

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, we are submitting the hard copy as well as soft copy of half yearly Environmental Clearance Compliance report along with copy of EC-1997, No. J. 11012/85/95-IA II (I) dtd. 16.01.1997 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-1997 Compliance report (Oct-20 to Mar-21)

### CC To:

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





Fax +91 2646 270010, 270130 Email bc-kharach.info@adityabirla.com No.J.11012/85/95-IA II(I)

GOVT. OF INDIA MINISTRY OF ENVIRONMENT & FOREST PARYAVARAN BHAWAN, CGO COMPLEX LODHI ROAD, NEW DELHI-110003.

TELE : 4363964.

Dated 16.1.97

To,

The Chairman & Managing Director, Birla Cellulosic (Grasim Industries Ltd.) 4th Floor, UCO Bank Building, Parliament Street, New Delhi-110001

Subject: - Viscose Staple Fibre Plant at Bharuch Environmental Clearance.

Sir,

This has reference to letter dated 1st August 1995, 27th March, 1996 and 30th September, 1996 regarding your application for setting up a 60,000 TPA capacity Viscose Staple Fibre Plant and 15 MW coal based CPP at Bharuch District, Gujarat. The Ministry of Environment and Forests has carefully examined your application. It is observed that no forest land or rehabilitation is involved. The plant is based on imported pulp.

- 2. The Ministry of Environment and Forests hereby accords environmental clearance subject to the strict compliance of the terms and conditions mentioned below:
- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of this Ministry.
- iii. The industry should set up a pilot plant and standardize the technology for incineration of CS2/H2S Yich stream before commissioning the plant. The feasiblity of incinerating the entire stream containing CS2 and H2S instead of segregating and burning only CS2 and H2S stream should also be explored and report submitted to the

Ministry within a period of 1 year for review. The emission of H2S should not exceed 10 mg/Nm 3.

- iv. Gaseous and particulate emissions (H2S, SO2, CS2, NOX and SPM) from the various process units should conform to the standards prescribed by the concerned authorities from time to time. At no time, the emissions level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be put out of operation immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.
  - Six air quality monitoring stations should be set up in the down wind direction as well as where maximum ground level concentrations of H2S, SPM, SO2, CS2, NOX are anticipated in consultation with the State Pollution Control Board. The air quality monitoring stations should be selected on the basis of modelling exercise to represent short term ground level concentrations, sensitive targets etc.

Stack emissions should be monitored regularly by setting stack monitoring devices in consultation with the State Pollution Control Board.

Data on stack emissions and ambient air quality including work zone should be submitted to this Ministry once in six months and the State Pollution Control Board once in three months along with the statistical analysis.

- vi. Work area air quality should meet the standards prescribed by the competent authorities/OSHA. CS2 level should be less than 100 ppm in the work zone. Leakages from the ducts should be rectified, meshing windows should be sealed and better house keeping should be practiced to improve the work area air quality.
- vii. Fugitive emisions should be controlled; regularly monitored and data recorded. Sensors for defection of CS2 and H2S and chlorine should be provided; at appropriate places in the complex in consultation with the State Pollution Control Board.
- viii. Liquid effluents coming out of the plant and the township should comply with the norms stipulated by the competent authorities from time to rime. Recycling and reuse of the treated waste water should be maximised to the extent possible.
- ix. Guard ponds of sufficient holding capacity should be provided to cope up with the effluent discharge during the process disturbances. The contributing units should be immediately shut down and should not be restarted without bringing the system back to normalacy.

- Adequate number of effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be varried out for PH, S, BOD3, COD, Zn and colour. The monitored data along with statistical analysis and interpretation in the form of a report should be submitted to this Ministry once in six months and the SPCB once in three months.
- xi. Marine Impact Assessment Study report should be submitted to the Ministry for review. Recommendations made by NIO in the Marine Impact Study should be strictly adhered to the Marine outfall point for discharge of treated effluent should also have the approval of SPCB.
- Waste (Management & Handling) Rules, 1989 of the Environment (Protection) Act, 1986.
- xiii. Handling, manufacturing, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994.

The approval of the Chief Inspector of Explosives should also be obtained.

