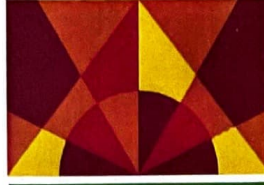


ADITYA BIRLA



GRASIM

Dated: 15.10.2023

ID: 14989

Birla Cellulosic- Kharach

To,

**Mr. Yogesh Kumar (IRO),
Ministry of Environment, Forest and Climate Change
Aaranya Bhavan, Gandhingar.**

Subject: Half Yearly Environmental Clearance Compliance Report for period of "April-23 to Sept-23".

Dear Sir,

In view of above subject matter, Here, we are submitting the hard copy/soft copy of half yearly Environmental Clearance Compliance report along with copy of EC-2018 (Amended copy) No. J. 11011/320/2006-IA II (I) dtd. 31.12.2018 for the report period from "April-23 to Sept-23".

Hope, the same is in order.

**Yours Faithfully,
(For Birla Cellulosic)**

**Manish Patel
LH- Technical Services**

Encl. :

- 1. EC Copy**
- 2. EC-2018- Amendment Compliance report (April-23 to Sept-23)**

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**
- 3. MOEFCC office - Ministry of Environment, Forest & Climate Change, New Delhi.**



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 Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi -3

Dated: 31st December, 2018

✓ To

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

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

Sir,

This refers to your proposal No. IA/GJ/IND2/59092/2016 dated 22nd March, 2018 for amendment in environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has granted environmental clearance vide letter dated 22nd February, 2018 in favour of M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) to the project for expansion of Viscose Staple Fiber Unit and Coal based CPP located at Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat).


3. Now, amendment in the said environmental clearance has been sought in respect of the specific conditions at para 12 (s) relating to storage of raw materials and that at para 12(t) for power requirement to be met from non-conventional energy resources/solar power.

4. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 27-29 August, 2018. The Committee has recommended for amendment *in specific condition 12 (s) stipulated in the environmental clearance dated 22nd February, 2018, to be read as under:*

'Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. In case of raw materials identified as the hazardous one under the MSIHC Rules, 1989, the statutory provisions contained therein shall continue to be followed. For the remaining raw materials, storage shall not exceed 30 days at any point of time.'

5. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the amendment in environmental clearance dated 22nd February, 2018, **as stated in para 4 above**, with all other terms and conditions stipulated therein remain unchanged.

6. This issues with approval of the competent authority.


31/12/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Additional PCCF(C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16

2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. Guard File/Monitoring File/Website/Record File

SKS
31/12/2018
(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

EC letter no. & Date : F.No.J-11011/320/2016-IA II (I) DATED 31.12.2018

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

Duration/Reporting period : April-23 to Sept-23

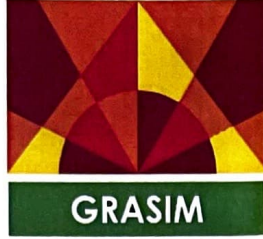
S.No.	Compliance Conditions by MoEF & CC	Action taken by Birla Cellulosic
1.	This refer to your proposal no. IA/GJ/IND2/59092/2016 dated 22nd March,2018 for amendment in environmental clearance to the above project.	o <u>Noted.</u>
2.	The Ministry of Environment, Forest & Climate Change has granted environmental clearance vide letter dated 22nd February, 2018 in favor of M/s Birla Cellulosic (A Unit of M/s Grasim Industries Ltd) to the project for expansion of viscose Staple Fibre unit & Coal based CPP located in Birladham, Village Kharach, Tehsil Hansot, District Bharuch (Gujarat).	o <u>Noted.</u>
3.	Now, amendment in the said environmental clearance has been sought in respect of the specific conditions at para 12(s) relating to storage of raw materials and that at para 12(t) for power requirement to be met from non-conventional energy resources/solar power.	o <u>Noted.</u>
4.	The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 27-29 August,2018. The Committee has recommended for amendment in specific condition 12 (s) stipulated in the environmental clearance dated 22nd February,2018, to be read as under: 'Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions. In case of raw material identified as their hazardous one under the MSIHC Rules, 1989, the statutory provisions contained therein shall continue to be followed. For the remaining raw materials, storage shall not exceed 30 days at any point of time.'	o <u>Noted & Complied.</u> o Covered Storage yards, warehouses, tanks etc has been provided for individual Raw material storage.

