

10/11/2020

The Advisor,

Ministry of Environment, Forest & Climate Change
Regional Office – Western Region
E-5, Kendriya Paryavaran Bhawan,
Arera Colony, Ravishankar Nagar
Bhopal – 462 016 (M.P.)

Dear Sir,

<u>Subject: Half yearly compliance report–Environmental Clearance (MoEF&CC) from Apr-2020 to Sep-2020.</u>

Please find enclosed herewith the compliance reports for;

Six monthly EC compliance report of Environmental clearance

- 1. F. No. J-11011/463/2007-I(A), II(I), dated 20/12/2007,
- 2. F. No. J-11011/321/2016-I(A), II(I) Pt., dated 15/01/2018 &
- 3. F. No. J-11011/321/2016–I(A), II(I), dated 17/10/2019 as per directive of MoEF&CC, New Delhi.

Hope, you will find the same in order.

Yours Faithfully, For Grasim Industries Limited (Unit: Grasim Cellulosic Division, Vilayat)

Ashish Garg

Sr. President & Unit Head

Encl.: a.a

Six Monthly Compliance Report of Environmental Clearance For

Expansion of Viscose Staple Fibre, Captive Power Plant and Setting up Solvent Spun Cellulosic Fibre



EC-2018

Submitted to:-

Ministry of Environment Forest & Climate

Change, (WR Office) Bhopal Ministry of Environment
Forest & Climate Change, New Delhi
Central Pollution Control Board, Zonal Office
(Vadodara) Gujarat Pollution Control Board-Bharuch

Submitted By:-

Grasim Industries Limited

(Unit: - Grasim Cellulosic Division)

Plot No. 1 GIDC Vilayat Industrial Estate,

PO-Vilayat, Taluka-Vagra, Dist.: - Bharuch392012, Gujarat, India

Period: -01.04.2020 to 30.09.2020

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat Project

List of Annexure

Sr. No.	Title	Annexure No.						
1	Copy of Water Agreement	Annexure-01						
2	GIDC Approval for Water Effluent	Annexure-1A						
3	Effluent Treatment - Monthly Monitoring Report from Third Party	Annexure-02						
4	NABL Certificate : Unistar	Annexure-03						
5	Chlor Alkali : Amendment in Name	Annexure-04						
6	MoEF EC Compliance letter - CA plant	Annexure-05						
7	EC Amendment	Annexure-06						
8	Ambient Air Quality Report : Monthly Monitoring Report from Third Party							
9	Rain Water Harvesting Report							
10	Training Details	Annexure-09						
11	Status of EIA/EMP	Annexure-10						
12	Acknowledgment of Six monthly EC Compliance Report	Annexure-11						
13	Form-V: Environmental Statement	Annexure-12						
14	Advertisement Details	Annexure-13						
15	BEIL membership	Annexure-14						
16	GPCB Monthly Patrak- Sep-20 Annexure-15							
17	CCA Compliance Report (Apr-20 to Sep-20) Annexure-A							

Note: Due to COVID 19 lockdown, Our manufacturing process was totally stopped from 23.03.2020 to 19.06.2020, hence third party monitoring was not carried out for Apr-2020 & May-2020.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For

Grasim Cellulosic Division (GCD), Vilayat

-: Introduction: -

- 1. Grasim Industries Limited (GIL), incorporated on 25th Aug., 1947; is a flagship company of the Aditya Birla Group and India's pioneer in manufacturing of Viscose Staple Fibre (VSF) a man-made, biodegradable fibre with characteristics akin to cotton.
- 2. M/s. Grasim Industries Ltd. has four VSF Plants in India which are located at Nagda (Madhya Pradesh), Harihar (Karnataka), Kharach & Vilayat (Gujarat).
- 3. Grasim Cellulosic Division, Vilayat is a latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This is the company's first plant producing specialty grade fibre.
- 4. The Company's main production is Viscose Staple Fibre, Sulphuric Acid, Carbon-Disulphide.
- 5. All the operation related permits, including Environmental Clearance, Forest Clearance from MOEF&CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from Gujarat Pollution Control Board, are in place.
- 6. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
- 7. 04 No. of Ambient Air Quality Monitoring Stations (AAQMS) along with Environmental Parameter Display Board at main gate have been established.
- 8. Continuous Emission Monitoring System has installed in process stacks of Rayon (Fibre) plant and H2SO4 acid plant for regular monitoring of CS2, SO2 etc.
- 9. Online TOC, pH & flow meters installed at the outlet of ETP, before discharging treated effluent to GIDC pipeline.
- 10. Green belt is being developed as per the CPCB guidelines to curb the emission and also to provide an aesthetic look.
- 11. Point wise compliance status of Environmental Clearance for GCD, Vilayat is furnished herewith.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance
MOEF Ref. Letter No.: J-11011/321/2016-IA II(I)Pt, Dated 15.01.18

General Profile: -

Sr.	Stipulation	Compliance Status
No.		
1	This has reference to your proposal no. IA / GJ / IND2 /58913 /2016, dated 23rd January, 2017, submitting the EIA/EMP report on the above subject matter	
2.	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Viscose Staple Fibre from 1,27,750 TPA to 2,55,500 TPA, Captive Power Plant from 25 MW to 55 MW and setting up Solvent Spun Cellulosic Fibre unit of 36,500 TPA by M/s Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat)	Latitude: 21 deg 46'8" and 21 deg 47'11"North Longitude: 72 deg 53'18"and 72 deg 54'49"East
3.	The Existing & proposed Production capacity:	Production increased under de-bottlenecking for Viscose Staple Fibre & Sod. Sulphate after receiving EC, CTE & CTO. Following will be the products & production capacity, refer in Table No.01:-

	Table I	No. 01			
Products=>	Viscose Staple Fibre	Carbon Di sulphide	Sulfuric Acid	Sodium Sulphate (Byproduct)	Power Generation
EC Amendment As per EC No. F. No. J-11011/321/2016-IA-II(I) Pt Dated – 15.01.2018	255500	34675	182500	166076 to 210788	55 MW
EC Amendment EC No. F. No. J-11011/321/2016-IAII(I) EC issued on 17th October 2019 (Total Capacity after Expansion)	438000	65700	346750	348576 - 393288	55MW
Total Production (Tons) – Apr-20 to Sep-20	50705	9916	38373	31428	-
Total Production (Tons) – FY-20	169572	27766	118695	107381	-
Total Production (Tons) – FY-19	159629	27122	109640	108943	-
Total Production (Tons) – FY-18	133644	20297	112300	101093	-

Sr. No.	Stipulation	Compliance Status
4	The existing land area is 222.63 ha and no additional land will be required for the proposed expansion.	The existing land area is 222.63 ha and no additional land is required for the proposed expansion.
	Industry will develop greenbelt in an area of 33 % i.e., 73.46 ha out of 222.63 ha area of the project.	In order to achieve 33% greenbelt, we have developed greenbelt in our factory complex along the boundary wall and open space area. Total 85,000 nos. tree have been planted till Sep-2020 additional > 5,000 trees to be planted by Mar-21 to cover 33% of total plant area the detail action plan are Tabulated in Table No. 02
		We have developed greenbelt along with boundary wall & planted different plant species in campus area. Following are the list of plant species. Plant species were selected as per the directives of CPCB & DFO. Photograph of green belts is attached below.

Table No. 02								
Sr.	Duration	Area (Acre.) for	Number of Plant					
No		Plantation						
1	Existing	60	37,500 Plants					
	(Till FY; 2017-18)							
2	2018-19	25	15,000 Plants					
3	2019-20	25	15,000 Plant					
4	2020-21	25	15,000 Plant					
5	2021-223	25	15,000 Plant					
6	2022-23	25	15,000 Plant					
	Total=>	185	1,12,500 Plant					

Existing Plantation Species:

Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Gulmohar (Delonix regia), Rain tree (Samanea saman), Yellow Gulmohar (Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Earleaf Acacia (Acacia auriculiformis), Kadamb (Neolamarckia cadamba), Basant Rani (Tabebuia rosea), Safeda (Eucalyptus), Bougainvillea spectabilis, Lawn Plantation and Shrubbery.

The Existing Spices for plantation are Selected by following CPCB guidelines

Proposed Plantation Species: Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Saptparni (Alstonia scholaris), Gulmohar (Delonix regia), Rain tree (Samanea saman), Shisham (Dalbergia sissoo), Bel (Aegle marmelos), Arjun tree (Terminalia arjuna), Cassia fistula (Amaltas), Yellow Gulmohar (Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Kadamb (Neolamarckia cadamba), Semal/Kapok (Bombax ceiba), Jamun (Syzygium cumini), Apple blossom tree (Cassia javanica), Sausage tree (Kigelia pinnata), Basant Rani (Tabebuia rosea), Morpankhi (Thuja occidentalis), Safeda (Eucalyptus), Guh babool (Acacia farnesiana), Kaner (Nerium indicum), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Jarul (Lagerstroemia speciosa), Bougainvillea spectabilis, Lemon (Citrus lemon), Sankuppi (Clerodendrum inerme), Lawn Plantation and Shrubbery etc.

Plant species for Odor management: Neem (Azadirachta indica), Saptparni (Alstonia scholaris), Guh babool (Acacia farnesiana), Morpankhi (Thuja occidentalis), Bougainvillea (Bougainvillea spectabilis), Lemon (Citrus lemon), Kaner (Nerium indicum), Mehndi (Lawsonia inermis), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Tulsi (Ocimum sanctum), Sankuppi (Clerodendrum inerme), Jasmine tree (Plumeria alba), Jarul (Lagerstroemia speciosa), Gurhal (Hibiscus rosa sinensis), Bunchgrass (Vetiveria zizanioides) etc.

Gaseous emission (SO2 & NOx) tolerant species: Neem (Azadirachta indica), Bel (Aegle marmelos), Kasood (Cassia siamea), Earleaf Acacia (Acacia auriculiformis), Saptparni (Alstonia scholaris), Aldu (Ailanthus excelsa), Siris (Albizia lebbeck), Shisham (Dalbergia sissoo), Pipal (Ficus religiosa), White fig (Ficus infectoria), Maulsari (Mimusops elengi), Kaner (Nerium indicum), Jarul (Lagerstroemia speciosa) etc.

5	Tiger/Elephant re project site. Nar km in SSW dire	eserves, Wildlife of mada River (estu ction from the pr	corridors etc. with parine region) is a oject site	Biosphere reserves, nin 10 km from the at a distance of 9.0	Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Narmada River (estuarine region) is at a distance of 9.0 km in SSW direction from the project site. We shall met fresh water requirement through GIDC as being done for					
6		at Industrial Do	evelopment Co	day, which will be						
	D.d.o.vetle	1	No.04	2 /day)	Following are the GIDC offer cur	m allotment letter details;				
	Month	Average	Consumption (Minimum	Maximum	1) Letter No.	GIDC/POJ/MKT/GRASIM/575				
	Apr-20	1385	352	3574		Dated 06 th December-2006				
	May-20	560	287	991	Agreement for Water Supply	15.60 MLD				
	June-20	8484	406	12471	Effluent Discharge	12.48 MLD				
	July-20	13326	10577	15071	2) Letter No.	GIDC/SE/CG//BRH/1236				
	Aug-20	13950	11754	14951		Dated 29 th December-2016				
	Sep-20	14128	13295	15227	Agreement for Water Supply	25.00 MLD				
	Avg.	8639			Effluent Discharge	19.40 MLD				
		I			3) Letter No.	GIDC/BRH/WS/494				
	Note: Plant wa	s stopped in Ap	or-20 & May-20	due to COVID19		Dated 3rd.July,2019				
	lockdown, Cons Equipment wash		utilized in this	s period was for	Agreement for Water Supply	35.00 MLD				
	Necessary agre	ement of water	supply is made	with GIDC	Agreement of water supply is made with GIDC on 06.12.2006 , details as per Annexure-01 , 1A & 1B .					
	effluent treatm	ed from the pro nent plant, and Bay of Kambhat	the treated	, ,						

The estimated project cost is Rs.2560 Crores.	Spent Rs. 10 crore for debottlenecking.
	We had amended production quantity vide EC No. F. No. J-
	11011/321/2016-IAII (I); EC issued on 17th October 2019 which is
	under construction.
Employment will be provided to 1300 persons as direct & 1200	After Expansion Noted to provide the Employment: - 1300 persons as
persons indirectly after expansion.	direct & 1200 persons as indirect.
Industry proposes to allocate Rs.64.04 Crores towards enterprise	As we had amended this EC for increase in production quantity vide
social commitment	EC No. F. No. J-11011/321/2016-IAII(I) on 17th October 2019 & as per
	its condition we will spend 0.25% of total project cost against the
	CER.
	1. Primary Treatment: -Grit Chambers, Equalization
	tank, Neutralization tank & Primary Clarifier with
	sludge dewatering system installed.
	2. Extended aeration activated sludge process: -
	Diffused aeration system.
	3. Secondary treatment: - Biological reactor with
	secondary clarifier & settling tanks.

Treated effluent quality for the period of Apr-20 to Sep-20 is summarized as under <u>Table no. 05</u> Monthly Test Report from Unistar Refer as <u>Annexure – 02</u>

Third Party Lab Details: -								
Agency: - Unistar Environment & Research lab Pvt. Ltd								
Address: -GIDC, Char Rasta, Vapi								
NABL: - NABL Certificate Number TC-7753								
NABL Certificate Issue Date & Expiry Date: - 15.09.2018 to 14.09.2020								
(Copy of NABL Certificate & extension are attached with Test Report (Annexure-03))								

	Table No. 05																											
Month &		FINAL TREATED EFFLUENT																										
Date of Sampling	рН	Temp.	TSS	Oil & Grease	Fluorid e	Sulphide	TKN	Amm. N as N	Copper	Zinc	BOD	COD	Total Res Cl2	Arsenic	Mercury	Hexavalent Chromium	Trivalent Chromium	Lead	Cadmium	Nickel	Cyanide	Phenolic Comp	Seleniu m	Mangnes e	Iron		Nitrate Nitrogen	Rin Assay Test
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/li t	mg/lit	90% Survival of
GPCB limit	6.0 - 9.0	Not Exceed more than 35 deg C	100	10	15	5	50	50	3	15	100	250	1	0.2	0.01	0.1	2	0.1	0.05	3	0.2	5	0.05	2	3	0.2	50	fish after 96hrs.
Jun-20	7.31	31	24	BDL	1.3	1.2	22.7	15.5	BDL	1.59	34	119	BDL	BDL	BDL	BDL	0.05	BDL	0.03	0.19	BDL	0.65	BDL	BDL	1.33	BDL	8.60	Complied
Jul-20	7.41	29	40	BDL	1.7	BDL	32.1	26.1	0.24	0.34	62	188	BDL	BDL	BDL	0.06	0.46	BDL	BDL	0.15	BDL	0.77	BDL	BDL	2.14	BDL	4.80	Complied
Aug-20	7.42	30	16	BDL	1.1	1.4	21.4	14.1	BDL	1.31	38	133	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.14	BDL	0.37	BDL	BDL	1.24	BDL	7.10	Complied
Sep-20	7.15	29	14	BDL	5.4	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.045	BDL	BDL	BDL	BDL	BDL	BDL	4.70	Complied
Min	7.15	29	14	BDL	1.1	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	0.05	BDL	BDL	0.05	BDL	BDL	BDL	BDL	BDL	BDL	4.70	
Max	7.42	31	40	BDL	5.4	1.40	32.1	26.1	BDL	1.59	62	188	BDL	BDL	BDL	BDL	0.46	BDL	0.03	0.19	BDL	0.77	BDL	BDL	2.14	BDL	8.60	
Average	7.32	30	24	BDL	2.4	1.3	23.6	17.0	BDL	0.83	41	134	BDL	BDL	BDL	BDL	0.26	BDL	0.02	0.13	BDL	0.60	BDL	BDL	1.57	BDL	6.30	

	Total power requirement of 55 MW will be met from the captive power plant. Three 175 TPH coal/petcoke fired boilers will be installed for the proposed CPP.	Presently we are getting 25 MW captive power from the CPP of Chlor alkali plant which is in the same campus. Installation of 30 MW Captive Power Plant with one 175TPH Coal fired boiler is under progress.
	Multi cyclone separator/ bag filter with a stack of height of 125 m will be installed to control the particulate emissions within prescribed norms	We shall install ESP instead of the Multi Cyclone Separator/bag filter with a stack height of 125m to control the particulate emission within prescribe norms.
	Existing unit has 2 DG sets of 1250 KVA capacity, that are used as standby during power failure. Stack height of 30 m has been provided as per CPCB norms for the existing DG sets	Existing DG sets will be used for standby power requirement, in case any power failure. Stack height of 30 m has been provided as per CPCB norms for the existing DG sets
7	All Manmade Fibres Manufacturing (Rayon) projects are listed at 5(d) of Schedule to the Environment Impact Assessment (EIA) Notification, 2006, under Category 'A' and requires appraisal at central level by Expert Appraisal Committee (EAC) in the Ministry	

