for your kind notice :

Condition No. 10 (i) – Environmental Clearance shall be subject to obtaining prior clearance from the Wildlife angle including clearance from the Standing Committee of the National Board of Wildlife, as applicable.

Industry's view & plea : As per the Gazette Notification Dated 6th July 2017 (enclosed as Annexure – 1 for Ref please), Ranebennur Blackbuck Sanctuary has been notified with a clear demarcation of Eco-sensitive Zone and related conditions to be followed for developmental activities. Accordingly, industry has submitted the letter duly approved by Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden of Karnataka State Forest Department dated 14.06.2019 along with 1:50000 Topo map indicating distance of sanctuary from industry and eco-sensitive zone duly authorized by Chief Wildlife Warden – Enclosed as Annexure – 2. Hence, based on these details, we would like to inform that clearance from Standing Committee of the National Board of Wildlife is not applicable in our case.

Received
24/10/2019
Dr. U. Sridharan
Ministry of Environment, Forests & Climate Change
Regional Office, Southern Zone
Kendriya Bhavan, 4th Floor, Koramangala
Bangalore-560 034.
Phone: 8373 242171 To 75 / +91 8192 217550 To 54 | E: +91 8323 242825 / +91 8192 247555
grasim.com | E: grasimharin@adityabirla.com | CIN: L17124MP1947PLC000410
Regd. Office: P.O. Birlagram, Nagda-455 331 (M.P.)



Birla Cellulose
Fibres from Nature

Grasim Industries Limited

Units: Harihar Polyfibers & Grasitene Division
Kumarapatnam 581123, Dist. Haveri, Karnataka.

+91 8373 242171 To 75 / +91 8192 217550 To 54 | E: +91 8323 242825 / +91 8192 247555

grasim.com | E: grasimharin@adityabirla.com | CIN: L17124MP1947PLC000410

Regd. Office: P.O. Birlagram, Nagda-455 331 (M.P.)

1

Condition No. 10 (XV) – At least 1.5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) & item-wise details along with time bound action plan shall be prepared & submitted.

Industry's view & plea : As per the office memorandum from IA Division, MoEF&CC regarding CER dated 1st May 2018 (enclosed as Annexure – 3 for Ref please), the Industry has to spend 0.25% additional capital investment for CER as the aforesaid project is a brownfield project with investment between 1000 Cr to 10000 Cr. Hence, we request your kindness to amend this condition to 0.25% of total investment cost against 1.5% as CER expenses.

Condition No. 10 (XV) – Transportation of raw materials / products should be carefully performed using GPS enabled vehicles.

Industry's view & plea : Wood is the major raw material consumed in Pulping process, which comes mainly from unorganized market. Hence, it is practically highly difficult to ensure use of GPS enabled vehicles. However, industry will put maximum efforts to take care of all types of safety precautions while transporting raw materials and end products so that no major damage will be caused to environment. Hence, we request your kindness to amend this condition.

Industry will put maximum and sincere efforts to meet remaining conditions given in the EC.

Thanking you,

Yours faithfully,

For M/s Grasim Industries Ltd.