**'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**

5.	Based on recommendation of their EAC, the Ministry of Environment, Forest & Climate Change hereby accords approval to the amendment in environmental clearance dated 22nd February, 2018, as stated in para 4 above, with all other terms and conditions stipulated therein remain unchanged.	○ <u>Noted & shall be abide.</u>
6.	This issue with approval of the competent authority.	○ <u>Noted.</u>

ADITYA BIRLA



Dated:15.10.2023

ID: 14989

Birla Cellulosic- Kharach

To,

**Mr. Yogesh Kumar (IRO),
Ministry of Environment, Forest and Climate Change
Aaranya Bhavan, Gandhingar.**

Subject: Half Yearly Compliance Report of Environmental Clearance for period of "April-23 to Sept-23".

Respected 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 "**April-23 to Sept-23**".

Hope, the same is in order.

**Yours Faithfully,
(For Birla Cellulosic)**

**Manish Patel
LH- Technical Services**

Encl. :

- 1. EC Copy**
- 2. EC-2018 Compliance report (April-23 to Sept-23)**

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**
- 3. MOEFCC office - Ministry of Environment, Forest & Climate Change, New Delhi.**



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Fibres from nature

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Dist. Bharuch (Gujarat) - 394 120 INDIA
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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 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.
- (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 (Gujarat) – 394120

Duration/Reporting period : April-23 to Sept-23

S.No	Compliance Conditions by MoEF & CC	Action taken by Birla Cellulosic
1.	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 proceeding/details.	○ <u>Noted.</u>
2.	The Ministry of Environment and 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:	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Unit has obtained EC for VSF production capacity up to 2,33,600 TPA along with 45 MW CPP on 22.02.2018, which was amended on 31.12.2018. ○ Unit has obtained EC to CTE for VSF production capacity up to 2,33,600 TPA along with 45 MW CPP on 06.09.2019. ○ According to market scenario, In first phase, obtained CCA-amendment for VSF production capacity up to 1,42,350 TPA (1,27,750 Existing + 14,600 Debottlenecking) along with 25 MW CPP & 70 TPD Solvent Spun Cellulosic fibre along with 15 MW CPP having CCA order no. AWH-101226 dated: 23.05.2019 valid up to 11.04.2024. ○ In second phase, obtained CCA amendment for VSF production capacity up to 1,56,950 TPA having CCA order

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

The other products (intermediate/ 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.

no. AWH-104181 dated: 29.11.2019 valid up to 11.04.2024.

- In continuation with that, obtained CCA amendment for Sodium Sulphate recovery max. up to 1,56,950 TPA having CCA order no. AWH-111124 dated: 19.03.2021 valid up to 11.04.2024.
- In third phase, obtained CCA amendment for VSF capacity upto 1,73,375 TPA and Sodium sulphate recovery max up to 1,73,375 TPA having CCA order no. AWH-115368 dated: 30.10.2021 valid up to 11.04.2024.
- Unit has obtained CTE-amendment for installation of D.G. Set & EDTA/CAP System, along with increase quantity of production at TRADC on 17.11.2022.
- Recently, Unit has obtained CCA-Amendment for installation of D.G. Set, TRADC, Installation of zinc recovery system & EDTA/CAP settle up on 11.09.2023.

3. Existing plant area is 242.81 ha. and no 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.

- **Complied.**
- Adequate Green belt has developed in the campus along the boundary wall and open spaces.
- 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.

- **Being complied.**
- Unit is going for production increase quantity phase wise.
- The funds earmarked for the environmental protection measures are being maintains and not diverted for other purpose.
- Unit has kept separate budget to meet the capital & recurring cost for maintaining