8	The terms of references (ToR) was granted on 2nd February, 2017 with the exemption from public consultation in terms of para 7 (i), Point III, Stage (3)(i)(b) of EIA Notification, 2006	Noted
9	The proposal for environmental clearance (EC) was placed before the EAC (Industry-2) in its 251h meeting held during 5-7 July, 2017 in the Ministry. The project proponent and their consultant M/s J. M. EnviroNet Pvt Ltd, presented the EIA/EMP report as per the ToR. The EAC, found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions	Noted
10	Based on the proposal submitted by the project proponent and 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 from 1,27,750 TPA to 2,55,500 TPA, Captive Power Plant from 25 MW to 55 MW and setting up Solvent Spun Cellulosic Fibre unit of 36,500 TPA' by M/s Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:	Noted

10.Terms & Conditions

i)	The environmental clearance issued by SEIAA vide letter dated 30th	The Amendment in Name has been done on 04 th May 2019; Now
,	May, 2011 for the project 'Chlor-alkali unit with value added products	the industry shall be read as M/S. Grasim Industries
	(as a backward integration of VSF plant)' at the same premises,	Limited(Chemical Division) instead of M/S. Grasim Cellulosic
	should be rectified to reflect M/s Grasim Industries Ltd (Grasim	Division.
	Chemical Division) as the project proponent in place of M/s	Please refer attached Annexure-04
	Grasim Cellulosic (A Unit of Grasim Industries Ltd)	
ii)	The Monitoring report on compliance status of the conditions	The monitoring report on compliance status of the conditions
	stipulated by SEIAA in the environmental clearance dated 30 th	stipulated by SEIAA in the environmental clearance dated 30th
	May, 2011, shall be submitted to the Ministry through the	May, 2011 has already submitted to ministry.
	Regional Office, for further review of the project, if so required.	Please refer Annexure-05

iii)				ore discharging to Bay of			& the quality of efflue					
	Kamb	hat through GID	C pipeline.		its discharge to Bay of Kambhat through GIDC pipeline which is being done for existing capacity& shall follow for additional too.							
	A I+l o o	st FO % of the	fuel requirement	t shall be met from natural								
iv)			•	from briquette/coal (with								
	_	ur content less t	•	mom sinquette, coar (with			•	r contents. Pr. refer				
	•		<u> </u>	KID) aball be recent often	attached Annexure-06 The Condition is amended for 28,000 KLD water after							
v)		_	· · · · · · · · · · · · · · · · · · ·	KLD) shall be reused after nd fresh water requirement			·					
			estricted to 22,00		1		350 KLD through RO p	iant.				
						Please refer Annexure						
vi)				s (like LED/solar light) shall			ation equipments (like	e LED/Solar light) is				
	be ins	talled in the fact	tory and premise	S.	S	started to install.		21 1152				
						New LED Fittings	New LED Fittings	Planned LED				
						changed in place of	changed in place of	fittings in FY-				
					conventional in FY- conventional in FY- 2021 (Nos.)							
						2019 (Nos.)	2020 (Nos.)					
						1650	2327	1700				
vii)		•	•	I power requirement) shall vable energy sources.		Scheme is under reviev	v & to be implemented	in further Financial				
viii)				eloped along the periphery			greenbelt, we have de	veloned greenhelt in				
VIII)				s. At least 33 % of the area			ong the boundary wall a	. •				
		•	green area with				nave been planted till So	-				
					5,000 trees to be planted by Mar-21 to cover 33% of total plant area							
				1	the detail action plan are Tabulated in Table No. 06							
			Table No. 06	5	<u>E</u>	xisting Plantation Species:						
	Sr.	Duration	Area (Acre.) for	Number of Plant	Neem (<i>Azadirachta indica</i>), Kasood (<i>Cassia siamea</i>), Pine/Junglisaru							
	No		Plantation		(Casuarina equisetifolia)	, Orchid tree (<i>Bauhinia</i> i	blakeana), Gulmohar				
	1	Existing	60	37,500 Plants	(Delonix regia). Rain	tree (Samanea saman)	. Yellow Gulmohar				
		(Till FY; 2017-18)			'							
	2	2018-19	25	15,000 Plants	(Peltophorum ferrugine	um), Bottle brush (<i>Calli</i>	stemon sp.), Earleaf				
					1							

	Total=>	185	1,12,500 Plant
6	2022-23	25	15,000 Plant
5	2021-223	25	15,000 Plant
4	2020-21	25	15,000 Plant
3	2019-20	25	15,000 Plant

Acacia (*Acacia auriculiformis*), Kadamb (*Neolamarckia cadamba*), Basant Rani (*Tabebuia rosea*), Safeda (*Eucalyptus*), *Bougainvillea spectabilis*, Lawn Plantation and Shrubbery.

The Existing Spices for plantation are Selected by following CPCB guidelines

Proposed Plantation Species: Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Saptparni (Alstonia scholaris), Gulmohar (Delonix regia), Rain tree (Samanea saman), Shisham (Dalbergia sissoo), Bel (Aegle marmelos), Arjun tree (Terminalia arjuna), Cassia fistula (Amaltas), Yellow Gulmohar (Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Kadamb (Neolamarckia cadamba), Semal/Kapok (Bombax ceiba), Jamun (Syzygium cumini), Apple blossom tree (Cassia javanica), Sausage tree (Kigelia pinnata), Basant Rani (Tabebuia rosea), Morpankhi (Thuja occidentalis), Safeda (Eucalyptus), Guh babool (Acacia farnesiana), Kaner (Nerium indicum), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Jarul (Lagerstroemia speciosa), Bougainvillea spectabilis, Lemon (Citrus lemon), Sankuppi (Clerodendrum inerme), Lawn Plantation and Shrubbery etc.

Plant species for Odor management: Neem (Azadirachta indica), Saptparni (Alstonia scholaris), Guh babool (Acacia farnesiana), Morpankhi (Thuja occidentalis), Bougainvillea (Bougainvillea spectabilis), Lemon (Citrus lemon), Kaner (Nerium indicum), Mehndi (Lawsonia inermis), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Tulsi (Ocimum sanctum), Sankuppi (Clerodendrum inerme), Jasmine tree (Plumeria alba), Jarul (Lagerstroemia speciosa), Gurhal (Hibiscus rosa sinensis), Bunchgrass (Vetiveria zizanioides) etc.

Gaseous emission (SO2 & NOx) tolerant species: Neem (Azadirachta indica), Bel (Aegle marmelos), Kasood (Cassia siamea), Earleaf Acacia (Acacia auriculiformis), Saptparni (Alstonia scholaris), Aldu (Ailanthus excelsa), Siris (Albizia lebbeck), Shisham (Dalbergia sissoo), Pipal (Ficus religiosa), White fig (Ficus infectoria), Maulsari (Mimusops elengi), Kaner (Nerium indicum), Jarul (Lagerstroemia speciosa) etc.

Green Belt Development Photographs are as under:



x)





ix)	The proponent shall plant and maintain at least 1 lakh native	In FY- 20, We have planted more 8350 trees in the nearby villages
,	trees for five year in the nearby villages.	& 10,000 trees to be planted in FY-21. (Total Plantation done as on
		33092 nos.)

Enterprises social commitment (ESC) plan shall be implemented with at least 2.5 % of the project cost. As proposed, Hospital (with modern facilities) may be constructed/ maintained, and also construct and maintain modern RO drinking water facility in the five nearbyvillage

We have received the EC F. No. J-11011/321/2016-IAII(I) on 17th October 2019 and we have invested only Rs. 10 Crore as a part of De-bottlenecking activity out of investment of Rs. 2560 crore of project cost shown in the proposed expansion. Accordingly, industry has made action plan to spend Rs. 25 Lakhs in FY 20 . We have provided modern RO drinking water facility in the three nearby villages. Villages Name: Sarnar, Saladra, Derol.

	Action Plan for ESC implementation													
Sector	Sector Activity 1 st Year 2 nd Year 3 rd Year 4 th Year 5 th Year Total Amount													
		01.04.18 -	01.04.19 -	01.04.20 -	01.04.21 -	01.04.22 -								
		31.03.19	31.03.20	31.03.21	31.03.22	31.03.23								
Education	Provision of New Anganwadi	0.00	0.00	0.00	1.80	0.00	1.80							
Health Provision of Mobile Medical		0.00	18.83	0.00	0.00	0.00	18.83							
	Dispensary													

	Health Clinic in nearby villages	0.00	0.00	0.00	0.00	0.00	0.00			
	(Smart Diagnostic Centre cub)									
Sustainable Livelihood	Energy program-solar street light'	0.00	0.00	0.50	0.50	0.00	1.00			
	Vermi Compost Unit	0.00	0.00	1.00	1.00	0.00	2.00			
Infrastructure	Community RO plant(no-2)for	0.00	0.00	0.00	0.50	0.90	1.40			
Development	drinking water									
	Grand Total (Rs in Lacks) ==>	0.00	18.83	1.50	3.80	0.90	25.0			
Note:	De-bottlenecking Cost: Rs. 10 Cror	es	•							
	ESC @ 2.5% = 25 Lakh									
Status: In FY-20	: we have spent 18.83 lacks under o	ur FSC Plan.								

Status:	In FY-20; we have spent 18.83 lacks under our ESC Plan.	
10.1 G	eneral Conditions: -	
i.	The project authorities must strictly adhere to the stipulations made by the Central Pollution Control Board, State Pollution Control Board, State Government and any other statutory authority	We strictly adhere to the stipulations made by the Central Pollution Control Board, State Pollution Control Board, State Government and any other statutoryauthority. CPCB – Six monthly EC Compliance GPCB – Monthly Patrak – Please Refer Annexure -15
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	Noted, We will not do any further expansion or modifications in the plant without prior approval of the Ministry of Environment, Forest and Climate Change. Presently We have applied for amendment in EC for increasing the production capacity of Viscose staple fibre (VSF) from 2, 55,500 to 4,38,000 TPA. **Application No.: F. No. J-11011/321/2016-IA-II(I)Pt, Dated 15.01.18
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated	There are 4 nos. AAQ monitoring stations installed in consultation with GPCB in nearby 4 villages, at Derol, Vilayat, Sranar and Argama within 2-3 kms radius. Also monitoring AAQ inside plant periphery.

There are 4 nos. of Ambient air quality monitoring stations covering all directions in nearby villages. Monthly monitoring is being done on monthly by NABL accredited Lab. The Ambient Air quality results for the period of Apr-20 to Sep-20 is tabulated as under **Table No. 08**

Monthly Report from Unistar Refer as Annexure-07

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: -

- 1) Respirable Dust Sampler RDS:SR.No.160203118-UERL/AIR/RDS/ 03(Calibration Period: 10.08.2020 31.07.2021)
- 2) Fine Particulate Sampler FPS:SR.No.160802033 UERL/AIR/FPS/06- (Calibration Period: 10.08.2020 31.07.2021)

Table No. 08

			SARNA	R			DEROL								ARGA	MA				VILAYAT				
Month	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2 .5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2. 5	SO2	NO2	H2S	CS2
		•	μg/m3	3		•		•	μg/m	3					μg/r	n3		•			μg/r	n3		
Norms >	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100
Jun-20	73	21	15	19	BDL	BDL	78	27	17	19	BDL	BDL	71	22	16	21	BDL	BDL	68	18	18	20	BDL	BDL
Jul-20	70	28	17	20	BDL	BDL	74	26	16	20	BDL	BDL	73	25	15	18	BDL	BDL	69	23	16	19	BDL	BDL
Aug-20	80	31	19	25	BDL	BDL	78	26	18	22	BDL	BDL	71	24	17	21	BDL	BDL	72	25	19	23	BDL	BDL
Sep-20	76	25	17	22	BDL	BDL	81	28	19	25	BDL	BDL	82	31	20	24	BDL	BDL	76	28	17	21	BDL	BDL
Min	70	21	15	19	BDL	BDL	74	26	16	19	BDL	BDL	71	22	15	18	BDL	BDL	68	18	16	19	BDL	BDL
Max	80	31	19	25	BDL	BDL	81	28	19	25	BDL	BDL	82	31	20	24	BDL	BDL	76	28	19	23	BDL	BDL
Average	75	26	17	22	BDL	BDL	78	27	18	22	BDL	BDL	74	26	17	21	BDL	BDL	71	24	18	21	BDL	BDL
iv.	The	Nation	al Am	bient	Air C	ualit	y Emis	sion S	tanda	rds is	sued	by	The N	ation	al Am	bient	Air (Qualit	ty Emi	ission	Stand	lards	issue	d by
	the	Ministr	v vide	G.S.F	R. No.	826	(F) dat	ed 16	l Nov	/embe	er. 20	009	the M	inistr	v vid	e G.S	5.R. I	No.	826(E)	date	d 161	.h N	ovem	ber,
		be fo				0_0	(2) aa	.64 10			., <u> </u>		2009 are being followed.							,				
					• • • • • •					1 11	la a la													
V.		overall						•				٠		_				n to (contro	noise	e ievei	:		
		withir					y pro	_		oise	cont		•	Prov	ision c	of Siler	ncers							
	measures including acoustic hoods, silencers, enclosures etc.								•	Αςοι	ıstic Eı	nclosu	res											
	all sources of noise generation. The ambient noise levels sh									Pubbor pade for rotating equipment														
		conform to the standards prescribed under Environme												c. pu	as 101	· o ta t		4 a. p						
	-	tection	-	1986	Rules	, 198	9 viz.	75 dBA	(day	time) and	70												
	dBA(night t	ime)																					

The Noise level (dB) at workroom for last 6 months is tabulated as under Table No. 09:

Calibration Period: - 18.01.20 - 18.01.21

dB Meter: - Make: - Lutron Sr.No.348982

Certification Agency: - Tools MRO Safety / Address: - 806 – 808, Abhinandan Royale, Opp. Rajhans Olympia, Bhatar Road, Surat – 395007, Gujarat, India

Reference Standard: - Sound Level Calibrator, Sr. No. 3421624, Calibration Valid Up to: 22.07.2020

			Ta	ble No. 09					
	Jur	n-20	Jul	-20	Au	g- 20	Sep-20		
Area	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
Norms=>	75	70	75	70	75	70	75	70	
Main Gate	66	59	63	53	53	49	63	61	
Material Gate	62	53	61	53	56	52	66	62	
ОНС	67	63	59	61	65	61	62	58	
Derol	56	50	58	61	59	56	59	56	
Vilayat	59	53	63	59	62	58	56	54	
Sarnar	60	56	60	52	62	58	59	59	
Argama	63	54	61	54	60	59	61	58	
Min	56	50	58	52	53	49	56	54	
Max	67	63	63	61	65	61	66	62	
Avg	62	55	61	56	60	56	61	58	

vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water	Survey has been done for roof top rain water harvesting. Job is being taken up in few locations. Pl. refer Annexure-08
vii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling.	Trainings are imparted to all employees on safety and health aspects of chemicals handling. Please refer Annexure-09 for training details.
	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.	Pre-employment and routine periodical medical examinations for all employees are undertaken on regular basis. Training is done for all employees on chemical handling.
viii.	The company shall also 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, and risk mitigation measures relating to the project shall be implemented.	All conditions as prescribed in EC, NOC and CC&A is maintained and monitored regularly. Detailed status of EIA/EMP is attached as Annexure-10

ix.	the socio-economic activities shall administration. The company including comm	nall undertake all relevant measures for incomic conditions of the surrounding a be undertaken by involving local villa shall undertake eco-developmental runity welfare measures in the project are ment of the environment	rea. CSR ages and	measures in and around 25 Villages and 63,550 nos. Of beneficiar covered in FY'20. Unit has proposed Eco development plan yea basis through CSR activities and submitting CSR activities update Annual Environment Audit Report to GPCB on yearly basis. Eco development measures including community welfare bei						
			Table I	No. 10						
	Financial Year	Average Net Profit (in Crore) of the company (As per 135(S) company's Act)		CSR Amount (2%)	Actual Spent in CSR (Amount in Crore)	% Spent CSR against Net Profit	-			
	2015-2016	791.00	1	15.82	15.05					
	2016-2017	790.00	1	15.80	18.06					
	2017-2018	1107.00	2	2.14 29.84						
	2018-2019	1699.00	3	33.97	47.14					
	2019-2020	2421.32	4	18.43	58.98		1			
	Total=>	6808.32	1	36.16	169.07	2.48%	-			
xi.	fledged laborat	ironmental Management Cell equipped ory facilities shall be set up to carry Management and Monitoringfunctions		Chemical, I		nment Management/Engources and also from Finite nization chart.				



