

ADITYA BIRLA



Dated: 05.05.2021

The Advisor,
Ministry of Environment, Forest and Climate Change
Regional office, Western Region
"Kendriya Paryavaran Bhavan"
Link Road No.3, Ravishankar Nagar
Bhopal-462016 (M.P)

Subject: Half Yearly Compliance Report of Environmental Clearance Compliance Report for period of "Oct-20 to Mar-21".

Dear Sir,

In view of above subject matter, Here, we are submitting the hard copy as well as soft copy of half yearly Environmental Clearance Compliance report along with copy of EC-2018, No. J. 11011/320/2006-IA II (I) dtd. 22.02.2018 for the report period from "Oct-20 to Mar-21".

Hope, the same is in order.

Yours Faithfully,
(For Birla Cellulosic)

Dharmesh Patel
DH- Environment

Encl. :

1. EC Copy
2. EC-2018 Compliance report (Oct-20 to Mar-21)

CC To:

1. GPCB Regional office - Gujarat pollution control board, Plot No. 1501, GIDC, Ankleshwar
2. GPCB Head office - Gujarat pollution control board, Paryavaran Bhavan, CHH Road, Sector 10A, Gandhinagar, Gujarat 382010



Birla Cellulose
Fibres from nature



Grasim Industries Limited
Unit - Birla Cellulosic

Works : Birladham, Kharach Kosamba R.S.
Dist. Bharuch (Gujarat) - 394 120 INDIA
CIN : L17124MP1947PLC000410

Telephone +91 2646 270001-005, 270301-305
Fax +91 2646 270010, 270130
Email bc-kharach.info@adityabirla.com

Liaison Office : 11th Floor - 1101 & 1102 OCEAN, Opposite Vadodara Central Mall, Vikram Sarabhai Marg, Vadiwadi, Vadodara - 390023, Gujarat - India
Regd. Office : P.O. Birlagram, Nagda (MP) - 456 331. Phone : (07366) 246760-66, Fax : 255198, Website : www.grasim.com

F.No. J-11011/320/2016-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Division)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3
Dated: 22nd February, 2018

To,

M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd)
Birladham, Village Kharach,
Taluka Hansot,
District Bharuch (Gujarat)

Sub: Expansion of Viscose Staple Fibre Unit and Coal based CPP by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat) - Environmental Clearance - reg.

Ref.: Online proposal no. IA/GJ/IND2/59092/2016 dated 18th September, 2017

Sir,

This has reference to your online proposal no. IA/GJ/IND2/59092/2016 dated 18th September, 2017 for environmental clearance to the above project, along with the documents including Form-1, Terms of Reference (ToR), EIA/ EMP report containing the Public hearing proceedings/details.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Environmental Clearance to the project 'Expansion of Viscose Staple Fibre Unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW' by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat). The details of existing and proposed products are as under: -

S.No.	Product /Unit	Existing Capacity	Additional Capacity	Total capacity after expansion
1.	Viscose Staple Fibre	127750 TPA	105850 TPA (Debottlenecking: 14600; New Machine: 91250)	233600 TPA
2.	Captive Power Plant	25 MW	20 MW	45 MW

The other products (intermediates/raw materials) presently manufactured include Sulphuric Acid (146000 TPA), Carbon Disulphide (21600 TPA) and Sodium Sulphate (96000 TPA). The Solvent spun cellulosic fibre unit of capacity 109500 TPA and coal based CPP of 71 MW are yet to be commissioned.

3. Existing plant area is 242.81 ha and no additional land shall be required for proposed expansion project. It is proposed to develop greenbelt in an area of 80 ha, thus covering an area of 33% of total project area. Presently, 70 ha area has been developed under greenbelt. Greenbelt planned for 10 ha in next three years. As per Form-1, there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc within 10 km from the project site. Kim river is flowing at 0.5 km in the South.



4. The estimated project cost is Rs.1800 crores (debottlenecking: Rs.12 crores & new machines: Rs.1788 crores). Total capital cost earmarked for pollution control measures is Rs.90 crores and the recurring cost (operation and maintenance) shall be about Rs.11 crores per annum. It has been proposed to allocate Rs.45 crores (debottlenecking: Rs.0.3 Crores, new machines: Rs.44.7 crores) @ 2.5% towards Enterprise Social Commitment.

5. Total fresh water requirement after the proposed expansion will be 22,286 cum/day (existing - 18600 cum/day, additional - 3686 cum/day) to be sourced through from Kim River. Narmada Water Resources Water Supply and Kalpsar Department of the State Government of Gujarat, has already made an allocation for 7 MGD of water from Kim river to meet the total water requirement.

Total effluent generation would be reduced from the present of 11580 cum/day to 11535 cum/day, which is proposed to be treated in the ETP of capacity 24000 cum/day. Treated effluent is to be discharged into Kim Estuary through 23 km long pipeline falling in CRZ area. The unit has already obtained the CRZ clearance from the Ministry vide letter dated 17th January, 2007 for the said pipeline. The domestic effluent of 1500 KLD shall be treated in the STP and then recycled for greenbelt development.

6. Total power requirement after expansion shall be 45 MW. Existing requirement of 25 MW is being met through Captive Thermal Power Plant. After expansion total requirement shall be met from Captive Thermal Power Plant.

Existing unit has 2x100 & 1x120 TPH coal fired boiler. Electrostatics Precipitators with a stack of height of 100 m will be installed for controlling the Particulate emissions (within prescribed norms) for proposed 3x100 TPH coal fired boilers respectively.