Ajay Kumar Gupta
Senior President & Unit Head

Encl: Annexures as mentioned above

CC: **Regional Director**
MoEF&CC Regional Office
Kendriya Sadan
Bangalore

Continuous Online AAQM Stations



Figure 1 AAQM Station at ETP



Figure 2 AAQM Station at Intake-well



Figure 3 AAQM Station at Guest House



Figure 4 Continuous Display of Air Quality Data at Factory

AAQM Results

Particulars	CS ₂	H ₂ S	NO ₂	NO	NO _x	PM ₁₀	PM _{2.5}	SO ₂
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Location 1: ETP								
Apr-25	5.96	4.75	5.55	6.14	11.69	17.53	10.59	10.74
May-25	6.06	4.86	5.64	6.17	11.81	17.73	10.86	10.67
Jun-25	6.61	4.86	5.69	6.18	11.88	17.72	10.89	10.74
July-25	6.13	4.86	5.61	6.16	11.78	17.88	11.10	10.65
Aug-25	6.33	4.92	5.64	6.14	11.79	17.88	10.97	10.71
Sep-25	6.54	4.90	5.65	6.14	11.79	17.94	11.14	10.69
Location 2: Guest House								
Apr-25	5.27	4.58	8.50	10.18	18.69	38.68	29.16	5.04
May-25	5.40	4.62	8.50	10.20	18.71	38.73	29.18	5.10
Jun-25	5.32	4.57	8.52	10.20	18.72	38.74	29.09	5.09
July-25	5.39	4.58	8.52	10.17	18.69	38.79	29.26	5.16
Aug-25	5.43	4.60	8.51	10.18	18.70	38.86	29.33	5.15
Sep-25	5.52	4.58	8.73	10.23	18.97	38.78	29.39	5.39
Location 3: Intake Well								
Apr-25	4.58	5.65	11.62	6.67	18.30	16.06	9.45	5.49
May-25	4.67	5.74	11.69	6.73	18.43	16.50	9.50	5.58
Jun-25	4.72	5.73	11.87	6.73	18.60	16.38	9.53	5.62
July-25	4.72	5.76	11.89	6.77	18.66	16.50	9.51	5.72
Aug-25	4.83	5.74	11.97	6.78	18.82	16.58	9.62	5.75
Sep-25	5.13	5.73	11.94	6.73	18.68	16.00	9.58	5.71

Ambient Noise Level -dB (A) at different locations						
Month & Year	Time	Guest House	SBM Building	Intake well	ETP Lab	Air strip
Apr-25	Day time	55	54	55	54	55
	Night time	53	52	53	53	52
May-25	Day time	55	53	54	55	55
	Night time	53	51	52	53	52
Jun-25	Day time	57	54	55	56	54
	Night time	54	52	53	53	51
July-25	Day time	56	53	54	57	53
	Night time	54	51	51	53	52
Aug-25	Day time	55	56	54	56	52
	Night time	51	53	51	52	51
Sep-25	Day time	56	56	53	55	51
	Night time	52	53	50	51	50

Rain water harvesting





GRASIM INDUSTRIES LIMITED – HARIHAR

Grasim Jana Seva Trust - Kumarapatnam

CSR Social Report

(April 2025 to Sept 2025)

Grasim Industries Limited Harihar has been working with 10 villages of Ranebennur Taluk, Haveri District, for the development of village communities. The community development projects are implemented under five focus areas like Education, Health, Sustainability Livelihood, Infrastructure Development and Social Projects.

1. Educational Programme :

Distribution of notebooks:

As part of our CSR initiative under Quality Education, we distributed notebooks for 3232 Students of 29 government high schools in CSR villages and for 20 Nos Smart Class units for 4000 students to support underprivileged students and promote better learning outcomes.



Construction of Model Anganawadi:

Construction of Model Anganawadi which is use full to 32 students at Nadhiharalahalli village completed and handed over to use after the visit of UH to Model Anganavadi.





Safety Awareness:

Our Safety Officer has visited and given the safety Awareness to the 178 School Students and staff at our CSR Schools under Employee Volunteering Participation at CSR in the community.



Aananda Balavadi:

We support an Aananda Balavadi operated by the Grasim Social Service Society in Kavalettu to provide care and educational support for underprivileged children in the community which is use full for 19 kids.



2. Health Care:

GJST provides daily mobile health check-up camps in two CSR villages, offering medical services with Dr, staff, CSR Team and medicines to the surrounding community, so from this 11,314 People are usefull.



The CSR team is consistently supporting the Government Health Department for immunization initiatives (including BCG and vitamin drops), blood pressure and sugar screenings, health awareness camps, and larva surveys in both upstream and downstream villages and from this 8179 Benefited.



3. Sustainable Livelihood :

We are operating Tailoring and Beautician Training Centers in the villages of Airani and Kavalettu to empower underprivileged rural women by enhancing their livelihood opportunities from this 42 Women are benefitted.



Veterinary Camps Report – At CSR Villages in collaboration with the Animal Husbandry Department, Ranebennur Date: 26th May 2025 to 26th July 2025

Promotion of Animal Husbandry and Live stock Projects/Veterinary Camps, we conducted two camps at CSR villages in this quarter 1,806 are usefull.