Conductivity & TDS Meter



pH Meter



High Volume Sampler



Analytical Balance



BOD Incubator



Oven & Muffle Furnace



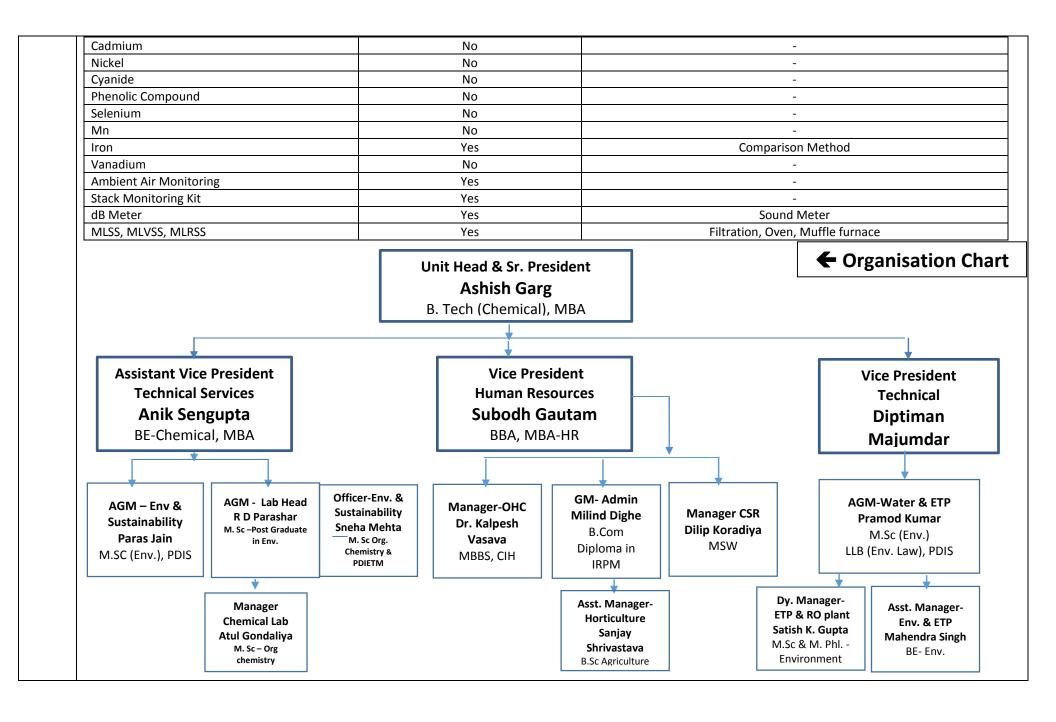
Spectro photo Meter



COD Digester

Available Facilities In Laboratory

Name of Parameter	Testing Facility Available	Name of Instrument				
	Yes or Not					
рН	Yes	pH Meter				
Colour	Yes	Physically				
Temperature	Yes	Thermometer				
TSS	Yes	Filtration method				
Oil & Grease	Yes	Extraction Method				
Fluoride	No	-				
Sulphide	Yes	Resin Method				
Ammonical Nitrogen as N	No	-				
Copper	No	-				
Zinc	Yes	EDTA Method				
COD	Yes	COD Digestion Method				
BOD	Yes	3 Days Incubation Method				
Total Residual Chlorine	Yes	Titrimetric Method				
Arsenic	No	-				
Mercury	No	-				
Hexavalent Chromium	Yes	UV Spectrophotometer				
Total Chromium	No	-				
Lead	No	-				



xi.	and recurring stipulated by Change as implementation The funds so	g cost the M well as on sche earmar	earmark sufficient funds toward per annum to implement to linistry of Environment, Foresto the State Government alcominated edule for all the conditions stiperised for environment management to the process of the state of the	he condi t and Cli ong with oulated he nent/ poll	tions mate the erein.	management Please refer Table No.11 for fund Utilization details. e n.						
			, , , , , , , , , , , , , , , , , , , ,		Table	No.11						
		SI.	Particular	Opex FY-19	Opex FY-20							
		1	Effluent treatment Plant	79.00	11	50	10.56	11.0	11.00			
		2	Air Pollution Control	91.00	03	3.50	04.00	3.3	5.17	_		
		3	Green belt development	00.50	00).50	00.55	1.3	0.51			
		4	4 Waste Management		00	.50	00.60	1.6	3.07			
			Total Amount (In Crore)=>	172.00	16	5.00	15.71	17.20	19.75			
		In FY-1	19 (EDTA for H2S Recovery) (In Crore)	35.0		-	-	-	-			
			Total Amount (In Crore)=>	210.0		-	-	-	-			
xiii.	to concerned Urban local	d Pancl Body	ce letter shall be sent by the pronghayat, Zilla Parishad/Municipa and the local NGO, if any, ntations, if any, were received w	l Corpora from v	ation, vhom		oy of cleara	ance letter is sub	mitted to Pand	chayat & GIDC		
xiv.										tions including ell as by e- mail) espective Zonal earance and six website of the		

xv.	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 by e-mail	The environmental statement for each financial year ending 31st March in Form-V as is submitted to the 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 also sent to the respective Regional offices by e-mail Please refer attached Form-V for FY-20. Annexure-12
xvi.	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	EC issued on 15.01.2018, and advertisement released on 18.01.2018. Copy attached as Annexure-13
	Name of Paper : - Indian Express	Name of Paper: - Gujarati Loksatta
	Date of Issue: - 28.12.2007	Date of Issue: - 28.12.2007
	In: - English language	In: - Gujarati language
	AUITYA BIRLA GROUP Grasim Cellulosic Plot No1, GIDC Vilayat Dist: Bharuch, (Gujarat) Environment Clearance by MOEF Vide letter No. F.No.J-11011/463/2007-IA II (I), dated 20-12-07, which was received on 24-12-2007, the Ministry of Environment and Forests (Govt. Of India) has accorded Environmental Clearance for the Green Field Viscose Staple Fibre (127750 TPA) and Captive Power Plant (25 MW). Copies of the clearance letter are available with GPCB and may also be seen at website of the Ministry of Environment and Forests at http:\envfor.nic.in Grasim Industries Limited Registered Office: P.OBirlagram, Nagda-456 331 DistUjjain (MP)	ADITYA BIRLA GROUP ગ્રાસીમ સેલ્યુલોઝીક પ્લોટ નં૧, જીઆઈડીસી વિલાચત, ડી.ભરૂચ, (ગુજરાત) MOEF દ્રારા પર્ચાવરણીચ પરવાનગી પર્ચાવરણ તથા વનમંત્રાલયે (ભારત સરકાર) વિલાચતમાં VSF પ્લાન્ટ ૧૨૭૭૫૦ ટન પ્રતિ વર્ષ અને પાવરનું ઉત્પાદન ૨૫ મેગાવોટના ગ્રીન ફીલ્ડ પ્રોજેક્ટની પરવાનગી તારીખ ૨૦-૧૨-૨૦૦૭ના પત્ર નં. એક. નં. જે-૧૧૦૧/૪૬૩/૨૦૦૭- એ II (I) દ્રારા આપેલ છે. પરવાનગી પત્રની નકલ જીપીસીબી અને પર્ચાવરણ તથા વન મંત્રાલયની વેબસાઈટ http:\envfor.nic.in પર પ્રાપ્ય છે. ગાસીમ ઈન્ડસ્ટ્રીઝ લીમીટેડ રજીસ્ટર્ડ ઓફીસઃ પી.ઓ.બિરલાગ્રામ, નાગદા-૪૫૬ ૩૩૧ જી. ઉર્ષન (એમ.પી.)

	EC Amendment on 15.01.2018 & following are the advertisement	Name of Paper : - Gujarat Samachar				
	details.	Date of Issue: - 19.01.2018				
	Name of Paper: - Times of India	In : - Gujarati language				
	Date of Issue: - 19.01.2018					
	TIMES CITY Contact Manager 19, 2008 Contact Conta	મેચાર શાળામાં બદલી કરાઇ સની મુખ્ય શિક્ષક ખાતાકીય તપાસ શરૂ સ્ટાઈપ્યાન પ્રસ્તા કર્યા કરાય કરાય કરાય કરાય કરાય કરાય કરાય કર				
xvii.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project	We will submitted the desired information on project completion to the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.				
11.	The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory	We have noted & will abide above conditions satisfactorily				
12.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions					

The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention &. Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules

We are following terms & conditions GPCB CC&A compliance, Please refer attached detailed CCA Report as **Annexure-A**

Six Monthly Compliance Report of Environmental Clearance For

Viscose Staple Fibre, Sulphuric Acid and Carbon-Di-sulphide



EC-2007

Submitted to:-

Ministry of Environment Forest & Climate

Change, (WR Office) Bhopal Ministry of Environment
Forest & Climate Change, New Delhi
Central Pollution Control Board, Zonal Office
(Vadodara) Gujarat Pollution Control Board-Bharuch

Submitted By:-

Grasim Industries Limited

(Unit: - Grasim Cellulosic Division)

Plot No. 1 GIDC Vilayat Industrial Estate,

PO-Vilayat, Taluka-Vagra, Dist: - Bharuch392012, Gujarat, India

Period: -01.04.2020 to 30.09.2020

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

List of Annexure

Sr. No.	Title	Annexure No.				
1	GIDC offer Allotment Letter	Annexure-1				
2	GIDC Approval for Water Effluent	Annexure-1A				
3	Chlor Alkali EC	Annexure-2				
4	Effluent Treatment - Monthly Monitoring Report from Third Party	Annexure-3				
5	Registration Certificate for Refilling & Recycling Hazardous Waste	Annexure-4				
6	GIL CPP Amendment	Annexure-5				
7	Stack - Monthly Monitoring Report from Third Party	Annexure-6				
8	Acknowledgment EC Compliance Oct-19 to Mar-20	Annexure-7				
9	Ambient Air (Inside Plant) - Monthly Monitoring Report from Third Party	Annexure-8				
10	VSF CCA & CCA Amendment for Debottlenecking	Annexure-9				
11	BEIL Membership – 5000TPA	Annexure-10				
12	Upstream & Downstream - Monthly Monitoring Report from Third Party	Annexure-11				
13	Ambient Air (Nearby Villages) - Monthly Monitoring Report from Third Party	Annexure-12				
14	LDO & HSD Licenses	Annexure-13				
15	GPCB Monthly Report Sep-20	Annexure-14				
16	Rainwater Harvesting Report	Annexure-15				
17	CSR Report	Annexure-16				
16	BSE – NSE Report	Annexure-17				
17	Information letter to MOEF	Annexure-18				
18	CCA Compliance Report (Apr-20 to Sep-20) Annexure-A					
Note: D	ue to COVID 19 lockdown. Our manufacturing process was totally stopped from 23 03 2020 to 19 06 202	20 hence third				

Note: Due to COVID 19 lockdown, Our manufacturing process was totally stopped from 23.03.2020 to 19.06.2020, hence third party monitoring was not carried out for Apr-2020 & May-2020.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For

Grasim Cellulosic Division (GCD), Vilayat

-: Introduction: -

- 1. Grasim Industries Limited (GIL), incorporated on 25th Aug., 1947; is a flagship company of the Aditya Birla Group and India's pioneer in manufacturing of Viscose Staple Fibre (VSF) a man-made, biodegradable fibre with characteristics akin to cotton.
- 2. M/s. Grasim Industries Ltd. has four VSF Plants in India which are located at Nagda (Madhya Pradesh), Harihar (Karnataka), Kharach & Vilayat (Gujarat).
- 3. Grasim Cellulosic Division, Vilayat is a latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This is the company's first plant producing specialty grade fibre.
- 4. The Company's main production is Viscose Staple Fibre, Sulphuric Acid, Carbon-Disulphide.
- 5. All the operation related permits, including Environmental Clearance, Forest Clearance from MOEF&CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from Gujarat Pollution Control Board, are in place.
- 6. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
- 7. 04 No. of Ambient Air Quality Monitoring Stations (AAQMS) along with Environmental Parameter Display Board at main gate have been established.
- 8. Continuous Emission Monitoring System has installed in process stacks of Rayon (Fibre) plant and H2SO4 acid plant for regular monitoring of CS2, SO2 etc.
- 9. Online TOC, pH & flow meters installed at the outlet of ETP, before discharging treated effluent to GIDC pipeline.
- 10. Green belt is being developed as per the CPCB guidelines to curb the emission and also to provide an aesthetic look.
- 11. Point wise compliance status of Environmental Clearance for GCD, Vilayat is furnished herewith.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance MOEF Ref. Letter No.: J-11011/463/2007-IA II (I), dated 20-12-2007

Sr. No.	Stipulation	Compliance Status			
1	This reference to application No. Nil, dated 9 th May-2007 along with Form-I & pre-feasibility report seeking the environmental clearance for the above mentioned project and subsequent correspondence vide letters dated 28 th September 2007, 13 th October 2007 and 30 th November 2007.				
	The Ministry of Environment & Forest has examined the proposal along with the correspondence mentioned above and noted the proposal is to set up the Viscose Staple Fibre (VSF) plant at plot # 1, GIDC Industrial estate, Vilayat, Vagra, Bharuch district Gujarat by M/s Grasim Industries Limited (Grasim Cellulosic Division)	Latitude: 21 deg 46'8" and 21 deg 47'11"North Longitude: 72 deg 53'18" and 72 deg 54'49" East			
2 & 3	The Total Cost of the Project is Rs. 1200 Crores	Total Cost 1703 Crores			
-	No ecological sensitive areas are located within 15 KM periphery of the plant site.	Yes			
	The proposed plant is to be located in notified Industrial area at GIDC (Gujarat Industrial Development Corporation)	Yes			
	Total land taken on lease from Gujarat Industrial Development Corporation for the plant is 567 Acres.	530 Acre area provided on lease from GIDC after having provision of land for power corridor. GIDC offer letter attached as Annexure-1			
Fallowing	g will be the products & production capacity:-				

Products=>	Viscose Staple Fibre	Carbon Di sulphide	Sulfuric Acid	Sodium Sulphate (Byproduct)	Power Generation		
EC Amendment As per EC No. J-11011/463/2007-IA II (I), Dated 20.12.2007	127750	23725	102200	83038	25 MW		
EC Amendment As per EC No. F. No. J-11011/321/2016-IA-II(I) Pt Dated – 15.01.2018	255500	34675	182500	166076 to 210788	55 MW		
EC Amendment EC No. F. No. J-11011/321/2016-IAII(I) EC issued on 17th October 2019 (Total Capacity after Expansion)	438000	65700	346750	348576 - 393288	55MW		
Total Production (Tons) – Apr-20 to Sep-20	50705	9916	38373	31428	-		
Total Production (Tons) – FY-20	169572	27766	118695	107381	-		
Total Production (Tons) – FY-19	159629	27122	109640	108943	-		
Total Production (Tons) – FY-18	133644	20297	112300	101093	-		
Raw Material Consumption (TPA)	Pulp	Caustic Soda	Sulphur	Charcoa			
As per EC F. No. J-11011/463/2007-IA-II(I),	(Dissolving	100%	55079	7118			
Dated - 20.12.2007	Grade)	74095					
	130305						
Total Consumption (Tons) – Apr-20 to Sep-20	50965	25259	21703	NIL			
Total Consumption (Tons) – FY-20	170235	89177	63080	NIL			
Total Consumption (Tons) FY-19	160595	91930	59121	NIL			
Total Consumption FY-18	134990	80392	53874	NIL			

Note for Production Quantity: -_State Environmental Impact Assessment Authority (SEIAA), Gujarat has also issued an amendment vide letter no. SEIAA/Guj./EC/1(d2), 4(d) & 5(f) /96/2011, dated 30-May-2011 in their Permission to increase production of CS2 to 31025 TPA and H2SO4 to 36500 TPA, EC copy has attached as **Annexure-2**

Justification for Raw Material Quantity: Pulp & Caustic consumption is increased due increase in VSF production under de-bottnecking after receiving EC amendment in Jan-2018.