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	<p>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.</p>	<p>the environment -Cost for all Environment related instrument, pipe-line and ETP.</p> <ul style="list-style-type: none"> ○ A year wise expenditure on environment safeguards & towards Enterprise Social commitment is being submit to MOEF&CC at the end of each FY along with EC compliance report. Expenses for FY-24 will be submit in next EC compliance report. ○ As per total project the unit has taken cost; various community development measures in and around 32 villages. A separate budget allocated for the same. 																						
<p>5.</p>	<p>"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.</p> <p>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 24 km long pipeline falling in CRZ area. The unit has already</p>	<ul style="list-style-type: none"> ○ Noted & Complied. ○ A Summary of water Consumption for the reporting period is given below: <table border="1" data-bbox="971 1100 1425 1604"> <thead> <tr> <th>Month</th> <th>Quantity (M3/Month)</th> </tr> </thead> <tbody> <tr> <td>April-23</td> <td>358340</td> </tr> <tr> <td>May-23</td> <td>366587</td> </tr> <tr> <td>June-23</td> <td>355965</td> </tr> <tr> <td>July-23</td> <td>409288</td> </tr> <tr> <td>Aug-23</td> <td>415014</td> </tr> <tr> <td>Sept-23</td> <td>402851</td> </tr> <tr> <td>Total</td> <td>2308045</td> </tr> <tr> <td>Average (M3/Day)</td> <td>12612</td> </tr> </tbody> </table> ○ The Half- yearly average water Consumption is 12612 M3/day, which is less than the quantity mentioned in Agreement. ○ A Summary of treated effluent for the reporting period is given below: <table border="1" data-bbox="959 1766 1425 1898"> <thead> <tr> <th>Month</th> <th>Quantity (M3/Month)</th> </tr> </thead> <tbody> <tr> <td>Apr-23</td> <td>178010</td> </tr> </tbody> </table> 	Month	Quantity (M3/Month)	April-23	358340	May-23	366587	June-23	355965	July-23	409288	Aug-23	415014	Sept-23	402851	Total	2308045	Average (M3/Day)	12612	Month	Quantity (M3/Month)	Apr-23	178010
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**'Expansion of Viscose Staple Fibre unit from 1,27,750 to 2,33,600 TPA
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	<p>obtained the CRZ clearance from the Ministry vide letter dated 17th January, 2007 for the said pipeline.</p> <p>The domestic effluent of 1500 KLD shall be treated in the STP and then recycled for greenbelt development.”</p>	<table border="1"> <tr><td>May-23</td><td>202552</td></tr> <tr><td>Jun-23</td><td>196565</td></tr> <tr><td>Jul-23</td><td>159382</td></tr> <tr><td>Aug-23</td><td>196794</td></tr> <tr><td>Sep-23</td><td>188751</td></tr> <tr><td>Total</td><td>1122054</td></tr> <tr><td>Average (M3/Day)</td><td>6132</td></tr> </table> <p>o The Sewage water from the plant and township is being treat in the well-established STP and recycled for green belt development.</p>	May-23	202552	Jun-23	196565	Jul-23	159382	Aug-23	196794	Sep-23	188751	Total	1122054	Average (M3/Day)	6132
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6.	<p>"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.”</p>	<p>o <u>Being complied.</u></p> <p>o Unit has 2x100 & 1x120 TPH coal fired boiler, these boilers are sufficient to meet power requirement of unit at present.</p> <p>o Unit has installed 3 No. of ESP having three fields with boiler 1 & 2, four fields with boiler 3 having 99.9% efficiency to control particulate matter emission from flue gas.</p>														
7.	<p>Details of process emissions along with the control measures are as under:</p> <table border="1"> <thead> <tr> <th>Emission</th> <th>Source</th> <th>Management Measures</th> </tr> </thead> <tbody> <tr> <td rowspan="2">CS₂</td> <td>VSF Plant spinning</td> <td>o CS2 Recovery System (46.55% recovery). o Powerful Exhaust System for spinning off gases (CS2 and H2S). o Air Dilution with adequate stack height.o Shutters for spinning machine.</td> </tr> <tr> <td>CS₂ Plant</td> <td>o Oil Scrubbing system for recovery of CS2. o Alkali Scrubber o Klaus kiln for recovery</td> </tr> </tbody> </table>	Emission	Source	Management Measures	CS ₂	VSF Plant spinning	o CS2 Recovery System (46.55% recovery). o Powerful Exhaust System for spinning off gases (CS2 and H2S). o Air Dilution with adequate stack height.o Shutters for spinning machine.	CS ₂ Plant	o Oil Scrubbing system for recovery of CS2. o Alkali Scrubber o Klaus kiln for recovery	<p>o <u>Complied.</u></p> <p>o Unit has adopted all the control measures to control emissions.</p> <p>o As an additional measure, Presently, A project of EDTA scrubbing technology for recovering Sulphur from H2S gas and CAP system for CS2 recovery are under stabilization phase. After successfully completion of both EDTA & CAP, CS2 recovery will be increase.</p>						
Emission	Source	Management Measures														
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			of sulphur o Dust extraction cum Ventury Scrubbing system for Furnances.
SO ₂	H ₂ SO ₄ Plant		o Alkali Scrubber
	CPP boiler		o Lime dosing in boiler o Adequate stack height (as per CPCB guidelines).
Acid Mist	H ₂ SO ₄ Plant		o Mist eliminator
PM	CPP boiler		o ESPs
Fugitive Emissions	CPP- Handling & Storage		o Covered storage yard to store coal at the plant site. o Silos to store fly ash at the plant site. o Transportation of fly ash through closed tankers / bulkers. o Dust collection system to control dust emission. o Water sprinkling to reduce dust generation. o Greenbelt / plantation done along the plant boundary to attenuate air pollution.
	CS ₂ Plant- Sulphur handling		o Covered storage yard for storage of sulphur. o Sulphur melting in closed system.