7. Details of process emissions along with the control measures are as under:

Emissions	Source	Management Measures
CS ₂	VSF Plant-spinning	<ul style="list-style-type: none"> • CS₂ Recovery System (46.55% recovery). • Powerful Exhaust System for spinning off gases (CS₂ and H₂S) • Air dilution with adequate stack height. • Shutters for spinning machine.
	CS ₂ Plant	<ul style="list-style-type: none"> • Oil Scrubbing system for recovery of CS₂ • Alkali Scrubber • Klaus kiln for recovery of sulphur • Dust extraction cum Ventury Scrubbing system for Furnaces.
SO ₂	H ₂ SO ₄ Plant	<ul style="list-style-type: none"> • Alkali scrubber
	CPP boiler	<ul style="list-style-type: none"> • Lime dozing in boiler • Adequate stack height (as per CPCB guidelines).
Acid Mist	H ₂ SO ₄ Plant	<ul style="list-style-type: none"> • Mist eliminator
PM	CPP boiler	<ul style="list-style-type: none"> • ESPs
Fugitive Emission	CPP-handling & Storage	<ul style="list-style-type: none"> • Covered storage yard to store coal at the plant site. • Silos to store fly ash at the plant site. • Transportation of Fly ash through closed tankers / bulkers. • Dust collection system to control dust emission. • Water sprinkling to reduce dust generation. • Greenbelt / plantation done along the plant boundary to attenuate air pollution.

SH

Emissions	Source	Management Measures
	CS ₂ Plant-Sulphur handling	<ul style="list-style-type: none"> Covered storage yard for storage of sulphur. Sulphur melting in closed system

8. Details of solid/hazardous waste generation and its management are as under:

Plant Unit	Waste	Treatment / Disposal
Acid Plant	Sulphur Filter Residue	TSDf
	Spent Catalyst (V ₂ O ₅)	
ETP	ETP Inorganic Sludge (Gypsum)	Sold to cement industries
Plant Maintenance-Different sections	Oil soaked Cotton Waste & cotton waste	TSDf
	Used Oil	Sent to Authorized Recycler
	Used Resin	Sent to TSDf for disposal
STP	STP Sludge	Used as manure in greenbelt development/ plantation
Proposed CPP	Fly Ash	Will be supplied to Brick manufacturers, Cement industries

9. The project/activity is covered under category A of item 5(d) 'Manmade fibres manufacturing Rayon' of the Schedule to the Environmental Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

10. The ToR for the project was granted by Ministry vide letter dated 13th February, 2017 and the public hearing was conducted by the SPCB on 30th August, 2017.

11. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 31st meeting held during 23-24 November, 2017. The project proponent and their accredited consultant M/s J.M. EnviroNet Pvt Ltd, presented the EIA / EMP report as per the ToR. The Committee found the EIA / EMP report as satisfactory and complying with the ToR. The Committee has recommended the proposal for grant of environmental clearance.

12. Based on the proposal submitted by the project proponent and subsequent recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project '**Expansion of Viscose Staple Fibre Unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW**' by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

- 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.
- Total fresh water requirement shall not exceed 22,286 KLD proposed to be met from Kim River water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.



- (c) Total effluent discharge after treatment shall not exceed 11535 cum/day to be discharged to the Kim Estuary through 23 km long pipeline. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- (d) 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.
- (e) National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- (f) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers (2x100 & 1x120 TPH) to control particulate emissions within permissible limits. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (g) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (h) 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.
- (i) 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.
- (j) 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.
- (k) The company shall undertake waste minimization measures as below:-
(i) Metering and control of quantities of active ingredients to minimize waste.
(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
(iii) Use of automated filling to minimize spillage.
(iv) Use of Close Feed system into batch reactors.
(v) Venting equipment through vapour recovery system.
(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (l) 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.
- (m) All the commitments made regarding issues raised during the public hearing/consultation meeting held on 30th August, 2017 shall be satisfactorily implemented.



- (n) At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (o) The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.
- (p) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (q) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (r) Continuous online (24X7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.
- (s) Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. Raw material storage should not exceed 3 days at any point of time.
- (t) The energy sources for lighting purposes shall preferably be LED based. A minimum of 10-20% of the total power requirement for the industrial operations shall be met from non-conventional energy resources/solar supply

12.1 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.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).




- (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. CSR 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 Parisad/ 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.
- (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.



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


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

15. The above conditions will 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, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


22/2/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Secretary, Forests & Environment department, Government of Gujarat, Sachivalaya, **Gandhinagar** (Gujarat)
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, **Bhopal** – 462016 (Madhya Pradesh)
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Gujarat Pollution Control Board, 'Parishram', Mahavir Society, Shanala Road, **Morbi** (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi**
6. Guard File/Monitoring File/Record File


22/2/2018
(S. K. Srivastava)
Scientist E

**‘Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW’**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

Name of Project : Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW

Environment Clearance letter no. & Date : F.No.J-11011/320/2016-IA II (I) DATED 22.02.2018

Address for Correspondence : M/s. Birla Cellulosic (A Unit of Grasim Industries Ltd.)
Birladham, Village: Kharach, Kosamba (R.S.),
Tehsil: Hansot, Bharuch (Gujrat) – 394120

Duration/Reporting period : Oct-20 to Mar-21

S.No.	Compliance Conditions by MoEF & CC	Action taken by Birla Cellulosic
1.	Based on the proposal submitted by the project proponent and subsequent recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project ‘Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA and Coal based CPP from 25 MW to 45 MW’ by M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) in a total area of 242.81 ha, at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006, subject to the compliance of term and conditions as below:-	o <u>Noted & shall be complied.</u>
(a)	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.	o <u>Complied.</u> o According to market scenario, In first phase, obtained CCA-amendment for VSF production capacity up to 390 TPD (350 Existing + 40 Debottlenecking) having CCA order no. AWH-101226 dated: 23.05.2019 valid up to 11.04.2024. o In second phase, obtained CCA amendment for VSF production capacity up to 430 TPD having CCA order no. AWH-104181 dated: 29.11.2019 valid up to 11.04.2024. o In continuation with that, obtained CCA amendment for Sodium Sulphate by- product capacity up to 430 TPD having CCA order no. AWH-111124 dated: 19.03.2021 valid up to 11.04.2024.