Power Plant Covered under Chemical Division consent. State Environmental Impact Assessment Authority (SEIAA), Gujarat has issued an amendment vide letter no. SEIAA/Guj./EC/1(d), 4(d) & 5(f) /96/2011, dated 30-May-2011 for use of natural gas in place of charcoal in CS2 plant, details attached as **Annexure-2**

3	Total Water Requirement of the plant will be 25,000 m3/day	Average Water consumption for last six months (Apr'20 to Sep'20) is				
	and will be sourced from Narmada River, supplied by GIDC.	8639 m ³ /day (for VSF plant only), sourced from Narmada River, supp				
		by GIDC (Except Power plant), following are the tabulated water				

Table No.01										
Month	Water Consumption (m3/day)									
	Average	Minimum	Maximum							
Apr-20	1385	352	3574							
May-20	560	287	991							
June-20	8484	406	12471							
July-20	13326	10577	15071							
Aug-20	13950	11754	14951							
Sep-20	14128	13295	15227							
Avg.	8639									

Consumption details in Table No.U1										
Following are the GIDC offer cum allotment letter details.										
1) Letter No.	GIDC/POJ/MKT/GRASIM/575									
	Dated 06 th December-2006									
Agreement for Water Supply	15.60 MLD									
Effluent Discharge	12.48 MLD									
2) Letter No.	GIDC/SE/CG//BRH/1236									
	Dated 29 th December-2016									
Agreement for Water Supply	25.00 MLD									
Effluent Discharge	19.40 MLD									
3) Letter No.	GIDC/BRH/WS/494									
	Dated 3rd.July,2019									
Agreement for Water Supply	35.00 MLD									

Note: Plant was stopped in Apr-20 & May-20 due to COVID19 lockdown, Consumed quantity utilized in this period was for Equipment washing and cooling.

A full-fledged Effluent Treatment Plant will be installed with Primary & Secondary treatment facilities based on extended

Necessary agreement of water supply is made with GIDC

aeration activated sludge process.

Agreement of water supply is made with GIDC on **06.12.2006**, details as per **Annexure-1,1A & 1B**.

Full Fledged ETP installed, which comprises of;

Consumption details in Table No. 01

- Primary Treatment: -Grit Chambers, Equalization tank, Neutralization tank & Primary Clarifier with sludge dewatering system installed.
- 2. Extended aeration activated sludge process: -Diffused aeration system.
- 3. Secondary treatment: Biological reactor with secondary clarifier & settling tanks.

Treated effluent quality for the period of **Apr-20 to Sep-20** is summarized as under <u>Table no. 02</u> Monthly Test Report from Unistar Refer as **Annexure – 3**

Third Party Lab Details: -				
Agency: - Unistar Environment & Research lab Pvt. Ltd	NABL: - NABL Certificate Number TC-7753			
Address: -GIDC, Char Rasta, Vapi	NABL Certificate Issue Date & Expiry Date: - 15.09.2018 to 14.09.2020			
	(Copy of NABL Certificate & extension certificate are attached with Test Report (Annexure-3)			

A. Specific Condition: -

	Table No. 02																											
Month &	Month & FINAL TREATED EFFLUENT																											
Date of Sampling	рН	Temp.	TSS	Oil & Grease	Fluorid e	Sulphide	TKN	Amm. N as N	Copper	Zinc	BOD	COD	Total Res Cl2	Arsenic	Mercury	Hexavalent Chromium	Trivalent Chromium	Lead	Cadmium	Nickel	Cyanide	Phenolic Comp	Seleniu m	Mangnes e	Iron	Vanadi um	Nitrate Nitrogen	Bio Assay Test
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/li t	mg/lit	90%Survival of
GPCB limit	6.0 - 9.0	Not Exceed more than 35 deg C	100	10	15	5	50	50	3	15	100	250	1	0.2	0.01	0.1	2	0.1	0.05	3	0.2	5	0.05	2	3	0.2	50	fish after 96hrs.
Jun-20	7.31	31	24	BDL	1.3	1.2	22.7	15.5	BDL	1.59	34	119	BDL	BDL	BDL	BDL	0.05	BDL	0.03	0.19	BDL	0.65	BDL	BDL	1.33	BDL	8.60	Complied
Jul-20	7.41	29	40	BDL	1.7	BDL	32.1	26.1	0.24	0.34	62	188	BDL	BDL	BDL	0.06	0.46	BDL	BDL	0.15	BDL	0.77	BDL	BDL	2.14	BDL	4.80	Complied
Aug-20	7.42	30	16	BDL	1.1	1.4	21.4	14.1	BDL	1.31	38	133	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.14	BDL	0.37	BDL	BDL	1.24	BDL	7.10	Complied
Sep-20	7.15	29	14	BDL	5.4	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.045	BDL	BDL	BDL	BDL	BDL	BDL	4.70	Complied
Min	7.15	29	14	BDL	1.1	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	0.05	BDL	BDL	0.05	BDL	BDL	BDL	BDL	BDL	BDL	4.70	
Max	7.42	31	40	BDL	5.4	1.40	32.1	26.1	BDL	1.59	62	188	BDL	BDL	BDL	BDL	0.46	BDL	0.03	0.19	BDL	0.77	BDL	BDL	2.14	BDL	8.60	
Average	7.32	30	24	BDL	2.4	1.3	23.6	17.0	BDL	0.83	41	134	BDL	BDL	BDL	BDL	0.26	BDL	0.02	0.13	BDL	0.60	BDL	BDL	1.57	BDL	6.30	
After treatment the treated effluent will be disposed of in Gulf of Khambat via pipeline already laid by GIDC The main source of Air pollution will be CS2 plant, Viscose plant, Sulphuric Acid plant and Coal based captive power plant. The																												
	prop	osed _l	oollu					uipme de re			yste	m				4 nos. CS2 Recovery system using condensation route												
	CS2	2 Plan	t	Wat	er/		ed v	vater				of C	S2		1	installed in spinning section. This is not applicable as the installation is natural gas based CS2 plant.												
			-	Klau	ıs ki	In fo	r CS	2 pla	nt							Genosorb system is installed Klaus kiln for CS2 plant installed to recover Sulphur							ver					

The stack of 175m has provided to reduce GLC of CS2 & H2S

Not applicable as CS2 is manufactured by natural gas instead

from VSF plant.

The stack of 175m shall be provided to reduce

Dust extraction cum Ventury scrubbing System

GLC of CS2 & H2S

5		for CS2 Furnace	of charcoal.					
	4 :151 .	Gas scrubbing system for tail gases	Caustic Scrubber ins	stalled				
	Acid Plant	Mist eliminators	Installed for all 3 nos. of towers					
	Dower plant	Electrostatic Precipitator (ESP) in power plant	Electrostatic Precipi	tator (ESP) in power plant along with 125				
	Power plant	along with 100 m height stack		lled under chemical Division				
		Ash Handling plant	Ash Handling Plant I	nstalled as a part of Chemical Division.				
	Auxiliary	Cyclone	Cyclones are installe	ed				
	section	Water scrubbers	Ventury water scrub	bbers are Installed				
	During regene	eration process of Cellulose from Viscose in Spg.	CS2 & H2S from Sp	g. Machine is extracted through Powerful				
		& H2S will be liberated. It will be extracted through	exhaust system pro	ovided at spinning machines, connected				
6	powerful exha	ust system and discharged through chimney.	with main chimney	of 175m height through genosorb plant.				
	The part of lib	erated fugitive emission in work zone area will be	The part of liberate	ed fugitive emission in work zone area is				
		modified exhaust system, motorized curtain in	controlled by modif	fied exhaust system, motorized curtain in				
		Air curtain at stretch & feed rollers and modified	Spg. Machine.					
	bottom exhau	St						
	Spent catalyst	(5.0 MT/Year)	Spent Catalyst Disposal Details are as under Table No.03					
			Table No. 03					
			Disposed To.	TSDF (Refer BEIL Membership as				
				Annexure-10)				
			Agency: -	Bharuch Enviro Infrastructure Limited				
			Reference	BEIL/ANK/2019				
			Membership Qty	5000 Ton/Annum				
			Consent Qty. 5.0 MT/	/Year				
			Apr-20 to Sep-20 0.0 MT					
	Spent resin fro	m D.M plant (5.0 MT/Year)	Spent Resin Disposal I	Details are as following;				
			Disposed To.	TSDF (Refer BEIL Membership as				
				Annexure-10)				
			Agency: -	Bharuch Enviro Infrastructure Limited				

		Reference	BEIL/ANK/2019				
		Membership Qty	5000 Ton/Annum				
		Consent Qty. 5.0 MT/Yo	ear				
7		Apr-20 to Sep-20	0.0 MT				
	Sulphur de-ashing sludge will be disposed off through common	Sulphur de-ashing sludge	is not generated as we have natural gas based				
	TSDF	CS2 plant.					
	Used oil will be sold to CPCB registered recyclers	Used Oil Sold to authorize	ed Registered Agency & following are the details				
		of Agency in Table No 04 & Refer Annexure-4 for Vendor Regist					
			Table No. 04				
		Used Oil is being sent	Registered refiners as per CC&A				
		to.	guidelines				
		Recycler Details	M/s ABC Organics & Chemicals, plot #				
			605, GIDC Estate, Panoli, Dist. Bharuch				
			(Gujarat)				
		Registration no.	GPCB/HAZ-RF-184/45/2014, Dated				
			17/12/2014.				
		Membership Qty	1500 Ton/Annum				
		Consent Qty. 10.0 MT/	_				
		Apr-20 to Sep-20	0.0 MT				
	Fly ash will be disposed off as per Fly Ash Notification 2003 and	· ·	ower plant. Power & steam is being taken from				
	used for brick / cement manufacturing	·	mical Division. (Annexure-5)				
		•	wer plant after EC is obtained, we commit for				
		100% utilization of fly asl	1.				
	The expert appraisal committee (Industry) in its 73 rd meeting held	Noted the condition.					
	on 24 th -26 th Oct-2007 considered the proposal. All manmade fibres (Rayon) manufacturing units are listed at Sl. 5(d) of schedule of EIA						
8	notification 2006 under category A, hence appraisal is at Central						
	level. Since the project located at GIDC, Vilayat, Vagra,. It does not						
	need public consultation as per Para 7(i) III, stage (3) b.						
	Based on information submitted by the project authority, the MoEF	The compliance status	are as below;				
9	accords environmental clearance to the above project under EIA						

	notification 2006 subject to the compliance to the below specific & general conditions.				
1	The project authority shall maintain emission limit of 50 kg/Ton of Viscose Staple Fibre (VSF) for Carbon di-sulphide (CS2)	We are complying the said stipulation by maintaining emission limits below 50 Kg/T of VSF for CS2. The details at tabulated in below Table No. 05			
	on of CS2 /Ton of Viscose Staple Fibre (VSF): nly Stack Monitoring Report from Unistar Please Refer Annexure-6				
	Table No.05				
	Third Party Lab Details	Month & Date of Sample	CS2 (Kg/Ton of Fibre)		
		Consent Value	50		
	Agency: - Unistar Environment & Research lab Pvt. Ltd	June-20	36		
	Address: - Near GIDC, Char Rasta, Vapi NABL: - NABL Certificate Number TC-7753	July-20	38		
	Details of instrument Used for Monitoring: -	Aug-20	41		
	Instrument Name: - Stack Monitoring Kit Vss1	Sep-20	44		
	Instrument ID: - UERL-D/AIR/SMK/01	Min	36		
	Serial No.:- 467 DTJ 15 Calibration Date:- 27.06.2020	Max	44		
	Expiry Date: - 26.06.2021	Avg	40		
2	A guard/polishing pond shall be provided before discharge of treated waste water into GIDC pipeline for discharge into sea	6.5m) equivalent to suitable for storage	ds, each of (L: 90 m, 50,000m3 capacity ins of 48 hrs. have been p I waste water into GII	talled, which i rovided befor	
2	TOC should continuously monitored	TOC Meter is placed to continuously monitored TOC meter & following are the TOC meter reading tabulated in Table No. – 06 & the photograph of TOC meter (Permissible COD: 250 mg/litre which is equivalent to TOC value of 100 mg/litre)			
2					

		Table No	.06		Figure 03: TOC	
	TOC N	Лeter Make: -	- Xylem WT	W	Figure 02: TOC Meter	
	Month	Min	Max	Average		
	June-20	52	67	59	23.9 70	
	July-20	48	83	65	43_2_2100 Manual	
	Aug-20	47	65	56	DOC OR	
	Sep-20	54	87	70		
3	evaporator (ME Sulphate Electrostatic Pr	EE) to achieve h	igher than 65° 's) to power	st 11 multiple 6 % recovery of Scoop	dium consumption) 14 stage multiple effect evaporator (MEE) higher evaporation Capacity in place earlier visualized 11 small of 18 m3/hr. Total evaporation is 280 m3/hr. instead 198 m3/hr.	having MEE's nr.
4	provided to con	trol particulate r	natter.		provided to control particulate matter as Chemical division installed CPP. EC has been amended through Chemical div Pl. refer Annexure-2	vision.
		sing system for r	ecovery of CS2	<u> </u>	We have installed 3 stage condensing system with all 4 spi	
		· · · · · · · · · · · · · · · · · · ·	•	from CS2 plant g ded	lines and Caustic scrubber has installed with Acid plant chinases, Klaus kiln recovery system to recover Sulphur from CS2 gases installed for achieving > 96% Sulphur recovery efficient	plant
	_	angement shall s and shall be mo	•	with the scrubt hly.	er & Monitoring arrangement provided for scrubbers & condition vents. Following are the details tabulated under Table No. 07	lenser
				Та	ole No. 07	
5	Testing Details	and in a manage of a second	anah Laha Di A LA L			
		nvironment and Resea		200105 001-0-1 10 11		
		nt Used for Monitori	<u> </u>	-396195, Gujarat, India		

	Name: - Handy Samp	oler						
Serial No.:-								
	Date:- 03/02/2020							
Month	Spg. Aft. Treatment (Line-1 Exhaust Vent-1)	Spg. Plant Aft (Line 1 - Exhaust Vent- 2)	Spg. Plant Aft (Line 2 - Exhaust Vent 1)	Spg. Plant Aft (Line 2 - Exhaust Vent- 2)	Spg. Plant Aft (Line 3 - Exhaust Vent 1)	Spg. Plant Aft (Line 3 - Exhaust Vent- 2)	Spg. Plant Aft (Line 4 - Exhaust Vent 1)	Spg. Plant Aft (Line 4 - Exhaus Vent- 2)
Jun-20	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
Jul-20	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
Aug-20	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
Sep-20	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
Min	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
Max	< 5.0	<5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0	< 5.0
The techr	nology employe	d shall achieve	standards no	otified by the	June-19. As per Gazette r	notification. CS2 e	emission of 125 Kg	gs/T F is to be n
Ministry f dated 16t	nology employe for the Rayon In h Oct-2006, other	ndustry vide Ga er than CS2.	azette Notifica	tion no. 195,	As per Gazette r New control tec and desorption helping in achiev	chnology using o to recover CS2 fr ving CS2 emission	emission of 125 Kg rganic solvent bar om exhaust gases a level at much lov	sed on absorpt s installed whic wer level.
Ministry f dated 16th 1. If there height of the s	or the Rayon Ir	ndustry vide Ga er than CS2. one stack existing Il be on the min words, all the s	ng in the plant nimum emissica	tion no. 195, the required on rate in any CS ₂ emission	As per Gazette r New control tec and desorption helping in achiev	chnology using o to recover CS2 fr ving CS2 emission ed only one sta	rganic solvent ba om exhaust gases	sed on absorpt s installed whic wer level.
1. If there height of the shall be However	are more than of all stacks sha stacks. In other of Stacks shall er the number of rebuilt & if stacks.	ndustry vide Gaer than CS2. one stack existing the stack, all the stack on maximal mot be increased for may be	ng in the plant nimum emission stacks carrying dimum emission d from the exist	tion no. 195, the required on rate in any CS ₂ emission n rate) sting number. existing stacks	As per Gazette r New control tec and desorption helping in achiev We have install calculation as pe	chnology using o to recover CS2 fr ving CS2 emission ed only one sta	rganic solvent bases om exhaust gases n level at much lov ck of 175m base	sed on absorpt s installed whic wer level.