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

Hazardous Waste Treatment and Disposal Facilities				
Type of waste	Schedule No.	Quantity	Treatment	Disposal practice
ETP Sludge	35.3	4100.69	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	4.59	Stored in Drums and disposal as per CCA condition	Disposed at TSDF, BEIL, Ankleshwar
Spent Resin	35.2	6	Stored in drums and neutralize	Reutilize for energy recovery in boiler as a waste to energy recovery as per CCA
Sulphur Deashing sludge	17.1	170.05	Stored in storage rooms which is fully covered	Disposed at TSDF, BEIL, Ankleshwar
Discarded containers and Liners	33.3	2609 (39.01)	Decontamination is done at user point in Unit and stored in dedicated storage yard	Sold to authorised recycler as per guidelines of CC&A.
HDPE Bags	33.3	33.13	Collected and stored in dedicated storage yard	Sold to authorised recycler as per guidelines of CC&A.
Used oil	5.1	5.07	Collected and stored in drums	Sold to authorised recycler as per guidelines of CC&A.

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.	o Noted.
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.	o Noted.

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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.	○ <u>Noted.</u>
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 term and conditions as below:-	○ <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.	○ <u>Complied.</u> ○ Unit has obtained EC to CTE for VSF production capacity up to 233600 TPA along with 45 MW having vides order no. CTE-15575 dated: 06.09.2019. ○ According to market scenario, In first phase, obtained CCA-amendment for VSF production capacity up to 1,42,350 TPA (1,27,750 Existing + 14,600 Debottlenecking) along with 25 MW CPP & 70 TPD Solvent Spun Cellulosic fibre along with 15 MW CPP having CCA order no. AWH-101226 dated: 23.05.2019 valid up to 11.04.2024. ○ In second phase, obtained CCA amendment for VSF production capacity up to 1,56,950 TPA having CCA order no. AWH-104181

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		<p>dated: 29.11.2019 valid up to 11.04.2024.</p> <ul style="list-style-type: none"> ○ In continuation with that, obtained CCA amendment for Sodium Sulphate recovery max. up to 1,56,950 TPA having CCA order no. AWH-111124 dated: 19.03.2021 valid up to 11.04.2024. ○ In third phase, obtained CCA amendment for VSF capacity upto 1,73,375 TPA and Sodium sulphate recovery max up to 1,73,375 TPA having CCA order no. AWH-115368 dated: 30.10.2021 valid up to 11.04.2024. ○ Unit has obtained CTE-amendment for installation of D.G. Set & EDTA/CAP System, along with increase quantity of production at TRADC on 17.11.2022. ○ Recently, Unit has obtained CCA-Amendment for installation of D.G. Set, TRADC, Installation of zinc recovery system & EDTA/CAP settle up on 11.09.2023.
(b)	<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>	<p>○ <u>Noted & Complied.</u></p> <ul style="list-style-type: none"> ○ An agreement with Irrigation Department has been made for water withdrawal @ 19000 M3/day. ○ A Summary of water Consumption for the reporting period is given in point no. (5). ○ The Half- yearly average water Consumption is 12612 M3/day, which is less than the quantity mentioned in Agreement.
(c)	<p>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 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.</p>	<p>○ <u>Noted & Complied.</u></p> <ul style="list-style-type: none"> ○ As stipulated in the CCA, we have installed a separate 24 KM long underground pipeline for discharging the treated effluent in the estuary of Kim River 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