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

<p>(b)</p>	<p>Total fresh water requirement shall not exceed 22,286 KLD proposed to be met from Kim River water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.</p>	<ul style="list-style-type: none"> ○ <u>Noted & Complied.</u> ○ An agreement with Irrigation Department has been made for water withdrawal @ 19,000 M3/day. ○ A Summary of water Consumption for the reporting period is given below: <table border="1" data-bbox="862 569 1401 982"> <thead> <tr> <th>Month</th> <th>Quantity (M3)</th> </tr> </thead> <tbody> <tr> <td>Oct-20</td> <td>478547</td> </tr> <tr> <td>Nov-20</td> <td>444648</td> </tr> <tr> <td>Dec-20</td> <td>453221</td> </tr> <tr> <td>Jan-21</td> <td>451779</td> </tr> <tr> <td>Feb-21</td> <td>414393</td> </tr> <tr> <td>Mar-21</td> <td>469678</td> </tr> <tr> <td>Total</td> <td>2712266</td> </tr> <tr> <td>Average (M3/Day)</td> <td>14902.56</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ○ The Half- yearly average water Consumption is 14903 M3/day, which is less than the quantity mentioned in Agreement. 	Month	Quantity (M3)	Oct-20	478547	Nov-20	444648	Dec-20	453221	Jan-21	451779	Feb-21	414393	Mar-21	469678	Total	2712266	Average (M3/Day)	14902.56
Month	Quantity (M3)																			
Oct-20	478547																			
Nov-20	444648																			
Dec-20	453221																			
Jan-21	451779																			
Feb-21	414393																			
Mar-21	469678																			
Total	2712266																			
Average (M3/Day)	14902.56																			
<p>(c)</p>	<p>Total effluent discharge after treatment shall not exceed 11535 cum/day to be discharged to the Kim Estuary through 23 km long pipeline.</p>	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ A full-fledged effluent treatment plant comprising of primary treatment of neutralization, settling facility and secondary treatment of biological system based on extended aeration activated sludge process has been installed. ○ A separate underground pipeline for discharging the treated effluent in the estuary of Kim River has been installed as approved by GPCB. The pipeline passes through 8 Nos. of villages and 213 private farm lands, and we have 174 ROUs with the land owners. The disposal point was suggested by NIO, Goa. ○ A Summary of treated effluent for the reporting period is given below: <table border="1" data-bbox="862 1619 1430 1890"> <thead> <tr> <th>Month</th> <th>Quantity (M3)</th> </tr> </thead> <tbody> <tr> <td>Oct-20</td> <td>250003</td> </tr> <tr> <td>Nov-20</td> <td>243773</td> </tr> <tr> <td>Dec-20</td> <td>249607</td> </tr> <tr> <td>Jan-21</td> <td>237180</td> </tr> <tr> <td>Feb-21</td> <td>230972</td> </tr> </tbody> </table>	Month	Quantity (M3)	Oct-20	250003	Nov-20	243773	Dec-20	249607	Jan-21	237180	Feb-21	230972						
Month	Quantity (M3)																			
Oct-20	250003																			
Nov-20	243773																			
Dec-20	249607																			
Jan-21	237180																			
Feb-21	230972																			

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

The effluent discharge shall confirm to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

Mar-21	252929
Total	1464464
Average (M3/Day)	8047

- Unit has appointed NABL accredited laboratory M/s. Pollucon laboratories pvt. ltd. for monthly monitoring of The waste water generated from the plant and township and treated in the well-established ETP and STP.
- As per the monitoring conducted by their team, the results are well within the prescribed norms as per consent condition.
- A full-fledged in-house laboratory is established to monitor the parameters round the clock. The quality of treated effluent is also monitored by NABL accredited Laboratory on monthly basis.
- The Sewage water from the plant and township is treated in the well-established STP and recycled for green belt development.

○ A Summary of treated effluent for the reporting period is given below:

Parameter	pH	Temp.	S.S.	COD	BOD	Amm. N	Color	Zinc
Unit	-	°C	mg/l	mg/l	mg/l	mg/l	Co-pt u.	mg/l
Limit	6.5-8.5	40.0	100.0	250.0	100.0	50.0	100	10.0
Oct-20	7.6	30.1	34	146	21.9	7.2	30	0.94
Nov-20	7.7	30.0	42	139	28.0	6.4	40	0.8
Dec-20	7.6	30.0	37	176	31.0	5.7	50	0.7
Jan-21	7.4	29.9	62	134	26.0	4.9	50	0.6
Feb-21	7.5	30.1	35	142	31.0	3.7	40	0.6
Mar-21	7.4	30.3	45	148	29.0	6.2	50	0.6

○ A Summary of treated Domestic sewage for the reporting period is given below:

Parameter	TSS	BOD	Residual Free Cl.	COD	Nitrogen	Fecal Coliform	pH
Unit	Mg/Lit.	Mg/Lit.	Mg/Lit.	Mg/Lit.	Mg/Lit.	MPN/ml	-
Limit	<30	<20	Min 0.5	-	-	-	-
Oct-20	18	12	0.80	87	5.60	540	7.42

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

Nov-20	21	15	0.60	68	4.32	420	7.63
Dec-20	27	16	0.80	79	5.16	430	7.51
Jan-21	24	11	0.60	93	6.28	540	7.39
Feb-21	19	14.30	0.80	87	7.56	430	7.53
Mar-21	25	13.20	0.60	73	5.82	540	7.41

- (d) 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.
- **Noted & shall be complied.**
 - CCA-Amendment (including authorization for the Hazardous and Other Wastes) for production increase up to 430 TPD received on 29.11.2019 having GPCB Consent order No. AWH-104181 valid upto 11.04.2024.
 - Generated ETP sludge is provided to cement manufacturers as stipulated in CCA.
 - Generated Fly ash is provided to Cement manufacturers for co-processing and surrounding local Brick manufacturers as stipulated in the CCA.
 - Generated Deashing sludge & Spent catalyst is provided to BEIL, TSDF site as stipulated in CCA.
 - As per latest CCA-amendment received from GPCB, Spent resin reutilized as a waste to recover energy in CPP for Power & Steam generation.