The Company shall monitor CS2 & H2S regularly and submit data on the emission levels to the Ministry and its Regional office at Bhopal, GPCB and CPCB.

CS2 & H2S is being monitored regularly. Emission details for Apr'20 to Sep'20 is tabulated in **Table No.08**

Emission of CS2 /Ton of Viscose Staple Fibre (VSF):

Monthly Stack Monitoring Details from Unistar refer as Annexure-6

	Table No.08		
Third Party Lab Details	Month & Date of Sample	CS2 (Kg/Ton of Fibre)	H2S mg/Nm3
	Consent Value	50	-
Agency: - Unistar Environment & Research lab Pvt. Ltd	June-20	36	98
Address: - Near GIDC, Char Rasta, Vapi	July-20	38	101
NABL : - NABL Certificate Number TC-7753	Aug-20	41	116
Details of instrument Used for Monitoring: -	Sep-20	44	112
Instrument Name: - Stack Monitoring Kit Vss1 Instrument ID: - UERL-D/AIR/SMK/01	Min	36	98
Serial No.:- 467 DTJ 15	Max	44	116
Calibration Date:- 27.06.2020 Expiry Date: - 26.06.2021	Avg	40	107

The effluent should be treated in ETP having primary & secondary treatment facilities and treated effluent should meet the standards to be prescribed by the GPCB or under E. P. Act-1986 whichever are more stringent

Provision shall be made for retrofit additional equipment's, if necessary in future

In future if required, company is committed to install additional equipment.

The effluent should be treated in ETP baying primary & secondary. Full Fledged ETP installed, which comprises of Primary, Extended.

Full Fledged ETP installed, which comprises of Primary, Extended aeration activated sludge process and secondary treatment. Details are tabulated in **Table No. 09**

Treated effluent quality for the period of Apr-20 to Sep-20 is summarized as under in Table No. 09

Monthly Analysis Report from Unistar refer as Annexure-03

Agency: - Unistar Environment & Research lab Pvt. Ltd

Address: -GIDC, Char Rasta, Vapi

7

NABL: - NABL Certificate Number TC-7753

	Table No. 09																											
Month &	onth & FINAL TREATED EFFLUENT																											
Date of Sampling	рН	Temp.	TSS	Oil & Grease	Fluorid e	Sulphide	TKN	Amm. N as N	Copper	Zinc	BOD	COD	Total Res Cl2	Arsenic	Mercury	Hexavalent Chromium	Trivalent Chromium	Lead	Cadmium	Nickel	Cyanide	Phenolic Comp	Seleniu m	Mangnes e	Iron	Vanadi um	Nitrate Nitrogen	Bio Assay Test
Unit	-	deg C	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/li t	mg/li t	mg/lit	90%Survival of
GPCB limit	6.0 - 9.0	Not Exceed more than 35 deg C	100	10	15	5	50	50	3	15	100	250	1	0.2	0.01	0.1	2	0.1	0.05	3	0.2	5	0.05	2	3	0.2	50	fish after 96hrs.
Jun-20	7.31	31	24	BDL	1.3	1.2	22.7	15.5	BDL	1.59	34	119	BDL	BDL	BDL	BDL	0.05	BDL	0.03	0.19	BDL	0.65	BDL	BDL	1.33	BDL	8.60	Complied
Jul-20	7.41	29	40	BDL	1.7	BDL	32.1	26.1	0.24	0.34	62	188	BDL	BDL	BDL	0.06	0.46	BDL	BDL	0.15	BDL	0.77	BDL	BDL	2.14	BDL	4.80	Complied
Aug-20	7.42	30	16	BDL	1.1	1.4	21.4	14.1	BDL	1.31	38	133	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.14	BDL	0.37	BDL	BDL	1.24	BDL	7.10	Complied
Sep-20	7.15	29	14	BDL	5.4	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	BDL	BDL	0.004	0.045	BDL	BDL	BDL	BDL	BDL	BDL	4.70	Complied
Min	7.15	29	14	BDL	1.1	BDL	18.1	12.3	BDL	0.08	30	96	BDL	BDL	BDL	BDL	0.05	BDL	BDL	0.05	BDL	BDL	BDL	BDL	BDL	BDL	4.70	
Max	7.42	31	40	BDL	5.4	1.40	32.1	26.1	BDL	1.59	62	188	BDL	BDL	BDL	BDL	0.46	BDL	0.03	0.19	BDL	0.77	BDL	BDL	2.14	BDL	8.60	
Average	7.32	30	24	BDL	2.4	1.3	23.6	17.0	BDL	0.83	41	134	BDL	BDL	BDL	BDL	0.26	BDL	0.02	0.13	BDL	0.60	BDL	BDL	1.57	BDL	6.30	

Total quantity of effluent should not exceed 60m3/ ton of production. The production shall be regulated to match the permitted discharge quantity by GIDC/GPCB

The quantity of effluent discharged is 26.58 m3 / Ton of Fibre. Against stipulation of 60m3/TF.

Avg. water intake: 8639 m3/day Effluent discharge: 8324 m3/day

Following are the details tabulated in Table No.10

	Table N	o. 10	
Month	Effluent	Generation (m3	3/day)
	Average	Minimum	Maximum
Apr-20	1187	0	3089
May-20	2324	870	12772
June-20	8418	925	12823
July-20	12279	0	14566
Aug-20	12999	7489	15220
Sep-20	12735	5458	15279
Avg.	8324	-	-

Note:

- Our plant was stopped in Apr-20 & May-20 due to COVID19 lockdown, the effluent discharge quantity is of our Chemical division & epoxy division due to single discharge point.
- Minimum Zero values in the month of Apr-20 & July-20 are due to maintenance activity was carried out in the GIDC effluent line, hence effluent discharge was stopped for 24hrs.

	8	The project authorities shall produce the copy of agreement with	Agreement with GIDC for	water supply & discharge of				
		GIDC for discharge of treated wastewater to the Ministry & its	treated waste water in GIDC cha	amber was done. A Copy of same				
		Regional office within three months and submit the same to	was submitted along with e	arlier six monthly compliance				
		Regional office	report to MoEF & CC.					
			Following are the GIDC offer cum allotment letter details;					
			4) Letter No.	GIDC/POJ/MKT/GRASIM/575				
				Dated 06 th December-2006				
			Agreement for Water Supply	15.60 MLD				
			Effluent Discharge	12.48 MLD				
			5) Letter No.	GIDC/SE/CG//BRH/1236				
				Dated 29 th December-2016				
			Agreement for Water Supply	25.00 MLD				
			Effluent Discharge	19.40 MLD				
			6) Letter No.	GIDC/BRH/WS/494				
				Dated 3rd.July,2019				
			Agreement for Water Supply	35.00 MLD				
			Pl. refer attached Annexure # 1,1	A & 1B.				
		The project authorities shall take up the in-house or through IIT's	In house research studies done and	l many steps taken to further reduce				
		research studies for further reduction of CS2 emission below 50 Kg/	the CS2 emission level. Some of th	e initiatives taken are :				
		Ton of production of VSF within three months and submit the same	 Control technology using o 	rganic solvent based on absorption				
	9	to Regional office	and desorption to recover (CS2 from exhaust gases installed				
			2) Natural Gas based CS2 plan	nt installed in place of conventional				
			charcoal process to avoid C	S2 emission from CS2 plant				
			Above information is submitted	to MOEF through letter, dated				
			05.11.18 Please refer as Annex	· ·				
\vdash		Brief of Technology: -		-				
		Introduction: - The spinning line is equipped with CS2 condensation system v	wherein CS2 entrapped in Tow during	wet spinning process is recovered by				
		vaporizing the same with LP Steam followed by Condensation of CS2 in series of C	• • • • • • • • • • • • • • • • • • • •					
		condenser. Around 46-50% of CS2 added in the process can be recovered by this p	_	-				
		stack further technological operations to recover CS2 from exhaust gases is impe						
		State and the state of the st		and a series and a				

H2S is stripped off & taken to vent/chimney. CS2 is stripped and condensed & recovered. The lab scale trials ws successful results with 80% removal of CS2.

which is comprises of POLY-ETHYLENE GLYCOL DIALKALINE ETHER (Chemical from Clariant) for adsorption of CS2 & H2S.

	-	·	es being taken to chimney was taken. After lab & pilot plant trials of six months,
		decided to put 02 nos. of 45,000 Nm3/hr Genosorb commercial scale unit a	at Vilayat.
	Proce	ess Step:-	
		Gas coming from the different areas of spinning and Auxiliary sections	on is washed out using cooling water to remove acid mist & to cool the
	_		
		Washed gas sent to cooler to get the required 25°C of Gas tempera	ture for absorption using chilled water.
		In absorption tower, mainly CS2 and minor amount of H2S is absor	bed in GENOSORB and remaining gases exhausted through chimney.
		After absorption GENOSORB sent to H2S stripper column, In this co	lumn H2S gas is stripped out using HOT AIR at 70°C
		CS2 rich GENESORB sent to CS2 stripping column, CS2 is stripped or	ut using LIVE STEAM at 125°C
		Stripped CS2 is cooled in two stages, in first stage cooled up to 70°C	C to condensate water & then up to 25°C to condense CS2.
		Condensed CS2 is @ 100% pure and sent to CS2 plant for Storage 8	re use.
•	The i	ndustry shall measure ambient air quality for CS2, and H2S at	Ambient air quality is being monitored regularly for CS2 & H2S
	the 3	ambient air quality monitoring stations set up in consultation	emissions, 4 nos. ambient air quality monitoring stations (covering all
	with	the GSPCB to ensure CS2 and H2S emission not exceed 100	directions) placed in consultation with the GPCB. CS2 & H2S emission
	micro	ogram/m3 and 150 microgram/m3	are well below the prescribed standards

Summary of 6 months (Apr-20 – Sep-20) is tabulated below in **Table No. 11**

Monthly Report from Unistar Please refer Annexure No. -08

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: -

- 1) UERL/AIR/RDS/02— Respirable Dust Sampler (RDS:SR.No.160203106)(Calibration Period: 01.08.2020 31.07.2021)
- 2) UERL/AIR/FPS/08- Fine Particulate Sampler (FPS:SR.No.160402021)(Calibration Period: 01.08.2020 31.07.2021)

Table No. 11

Month	ЕТР МО	CC Room	ER C	office	Aluminum C	hloride plant	Security Gate (CA Plant)		
	H ₂ S	CS ₂	H ₂ S	CS ₂	H ₂ S	CS ₂	H₂S	CS ₂	
Norms>	150	100	150	100	150	100	150	100	
June-20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
July-20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Aug-20	BDL	BDL	26	78	BDL	BDL	BDL	BDL	
Sep-20	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Min	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	

Max	BDL	BDL	26	78	BDL	BDL	BDL	BDL	
Avg	BDL	1							

The Solid & Hazardous waste shall be segregated according to its calorific contents and stored separately for treatment and disposal

Solid / Hazardous waste being categorized as per guideline of GPCB consent, treatment & disposal practice is followed accordingly. We are member of BEIL, Dahej for transportation & disposal of hazardous waste; Following are the Disposal details tabulated in **Table No. 12**

Type of waste	Category	Treatment /Disposal
Chemical sludge from ETP	34.3	Collection, storage, transportation, disposal at Cement Industries/ TSDF-BEIL
Used Oil	5.1	Collection, storage, transportation, disposal by selling to registered refiners.
Discarded container	33.3	Collection storage, transportation, disposal by selling to vendors after detoxification
Discarded bags/liner	33.3	Collection, storage, transportation, disposal by selling to vendors after detoxification
Spent catalyst from H2SO4 plant	17.2	Collection, storage, transportation, disposal to TSDF-BEIL
Spent catalyst from H2SO4 plant	34.2	Collection, storage, transportation, disposal to TSDF-BEIL
Please refer Annexure-9 for CCA fro	m GPCB	

	Table No. 12											
Month	Chemical sludge-ETP- MT		Used Oil (KL)		barrels/contain	Empty barrels/containers/bags/ liners		Bio Sludge from ETP		lyst-MT	Spent Resin-MT	
	Generation Disposal		Generation	Disposal	Generation	Disposal	Generation	Disposal	Generation	Disposal	Generation	Disposal
CC&A Qty.	&A Qty. 7000 MT (35.3)		10.0 KL (5.1)		70 MT (3	70 MT (33.1)		5833 MT		(17.2)	5.0 MT (35.2)	
Apr-20	0.00	1077.70	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0
May-20	0.00	30.44	0.0	0.0	1.92	1.92	0.00	0.00	0.0	0.0	0.0	0.0
June-20	397.95	0.00	0.0	0.0	0.00	0.00	309.75	0.00	0.0	0.0	0.0	0.0
July-20	358.05	0.00	0.0	0.0	8.63	8.63	414.10	92.80	0.0	0.0	0.0	0.0
Aug-20	411.08	0.00	0.0	0.0	19.58	19.58	616.88	431.08	0.0	0.0	0.0	0.0
Sep-20	422.1	0.00	4.0	0.0	15.68	15.68	381.94	103.67	0.0	0.0	0.0	0.0
Total	1589.18	1108.14	4.0	0.0	45.81	45.81	1722.67	627.55	0.0	0.0	0.0	0.0

The Existing Species for plantation are Selected by following CPCB guidelines

25

185

2022-23

Total=>

6

Proposed Plantation Species: Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Saptparni (Alstonia scholaris), Gulmohar (Delonix regia), Rain tree (Samanea saman), Shisham (Dalbergia sissoo), Bel (Aegle marmelos), Arjun tree (Terminalia arjuna), Cassia fistula (Amaltas),

15,000 Plant

1,12,500 Plant

spectabilis, Lawn Plantation and Shrubbery.

Yellow Gulmohar (*Peltophorum ferrugineum*), Bottle brush (*Callistemon sp.*), Kadamb (*Neolamarckia cadamba*), Semal/Kapok (*Bombax ceiba*), Jamun (*Syzygium cumini*), Apple blossom tree (Cassia javanica), Sausage tree (*Kigelia pinnata*), Basant Rani (*Tabebuia rosea*), Morpankhi (*Thuja occidentalis*), Safeda (*Eucalyptus*), Guh babool (*Acacia farnesiana*), Kaner (Nerium indicum), Champa (*Plumeria rubra*), Holy basil (*Ocimum tenuiflorum*), Jarul (*Lagerstroemia speciosa*), *Bougainvillea spectabilis*, Lemon (*Citrus lemon*), Sankuppi (*Clerodendrum inerme*), Lawn Plantation and Shrubbery etc.

Plant species for Odor management: Neem (Azadirachta indica), Saptparni (Alstonia scholaris), Guh babool (Acacia farnesiana), Morpankhi (Thuja occidentalis), Bougainvillea (Bougainvillea spectabilis), Lemon (Citrus lemon), Kaner (Nerium indicum), Mehndi (Lawsonia inermis), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Tulsi (Ocimum sanctum), Sankuppi (Clerodendrum inerme), Jasmine tree (Plumeria alba), Jarul (Lagerstroemia speciosa), Gurhal (Hibiscus rosa sinensis), Bunchgrass (Vetiveria zizanioides) etc.

Gaseous emission (SO2 & NOx) tolerant species: Neem (Azadirachta indica), Bel (Aegle marmelos), Kasood (Cassia siamea), Earleaf Acacia (Acacia auriculiformis), Saptparni (Alstonia scholaris), Aldu (Ailanthus excelsa), Siris (Albizia lebbeck), Shisham (Dalbergia sissoo), Pipal (Ficus religiosa), White fig (Ficus infectoria), Maulsari (Mimusops elengi), Kaner (Nerium indicum), Jarul (Lagerstroemia speciosa) etc.