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		<p>disposal point was suggested by NIO, Goa.</p> <ul style="list-style-type: none"> ○ A Summary of treated effluent for the reporting period is given in point no. (5). ○ The Half- yearly average effluent discharge is 6132 M3/day, which is less than the quantity mentioned in consent. ○ As stipulated by GPCB, we have also provided lined guard ponds with a holding capacity of 65,000 M3 for storing treated waste-water while taking-up any repair work on the treated effluent pipeline. Such stored water is also discharge to Kim Estuary through effluent carrying pipeline.
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○ 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	100	250	100	50	100	10
Apr-23	7.56	34.8	47	126	28	5.40	50	0.54
May-23	7.41	36.9	46	142	38	3.90	60	0.36
Jun-23	7.56	32.1	38	118	27	4.3	40	0.48
Jul-23	7.4	31.9	37	134	24	6.2	60	0.57
Aug-23	7.38	29.8	35	121	28	4.1	50	0.38
Sep-23	7.2	33.4	47	122	26	5.3	45	0.56

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

Parameter	TSS	BOD	Residual Free Chlorine	pH
Unit	mg/Lit.	mg/Lit.	mg/Lit.	-
Limit	<30	<20	Min 0.5	-
Apr-23	26	16	0.60	7.31
May-23	21	18	0.80	7.59
Jun-23	19	18	0.70	7.65
Jul-23	24	17	0.80	7.29
Aug-23	21	15	0.70	7.12
Sep-23	19	14	0.82	7.29

- | | | |
|-----|--|--|
| (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 | <ul style="list-style-type: none"> ○ <u>Noted & shall be complied.</u> ○ CCA-Amendment (including authorization for the Hazardous and Other Wastes) for production increase |
|-----|--|--|

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	<p>and the provisions contained in the Rules shall be strictly adhered to.</p>	<p>upto 1,73,375 TPA received on 30.10.2021 having GPCB consent order no. AWH-115368 valid up to 11.04.2024.</p> <ul style="list-style-type: none"> ○ Recently, unit has obtained CCA-Amendment (including authorization for the Hazardous and Other Wastes) received on 11.09.2023 having CCA order no. AWH-128730 valid up to 11.04.2024. ○ Generated ETP sludge is being dispatch 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 solid/hazardous waste generation and management is given in point no. (8).
(e)	<p>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.</p>	<ul style="list-style-type: none"> ○ <u>Not applicable.</u> ○ We are not engaged in manufacturing of organic chemicals, as these standards are not applicable. ○ We are engaged in manufacturing of Viscose Staple Fiber.
(f)	<p>To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS.</p>	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ To control Sulphur emission, Unit has installed lime injection systems at coal feeders of boilers (2x100 & 1x120 TPH). ○ To control particulate matter emissions, Unit has installed ESP.

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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.

- Sulphur content of the imported coal and indigenous coal is being analyze and record for the same is being maintain.
- Unit has installed 3 nos. of Continuous ambient air quality monitoring stations in consultation with GPCB.
- Unit has also installed 4 nos. of offline Ambient air quality monitoring stations within premises.
- 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 Flue gas emission from stack for the reporting period is given below:

Location	Boiler-1 & 2 (76 m)			Boiler-3 (86 m)			
	SPM	SO ₂	NO _x	SPM	SO ₂	NO _x	Mercury
Unit	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³
Limit	100	600	600	50	600	300	0.03
Apr-23	58.48	254.10	85.56	42.73	237	82.61	ND
May-23	60.54	251.47	90.01	43.62	241	85.01	ND
Jun-23	56.80	256.00	89.50	46.20	251	84.10	ND
Jul-23	54.68	253.00	87.50	44.67	247	83.44	ND
Aug-23	57.43	249.34	84.83	42.83	243	80.11	ND
Sep-23	55.92	254.00	88.24	45.73	248	82.68	ND