As part of its **Sustainable Livelihood Initiative, Grasim Jana Seva Trust – Kumarapatnam**, in collaboration with the **Animal Husbandry Department, Ranebennur** and the **Primary Veterinary Hospital, Hulikatti and Mekanur** organized a series of **Veterinary Health Camps** across CSR villages under these Primary **Veterinary Hospitals** from **26th May to 26th July 2025**.



Objective of the Camps:

To improve livestock health, enhance milk productivity, boost animal fertility and nutrition, and prevent livestock disease outbreaks—especially in vulnerable river-side villages. These camps also supported farmers in diversifying income sources through better livestock management.

Key Interventions Provided Free of Cost from Grasim Jana Seva Trust:

- Deworming treatments
- Medicines to improve **milk yield and reproductive health**
- **Nutrition supplements** for young and lactating animals
- **Vaccination against Haemorrhagic Septicaemia (HS)** – a highly fatal disease prevalent in river-side villages
- Skin lotions for **lumpy skin disease treatment**



Execution & Field Support:

The camps were led by:

- **Dr. Nilakanta B. Angadi**, Assistant Director, Animal Husbandry Department, Ranebennur Taluk
- **Dr. Raghavendra**, Primary Veterinary Hospital, Hulikatti
With assistance from support staff and Grasim CSR team members:
- **Mr. Manjappa M** – CSR Head
- **Mr. Manjunath N**
- **Mr. Mahendrappa H** – Village Volunteer

Positive Impact on Rural Communities:

- **1,654 livestock** treated and vaccinated across CSR villages
- **327 farmers** directly benefited through better animal health and reduced veterinary costs
- **Prevention of disease outbreaks**, especially haemorrhagic septicaemia, which is often fatal if left untreated
- Noticeable **increase in milk production**, resulting in higher dairy income
- **Improved animal fertility** and growth rates through timely interventions
- Reduced mortality and morbidity in livestock, contributing to **long-term economic stability**
- Enhanced **awareness among farmers** on livestock health management and disease prevention
- Encouragement of **youth and women participation** in livestock care and allied rural enterprises
- Strengthened farmer trust in public-private collaboration for rural development

Conclusion:

The veterinary camps had a significant and lasting impact on livestock health and farmer livelihoods. The timely vaccination against haemorrhagic septicaemia played a vital role in protecting animals in high-risk, river-side areas. Grasim Jana Seva Trust remains committed to supporting farming communities through such need-based CSR initiatives that promote sustainable, inclusive rural growth.





4. Infrastructure Development:

Supported the construction of a community hall as part of community development initiatives for the Sri Anjaneya Temple Trust Kodiyal Hospete village. And Yatra Nivaas Room at Punnyakoti Matt, so from this 3500 People are use full.

Renovation of Sub Health Center at New Nalavagal to support Community for Mobile health Check ups and from this 750 People Were usefull.



5. Social Development:

We supported mass marriage ceremonies conducted at Shree Airani Matt as part of our commitment to promoting social welfare and community well-being for 3 Pairs (9 members).



We supported National-Level Cyclist under Youth Social Empowerment and Upliftment Programme.