- xiv. Medical survelliance and occupational health programme should be taken up on regular basis and record of the health status of the workers should be maintained. The worker's who may contract occupational diseases particularly due to carbon disulphide exposure should be monitored closely and adequate measures should be taken for their treatment and recovery.
- xv. A Green belt of adequate width and density (2000-2600 trees/ha) should be raised all around the factory complex and the township. Preferably native plant species should be selected for this purpose in consultation with the local DFO.
- XVi. The project authorities must set up adequate facilities for collection and analysis of samples under the supervision of competent technical personnel who will directly report to the Chief Executive.
- xvii. A separate Environmental Management Cell with suitably qualified people to carry out various functions should be set up under the control of Senior Executive, who will report directly to the Head of the organisation.
- xviii. The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for other purpose and year-wise expenditure

should be reported to this Ministry.

- This Ministry or any competent authority may stipulate any further condition(s) after review of the monitoring reports. The above conditions will be monitored by the Regional Office of this Ministry located at Bhopal/CPCB/GSPCB.
- 4. The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.
- 5. Any other condition(s) or alteration in the existing conditions will be fully implemented by the project authorities within the specified time frame.
- 6. The above conditions will be implemented under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981. Environment (Protection) Act, 1986 and the Public (Liability) Act, 1991 along with their amendments.

(Dr.R.Warrier). Joint Director

Michiell

# Copy to:- ..

- 1. Secretary, Ministry of Industry, Udyog Bhavan, New Delhi.
- 2. Chairman, Gujarat State Pollution Control Board, Old Assembaly Bldg, 2nd Floor, Sector 10-A, Gandhinagar.
- 3. Chairman Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, Delhi.
- 4. Secretary, State-Deptt.of Env.Govt.of Gujarat Sachivalaya, Block No. 5, 6th Floor, Gandhinagar.
- 5. Chief Conservator of Forests, Regional office, 3/240. Arear Colony, Bhopal.
- 6. Adviser (H), EI Section, Ministry of Environment & Forest, New Delhi.
- 7. Additional Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, New Delhi.

# should be reported to this Ministry.

- Thin Ministry or any competent authority may stipulate any further condition(s) after review of the monitoring reports. The above conditions will be monitored by the Regional Office of this Ministry located at Bhopal/CPCB/GSPCB.
- 4. The Ministry may revoke or suspend the clearance if implementation of any of the above condition is not satisfactory.
- 5. Any other condition(s) or alteration in the existing conditions will be fully implemented by the project authorities within the specified time frame.
- The above conditions will be implemented under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981. Environment (Protection) Act, 1986 and the Public (Liability), Act, 1991 along with their amendments.

(Dr.R.Warrier)
Joint Director

Ancelle

# Copy to: -

- 1. Secretary, Ministry of Industry, Udyog Bhavan, New Delhi.
- Chairman, Gujarat State Pollution Control Board, Old, Assembaly Bldg, 2nd Floor, Sector 10-A, Gandhinagar.
- Chairman Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, Delhi.
- 4. Secretary, State-Deptt.of Env.Govt.of Gujarat Sachivalaya, Block No. 5, 6th Floor, Gandhinagar.
- Chief Conservator of Forests, Regional office, 3/240. Arear Colony, Bhopal.
- 6. Adviser (H), EI Section, Ministry of Environment & Forest, New Delhi.
- 7. Additional Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, New Delhi.

- 8. Guard File
- 9. Record File.
- 10. Monitoring File

(Dr.R.Warrier)
Joint Director

### &

# Captive Power Plant (CPP) from 15 MW to 25 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 : Setting up of Viscose Staple fibre plant (60,000 TPA) and

15 MW coal based TPP

EC letter no. & Date : J-11012/85/95-IA II(I) dated 16-01-1997 Dtd: 16.01.1997

Address for Correspondence : M/s. Birla Cellulosic (A Unit of Grasim Industries Ltd.)

Birladham, Village: Kharach, Kosamba (R.S.), Tehsil: Hansot, District: Bharuch (Gujrat) – 394120