Green Belt Development Photographs are as under :-











The project proponent shall comply with the environmental protection measures and safeguards recommended in the EIA/EMP

Total project cost was Rs. 1200 Crores as mentioned in EC. As committed in the EIA/EMP, Unit has been allocated capital cost Rs. 170.5 Crores and recurring cost Rs. 15.5 Crores per annum respectively for implementations of environmental pollution control measures as per condition stipulated by the MoEF & CC & state government. Detailed EIA/EMP report is explained below & Capex – Opex Details are tabulated under **Table No. 14**

	Table No. 14												
	Fund Utilize for environmental Management are under (Rs. In Crore)												
Sr.	Sr. Particular Capex Opex Opex Opex Opex												
No.			FY-17	FY-18	FY-19	FY-20							
1	Effluent Water	79.00	11.50	10.56	11.00	11.00							
2	Air Pollution Control	91.00	03.50	04.00	03.30	5.17							
3	Green Belt Development	00.50	00.50	00.55	01.30	0.51							
4	Waste Management	01.50	00.50	00.60	01.60	3.07							
Tota	al Amount (In Crore)=>	172.00	16.00	15.71	17.20	19.75							

Environmental monitoring Program : - In order to ensure that the predicted impact levels are within the acceptable limits and to further mitigate the impacts wherever possible from proposed facilities, following monitoring programs are undertaken;

Air Environment: Air quality surveillance program which includes;

- 1. Monitoring of air quality of all 4 stacks for CS2, H2S, PM, SO2 & NOx by our Lab as well as 3rd party Lab.
- 2. Ground level concentration is monitored for CS2, H2S, PM, SO2 & Nox in the impact zone as a part of ambient air monitoring by our Lab & 3rd party Lab.
- 3. Port holes and sampling facilities are provided in each stack as per CPCB guidelines, periodic performance evaluation of control measures & equipment's are done

Noise Environment: Noise generated sources are regularly monitored, ambient noise level is being monitored on quarterly basis inside & outside of plant area and strictly adhered the Factory Act norms of workroom and ambient levels as per E P Act.

Water Environment: For effective environmental pollution control the following measures are taken;

- 1. Daily monitoring of treated effluent in our Lab as well as third party monitoring by outside labs.
- 2. Evaluation of ETP performance is done regularly, based on the results of treated effluent.
- 3. Treated sewage is 100% used in green belt, sewage quantity is very less as only plant sewage comes to STP.
- 4. 2 nos. of guard ponds, each of (L: 90 m, B: 60 m, SWD: 6.5m) equivalent to 50,000m3 capacity installed, which is suitable for storage of 48 hrs. treated effluent to meet the emergency situation in discharge of treated effluent through GIDC pipeline
- 5. Water conservation measures are taken and achieved very less discharge of treated effluent (< 35m3 / Ton of fibre as against 60m3 / Ton of fibre.

Land Environment: Following measures are taken to avoid adverse impacts on biological activities;

- 1. All precautions are taken to avoid any spillages on ground.
- 2. A record of Solid & Hazardous waste is maintained & monitored regularly by Env. Cell
- 3. Waste is categorized based on CC&A by GPCB. Hazardous waste is stored separately and disposed as per GPCB guidelines through online Manifest.
- 4. Green belt development program is undertaken and planted > 10,000 tree every year which will be continued to cover > 33% area as green belt.

Biological Environment: Following measures are taken to avoid adverse impacts on biological activities;

- 1. Survival rate of planted trees are closely monitored. New saplings are planted in place of dead saplings as per guideline which is closely monitored by Horticulture department.
- 2. Past project environmental monitoring has taken up, our plant is commissioned in Apr-2014 and only 3 financial years are completed.

The project authorities shall obtain the membership of TSDF and waste water disposal facility and copy of the same shall be submitted to the GPCB and Ministries regional office at Bhopal within three months.

We have obtained the membership of TSDF and waste water disposal facility and copy of the same has submitted to the GPCB and Ministries regional office at Bhopal regularly with six monthly compliance reports Membership with TSDF for waste disposal,

TSDF Name: - Bharuch Enviro Infrastructure Limited, Dahej.

Ref:-BEIL/ANK/2019

Membership Qty: - 5000Ton/Annum

Membership copy is attached herewith as **Annexure-10**

Membership copy is attached for waste water disposal through GIDC pipeline, Pl. refer **Annexure-1**

Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the factories Act.

100% employees undergo with occupational health surveillance every 6 month / 12 month depending on exposure. Record is available with Occupational Health Centre.

No one is suffering from any occupational health related disease. Details are given for different type of test reports of employees, conducted on Yearly / Six monthly basis in table below in **Table No. 15**

Spirome	etry (2019-2	20)				
Name of Dept.	Total Employ ees	FVC (litres)	FEV 1	FEV 1/ FVC %	PEF Litres/Sec	Conclusion
Admin Department (SCM, Purchase, Account, Legal, IT Dept.)	36	2	0	0	1	Aprox 2.08% deviation
%		5.56	0.00	0.00	2.78	from normal
Process Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC, Civil)	220	3	0	1	3	Aprox 0.80% is
%		1.36	0.00	0.45	1.36	deviation from normal
Technical Cell, WCM, Customer Focus, Electrical Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC)	43	0	1	0	1	Aprox 1.16% is deviation from normal
%		0.00	2.33	0.00	2.33	deviation from normal
Mechanical Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC)	39	1	0	0	1	Aprox 2.56% deviation
%		2.56	0.00	0.00	2.56	from normal

QC & QA Instrumentation Dept. (Auxiliary, viscose, spinning WTP/ETP/STP, EC)	ng, CS2/Acid,	23	1	0	1	0		17% deviation m normal
%			4.35	0.00	4.35	0.00	110	iii iioiiiiai
P&A (HR, Security & Services, ER, CSR, HORTICULTURE, Workshop) De	pt.	29	0	0	0	2		
%			0.00	0.00	0.00	6.90		.72% deviation m normal
Circul	latory system (20	19-20)				Vision	(2019-20)	ENT
Employees	Total	Pulse	ECG	Blood	Hemat	Distant	Color	Audiomotru
Employees	Employees	Puise	ECG	Pressure	Hb	Vision	Blindness	Audiometry
Admin Department (SCM, Purchase, Account, Legal, IT Dept.)	36	1	0	2	0	0	0	1
%		2.78	0.00	5.56	0.00	0.00	0.00	2.78
Process Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC, Civil)	220	3.00	2.00	8.00	12.00	7.00	0.00	2
%		1.36	0.91	3.64	5.45	3.18	0.00	0.91
Technical Cell, WCM, Customer Focus, Electrical Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC)	43	1.00	1.00	3.00	5.00	5.00	0.00	1
%		2.33	2.33	6.98	11.63	11.63	0.00	2.33
Mechanical Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC)	39	3.00	1.00	4.00	4.00	3.00	0.00	1
%		7.69	2.56	10.26	10.26	7.69	0.00	2.56
QC & QA Instrumentation Dept. (Auxiliary, viscose, spinning, CS2/Acid, WTP/ETP/STP, EC)	23	2.00	1.00	3.00	2.00	3.00	0.00	1
%		8.70	4.35	13.04	8.70	13.04	0.00	4.35
P&A (HR, Security & Services, ER, CSR, HORTICULTURE, Workshop) Dept.	29	2.00	0.00	2.00	1.00	0.00	0.00	0
%		6.90	0.00	6.90	3.45	0.00	0.00	0.00

	The project authorities shall take up all out efforts to protect the	Regular monitoring of Water & Air quality done by our Lab and 3rd
	water bodies and biodiversity around the plant.	party. There is only one water body namely "Bhooki Khadi"" which is
		approximately 500 m from boundary wall. Water from this is being
17		used for irrigation and cattle feeding.
	A monitoring mechanism for water / air quality , production &	Water, Air quality & production is being monitored regularly and
	crop pattern around the plant shall be adopted and comparative	compared with base line. Same is being reported to Ministries
	status shall be reported annually to the Ministries Regional office,	

GPCB & CPCB	Regional office on six monthly basis and submitting reports to GPCB
	on monthly basis for the same.
	Data are tabulated Under Table No.16 & refer monthly data from
	Unistar Test Report Annexure – 11
Agency: - Unistar Environment & Research Lab Address: - Near GIDC Office Char Rasta, Vapi-396195	NABL Accreditation: - NABL Certificate Number TC-7754

Table No. 16

			Up Strea	ım		Down Stream							
Parameters	рН	Temperature	Turbidity Nitrate		Phenolic Compound	рН	Temperature	Turbidity	Nitrate	Phenolic Compound			
UOM	Deg C		NTU	PPM	PPM		Deg C	NTU	PPM	PPM			
Base Line	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP			
Jun-20	7.91	32	1	1.1	BDL(MDL:0.001)	8.23	32	1	1.2	BDL(MDL:0.001)			
Jul-20	8.59	31	1	0.8	BDL(MDL:0.001)	8.64	31	1	0.3	BDL(MDL:0.001)			
Aug-20	8.46 30		1	0.6	BDL(MDL:0.01)	8.51	30	1	0.4	BDL(MDL:0.001)			
Sep-20	7.86 29		1.5	1.5	BDL(MDL:0.001)	7.46	29	10	1	BDL(MDL:0.001)			
Min	7.86	29	1	0.6	BDL	7.46	29	1	0.3	BDL			
Max	8.59	32	1.5	1.5	BDL	8.64	32	10	1.2	BDL			
Avg	Avg 8.21 30.50 1.13 1.00 BDL		8.21	30.50	3.25	0.73	BDL						

B. General Condition: -

	I)	The project authorities must strictly adhere to the stipulations of the SPCB/State Government or any statutory body	All stipulations made by GPCB are strictly complied. Pl. refer detailed CCA Report tabulated under Annexure-A
1	II)	No expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to access the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	setting up Solvent Spun Cellulosic fibre plant for 100 T/d and CPP of 55 MW. We

III) The gaseous emission (SO2, Nox, H₂S & CS₂) and PM along with RSPM levels from various process units shall confirm to the standards prescribed by the concerned authorities from time to time.

Gaseous emission is monitored regularly and results confirm to the standards specified by both GPCB and CPCB The lab results are summarized for the period Apr-20 to Sep-20 as under **Table No.18 & Table No. 19**Monthly Report from Unistar Refer as **Annexure-6.**

There are 4 nos. of Ambient air quality monitoring stations covering all directions in nearby villages. Monthly monitoring is being done on monthly by NABL accredited Lab. The Ambient Air quality results for the period of Apr-20 to Sep-20 is tabulated as under **Table No. 17**

Monthly Report from Unistar Refer as Annexure-12

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: -

- 1) Respirable Dust Sampler RDS:SR.No.160203118-UERL/AIR/RDS/ 03(Calibration Period: 10.08.2020 31.07.2021)
- 2) Fine Particulate Sampler FPS:SR.No.160802033 UERL/AIR/FPS/06- (Calibration Period: 10.08.2020 31.07.2021)

Table No. 17

			SARNA	AR					DERO	L					ARGA	MA			VILAYAT					
Month	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2
			μg/m	3					μg/m	3					μg/n	13					μg/m	13		
Norms -	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100	100	60	80	80	150	100
Jun-20	73	21	15	19	BDL	BDL	78	27	17	19	BDL	BDL	71	22	16	21	BDL	BDL	68	18	18	20	BDL	BDL
Jul-20	70	28	17	20	BDL	BDL	74	26	16	20	BDL	BDL	73	25	15	18	BDL	BDL	69	23	16	19	BDL	BDL
Aug-20	80	31	19	25	BDL	BDL	78	26	18	22	BDL	BDL	71	24	17	21	BDL	BDL	72	25	19	23	BDL	BDL
Sep-20	76	25	17	22	BDL	BDL	81	28	19	25	BDL	BDL	82	31	20	24	BDL	BDL	76	28	17	21	BDL	BDL
Min	70	21	15	19	BDL	BDL	74	26	16	19	BDL	BDL	71	22	15	18	BDL	BDL	68	18	16	19	BDL	BDL
Max	80	31	19	25	BDL	BDL	81	28	19	25	BDL	BDL	82	31	20	24	BDL	BDL	76	28	19	23	BDL	BDL
Average	75	26	17	22	BDL	BDL	78	27	18	22	BDL	BDL	74	26	17	21	BDL	BDL	71	24	18	21	BDL	BDL

Table No.	18	
Third Party Lab Details	Month & Date of Sample	CS2 (Kg/Ton of Fibre)
	Consent Value	50
Agency: - Unistar Environment & Research lab Pvt. Ltd	June-20	36
Address: - Near GIDC, Char Rasta, Vapi	July-20	38
NABL : - NABL Certificate Number TC-7753	Aug-20	41
Details of instrument Used for Monitoring: -	Sep-20	44
Instrument Name: - Stack Monitoring Kit Vss1	Min	36
Instrument ID: - UERL-D/AIR/SMK/01	Max	44
Serial No.:- 467 DTJ 15	Avg	40
Calibration Date:- 27.06.2020	7.1.8	-
Expiry Date: - 26.06.2021		

Agency: - Unistar Environment & Research Lab Pvt. Ltd

Instrument ID & Name: -

1) UERL/AIR/RDS/02 - RDS:SR.No.160203106— Respirable Dust Sampler (Calibration Period: - 01.08.2020 – 31.07.2021) 2) UERL/AIR/FPS/08 - FPS:SR.No.160402021 - Fine Particulate Sampler (Calibration Period: - 01.08.2020 – 31.07.2021)

Monthly Report from Unistar refer as **Annexure-8**

Table No. 19 (For Ambient Air)

		Nea	ar ETP MCC	Room			Near ER Office									
Month	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2	SPM PM10	SPM PM2.5	SO2	NO2	H2S	CS2				
Norms =>	100	60	80	80	150	100	100	60	80	80	150	100				
UOM=>			μg/m3				μg/m3									
Jun-20	73	24	22	24	BDL	BDL	78	26	19	22	BDL	BDL				
Jul-20	77	26	20	26	BDL	BDL	74	24	17	21	BDL	BDL				
Aug-20	82	28	22	25	BDL	BDL	78	26	19	23	26	78				
Sep-20	80	33	19	24	BDL	BDL	73	28	18	22	BDL	BDL				
Min	73	24	19	24	BDL	BDL	73	24	17	21	BDL	BDL				
Max	82	33	22	26	BDL	BDL	78	28	19	23	26	78				
Average	80	29	20	25	BDL	BDL	75	26	18	22	BDL	BDL				

At no time, the emission shall exceed the prescribed limits.

Till date, the emission level has never exceeded prescribed limits.

(Refer Table No.19)

	In the event of failure of any pollution control system adopted	We Will put of operation in case of failure of any pollution control system							
	by the unit, the unit shall be immediately put of the operation	In the event of failure of any pollution control system adopted by the							
	and shall not be restarted until the desired efficiency has been	unit, the unit will immediately put of the operation and will not restart							
	achieved	until the desired efficiency has been achieved							
	The location of Ambient Air Quality (AAQ) monitoring stations	The location of Ambient Air Quality (AAQ) monitoring stations have been							
IV)	shall be reviewed in consultation with SPCB and additional	reviewed & there are 4 nos. AAQ monitoring stations installed in consultation							
	shall be installed, if required, in the downwind direction as	with GPCB in nearby 4 villages, at Derol, Vilayat, Sarnar and Argama within 2-3							
	well as where maximum ground level concentration is	kms radius.							
	anticipated. Dedicated corrubbors and stack of appropriate height as nor	Dedicated scrubbers and stack of appropriate height as nor CDCD							
	Dedicated scrubbers and stack of appropriate height as per CPCB guidelines shall be provided to control the emissions	Dedicated scrubbers and stack of appropriate height as per CPCB guidelines are provided to control the emissions from various							
	from various stacks/vents.	stacks/vents.							
	The survey of th	Rayon plant – 175m stack							
		(As per stack height formula H(m)= 11Q^0.41-3Vs*D/U							
V)		Q- CS2 emission rate (kgs/hr)							
		Vs-Stack Velocity (m/sec)							
		D- Diameter of Stack,							
		U- Annual Avg Wind speed at top of stack (m/sec)							
		H2SO4 plant – 50m stack							
		CS2 Plant – 100m stack provided							
	The scrubber water shall be sent to ETP for further treatment	The scrubber water is routed through ETP.							
VI)	All the chemicals / solvents storage tank shall be under	All storage tanks are suitably designed to avoid leakages for storage under							
	negative pressure to avoid any leakages. Breather valve, N2	atmospheric conditions. CS2 is stored under water due its volatile nature. Dykes							
	blanketing and secondary condensers with brine chilling	re provided at all chemical storage area as per guidelines to arrest spillages /							
	system shall be provided for all the storage tanks to minimize	leaks with Emergency response plan for any such event.							
	vapor loses. All liquid raw material shall be stored in storage								
	tanks and drums.								
	The company shall undertake following waste minimization								
	measures;Metering & control of quantities of active ingredients	Metering & measurement system is in place. Reduction in wastage is also							
VII)	to minimize waste	reflected in specific consumption of chemicals							
	- Reuse of by-products from the process as raw material	Sodium Sulphate is bye-product. Though it is not used in our process, it is being							
	or as RM substitution in other processes								
	o. as the substitution in other processes	utilized by detergent, glass, & paper industries							