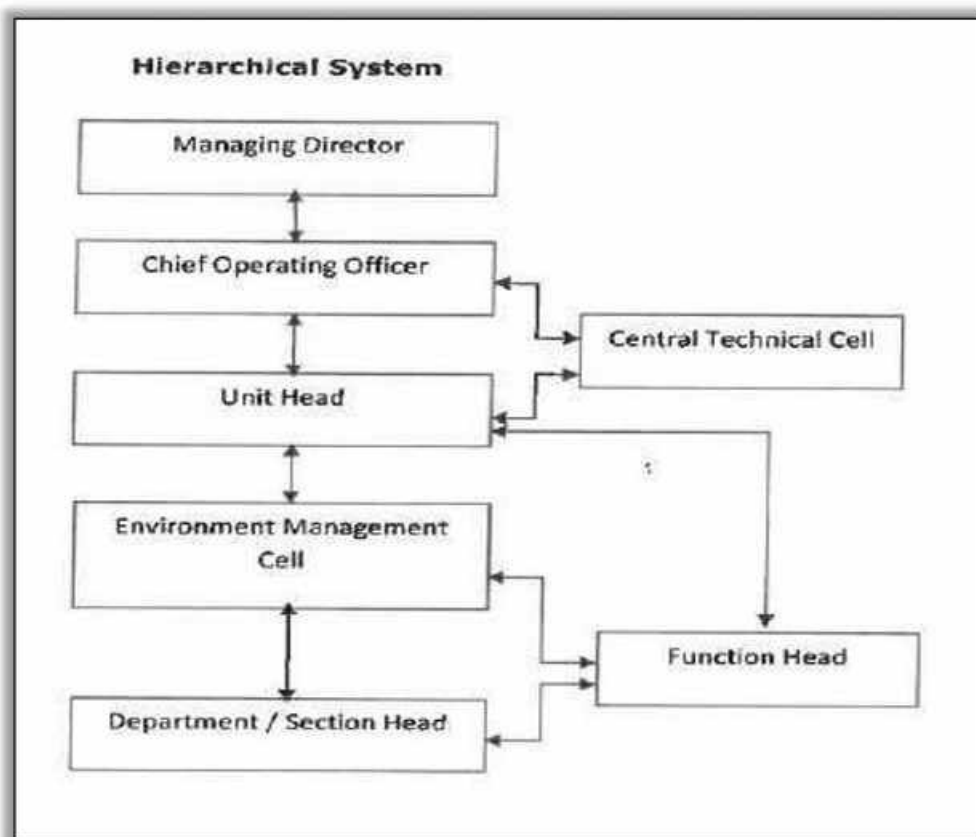
Grasim Harihar CSR Report from April 2025 to Sept 2025

S. No	Activity Heads	Beneficiaries	Benificiries	Expenses April to Sept 25 in lacs
1	Educational Programme	<ol style="list-style-type: none"> As part of our CSR initiative under Quality Education, we distributed notebooks to 29 government high schools in CSR villages and 20 Nos Smart Class units to support underprivileged students and promote better learning outcomes. Construction of Model Anganawadi at Nadhiharalahalli village completed and handed over to use after the visit of UH to Model Anganavadi. Our Safety Officer has visited and given the safety Awareness to the School Students and staff at our CSR Schools under Employee Volunteering Participation at CSR in the community. We support an Aananda Balavadi operated by the Grasim Social Service Society in Kavalettu to provide care and educational support for underprivileged children in the community. 	<p>Note Books to 3232 Students Smart class for 4000 students</p> <p>01 Anganawadi (32 students)</p> <p>178 (Students +Staff)</p> <p>19 kids.</p>	16.92639 lacs
2	Health Care	<ol style="list-style-type: none"> GJST provides daily mobile health check-up camps in two CSR villages, offering medical services with Dr, staff, CSR Team and medicines to the surrounding community. The CSR team is consistently supporting the Government Health Department for immunization initiatives (including BCG and vitamin drops), blood pressure and sugar screenings, health awareness camps, and larva surveys in both upstream and downstream villages 	<p>11,314 People</p> <p>8179 Beneficiaries</p>	7.88306 lacs.
3	Sustainable Livelihood	<ol style="list-style-type: none"> We are operating Tailoring and Beautician Training Centers in the villages of Airani and Kavalettu to empower underprivileged rural women by enhancing their livelihood opportunities. Promotion of Animal Husbandry and Live stock Projects/Veterinary Camps, we conducted two camps at CSR villages in this quarter. 	<p>77 Women</p> <p>1,806</p>	0.77741 lacs.