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

S. No	Conditions	Compliance Status
i.	The project authorities must strictly	o Complied.
	adhere to the stipulations made by the	o All stipulations made by GPCB in various
	state pollution control board and the	consent and authorizations are strictly
	state Government.	complied.
ii.	No further expansion or modification in	o <u>Noted.</u>
	the plant should be carried out without	o No further expansion or modifications in the
	prior approval of this ministry.	plant will be carried out without prior
		approval of the Ministry of Environment,
		Forest and Climate Change.
iii.	The industry should set up a pilot plant	o Complied.
	and standardize the technology for	o The industry installed the pilot plant and
	incineration of CS <sub>2</sub> /H <sub>2</sub> S rich stream	standardize the technology for incineration
	before commissioning the plant. The	of CS <sub>2</sub> /H <sub>2</sub> S rich stream before
	feasibility of incinerating the entire	commissioning the plant.
	stream containing CS <sub>2</sub> /H <sub>2</sub> S instead of	o Sulphur recovery plant has been provided to
	segregating and burning only CS <sub>2</sub> /H <sub>2</sub> S	recover Sulphur from CS2/H2S rich stream
	stream should also be explored and	coming from CS2 plant.
	report submitted to the ministry within	o Presently there are 4 spinning machines and
	a period of 1 year for review. The	each of the spinning machines has been
	emission of H <sub>2</sub> S should not exceed 10	provided with a 3 stage CS <sub>2</sub> condensing
	$mg/Nm^3$ .	system along with CS <sub>2</sub> recovery system
		comprising recovery through steam injection
		and a water scrubber for condensing the
		steam. The vapors from the scrubber are
		passed through the CS <sub>2</sub> condensing system.
		o The emission concentration of CS2/H <sub>2</sub> S is

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	Conditions	Compliance Status
		being maintained as per GPCB Norms.
iv.	Gaseous and particulate emission (H <sub>2</sub> S,	o Being complied.
	$SO_2$ , $CS_2$ , $NO_x$ and $PM$ ) from the	o Unit has appointed NABL accredited
	various process units should conform	laboratory M/s. Pollucon laboratories pvt.
	to the standards prescribed by the	ltd. for monthly monitoring of Stack
	concerned authorities from time to	concentration as well as ambient air quality.
	time. At no time, the emission level	o As per the monitoring conducted by their
	should go beyond the prescribed	team, The results are well within the
	standards. In the event of failure of any	prescribed norms as per consent condition.
	pollution control system adopted by the	o Multiple gas sensors and alarm systems
	units, the respective unit should be put	Inter-linking with the pollution control
	out of operation immediately and	Equipments/units have been provided so that
	should not be restarted until the control	early indication of malfunctioning can be
	measures are rectified to achieve the	detected and control measures can be taken
	desired efficiency.	accordingly. In case of any event of
		completely failure of pollution control
		equipment, the respective unit(s) is stopped.

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

Location	Boil	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	

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

# S. No Conditions Compliance Status

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	

- Six air quality monitoring stations be set up in the downwind directions as well as where maximum ground level concentrations of H2S, SPM, SO2, CS2, NOx are anticipated in consultation with the state pollution board. control The air quality monitoring stations exercise represent short term ground level concentrations, sensitive targets etc.
  - Stack emission should be monitored regularly by setting stack monitoring devices in consultation with the state pollution control board.

Data on stack emission and ambient air quality including work zone should be submitted to this ministry once in six months and the state pollution control board once in three months.

# o Being complied.

- o Unit has installed 3 nos. of Continuous ambient air quality monitoring stations in consultation with GPCB.
- o Unit has also installed 4 nos. of offline Ambient air quality monitoring stations within premises.
- o 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.
- o Stack Emissions are regularly monitored and the continuous emission monitoring system has been installed at the stacks.

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

# S. No Conditions Compliance Status

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

Location		Average of AAQMS Station 1, 2 & 3						
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		
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		
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

vi. Work area air quality should meet the standards prescribed by the competent authorities / OSHA. CS<sub>2</sub> level should be less than 100 ppm in the work zone. Leakages from the ducts should be rectified, meshing windows should be sealed and better housekeeping should be practiced to improve the work area air quality.

# o Being complied.

- Work zone environment for emission of CS2,
   H2S and SO2 is being regularly monitored by our Laboratory twice in a week.
- o A Summary of Work area air quality for the reporting period is given below:

Area	CS <sub>2</sub>	H <sub>2</sub> S	SO <sub>2</sub>
	(ppm)	(ppm)	(ppm)
Std. (As per GFR)	10	10	2
Refinery- CS2 Area	Min: 1.2 Max: 2.1 Ave: 1.6	Min: 1.2 Max: 2.3 Ave: 1.7	Min: 00 Max: 00 Ave: 00
Furnace- CS2 Area	Min: 1.3 Max: 2.1 Ave: 1.7	Min: 1.4 Max: 2.4 Ave: 1.8	Min: 00 Max: 00 Ave: 00
Rayon plant	Min: 1.4 Max: 3.4 Ave: 2.2	Min: 1.5 Max: 2.7 Ave: 2.0	Min: 00 Max: 00 Ave: 00
Spin Bath- Auxillary area	Min: 1.2 Max: 2.3 Ave: 1.7	Min: 1.4 Max: 2.3 Ave: 1.8	Min: 00 Max: 00 Ave: 00