- A Summary of hazardous waste treatment and disposal facilities for the reporting period is given below:

Hazardous Waste Treatment and Disposal Facilities				
Type of waste	Schedule No.	Quantity	Treatment	Disposal practice
ETP Sludge	34.3	4555 MT	De-watering on belt press & drying. Stored under Gypsum storage shed area.	Disposal at TSDF BEIL, or Sold to Cement industries
Spent Catalyst	17.2	7.27 MT	Stored in Drums and disposal as per CCA condition	Disposed at TSDF, BEIL, Ankleshwar
Spent Resin	34.2	1.78 MT	Stored in drums and neutralize	Reutilize for energy recovery in boiler as a waste to energy recovery
Sulphur Deashing sludge	17.2	157.17 MT	Stored in storage rooms which is fully covered	Disposed at TSDF, BEIL, Ankleshwar

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

Discarded containers and Liners	33.3	2495 No.	Decontamination is done in Unit and stored in dedicated storage yard	Sold to approved recycler as per guidelines of CC&A.
HDPE Bags	33.3	15 MT	Collected and stored in dedicated storage yard	Sold to approved recycler as per guidelines of CC&A.
Used oil	5.1	13.64 Kl	Collected and stored in drums	Sold to approved recycler as per guidelines of CC&A.

(e)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608 (E) dated 21 st July, 2010 and amended from time to time shall be followed.	<ul style="list-style-type: none"> o Not applicable. o We are engaged in manufacturing of Viscose Staple Fiber. 																				
(f)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers (2x100 & 1x120 TPH) to control particulate emissions within permissible limits. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	<ul style="list-style-type: none"> o Complied. o The mitigation measures adopted to control emissions for CS₂/H₂S concentration in ambient air is given below. <table border="1"> <thead> <tr> <th>S.no.</th> <th>Process</th> <th>Emission</th> <th>Mitigation Measures</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sulphuric Acid Plant (2 nos.)</td> <td>SO₂</td> <td>2 - Stage Alkali (Caustic) Scrubbers</td> </tr> <tr> <td>2.</td> <td>CS₂ Plant</td> <td>CS₂/H₂S</td> <td>Sulphur Recovery system</td> </tr> <tr> <td>3.</td> <td>Sulphur Recovery Plant</td> <td>SO₂</td> <td>Alkali (Caustic) Scrubber</td> </tr> <tr> <td>4.</td> <td>Spinning Machine (4 nos)</td> <td>CS₂</td> <td>CS₂ recovery system having a water scrubber and 3-stage condensers for recovering CS₂ and Exhaust system</td> </tr> </tbody> </table>	S.no.	Process	Emission	Mitigation Measures	1.	Sulphuric Acid Plant (2 nos.)	SO ₂	2 - Stage Alkali (Caustic) Scrubbers	2.	CS ₂ Plant	CS ₂ /H ₂ S	Sulphur Recovery system	3.	Sulphur Recovery Plant	SO ₂	Alkali (Caustic) Scrubber	4.	Spinning Machine (4 nos)	CS ₂	CS ₂ recovery system having a water scrubber and 3-stage condensers for recovering CS ₂ and Exhaust system
S.no.	Process	Emission	Mitigation Measures																			
1.	Sulphuric Acid Plant (2 nos.)	SO ₂	2 - Stage Alkali (Caustic) Scrubbers																			
2.	CS ₂ Plant	CS ₂ /H ₂ S	Sulphur Recovery system																			
3.	Sulphur Recovery Plant	SO ₂	Alkali (Caustic) Scrubber																			
4.	Spinning Machine (4 nos)	CS ₂	CS ₂ recovery system having a water scrubber and 3-stage condensers for recovering CS ₂ and Exhaust system																			

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

			connected with stack
5.	Sodium Sulphate Recovery plant	Sodium Sulphate dust	Cyclone Separator & Water scrubber
6.	Boiler	Gaseous Emission	ESP & Lime dosing system

○ Unit has installed 3 nos. of continuous AAQMS system in plant premises with the consultation with GPCB officers and 3 other AAQMS system installed at down wind direction area and regularly checking the parameters of CS₂, H₂S, SO₂, NO_x, PM₁₀ and PM_{2.5}.
 ○ Unit has installed lime injection systems at coal feeders to control sulphur emission from boilers (2x100 & 1x120 TPH) within permissible limits.
 ○ Unit has installed ESP to control particulate emissions within permissible limits.
 ○ Unit has installed Online monitoring system for SO₂, NO_x, and PM monitoring (the flue gas emissions from Power Plant) from the stack attached with Boiler, connected with GPCB/CPCB server & transmitting data 24*7*365.
 ○ Unit has appointed NABL accredited laboratory M/s. Pollucon laboratories for monthly monitoring of Stack concentration as well as ambient air quality, as per the monitoring conducted by their team, the results are well within the prescribed norms as per consent condition.