4	Infrastructure Development	<ol style="list-style-type: none"> Supported the construction of a community hall as part of community development initiatives for the Sri Anjaneya Temple Trust Kodyal Hospete village. And Yatra Nivaas Room at Punnyakoti Matt. Renovation of Sub Health Center at New Nalavagal to support Community for Mobile health Check ups. 	3500 People 750 People	15.06216 lacs
5	Social Development	<ol style="list-style-type: none"> We supported mass marriage ceremonies conducted at Shree Airani Matt as part of our commitment to promoting social welfare and community well-being. We supported National-Level Cyclist under Youth Social Empowerment and Upliftment Programme Volunteers Wages: 	3 Pairs (9 members) 01	12.93000 lacs 7.02262lacs
Grand Total			32,377	57.60464lacs

Thank you

EMC Structure



Recurring /Operation Cost at Harihara Polyfibers Ltd (HPF)

S. No	Particulars	Unit cost (INR/Kg)	UoM	Daily consumption	Total cost (INR)/day
1	Chemicals				
a	Hydrated Lime	7.2	Kg	300	2160
b	Urea	37	Kg	200	7400
c	DAP	87	Kg	200	17400
d	Liquid PAC	16.25	Kg	6000	97500
e	Defoamer	176	Kg	15	2640
f	Flocculant	215	Kg	75	16125
g	Cow dung	3.25	Kg	30	97.5
2	Power Requirement				
a	Electricity	7	No's	12100	84700
3	Service & Repair				
a	Capex		Rs.	246573	246573
4	Sludge handling		Rs.	2950	2950
5	Biogas operation		Rs.	92500	92500
4	Salary & Wages				
a	Staff and workmen salary		Rs.	29,000	29000
b	Contract workmen for ETP		Rs.	4718	4718
5	AMC charges for online stack & AAQMS maintenance		Rs.	-	3561.6
6	Electricity consumption for ESP installed at Recovery Boiler & Lime kiln	7	Rs.	1403.6	9825.25
	Total ETP treatment cost per day				617150.35

Recurring /Operation Cost at Grasilene Division

Sl. No.	Particulars	Unit cost (INR/Kg)	Daily consumption	Total Cost in Rs.
1	Chemicals			
a	Hydrated Lime	8	9000	72000
b	Urea	55	300	16500
c	DAP	113	150	16950
d	Deformer	126	10	1260
e	PAC (Powder)	25	300	7500
f	Cation poly 419	365	25	9125
				123335
2	Power Requirement			
a	Electricity	7	7900	55300
3	Service & Repair			
a	Accessories plate and frame clothes (yearly 4 sets considered 2+2)		600	600
b	Belt presses top and bottom wire (one set replacement for every 2 years)		450	450
c	Capex		18000	18000
d	Spares and Repairs		8700	8700
4	Salary & Wages			
a	Organic & Inorganic sludge handling cost (for trips)	380	9	3420
b	Lime preparation	740.86	4	2964
c	Other cleanings like sump zone clarifier flash mixer (Yearly 80,000/)		220	220
d	Maintenance workmen		4	4000
e	Staff and workmen salary		21	30000
f	Contract workmen for ETP		3	1984
5	AMC charges for online stack & AAQMS maintenance			3561
6	Electricity consumption for ESP installed at Power Plant	7	996	6972
TOTAL				259506

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

Proposal No	IA/KA/IND2/82389/2006
Compliance ID	127800914
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127800914/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	28-05-2025
RO/SRO Name	Shri S Senthil Kumar
RO/SRO Email	jk083.ifs@nic.in
State	KARNATAKA
RO/SRO Office Address	Integrated Regional Offices, Bengaluru
Note:- SMS and E-Mail has been sent to Shri S Senthil Kumar, KARNATAKA with Notification to Project Proponent.	

Shilpa Parameshwarappa

From: Shilpa Parameshwarappa
Sent: 30 September 2025 17:25
To: 'Regional Officer - davangere Karnataka State Pollution Control Board'; 'cat17@kspcb.gov.in'; 'rosz.bng-mef@nic.in'
Cc: Manohar Kumar R
Subject: RE: Environmental Statement of Harihar Polyfibers and Grasilene Division for the period from 01.04.2023 to 31.03.2024
Attachments: GRD Env Statemnet FY-25.pdf; HPF Environmental Statement FY-25.pdf

To,
 30th Sept, 2025
 The Environmental Officer,
 Karnataka State Pollution Control Board,
 "C" Block, Plot No. 501, Near Income Tax Office,
 Devraj Urs Layout,
 Davangere - 577 006.