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	Conditions		Compliance	Status	
		MSFE- Auxillary area	Min: 1.4 Max: 2.4 Ave: 1.8	Min: 1.4 Max: 2.4 Ave: 1.8	Min: 00 Max: 00 Ave: 00
		Anhydra- tion & Crystalization Auxillary	Min: 1.2 Max: 2.4 Ave: 1.7	Min: 1.2 Max: 2.4 Ave: 1.7	Min: 00 Max: 00 Ave: 00
		Acid plant	Min: 1.2 Max: 2.2 Ave: 1.6	Min: 1.5 Max: 2.5 Ave: 1.8	Min: 00 Max: 00 Ave: 00
		Xanthator- Viscose area	Min: 1.2 Max: 3.1 Ave: 1.9	Min: 1.3 Max: 2.5 Ave: 1.8	Min: 00 Max: 00 Ave: 00
		Ripening- Viscose area	Min: 1.2 Max: 2.9 Ave: 1.8	Min: 1.4 Max: 2.4 Ave: 1.8	Min: 00 Max: 00 Ave: 00
		Washing- Viscose area	Min: 1.2 Max: 2.8 Ave: 1.8	Min: 1.4 Max: 2.4 Ave: 1.9	Min: 00 Max: 00 Ave: 00
		environment exploring to a suction cutters, shut and perfect various tank o Provision o	t are being the chniques liberal hoods on specific sealing of the control of the	ing contrible Motorized pinning match roller & all the open ch.	ted shutter achines & & gear box benings in
		o Online gas	detectors in	nstalled in	the work

### &

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	Conditions	Compliance Status
		zone around the spinning machines.  Motorized shutters and completely closed after treatment machine with suction duct are there to control fugitive emission.
vii.	Fugitive emissions should be controlled, regularly monitored and data recorded. Sensors for detection of CS <sub>2</sub> and H <sub>2</sub> S and chlorine should be provided at appropriate places in the complex in consultation with the state pollution control board.	o Being complied. o Fugitive emissions are being controlled & regularly monitored. o Presently there are 5 Nos. of CS2 sensors, 17 Nos. of H2S sensors installed at CS2 plant and 5 Nos. of Chlorine sensor installed at Chlorine area. 8 Nos. of CS2 sensors and 7 Nos. of H2S sensors installed at spinning machine area. 12 Nos. of SO2 sensors installed at CS2/Acid Plant.
viii.	Liquid effluents coming out of the plant and the township should comply with the norms stipulated by the competent authorities from time to time.	o Being complied.  o Unit has appointed NABL accredited laboratory M/s. Pollucon laboratories pvt. ltd. for monthly monitoring of waste water from the plant and township is/ treated in the well-established ETP and STP.  o As per the monitoring conducted by their team, The results are well within the prescribed norms as per consent condition.

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

Parameter	pН	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

## Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	No Conditions						Complian	ce Status	
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

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

Parameter	TSS	BOD	Residual Free Chlorine	COD	Nitrogen	Fecal Coliform	рН
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
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

- ix. Guard ponds of sufficient holding capacity should be provided to cope up with the effluent discharge during the process disturbances. The contributing units should be immediately shut down and should not be restarted without bringing the system back to normally.
- \_ \_

o Complied.

o Complied.