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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	
	CS2	H2S		SO2	Acid Mist	SO2	Acid Mist
Unit	Kg/ToF			Kg/ToA	mg/Nm3	Kg/ToA	mg/Nm3
Limit	125			2	25	2	25
Apr-23	90.40	17.54	107.94	0.86	11.04	Plant was under Overhauling	
May-23	86.47	19.28	105.75	0.83	10.09	0.70	7.46
Jun-23	87.33	20.20	107.53	0.86	10.10	0.74	6.90
Jul-23	80.68	11.65	92.33	0.84	10.17	0.72	6.74
Aug-23	90.58	8.84	99.42	0.80	11.29	0.76	7.34
Sep-23	86.07	10.18	96.25	0.83	12.06	0.79	7.92

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

Location	Ambient air Quality					
Parameter	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
Apr-23	53.10	34.71	15.79	24.11	27.20	31.28
May-23	53.84	35.39	15.87	24.67	27.99	32.32
Jun-23	60.72	36.36	12.92	23.52	24.95	27.79
Jul-23	57.08	33.64	14.65	25.68	22.18	28.41
Aug-23	52.20	33.75	15.90	23.26	23.49	29.74
Sep-23	50.37	33.47	18.19	27.56	21.63	18.26

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

Location	Ambient air Quality							
Parameter	Ozone	Lead	CO	Benzene	BAP	Arsenic	Nickel	Ammonia
Unit	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3
Limit (8 hr avg.)	100	0.5	2	5	1	6	20	100
June-23	19.67	ND	0.83	ND	ND	ND	ND	9.57
Sept-23	11.37	ND	0.87	ND	ND	ND	ND	7.80

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(g)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Process effluent/any wastewater is not allowed to mix with storm water. ○ All storm water drain of plant as well as colony area are at the end meeting to Storm water well. ○ The conserved quantity in this storm water well as well as in separate pit is being harvest to conserve the fresh water. In the Monsoon season, approx. 408804 M3 rain water was conserved & utilized within plant premises along with hard water. Currently, we are not recharging ground 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.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ 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.	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ We are not engaged in manufacturing of organic chemicals; we are engaged in manufacturing of Viscose Staple Fiber. Hence, there is no organic residue and spent carbon being generated from our plant. ○ Generated ETP sludge is provided to cement manufacturers as stipulated in CCA.
(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.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ Unit strictly adheres the applicable rules & regulations for manufacture, storage and Import of Hazardous Chemicals rules, 1989 as amended in 2000 and the public Liability Insurance Act for handling of hazardous chemicals. ○ Approval for chlorine storage has taken on 26.09.2018 and valid up to 30.09.2023.

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		<ul style="list-style-type: none"> ○ Approval for possession and sales of Sulphuric acid has taken on 27.02.2018 and valid up to 27.02.2028. ○ Approval for Ammonia, DA gas storage has taken on 17.03.2022 and valid up to 30.09.2027. ○ Unit has obtained factory license #6059 and registration# 165/17114/1997 dated 06.07.2021 which is valid up to 31.12.2026. ○ Handling, manufacturing, storage and transportation of hazardous chemicals is being carry out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended time to time. ○ On-site and Off-site Disaster Management Plans available with the Unit.
(k)	<p>The company shall undertake waste minimization measures as below:-</p> <ul 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 sell to cement units for pre-processing/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

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		<p>washing to reduce the waste water generation</p> <ul style="list-style-type: none"> ✓ 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 cleaning. ✓ Vapor condensate water is recycled through RO to minimize waste water 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.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ Adequate Green belt has been develop in the campus along the boundary wall and open spaces.
(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 has 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. ○ A year wise expenditure on environment safeguards & towards Enterprise Social commitment is being submit to MOEF&CC at the end of each FY along with EC compliance report. Expenses for FY-24 will be submit in next EC compliance report.
(o)	The company shall make all arrangements for control of noise from the drilling activity.	<ul style="list-style-type: none"> ○ <u>Being complied.</u> ○ Unit has installed 2 no. of D.G. Set having capacity ~4 MW.