○ A Summary for Ambient Air quality for the reporting period is given below:

Location	Average of AAQMS Station 1, 2 & 3					
	PM10	PM2.5	SO2	NOx	H2S	CS2
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
Limit	100	60	80	80	150	100
Oct-20	61.83	32.89	14.47	29.22	17.99	19.31
Nov-20	62.07	34.23	14.21	26.40	18.84	19.32
Dec-20	63.38	33.53	11.49	26.28	17.84	18.52
Jan-21	62.07	29.81	22.4	16.79	24.42	34.97

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

Feb-21	61.10	31.78	13.35	25.00	19.39	19.27
Mar-21	62.06	29.00	13.87	25.30	14.82	18.19

o A Summary for Flue gas emission from stack for the reporting period is given below:

Location	Boiler-1 & 2 (76 m)			Boiler-3 (86 m)			
Parameter	SPM	SO2	NOx	SPM	SO2	NOx	Mercury
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	600	600	50	600	300	0.03
Oct-20	56.24	268	102	30.58	282	120	ND
Nov-20	42.86	293	108	34.23	272	110	ND
Dec-20	50.34	282	95	29.68	274	108	ND
Jan-21	58.78	279	107	36.24	291	111	ND
Feb-21	48.24	298	88	-	-	-	ND
Mar-21	54.37	257	73	30.52	273	130	ND

o A Summary for process gas emission from stack for the reporting period is given below:

Location	CS2 Plant	Spinning	Total	Acid plant I		Acid plant II	
Parameter	CS2			SO2	Acid Mist	SO2	Acid Mist
Unit	Kg/ToF			Kg/ToA	mg/Nm3	Kg/ToA	mg/Nm3
Limit	125			2	25	2	25
Oct-20	0.03	85.68	85.71	0.72	19.95	0.56	8.12
Nov-20	0.03	91.70	91.73	0.84	15.69	0.69	9.25
Dec-20	0.03	92.52	92.55	0.76	18.60	0.86	6.32
Jan-21	0.03	92.80	92.83	0.91	16.81	0.75	8.12
Feb-21	0.04	82.68	82.72	0.69	13.67	0.82	7.22
Mar-21	0.03	90.63	91	0.80	20.40	0.62	9.48

(g)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	o Complied. o Process effluent/any wastewater is not allowed to mix with storm water.
(h)	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.	o Complied. o Hazardous chemicals are stored in tanks, tank farms, drums, carboys etc. Flame arresters are provided on tank farm and solvent transfer through pumps.
(i)	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.	o Complied. o Viscose staple fibre is the main product. Hence, there is no organic residue and spent carbon generating from our plant.

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

		<ul style="list-style-type: none"> ○ Generated ETP sludge is provided to cement manufacturers as stipulated in CCA.
(j)	<p>The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.</p>	<ul style="list-style-type: none"> ○ <u>Being complied.</u>
(k)	<p>The company shall undertake waste minimization measures as below:-</p> <ol style="list-style-type: none"> i. Metering and control of quantities of active ingredients to minimize waste. ii. Reuse of by-products from the process as raw material substitutes in other processes. iii. Use of automated filling to minimize spillage. iv. Use of Close Feed system into batch reactors. v. Venting equipment through vapor recovery system. vi. Use of high pressure hoses for equipment clearing to reduce wastewater generation. 	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ The unit has undertaken waste minimization measures and will continue exploring measures to minimize at possible extent. To minimize quantity of waste, the unit has explored techniques and implemented some operational changes. ○ Few initiatives taken for waste minimization. <ul style="list-style-type: none"> ✓ ETP sludge is sold to cement units for co-processing activities. ✓ Mass/volume flow meters installed for Active ingredients i.e. CS₂, H₂SO₄, NaOH etc dosing to minimize waste. ✓ Atomization for Raw material feeding and dosing is done for minimizing of spillage and leakages. ✓ Salt recovery plant is installed. ✓ Sweeping and mopping machines have been procured for floor cleaning activities instead of floor washing to reduce the waste water generation ✓ By-products from the process are reused as raw material substitutes in other processes. ✓ Automated filling & packing m/c are installed to minimize spillage and also closed feed system is used for the continuous process reactors. ✓ Vapor recovery systems installed to recover Raw material and water which is reused in the process. ✓ For reduction of wastewater generation, High pressure jets are used for equipment clearing. ✓ Vapor condensate water is recycled through RO to minimize waste water generation.

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

(l)	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.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ Green belt has been developed in the campus along the boundary wall and open spaces. Totally 1,85,000 trees have been planted in the premises in such a way that density of plantation is 1000 trees per acre and green belt of 30 meters width has been developed. ○ As per the directives of DoEF, we have also planted Mangrove in 100 Ha. at Raniyo Island spending to Rs. 20.00 Lacs.
(m)	All the commitments made regarding issues raised during the public hearing/consultation meeting held on 30 th August, 2017 shall be satisfactorily implemented.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ All the commitments made regarding issues raised during the public hearing have been implemented satisfactorily.
(n)	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ Unit is going for production increase quantity phase wise and prorata basis 2.5 % of the total project cost has been allocated for Enterprise Social Commitment based on item-wise details along with time bound action plan has been prepared and submitted to the Ministry's Regional Office.
(o)	The company shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with the adequate stack height as per CPCB guidelines.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Presently, There is no D.G. Set installed for Power generation. ○ In case of installation of D.G. Set in future, Proper arrangements for the control of noise form drilling activity will be taken care, proper acoustic enclosures and adequate stack height will be provided.
(p)	The unit shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ During manufacturing process in material handling the unit has made all the arrangements for protection of possible fire hazards and the fire fighting systems are as per the norms.
(q)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Awareness programs are being conducted on health by CMO and by ABG Emergency Code Red. ○ First aid training is being arranged on periodic interval, which covers all categories of employees, workmen. ○ Medical check-up is being done six monthly, for those employees who engaged in handling hazardous substances at work place area. ○ All the Employees are covered under Health Survey ○ Medical records of employees and contract workers are maintained online and individual person can see the read only data for current and past health record for himself only from any computer in Unit.