	 Use of automated filling to minimize spillages 	Chemicals such as Caustic, Sodium hypochlorite, Sulphuric acid, Carbon disulphide is transported through pipelines. Sodium sulphate is bagged through automatic bagging M/c.
	- Use of "closed feed" system into batch reactors	Not Applicable as ours is continuous process.
	 Venting equipment through vapor recovery system 	There is one CS2 recovery system/machine (total 4 nos.) wherein CS2 is being
		recovered by condensation.
VIII)		Fugitive emissions in work zone environment & storage area are monitored by
	raw materials storage area shall be regularly monitored. The	our Lab on monthly basis and are well within stipulated norms.
	emissions shall confirm to the limits imposed by SPCB/ CPCB	Lab data are tabulated as Table No. 20

Agency: - Environmental Monitoring Lab

Address: -Internal Lab

<u>Details of instrument Used for Monitoring: -</u> <u>Inst. Calibration done by : -</u> Respo Products

Instrument Name: - Toxirae III (for H2S Measurement) & For CS2 measurement following IS 5182 (Part 20): 1982 method

Serial No.:- 1348982

Calibration Date:- 08.01.2020 **Expiry Date: -** 08.01.2021

Table No. 20

					Centra	l Stores					Fibre wa	arehouse					Salt Go	down						
Data	Entry		Middle		Last		Entry		Middle		Last		Ent	Entry		ddle	Last		Entry		Middle		Last	
Date	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S	CS2	H2S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Ppm	ppm	ppm	ppm	ppm	ppm	ppm	Ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Jun-20	0.31	BDL	0.25	BDL	0.33	BDL	0.32	BDL	0.29	BDL	0.32	BDL	0.59	BDL	0.62	BDL	0.63	BDL	0.89	BDL	0.90	BDL	0.88	BDL
Jul-20	0.29	BDL	0.26	BDL	0.34	BDL	0.29	BDL	0.34	BDL	0.33	BDL	0.68	BDL	0.71	BDL	0.84	BDL	0.84	BDL	0.96	BDL	0.85	BDL
Aug-20	0.28	BDL	0.27	BDL	0.31	BDL	0.25	BDL	0.33	BDL	0.34	BDL	0.72	BDL	0.70	BDL	0.79	BDL	0.86	BDL	0.94	BDL	0.89	BDL
Sep-20	0.31	BDL	0.29	BDL	0.31	BDL	0.26	BDL	0.31	BDL	0.34	BDL	0.74	BDL	0.76	BDL	0.70	BDL	0.89	BDL	0.89	BDL	0.85	BDL

The project authorities shall strictly comply with the rules and guidelines under manufacture, storage and import of hazardous chemicals Rules 1989 as amended up to date and Hazardous waste (management & handling) Rules 1989 as amended time to time. Authorization from the GPCB shall be obtained for collection, storage, treatment and disposal of hazardous wastes

Deputy Controller of Explosive from M/s PESO (PETROLEUM & Explosives Safety Organization), has granted license for storage of 60 KL light diesel oil and storage of 10 KL HSD at 2 location in plant area for DG sets. We have valid factory license from DISH. Copy of factory & Petroleum License copy attached as **Annexure -13**

Hazardous waste Rules 2000 is fully complied as per the consent

-			
			stipulated norm and Unit is complying all the waste defined in CC& A.
			Hazardous waste is being disposed to M/5. BEIL, Dahej TSDF facility and
			annual hazardous waste disposal details are submitted on GPCB XGN
			online site and waste disposal online report is attached as Annexure-14.
			Unit has obtained CC&A # AWH 104228 for collection, storage, treatment
			and disposal of hazardous waste from GPCB dated 27th Nov 2019 which
			is valid up to 23rd Mar 2024.
	X)	The overall noise levels in and around the plant area shall be	Following measures taken to control noise level:
		l	

The overall noise levels in and around the plant area shall be kept well within the standard by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (P) Act, 1986 Rules 1989 viz.75 dB (day time and 70 dB (night time)

- Provision of Silencers
- Acoustic Enclosures
- Rubber pads for rotating equipment

The Noise level (dB) at workroom for last 6 months is tabulated as under Table No. 21:

Calibration Period: - 18.01.20 – 18.01.21 dB Meter: - Make: - Lutron Sr.No.348982

Certification Agency: - Tools MRO Safety / Address: - 806 – 808, Abhinandan Royale, Opp. Rajhans Olympia, Bhatar Road, Surat – 395007, Gujarat, India

Reference Standard: - Sound Level Calibrator, Sr. No. 3421624, Calibration Valid Up to: 22.07.2020

	Table No. 21								
	Jur	Jun-20		l-20	Au	Aug-20		Sep-20	
Area	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
Norms=>	75	70	75	70	75	70	75	70	
Main Gate	66	59	63	53	53	49	63	61	
Material Gate	62	53	61	53	56	52	66	62	
ОНС	67	63	59	61	65	61	62	58	
Derol	56	50	58	61	59	56	59	56	
Vilayat	59	53	63	59	62	58	56	54	
Sarnar	60	56	60	52	62	58	59	59	
Argama	63	54	61	54	60	59	61	58	
Min	56	50	58	52	53	49	56	54	
Max	67	63	63	61	65	61	66	62	
Avg	62	55	61	56	60	56	61	58	

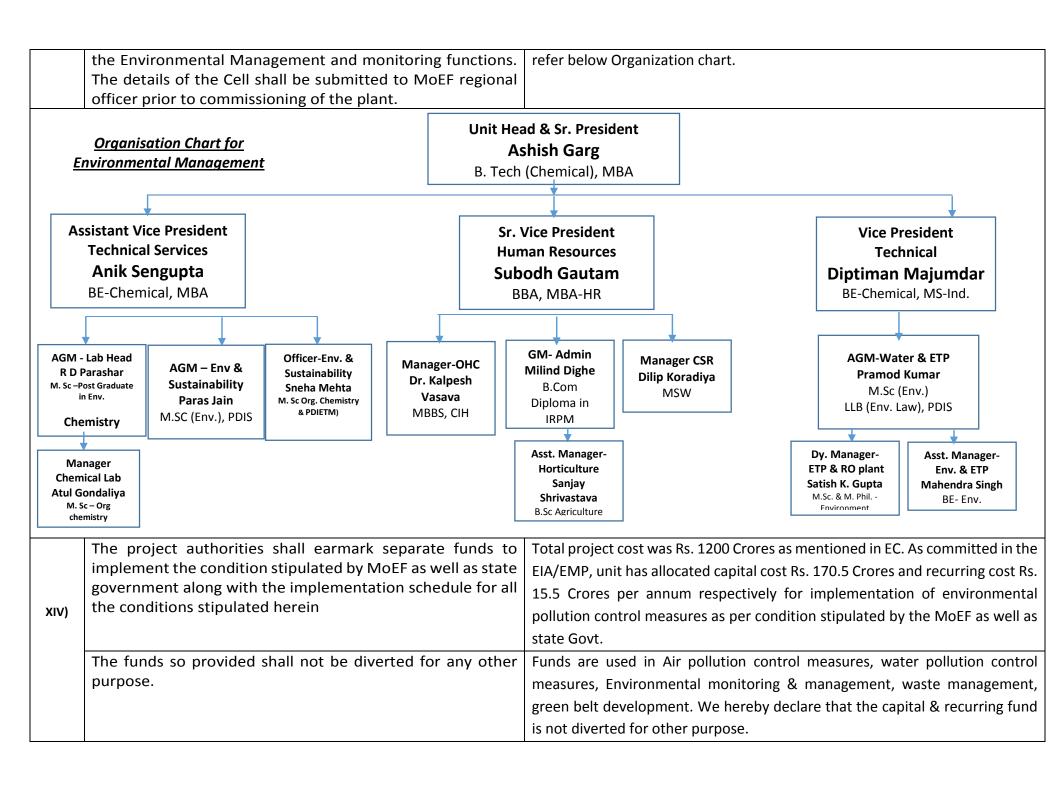
XI)	The company shall develop rain water harvesting structures	Survey has been done for roof top rain water harvesting. Job is being taken up
	to harvest the runoff water for recharge of ground water	in few locations. Pl. refer Annexure-15
		In addition to survey we have provided roof top water recharging facility at 7
		locations inside the plant, Please find below photograph for your reference.
		GROUND WATER RECHARGING DIV.2
	The company shall undertake eco-development measures	We have been undertaking various community development measures in
	including community welfare measures in the project area for	and around 25 Villages and 63,550 nos. of beneficiaries covered in
XII)	the overall improvement of the environment.	FY'20.Unit has proposed Eco development plan yearly basis through CSR
		activities and submitting CSR activities update in Annual Environment Audit
		Report to GPCB on yearly basis.
	The eco development plan should be submitted to SPCB within	Eco development measures including community welfare being done under CSR
	three months of receipt of this letter for approval	initiatives as attached in Annexure-16 & its expenditure details are in below Table No.
		22

Table No. 22					
Financial Year	Average Net Profit (in Crore) of the company	Allocate CSR Amount	Actual Spent in CSR	% Spent CSR against Net	
rinanciai fear	(As per 135(S) company's Act)	(2%)	(Amount in Crore)	Profit	
2015-2016	791.00	15.82	15.05		
2016-2017	790.00	15.80	18.06		
2017-2018	1107.00	22.14	29.84		
2018-2019	1699.00	33.97	47.14		
2019-2020	2421.32	48.43	58.98		
Total=>	6808.32	136.16	169.07	2.48%	

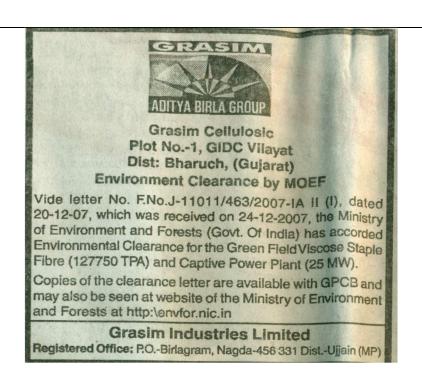
XIII)

A separate Environment Management Cell equipped with We have personnel within Environment Management/ Engineering, full-fledged laboratory facilities shall be set up to carry out

Chemical, botany & water resources and also from Process & Engineering. Pl.



			Fund Utilize	for enviror	ment	al Mana	gement are un	der (Rs. In C	Crore)	
		Sr.	Particular	Capex O		Орех	Орех	Орех	Opex	
	N				F	Y-17	FY-18	FY-19	FY-20	
		1	Effluent Water	79.00	1	1.50	10.56	11.00	11.00	
		2	Air Pollution Control	91.00	C	3.50	04.00	03.30	5.17	
		3	Green Belt Development	00.50	C	0.50	00.55	01.30	0.51	
		4	Waste Management	01.50	C	0.50	00.60	01.60	3.07	
		Tot	al Amount (In Crore)=>	172.00	1	6.00	15.71	17.20	19.75	
XV)	•		of the project vis-a-vis en			Six month	nly compliance stat	us report is be	ing regularly submitted, pl. re	efer attached
	•		itored by the concerned	_		Annexure	2-7 of last report as	acknowledger	ment, dated 21/05/2018.	
			A six monthly compliance nitoring agencies and shall	•			Compliance Per	iod	Date of Report Subm	nission
	website of the			i be posteu (on the	Apr-16 to Sep-16		10.11.2016		
			,			Oct-16 to Mar-17		24.04.2017		
						Apr-17 to Sep-17		14.06.2017		
							Oct-17 to Mar-1	.8	21.05.2018	
							Apr-18 to Sep-1		12.09.2018	
							Sep-18 to Mar-1		14.06.2019	
							Oct-19 to Mar-2		01.06.2020	
XVI)	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 MoEF htpp://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned regional office of the Ministry. Name of Paper: - Indian Express Date of Issue: - 28.12.2007 In: - English language			by the e with ite of within ter at ced in guage all be	Name of	ed on 20.12.200 ement details. f Paper : - Gujar Issue: - 28.12.20 jarati language	ati Loksatta	on 24.12.2007 following	ng are the	





પ્લોટ નં.-૧, જીઆઈડીસી વિલાયત, ડી.ભરૂચ, (ગુજરાત) MOEF દ્વારા પર્ચાવરણીય પરવાનગી

પર્ચાવરણ તથા વનમંત્રાલયે (ભારત સરકાર) વિલાયતમાં VSF પ્લાન્ટ ૧૨૯૯૫૦ ટન પ્રતિ વર્ષ અને પાવરનું ઉત્પાદન ૨૫ મેગાવોટના ગ્રીન ફીલ્ડ પ્રોજેક્ટની પરવાનગી તારીખ ૨૦-૧૨-૨૦૦૯ના પત્ર નં. એફ. નં. જે-૧૧૦૧૧/૪૬૩/૨૦૦૯- ઓ II (I) દ્રારા આપેલ છે. પરવાનગી પત્રની નકલ જીપીસીબી અને પર્ચાવરણ તથા વન મંત્રાલયની વેબસાઈટ http:\envfor.nic.in પર પ્રાપ્ય છે.

ગ્રાસીમ ઈન્ડસ્ટ્રીઝ લીમીટેડ

રજીસ્ટર્ડ ઓફીસ: પી.ઓ.બિરલાગ્રાંમ, નાગદા-૪૫૬ ૩૩૧ જી. ઉલેન (એમ.પી.)

EC Amendment on 15.01.2018 & following are the advertisement details.

Name of Paper: - Times of India Date of Issue: - 19.01.2018

In: - English language



Name of Paper: - Gujarat Samachar

Date of Issue: - 19.01.2018 In : - Gujarati language



Six Monthly Compliance Report of Environmental Clearance For

Expansion of Viscose Staple Fibre, Sulphuric Acid and Carbon Disulphide



EC-2019

Submitted to:-

Ministry of Environment Forest & Climate

Change, (WR Office) Bhopal Ministry of Environment
Forest & Climate Change, New Delhi
Central Pollution Control Board, Zonal Office
(Vadodara) Gujarat Pollution Control Board-Bharuch

Submitted By:-

Grasim Industries Limited

(Unit: - Grasim Cellulosic Division)

Plot No. 1 GIDC Vilayat Industrial Estate,

PO-Vilayat, Taluka-Vagra, Dist.: - Bharuch392012, Gujarat, India

Period: -01.04.2020 to 30.09.2020

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

List of Annexure

Sr. No.	Title	Annexure No.
1	GIDC offer Allotment Letter	Annexure-1
2	Acknowledgment for Amendment of EC Condition	Annexure-2
3	LDO & HSD Licenses	Annexure-3
4	GPCB Monthly Patrak Sep-20	Annexure-4
5	Third Party Monitoring Reports Annexure-5	
5	Status of EIA/EMP	Annexure-6
6	Acknowledgment EC Clearance submitted to Panchayat	Annexure-7
7	Advertisement Details	Annexure-8

Note: Due to COVID 19 lockdown, Our manufacturing process was totally stopped from 23.03.2020 to 19.06.2020, hence third party monitoring was not carried out for Apr-2020 & May-2020.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For

Grasim Cellulosic Division (GCD), Vilayat Project

-: Introduction: -

- 1. Grasim Industries Limited (GIL), incorporated on 25th Aug., 1947; is a flagship company of the Aditya Birla Group and India's pioneer in manufacturing of Viscose Staple Fibre (VSF) a man-made, biodegradable fibre with characteristics akin to cotton.
- 2. M/s. Grasim Industries Ltd. has four VSF Plants in India which are located at Nagda (Madhya Pradesh), Harihar (Karnataka), Kharach & Vilayat (Gujarat).
- 3. Grasim Cellulosic Division, Vilayat is a latest plant in the Pulp & Fibre business, commissioned in Apr-2014 which produces both grey VSF and specialty fibre. This is the company's first plant producing specialty grade fibre.
- 4. The Company's main production is Viscose Staple Fibre, Sulphuric Acid, Carbon-Disulphide.
- 5. All the operation related permits, including Environmental Clearance, Forest Clearance from MOEF&CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from Gujarat Pollution Control Board, are in place.
- 6. Environmental quality monitoring in & around the project site is being carried out by GPCB & NABL approved Laboratory on a regular basis.
- 7. 04 No. of Ambient Air Quality Monitoring Stations (AAQMS) along with Environmental Parameter Display Board at main gate have been established.
- 8. Continuous Emission Monitoring System has installed in process stacks of Rayon (Fibre) plant and H2SO4 acid plant for regular monitoring of CS2, SO2 etc.
- 9. Online TOC, pH & flow meters installed at the outlet of ETP, before discharging treated effluent to GIDC pipeline.
- 10. Green belt is being developed as per the CPCB guidelines to curb the emission and also to provide an aesthetic look.