- x. Adequate number of effluent quality monitoring stations should be set up in consultation with the state pollution control board. Regular monitoring should be carried out for pH, SS, BOD, COD, Zn and color.
- o Adequate number of effluent quality monitoring stations i.e. Online Analyser, Online pH Analyser etc are set up in consultation with the Gujrat pollution control board. Regular monitoring is being carried out for pH, SS, BOD, COD, Zn & color by the internal laboratory on daily basis **NABL** and accredited Laboratory

o Unit has constructed guard pond with

discharge pipeline maintenance if any.

sufficient holding capacity for effluent storage to cope up with the effluent

The monitored data along with statistical analysis and interpretation in the form of a report should be submitted

### &

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	Conditions	Compliance Status
	to this ministry once in six month and	monthly basis.
	the SPCB once in three months.	o Results are enclosed in reply of point no. viii.
xi.	Marine Impact Assessment study report	o Complied.
	should be submitted to the ministry for	o In FY'07, Unit has appointed NIO to carry
	review. Recommendations made by	out Pre-marine impact assessment study.
	NIO in the Marine impact study should	o At present, NIO, Mumbai has carried out
	be strictly adhered to the Marine outfall	Post Monitoring study in FY'19.
	point for discharge of treated effluent	
	should also have the Approval of SPCB.	
xii.	The hazardous wastes should be	o Complied.
	handled as per Hazardous waste	o Unit has segregated Hazardous/solid waste
	(management & Handling) Rules, 1989	according to its characteristics and stored
	of the Environment (Protection) Act,	separately for treatment and disposal in safe
	1986.	manner as per Waste handling and disposal
		Rules.
xiii.	Handling, manufacturing, storage and	o Complied.
	transportation of hazardous chemicals	o Approval for chlorine storage has been taken
	should be carried out in accordance	for 10 tons on 26.09.2018 and valid up to 30-
	with the Manufacture, Storage and	Sep- 2023.
	Import of Hazardous Chemicals Rules,	o Also, valid factory license #6059 and
	1989 as amended in October, 1994.	registration# 165/17114/1997 dated 15-oct-
	The approval of the chief Inspector of	2016 and valid up to 31-Dec-2021 has been
	Explosives should also be obtained.	obtained.
		o Handling, manufacturing, storage and
		transportation of hazardous chemicals is
		being carried out in accordance with the
		Manufacture, Storage and Import of
		Hazardous Chemicals Rules.
xiv.	Medical surveillance and occupational	o <u>Complied.</u>
	health program should be taken up on	o Medical surveillance is being done in every
	regular basis and record of the health	six months, for the employees who engaged
	status of the workers should be	in handling hazardous substances at work
	maintained. The workers who may	place area.
	contract occupational diseases	o First aid training being arranged on periodic

### &

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

S. No	Conditions	Compliance Status
	particularly due to carbon disulphide exposure should be monitored closely and adequate measures should be taken for their treatment and recovery.	interval, All the Employees are being covered under Health Survey through Periodic and pre-joining medical checkup for each and every employee and Contractual workers.  o 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.
XV.	A green belt of adequate width and density (2000-2600 trees/ha.) should be raised all around the factory complex and the township. Preferably native plant species should be selected for this purpose in consultation with the local DFO.	o Complied. o Green belt has been developed within the plant premises, along the boundary wall and open spaces. o As on date the ~1,85,000 trees have been planted in the premises covering the density as 1000 trees per acre. Native plant species has been selected in consultation with DFO and as per the directives of DoEF, Mangroves have been planted in 100 Ha. at Raniyo Island.
xvi.	The project authorities must set up adequate facilities for collection and analysis of samples under the supervision of competent technical personnel who will directly report to the chief executive.	o Complied. o Adequate facilities have been developed for the collection and analysis of samples under the supervision of competent technical personnel who directly reports to the chief executive at the plant.
xvii.	A separate Environmental Management Cell with suitably qualified people to carry out various functions should be set up under the control of senior executive, who will report directly to the Head of the organization.	o <u>Complied.</u> o A separate environment management cell has been constituted under the leadership of Facility Head.

# Captive Power Plant (CPP) from 15 MW to 25 MW

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

# S. No Conditions Compliance Status Organization Structure for Environment Management Cell Sanjay Kumar Verma Unit Head-Kharach Sachin batewale AVP-Technical Services Dharmesh Patel Department Head- Environment & Sustainability Cell Hiral Tailor FLO-Environment & Sustainability Cell

xviii.

The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for other purpose and year – wise expenditure should be reported to this ministry.

# o Complied.

- The funds earmarked for the environmental protection measures are being maintained and not diverted for diverted for other purpose.
- o A year wise expenditure on environment safeguards is being submitted to MOEF & CC at the end of each FY along with EC compliance report of each year.

# o Environment expenditure for FY-21 is given below:

Sl. No.	Particulars	Expenses on Env. Management (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
<b>Total Expenses (Rs.)</b>		314,095,164