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	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"> ○ Along-with D.G. Set unit has provided 30 m stack height & acoustic enclosure.
(p)	The unit shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling. Firefighting 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 firefighting systems are as per the norms. ○ Unit has provided 1198 nos. of Extinguisher at BC plant and 300 nos. of Extinguisher at mfg. plant of Solvent spun cellulosic fibre. ○ Extinguisher bottle pressure testing schedule has been made and maintain the extinguisher standard. ○ Unit has 2 nos. of fire tender with capacity of 8500 liters water and 1000 liters foam.
(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 is 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 conducted annually for all employees and six monthly, for those employees who engaged in handling hazardous substances at work place area. ○ All the Employees are covered under Health Survey. Periodic and pre-joining medical check-up for each and every employees and Contractual worker is being done. ○ Medical records of employees and contract workers are maintained online and the individual person can access his own record as read only from any computer in the Unit.
(r)	Continuous online (24x7) monitoring system for stack emissions and the effluent, shall be installed	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ For effluent monitoring;

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	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"> ○ Online TOC Meter for monitoring of BOD,COD, pH, Flow, TOC has been installed and this is connected to the GPCB/CPCB 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.
(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> ○ Covered Storage yards, warehouse, tanks etc have been provided for individual Raw material storage. ○ EC amendment has been obtained on 31.12.2018 vides order no. F.No.J-11011/320/2016-IA II (I) with specific condition, "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 purchasing RPO for Renewable energy 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. ○ Unit has installed hybrid plant having capacity of 4.4 MW (2.5 MW power supplying) along with coordination of M/s. Renew power for generation of hybrid energy.
12.1	The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:	<ul style="list-style-type: none"> ○ <u>Noted.</u>
(i)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control	<ul style="list-style-type: none"> ○ <u>Complied.</u> ○ Unit is in compliance for the conditions and standard stipulated in consolidated

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	Board (SPCB), State Government and/ or any other statutory authority.	consent and authorization issued by GPCB.
(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>Being Complied.</u> ○ A Summary for Ambient Air quality for the reporting period is mentioned in Point no. 12-(E).
(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"> ○ Regular monitoring the noise level in and around the plant area is being conducted.

○ A summary for noise level monitoring for the reporting period is given below:

SR. No.	LOCATION	NOISE LEVEL [dB (A)]			
		June-23		Sept-23	
		Day	Night	Day	Night

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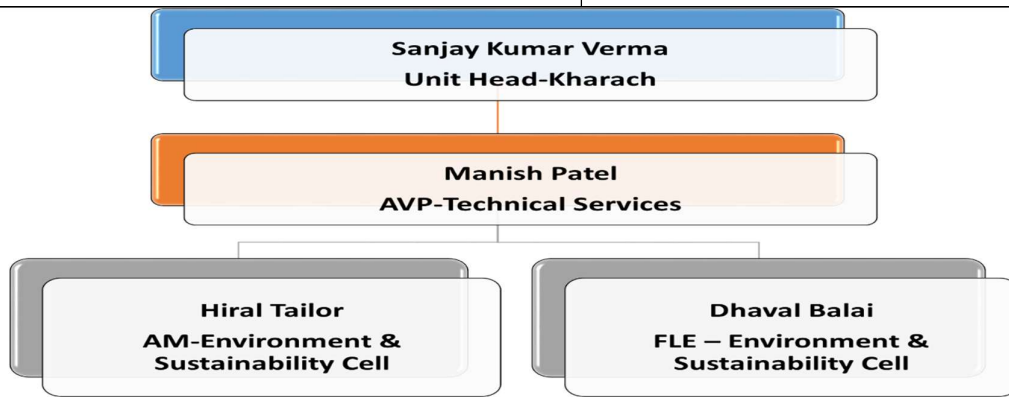
1	Office- Workshop	54	42	54	42
2	Gate 1	56	48	56	48
3	Gate 2	57	50	57	50
4	TRADC circle	50	48	50	48
5	Shopping Centre	49	41	48	40
6	D-Block	47	42	47	41
7	School	46	37	45	39
8	Hospital	43	38	43	38