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

(r)	Continuous online (24x7) monitoring system for stack emissions and the effluent, shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and the effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ For effluent monitoring; ○ Online TOC Meter has been installed and this isconnected to the GPCB online server. ○ For Stack Monitoring; ○ Online monitor is provided for SO₂, NO_x, and PM for monitoring the emissions from Power Plant. ○ Online stack monitoring system at CPP is provided & connected with GPCB/CPCB server. ○ Online stack monitoring systems are installed for Rayon and CS₂ plant stack And SO₂ analyzer also installed at Acid plant stack.
(s)	Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. Raw material storage should not exceed 3 days at any point of time.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Individual storage yard, coal yard have been identified by unit for storage of raw material. ○ EC amendment has been obtained for specific condition, which mentioned that Raw material storage shall not exceed 30 days at any point of time.
(t)	The energy sources for lighting purposes shall preferably be LED based. A minimum of 10-20% of the total power requirement for the industrial operations shall be met from non-conventional energy resources/solar supply.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Unit has already replaced energy source as LED based for lighting purpose in plant as well as colony area. ○ Unit is in progress to use renewable energy at plant site to meet the requirement of a minimum of 10-20% of the total power requirement for the industrial operations through hybrid non- conventional energy source.
12.1	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.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Unit is in compliance for the conditions and standard stipulated in consolidated consent and authorization issued by GPCB.

**‘Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW’**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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 adequacy of the conditions imposed and to add additional environmental protection measures required, if any.	<ul style="list-style-type: none"> ○ <u>Noted.</u> ○ No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in upward and downward direction as well as where maximum ground level concentrations are anticipated.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Unit has installed 3 nos. of continuous AAQMS systems in plant premises with the consultation with GPCB officers and 3 other AAQMS systems installed at down wind direction area and regularly checking the parameters of CS₂, H₂S, SO₂, NO_x, PM₁₀ and PM_{2.5}.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be complied with.	<ul style="list-style-type: none"> ○ <u>Complied.</u>
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 viz. 75 dBA (day time) and 70 dBA (night time). 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).	<ul style="list-style-type: none"> ○ <u>Being Complied.</u> ○ Quarterly monitoring the noise level in and around the plant area being conducted. ○ A Summary of noise level monitoring for the reporting period is given below:

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

NOISE LEVEL MEASUREMENT						
Month			Dec-20		Mar-21	
Sr. No.	Location	Department	dBA	dBA	dBA	dBA
			Day	Night	Day	Night
1	Simplex room line 1&2	Viscose	57	63	52	60
2	Simplex room line 3&4	Viscose	55	62	58	63
3	Office area Viscose and MIS	Viscose	44	47	44	48
4	Near Maturing Drum	Viscose	53	61	57	61
5	Pulper Operator	Viscose	55	59	55	61
6	Sodastation Office	Viscose	43	46	43	52
7	Sodastation Area	Viscose	54	58	55	61
8	GDP area	Viscose	62	66	63	67
9	Blower room (Top Floor)	Viscose	62	68	62	68
10	Road between Viscose and Spinning	-	40	46	42	48
11	Bailing Press area line-1&2	Spinning	55	59	56	60
12	Bailing Press area line-1	Spinning	56	61	58	62
13	Dryer Office	Spinning	42	48	41	45
14	Fine Opener Line # 2	Spinning	57	61	58	62
15	Bailing Press area line-3	Spinning	58	63	58	61
16	Bailing Press area line-4	Spinning	57	61	57	61
17	Fine Opener Line # 3	Spinning	58	62	60	64
18	Fine Opener Line # 4	Spinning	61	63	59	63
19	Dryer # 3	Spinning	55	61	58	61
20	Dryer # 4	Spinning	56	62	57	62

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

21	Dryer # 3 & 4 cabin	Spinning	46	51	47	51
22	Aft treatment Oper. Line 3&4 cabin	Spinning	47	52	48	52
23	Aft treatment Oper. Line 1&2 cabin	Spinning	62	65	63	67
24	Spinning M/C-2	Spinning	59	64	59	65
25	Jet room # 3, 4	Spinning	52	57	54	58
26	Spg office line 3 & 4	Spinning	44	49	43	48
27	Spinning M/C-3	Spinning	58	62	58	63
28	Spinning M/C-4	Spinning	60	62	58	62
29	Pump House	Fire Stn.	53	58	52	57
30	Acid plant (Control room inside)	Acid Plant	39	44	39	44
31	Blower Old Plant (Outside)	Acid Plant	62	67	62	67
32	Blower (New Plant)	Acid Plant	65	64	64	69
33	Offices (Acid)	Acid plant	38	43	39	43
34	Ammonia Compressor # 3 area	CS2 Refinery	66	69	65	69
35	Ammonia Compressor # 1 area	CS2 Refinery	61	63	62	67
36	Near Chiller Area	CS2 Refinery	59	65	58	63
37	H2S Gas holder area	CS2 plant	49	54	49	54
38	CS2 control room	CS2 plant	40	44	39	43
39	Charcoal Feeder	CS2 plant	43	48	45	48
40	Furnace area	CS2 plant	49	52	50	53
41	Pump House	WTP	57	61	58	62
42	Operator room (Inside)	WTP	43	47	43	48
43	Operator room (Outside)	WTP	56	61	52	60