Dear Sir,

Sub : Submission of Environmental Statement Report (Form-V) (April, 2024 to March, 2025) for Harihar Polyfibers & Grasilene Division, at Kumarapatnam - 581 123, Dist: Haveri Karnataka by M/s. Grasim Industries Ltd.

With reference to the aforesaid subject, we are herewith submitting the **Environmental Statement Reports (Form-V)** for Harihar Polyfibers and Grasilene Division, at Kumarapatnam - 581 123, Dist: Haveri Karnataka for financial year April, 2024 to March, 2025.

Thanking you with Regards,

For Grasim Industries Ltd.,
 (Units: Harihar Polyfibers and Grasilene Division)
 Kumarapatnam
 Ranebennur-Tq,
 Haveri-Dist.

Please note that the Hardcopies of reports sent through Post.

Cc:

1. The Member Secretary
 Karnataka State Pollution Control Board,
 "Parisara Bhavan", #49, 4th & 5th Floor,
 Church Street, Bangalore-560001
2. The Regional Office, MoEF & CC,
 Kendriya Sadan, 4th Floor, E&F
 Wings, 17th Main Road,
 Koramangala II Block,

Unit wise Details for Air Pollution Control Equipment

S. No.	Unit/plant facility	Section	Air Pollution Control Equipment
1.	VSF Plant	Spinning	<ul style="list-style-type: none"> • CS₂ recovery system • Exhaust system to maintain clean working environment
		Carbon disulfide plant	<ul style="list-style-type: none"> • Klaus Kiln Plant for sulphur recovery Scrubber
		Sulphuric Acid Plant	<ul style="list-style-type: none"> • Mist Eliminator / Demister Scrubber
2.	Captive Power Plant	Boiler	<ul style="list-style-type: none"> • Electrostatic Precipitator with Epic-III controls



Sulphuric Acid Plant Stack with Alkali Scrubber & Demister to reduce SO₂ emissions and sulphuric acid mist respectively.



CFBC boiler with 110 m chimney and advanced ESP

Details For Fly Ash Generated (April 2025 to Sep 2025)

Sl No	Month	Fly Ash Utilized (MT)	Bottom Ash (MT)
1.	April 2025	4448.66	800.66
2.	May 2025	4983.73	979.37
3.	June 2025	4296.56	785.62
4.	July 2025	4492.91	794.70
5.	Aug 2025	4428.06	497.77
6.	Sep 2025	4717.97	770.97
Total		27367.89	4629.09

Stack Results**Harihar Polyfibers**

Name of the Stack	Month	Flue gas flow (Nm ³ /Hr)		SPM (mg/Nm ³)	
		KSPCB limit	Achieved	KSPCB limit	Achieved
Recovery Boiler	Apr-25	Max. 1,06,000	42839.03	Max. 150	31.30
	May-25		42842.23		31.20
	Jun-25		42849.60		30.99
	July-25		42953.13		41.66
	Aug-25		42954.03		41.91
	Sep-25		43035.64		42.14
Lime Kiln Stack	Apr-25	Max. 18,000	10399.92	Max. 150	30.12
	May-25		9282.96		30.05
	Jun-25		11781.98		30.04
	July-25		9225.07		39.22
	Aug-25		12320.11		39.17
	Sep-25		12428.20		40.75

Grasilene Division

Name of the Stack	Parameter	Unit	KSPCB limit	Apr-25	May-25	Jun-25	July-25	Aug-25	Sep-25
Spinning Stack	Rate of Emission	Nm ³ /Hr	375000	201183.5	201143.5	201256	201212.5	201200.5	201086.5
	Particulate	mg/Nm ³	150	24.8	24.725	26.95	26.695	25.755	25.965
	CS ₂	Kg/Ton	95	92.05	91.52	92.06	90.935	91.68	90.72
Sulphuric Acid Plant	Rate of Emission	Nm ³ /Hr	16,400	11142	11307	11555	10422.5	10671	10307
	SO ₂	Kg/Ton	1.0 Kg/T of 100% Acid	0.505	0.54	0.57	0.545	0.515	0.505
	H ₂ SO ₄	mg/Nm ³	50	24.355	26.65	27.55	28.365	24.785	25.75
Carbon Disulphide plant	Rate of Emission	Nm ³ /Hr	7300	—	—	—	—	—	—
Power Plant Coal fired Boiler	Rate of Emission	Nm ³ /Hr	366,000	220728	221257	223803	224730.5	224588.5	224562
	SPM	mg/Nm ³	150	43.225	43.395	42.345	43.19	42.61	41.51