(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.	<p>○ <u>Being Complied.</u></p> <p>○ Rainwater is being harvest to conserve the fresh water. In the Monsoon season, approx. 408804 M3 rain-water was conserved & utilized within plant premises along with hard water.</p> <p>○ Currently, we are not recharging ground water.</p>
(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.	<p>○ <u>Complied.</u></p> <p>○ Safety trainings including Chemical handling are being provide to all the employees on regular basis for safe working and to handle any emergency. Also experts are hired for training purpose.</p> <p>○ Safety videos for employees and visitors have been prepared. All important safety information contains guide templates provided to educate more about safety at work place.</p> <p>○ Arranging 10-days mandatory safety orientation program for new joiners prior to take a charge of concern dept., also arranging bi-refreshernal training as per schedule TNI for existing employees.</p> <p>○ For all outside visitors, safety induction is mandatory prior to enter into plant.</p> <p>○ PPEs are mandatory in the plant. PPEs like safety shoes, safety goggles, dust mask, ear plug, helmet etc made available for all employees and visitors in the plant. Additionally, job specific or special</p>

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		category PPEs are also provided to those who work in critical area. ○ Periodic medical check-up for all the employees are being done
(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.	○ Being complied. ○ Unit is in compliance with the environmental protection measures and safeguards recommended in EIA / EMP / Risk Analysis Reports and in public hearing.
(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.	○ Being complied. ○ Unit is going for production increase phase wise. As per total project cost, various community development measures in and around 32 villages have been taken by the unit. ○ A separate budget is being 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.	○ Complied. ○ A separate environment management cell has been constituted under the leadership of Facility Head. ○ The detailed Organization chart is given below:



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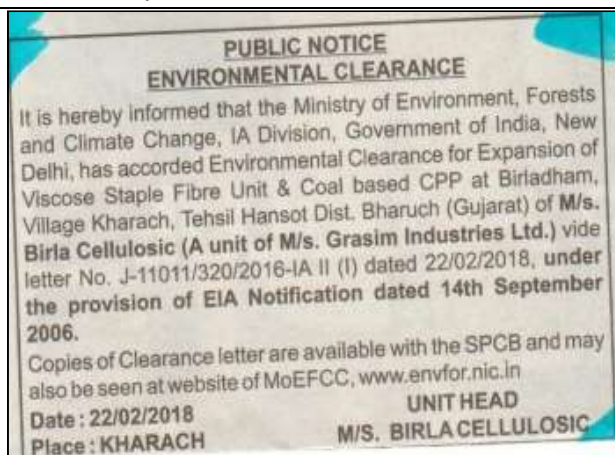
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(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation 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"> ○ <u>Complied.</u> ○ The funds earmarked for the environmental protection measures are being maintained and not diverted for other purpose. ○ Unit has kept separate budget to meet the capital & recurring cost for maintaining the environment -cost for all instrument, pipe line and ETP. ○ A year wise expenditure on environment safeguards & towards Enterprise Social commitment is being submitted to MOEF&CC at the end of each FY along with EC compliance report. Expenses for FY-24 will be submit in next EC compliance report.
(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"> ○ <u>Complied.</u> ○ 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"> ○ <u>Complied.</u> ○ Every six monthly hard copy of compliance report is being submitted to, IRO office of MOEF & CC, Gandhinagar & SPCB. ○ Every six monthly soft copy of compliance report is being submitted to online parivesh portal of MOEF & CC & sending by E-mail also. ○ Six monthly Compliance report for the period of Oct-22 to March-23 was submitted in hard/soft copy in May-23. ○ Last six monthly Environment clearance compliance report uploaded on company's website.

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m	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to concerned State Pollution Control Board as 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>o Complied. o The environmental statement for each financial year ending 31st March in Form-V is being submitted to Gujarat State Pollution Control Board as per prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. Annual Environment statement for FY-23 is submitted on 29.04.2023. o Unit is uploading copy of Environment statement on company's website as prescribed in EC & send to MOEFCC regional office through mail along-with EC compliance report.</p>
(xv)	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at 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>	<p>o Complied. o 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>



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	English Advertisement	Gujarati Advertisement
13.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	○ <u>Noted.</u>
14.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner will implement these conditions.	○ <u>Noted.</u>
15.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous waste (Management, Handling & Transboundary movement) rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	○ <u>Complied.</u>