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

44	Office	WTP	39	45	40	43
45	Lab	WTP	41	45	40	42
46	EC entrance	EC	36	41	37	41
47	TG ground floor area (Near MCC)	EC	43	48	44	59
48	MCC room (ground floor)	EC	39	43	41	44
49	Compressor area (Khosla Crepelle)	EC	62	66	61	66
50	Between 3PA Fan 1 & 2	EC	47	52	46	52
51	Between 3FD Fan # 1 & 2	EC	52	54	52	55
52	Between 2FD Fan 1 & 2	EC	55	61	55	58
53	Between 2PA Fan 1 & 2	EC	58	62	58	63
54	Near Turbine # 1	EC	59	62	60	64
55	Near Turbine # 2	EC	62	67	62	66
56	Office Gallary	EC	47	53	47	51
57	Turbine # 3 floor (Near Generator)	EC	58	62	58	63
58	EC Control room (Outside)	EC	59	63	58	63
59	EC Control room (inside)	EC	40	44	41	45
60	Office / Conf. Room	Auxiliary	43	47	43	48
61	Drum Dryer - 8.0 mtr.	Auxiliary	56	60	55	60
62	Vibrators	Auxiliary	58	63	58	63
63	RVF / TFF - 13 mtr	Auxiliary	59	64	58	62
64	RVF / TFF - 19 mtr blower (Old)	Auxiliary	60	65	61	65
65	RVF / TFF - Operator room	Auxiliary	47	52	46	50
66	RVF / TFF - blower top floor area (Old)	Auxiliary	64	68	63	67

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

67	RVF / TFF - blower top floor area (New)	Auxiliary	65	69	64	69
68	Crystalization office - New plant (out)	Auxiliary	56	61	57	62
69	Crystalization office - New plant (In)	Auxiliary	48	53	50	53
70	MSFE office - Old Plant (Outside)	Auxiliary	55	59	54	58
71	MSFE office - Old Plant (Inside)	Auxiliary	47	53	48	51
72	Cooling towew # 3	Auxiliary	58	62	59	63
73	Cooling towewr - New Plant - CS2 side	Auxiliary	49	54	48	53
74	Workshop Hall	Workshop	53	57	54	59
75	Office	Workshop	42	47	41	52
76	Gate 1	Boundary area	56	48	55	50
77	Gate 2	Boundary area	56	48	54	50
78	TRADC circle	Boundary area	58	48	59	49

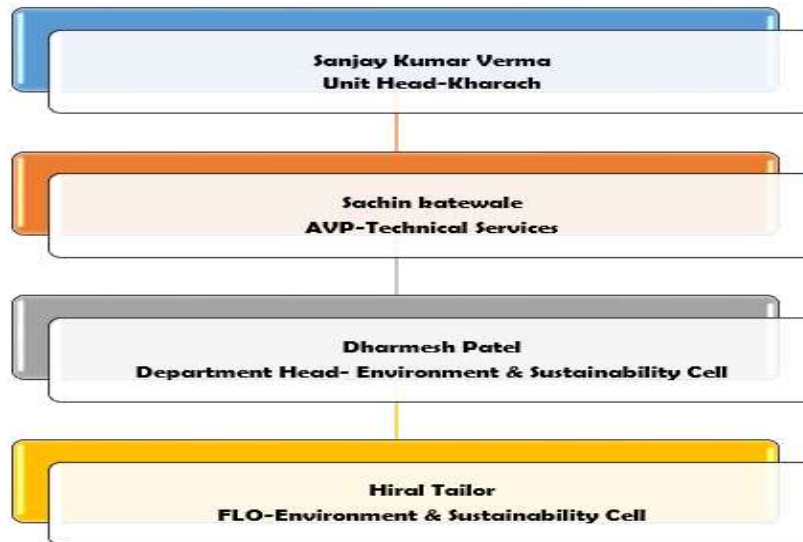
(vi)	The Company shall harvest rainwater from the tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	<ul style="list-style-type: none"> o <u>Being Complied.</u> o Rainwater is being harvested to conserve the fresh water and recharge the ground water. In the Monsoon season approx. 364350 M3 was conserved.
(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.	<ul style="list-style-type: none"> o <u>Complied.</u> o All the employees have been provided with proper training to handle any emergency and periodically hired the experts for training also. o Safety video for employees and visitors has been prepared. All important safety information contains guide templates provided to educate more about safety at work place. o PPE has been made compulsory when people enter from plant gate #2. Identified the area where more precautionary PPE's required like coal handling area, lime handling area, CS2 plant, etc. o Provision of PPE's like safety shoes, safety goggles, dust mask, ear plug has been made available by the unit for all employees and visitors. Additionally,

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

		extra care of PPE's has also been provided to those who work at critical area.
(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.	<ul style="list-style-type: none"> o <u>Being complied.</u> o Unit is in compliance with the environmental protection measures and safeguards recommended in EIA / EMP / Risk Analysis Reports. & public hearing is being done.
(ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR 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.	<ul style="list-style-type: none"> o <u>Being complied.</u> o Unit is going for production increase quantity phase wise. As per total project cost; Various community development measures in and around 32 villages have been taken by the unit. o A separate budget allocated for the same.
(x)	A separate Environment Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	<ul style="list-style-type: none"> o <u>Complied.</u> o A separate environment management cell has been constituted under the leadership of Facility Head. o The detailed Organization chart is given below:

Organization Structure for Environment Management Cell



**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

(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.	<ul style="list-style-type: none"> o <u>Complied.</u> o The funds earmarked for the environmental protection measures are being maintained and not diverted for other purpose. o Unit has kept separate budget to meet the capital & recurring cost for maintaining the environment -cost for all instrument, pipe line and ETP. o A year wise expenditure on environment safeguards is being submitted to MOEF and CC at the end of each FY along with EC compliance report each year.
------	---	--