Fugitive Emissions in the Work Zone

S. No.	Locations	Results (SPM in $\mu\text{g}/\text{m}^3$)
1.	Chipper House(Pulp Plant)	366.0
2.	Lime Kiln (Pulp Plant)	328.0
3.	ETP Lime Godown (GRD)	382.0
4.	ETP Lime Godown (HPF)	373.0
5.	Coal Storage Area	437.0
6.	Charcoal Storage Area	460.0



Wagon Tippler Complex



Concreted Approach Road & covered conveyor belt



Covered Conveyor Belt



Covered Conveyor Belt

Recommendations made in the CREP for Pulp plant

Sl. No.	CREP conditions for Pulp & Paper Industry along with implementation schedule	Implementation Status of M/s. Harihar PolyFibres Industry																														
1	Discharge of AOx Kg/tonne of paper: <ul style="list-style-type: none">• AOx 1.5 kg/tonne of paper within 2 years.• AOx 1.0 Kg/Tonne of paper in 5 years	The Unit achieved average value of AOx is 0.33 Kg/Tonne of Pulp.																														
2	Installation of Lime Kiln: within 4 years	Installed the Lime kiln along with online continuous emission monitoring system connected to CPCB server.																														
3	Wastewater discharge cum/tonne of paper: <ul style="list-style-type: none">• Less than 140 cum/tonne of paper within 2 years.• Less than 120 cum/tonne in 4 years for units installed before 1992.• Less than 100 cum/tonne of paper per units installed after 1992.	The average wastewater discharge is 102.03 cum/tonne of Pulp.																														
4	Odor control by burning the reduced Sulphur emissions in the boiler/lime kiln.	Odor causing high concentrated low volume non condensable gases are collected in single vessel and being burnt in Lime kiln. All influent drains are covered concrete Slabs.																														
5	Utilization of treated effluent for irrigation wherever possible.	The industry is utilizing about 3000 m3 of treated effluent per day in non-monsoon seasons for greenery development. Efforts being made to utilize more treated effluent for greenery development in non-monsoon season by covering all the available adjacent land surrounding of industry.																														
6	Color removal from the effluent.	<div>Industry has installed Color Removal technology (Tertiary Clarifier) with 7.0Crore capital investment and Operating cost 1.5 Lac per day.</div> <table><tr><th>Parameter of Treated Wastewater</th><th>Unit</th><th>KSPCB target</th><th>Before Tertiary Treatment</th><th>After Tertiary Treatment</th><th>% of Reduction</th></tr><tr><td>Inlet/Outlet Colour</td><td>PtCo</td><td>NA</td><td>900</td><td>200</td><td>78.0</td></tr><tr><td>COD</td><td>ppm</td><td>250</td><td>230</td><td>160</td><td>30.4</td></tr><tr><td>BOD</td><td>ppm</td><td>30</td><td>26</td><td>17</td><td>34.6</td></tr><tr><td>TSS</td><td>ppm</td><td>100</td><td>85</td><td>35</td><td>59</td></tr></table> <div>In addition to above DO increased by 22% i.e average DO value 4.1ppm to 5.0ppm.</div>	Parameter of Treated Wastewater	Unit	KSPCB target	Before Tertiary Treatment	After Tertiary Treatment	% of Reduction	Inlet/Outlet Colour	PtCo	NA	900	200	78.0	COD	ppm	250	230	160	30.4	BOD	ppm	30	26	17	34.6	TSS	ppm	100	85	35	59
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