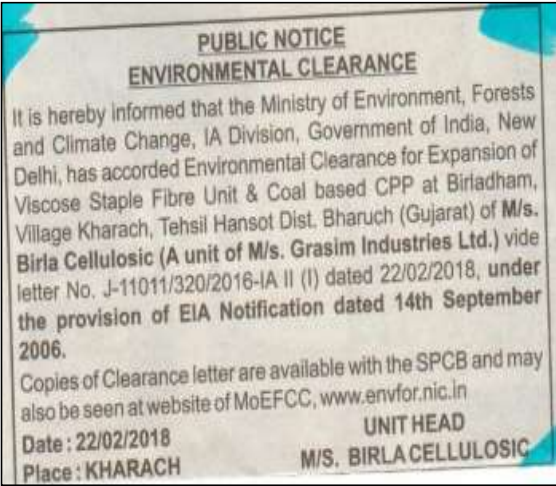

o Environment expenditure for FY-21 is given below:

Sl. No.	Particulars	Expenses on Env. Management (in INR)
1	ETP/ STP Costing :	71,067,769
2	Green belt development/Horticulture Expenses:	8,829,915
3	Waste handling Expenses	5,841,508
4	Improvement Projects Cost	159,600,000
5	APCM/CEMS/AAQMS cost (Power/Maintenance/Repairing cost)	47,251,656
6	Salaries & wages	19,083,258
7	Environmental audits & other legal activities	2,421,059
Total Expenses		314,095,164

(xi)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	<ul style="list-style-type: none"> o <u>Complied.</u> o A copy of clearance letter has been submitted to District Industries Centre, District Panchayat, Collector Office, GPCB-RO & GPCB-HO.
(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.	<ul style="list-style-type: none"> o <u>Complied.</u> o Every six monthly compliance report is being submitted to Regional Office of MOEF & CC, Bhopal and SPCB. o Compliance report for the period of April-20 to Sept-20 was submitted on 10.11.2020. o Last six monthly Environment clearance compliance report uploaded on company's website.
(xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is	<ul style="list-style-type: none"> o <u>Complied.</u> o The environmental statement for each financial year ending 31st March in Form-V is being submitted to

**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
and
Coal based CPP from 25 MW to 45 MW'**

**Compliance of Environmental Clearance Conditions by
M/s. Birla Cellulosic (A unit of Grasim Ind. Ltd.) At Kharach, Hansot, Bharuch, Gujarat**

	<p>mandated shall be submitted to concerned State Pollution Control Board as per 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 environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.</p> <p>Gujarat State Pollution Control Board as per prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.</p> <ul style="list-style-type: none"> Unit is uploading copy of Environment statement on company's website as prescribed in EC.
<p>(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.</p>	<ul style="list-style-type: none"> Complied. Advertisement has been published within 7 days from the date of issue of the clearance letter and copy forwarded to Ministry's Regional Office at Bhopal. Refer EC advertisement copy is enclosed below.
 <p>PUBLIC NOTICE ENVIRONMENTAL CLEARANCE</p> <p>It is hereby informed that the Ministry of Environment, Forests and Climate Change, IA Division, Government of India, New Delhi, has accorded Environmental Clearance for Expansion of Viscose Staple Fibre Unit & Coal based CPP at Birladham, Village Kharach, Tehsil Hansot Dist. Bharuch (Gujarat) of M/s. Birla Cellulosic (A unit of M/s. Grasim Industries Ltd.) vide letter No. J-11011/320/2016-IA II (I) dated 22/02/2018, under the provision of EIA Notification dated 14th September 2006.</p> <p>Copies of Clearance letter are available with the SPCB and may also be seen at website of MoEFCC, www.envfor.nic.in</p> <p>Date : 22/02/2018 Place : KHARACH</p> <p align="right">UNIT HEAD M/S. BIRLA CELLULOSIC</p>	 <p align="center">જાહેર સૂચના (પર્યાવરણ મંજૂરી)</p> <p>આ સાથે જણાવવામાં આવે છે કે પર્યાવરણ પત્ર અને ક્લાઇમેન્ટ ચેન્જ મંત્રાલય આઈ.એ. વિભાગ, ભારત સરકાર, નવી દિલ્હી દ્વારા મેસર્સ બિરલા સેલ્યુલોઝીક (મેસર્સ ગ્રાસિમ ઇન્ડસ્ટ્રીસનો યુનિટ) બિરલાધામ, ગામ: ખરચ, તાલુકા: હાસોટ, જિલ્લો: ભરૂચ (ગુજરાત) જાતે વિસ્કોસ સ્ટેપલ ફાઇબર યુનિટ અને કોલ બેઝ સી.પી.પી. પ્લાન્ટના વિસ્તરણ માટેની પર્યાવરણીય મંજૂરી તારીખ ૨૨/૦૨/૨૦૧૮ ના પત્ર ક્રમાંક J-11011/320/2016-IA II (I) દ્વારા ઈ.આઈ.એ. નોટીફિકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ નોગવાઈ હેઠળ આપેલ છે.</p> <p>ઉપરોક્ત પત્રની નકલ સ્ટેટ પોલ્યુશન કંટ્રોલ બોર્ડ ઉપરાંત MoEF ની વેબસાઈટ www.envfor.nic.in ઉપર ઉપલબ્ધ છે.</p> <p>તારીખ: ૨૨/૦૨/૨૦૧૮ સ્થળ: ખરચ</p> <p align="right">યુનિટ હેડ મેસર્સ બિરલા સેલ્યુલોઝીક</p>
<ul style="list-style-type: none"> English Advertisement 	<ul style="list-style-type: none"> Gujarati Advertisement