11. Point wise compliance status of Environmental Clearance for GCD, Vilayat is furnished herewith.

Compliance Status Report for "Environmental Clearance" Accorded by the MoEF For Grasim Cellulosic Division (GCD), Vilayat

Compliance status on Environmental Clearance EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019

Sr.	Stipulation		Compliance Status
No.	This has reference to your Online proposal no. IA/ GJ / IND2 /58913 /2016, dated 231 February 2019, for environmental clearance to the above subject.	d -	
2	The Ministry of Environment, Forest and Climate Change has considered the proposal for environmental clearance to the project for expansion of Viscose Staple Fibre from 2,55,50 TPA to 4,38,000TPA, Sulfuric acid (1,82,500 to 3,46,750TPA) and Carbon- Disulphide (3467 to 65,700 TPA) by M/s Grasim Industries Ltd (Grasim Cellulosic Division) in an area of 222.6 ha at Plot No.1, GIDC Industrial Area, Vilayat, Taluka Vagra, District Bharuch (Gujarat).	0 47' 1 Lor 5 54'	itude : 21 deg 46'8" and 21 deg 11"North ngitude : 72 deg 53'18"and 72 deg 49"East
3	The Existing & proposed Production capacity:	No issu exp pro rec Fib	production is not started under the EC. F. No. J-11011/321/2016-IAII (I); ued on 17th October 2019 for the pansion project, following is the oduction details produce under the EC seived in 2007 & 2018 for Viscose Staple re & Sod. Sulphate after receiving EC, E & CTO.
	Products=> Viscose Staple Carbon Di Sulf	ıric	Sodium Sulphate Power

Products=>	Viscose Staple Fibre	Carbon Di sulphide	Sulfuric Acid	Sodium Sulphate (Byproduct)	Power Generation
EC No. F. No. J-11011/321/2016-IAII(I) EC issued on 17th October 2019 (TPA)	4,38,000	65,700	3,46,750	3,48,576 - 3,93,288	55MW
Total Production (Tons) – Apr-20 to Sep-20	50705	9916	38373	31428	-
Total Production (Tons) – Oct-19 to Mar-20	85154	11895	54006	54623	-

4	Existing land area is 222.63 ha (2226300m2). No additional land will be required for the proposed expansion.	No additional land is required for the proposed expansion.
	The estimated project cost is Rs. 3500 Crores against the previously envisaged Rs. 2560 crores.	-
	Total capital cost earmarked towards environmental control measures is Rs. 420 crores against Rs 150 crores and the recurring cost (operational and maintenance) will be about Rs. 70 crores against Rs 15 crores per annum.	Separate funds is earmarks on annual basis for Environmental management. At present capital cost of Rs. 210 crores spent as per the condition given in EC-2007 & EC-2018. Additional cost will be incur for the expansion project.
	Total employment will be 1400 persons as regular & 1300 persons on contract after expansion.	Total employment 1400 persons as regular & 1300 persons on contract will be provided after expansion project work will completed.
5	There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km. Narmada River flows at 9 km in south south west.	We have noted & there are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project site. Narmada River (estuarine region) is at a distance of 9.0 km in SSW direction from the project site.
6	Total water requirement is 52,500 m3/day, including fresh water requirement of 38,500m3/day proposed to be met from Gujarat Industrial Development (GIDC) pipeline.	Yet production is not started under the EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019 for expansion project. We shall met fresh water requirement through GIDC as being done for existing plant. In present plant the average Water consumption for last six months (Apr'20-Sep'20) – 8639 m3/day, sourced from Narmada River, supplied by GIDC, following are the tabulated water Consumption details in Table No.01

	Table No.01					
Month	Water Consumption (m3/day)					
	Average	Minimum	Maximum			
Apr-20	1385	352	3574			
May-20	560	287	991			
June-20	8484	406	12471			
July-20	13326	10577	15071			
Aug-20	13950	11754	14951			
Sep-20	14128	13295	15227			
Avg.	8639	-	-			

Note: Plant was stopped in Apr-20 & May-20 due to COVID19 lockdown, Consumed quantity utilized in this period was for Equipment washing and cooling.

Effluent - 40,000 m3/day will be treated in the Effluent Treatment Plant of which around 14,000m3/day of treated effluent will be recycled back to VSF plant and remaining 26000m3/day will be discharge through GIDC common Pipeline into deep Sea after recovery of water from the effluent.

Table No. 02					
Month	Effluent Quantity (m3/day)				
	Average	Minimum	Maximum		
Apr-20	1187	0	3089		
May-20	2324	870	12772		
June-20	8418	925	12823		
July-20	12279	0	14566		
Aug-20	12999	7489	15220		
Sep-20	12735	5458	15279		
Avg.	8324	-	-		

Following are the GIDC offer cum allotment letter details; Please refer **Annexure-01** for GIDC Water Allotment Letter;

1) Letter No.	GIDC/POJ/MKT/GRASIM/575
	Dated 06 th December-2006
Agreement for Water Supply	15.60 MLD
Effluent Discharge	12.48 MLD
2) Letter No.	GIDC/SE/CG//BRH/1236
	Dated 29 th December-2016
Agreement for Water Supply	25.00 MLD
Effluent Discharge	19.40 MLD
3) Letter No.	GIDC/BRH/WS/494
	Dated 3rd.July,2019
Agreement for Water Supply	35.00 MLD

The average quantity of effluent treated & discharged from Apr-20 to Sep-20 is 11242 m3/day, please refer following **Table No.02**We have installed one skid of RO on the one stream of existing plant effluent and getting the recovery as mentioned in below **Table No.03.** RO system related to expansion activities are under progress.

Table No.03			
RO permeate			
Month	(m3/day)		
Apr-20	0.0		
May-20	0.0		
June-20	1354		
July-20	2527		
Aug-20	2961		
Sep-20	2837		
Average	1613		

	 Our plant was stopped in Apr-20 & May-20 due to COVID19 lockdown, the effluent discharge quantity is of our Chemical division & epoxy division due to single discharge point. Minimum Zero values in the month of Apr-20 & July-20 are due to maintenance activity was carried out in the GIDC effluent line, hence effluent discharge was stopped for 24hrs. 	
	Power requirement after expansion will be 60 MW which will be mt from Captive Power Plant. No DG sets will be required.	Presently we are getting 25MW from captive plant installed under chemical division. The installation of 30MW captive power plant is under progress. Remaining 5MW we will get from the captive power plant of Chemical Division which is in same campus.
7	The project category covered under Category A of item 5(d) 'Manmade fibres manufacturing' of the schedule to the Environment Impact Assessment (EIA) Notification, 2006 under category 'A' and requires appraisal/approval at central level in the Ministry.	Noted
8	Standard Terms of Reference for the project was issued on 24th August, 2018. Public hearing is exempted as the project site is located inside the notified industrial area.	Noted
9	The proposal was considered by the sectorial Expert Appraisal Committee (Industry-2) in the meeting held on 26-28 June 2019, wherein the project proponent and their accredited consultant presented the EIA/EMP report. The committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.	Noted
10	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for expansion of Viscose Staple Fibre (2,55,500 to 4,38,000TPA), Sulphuric Acid (1,82,500 to 3,46,750TPA) and carbon- Disulphide (34675 to 65,700 TPA) by M/s	Noted

10	Grasim Industries Ltd (Grasim Cellulosic Division) at Plot No. 1, GIDC Industrial Area Vilayat, Tehsil Vagra, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under: Terms & Condition	
10	Terms & Condition	Vet and disting is not stanted under the EC No. E. No. 1.41011/221/2016
(a)	Necessary permission as mandated under Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the state Pollution Control Board.	Yet production is not started under the EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019 for expansion project. Once plant is commission necessary permission under Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be taken from the state Pollution Control Board.
(b)	Treated effluent shall be recycled back to VSF Plant and remaining 26000m3/day will be discharged through GIDC common pipeline into deep sea after recovery of water from the effluent.	Yet production is not started under the EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019 for expansion project. In present plant, the average quantity of effluent treated & discharged from Apr-20 to Sep-20 is 8324 m3/day. (Please refer above Table No. 02) We have installed one skid of RO on the one stream of existing plant effluent and getting the average recovery 1613 m3/day as mentioned in above in Table No.03 . RO system for other streams are under progress to receive the desire recovery.
(c)	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.	Yet production is not started under the EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019 for expansion project. Necessary authorization required under the Hazardous and other Wastes (Management and Trans- Boundary Movement) Rules, 2016, Solid Waste management Rules, 2016 shall be taken and we shall adhere the rules.

(d)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	To control source and the fugitive emissions, suitable pollution control devices will be installed and will be connected with main chimney of 175m height to meet the prescribed norms and/or the NAAQS.
(e)	Solvent management, if any, shall be carried out as follows: (i) Reactor shall be connected to the chilled brine condenser system. (ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (iii) The condensers shall have provided with sufficient HTA and residence time so as to achieve more than 98% recovery. (iv) Solvents shall be stored in separate space specified with all safety measures. (v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	At present we are not handling any solvent, when we start to use, we will abide the given condition.
(f)	Total fresh water requirement shall not exceed 38,500m3/day proposed to be met from Gujarat Industrial Development (GIDC) pipeline. Pipeline Prior permission in this regard shall be obtained from the concerned regulatory authority.	Yet production is not started under the EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019 for expansion project. Presently average fresh water consumption quantity from Apr-20 to Sep-20 is 8639 m3/day, please refer above Table No.01 . Necessary authorization for additional quantity of water will be taken from Gujarat Industrial Development (GIDC).
(g)	Rain water harvesting structures shall be provided to reduce dependency of fresh surface water for industrial purpose. In any case, no ground water shall be used for the plant.	For existing plant the detailed Rain Harvesting Survey has been carried out & the same will be carried out for expansion project.
(h)	The storm water from the premises shall be collected and discharged through a separate conveyance system.	For existing plant hazardous chemicals are stored in tanks, tank farms, drums, carboys, Flame arresters are provided with the Hazardous chemicals carrying vehicles and will store in same way in expansion project.

(i)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on the tank farm, and solvent transfer through pumps.	Hazardous chemicals are stored in tanks, tank farms, drums, carboys, Flame arresters are provided with the Hazardous chemicals carrying vehicles.
(j)	Process organic residues and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	We have applied for amendment of the condition on 24.02.2020 This condition need to amend as ETP inorganic sludge (Gypsum) shall be sent to cement industries/ TSDF/Co-processing unit, Process organic residue & spent carbon and ETP bio (Organic) sludge to be burnt in power plant or sent to TSDF/ Co processing unit. Please refer Annexure-02 for acknowledgment copy.
(k)	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 Motor Vehicle Act (MVA), 1989.	Deputy Controller of Explosive from M/s PESO (PETROLEUM & Explosives Safety Organization), has granted license for storage of 60 KL light diesel oil and storage of 10 KL HSD at 2 location in plant area for DG sets. We have valid factory license from DISH. Copy of factory & Petroleum License copy attached as Annexure -03 Hazardous waste Rules 2000 is fully complied as per the consent stipulated norm and Unit is complying all the waste defined in CC& A. Hazardous waste is being disposed to M/5. BEIL, DahejTSDF facility and annual hazardous waste disposal details are submitted on GPCB XGN online site and waste disposal online report is attached as Annexure-04. Unit has obtained CC&A # AWH 104228 for collection, storage, treatment and disposal of hazardous waste from GPCB dated 21st May 2019 which is valid up to 23rd Mar 2024.
(1)	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. (iv) Use of close Feed system into batch reactors.	The waste minimization measures will be taken as per the condition once the production is started under the issued EC No. F. No. J-11011/321/2016-IAII (I); EC issued on 17th October 2019.

	(vi) Us		sure hoses for eq	/apour recovery system. uipment clearing to reduce	
(m)	than periph Select	33% of the to ery, in downwa ion of plant sp	otal project area ard wind direction	shall be developed in more	
			Table No. 05		Existing Plantation Species:
	Sr. No	Duration	Area (Acre.) for Plantation	Number of Plant	Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Gulmohar
	1	Existing (Till FY; 2017-18)	60	37,500 Plants	(Delonix regia), Rain tree (Samanea saman), Yellow Gulmohar
	2	2018-19	25	15,000 Plants	(Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Earleaf Acacia
	3	2019-20	25	15,000 Plant	(Acacia auriculiformis), Kadamb (Neolamarckia cadamba), Basant Rani
	4	2020-21	25	15,000 Plant	(Tabebuia rosea), Safeda (Eucalyptus), Bougainvillea spectabilis, Lawn
	5	2021-223	25	15,000 Plant	Plantation and Shrubbery.
	6	2022-23	25	15,000 Plant	The Existing Spices for plantation are Selected by following CPCB guidelines
		Total=>	185	1,12,500 Plant	The process of process of process of the process of

Proposed Plantation Species: Neem (Azadirachta indica), Kasood (Cassia siamea), Pine/Junglisaru (Casuarina equisetifolia), Orchid tree (Bauhinia blakeana), Saptparni (Alstonia scholaris), Gulmohar (Delonix regia), Rain tree (Samanea saman), Shisham (Dalbergia sissoo), Bel (Aegle marmelos), Arjun tree (Terminalia arjuna), Cassia fistula (Amaltas), Yellow Gulmohar (Peltophorum ferrugineum), Bottle brush (Callistemon sp.), Kadamb (Neolamarckia cadamba), Semal/Kapok (Bombax ceiba), Jamun (Syzygium cumini), Apple blossom tree (Cassia javanica), Sausage tree (Kigelia pinnata), Basant Rani (Tabebuia rosea), Morpankhi (Thuja occidentalis), Safeda (Eucalyptus), Guh babool (Acacia farnesiana), Kaner (Nerium indicum), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Jarul (Lagerstroemia speciosa), Bougainvillea spectabilis, Lemon (Citrus lemon), Sankuppi (Clerodendrum inerme), Lawn Plantation and Shrubbery etc.

Plant species for Odor management: Neem (Azadirachta indica), Saptparni (Alstonia scholaris), Guh babool (Acacia farnesiana), Morpankhi (Thuja occidentalis), Bougainvillea (Bougainvillea spectabilis), Lemon (Citrus lemon), Kaner (Nerium indicum), Mehndi (Lawsonia inermis), Champa (Plumeria rubra), Holy basil (Ocimum tenuiflorum), Tulsi (Ocimum sanctum), Sankuppi (Clerodendrum inerme), Jasmine tree (Plumeria alba), Jarul (Lagerstroemia speciosa), Gurhal (Hibiscus rosa sinensis), Bunchgrass (Vetiveria zizanioides) etc.

Gaseous emission (SO2 & NOx) tolerant species: Neem (Azadirachta indica), Bel (Aegle marmelos), Kasood (Cassia siamea), Earleaf Acacia (Acacia auriculiformis), Saptparni (Alstonia scholaris), Aldu (Ailanthus excelsa), Siris (Albizia lebbeck), Shisham (Dalbergia sissoo), Pipal (Ficus religiosa), White fig (Ficus infectoria), Maulsari (Mimusops elengi), Kaner (Nerium indicum), Jarul (Lagerstroemia speciosa) etc.









At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action shall be prepared and submitted to the Ministry's Regional office.

Detailed plan prepared under the CER with time bound action and submitted to the Ministry's Regional office.

(n)

	Actio	Table Non Plan for CER		tion			
		1st Year	2nd Year	3rd Year	4th Year	5th Year 01.04.23 - 31.03.24	Total Amount (In Lacks)
Sector	Activity	17.10.19 - 31.03.20	01.04.20 - 31.03.21	01.04.21 - 31.03.22	01.04.22 - 31.03.23		
Health Care	Hospital or Adopt Primary Health Center(Plan to adopt 41 Govt. PHC Center in Bharuch district)	0	100	80	50	30	260
Waste	To make the sewage collection pit & transfer the sewage to our STP	0	60	30	30	30	150
Management	Biogas plant	0	10	20	10	20	60
Enorgy	Provision of Solar Power Plant	0	25	10	10	5	50
Energy Conservation	Save Energy Programme - Provision of Solar Street Light" (1000Nos.)	0	15	5	5	5	30
	Provision of Water recharging Well	0	20	20	10	0	50
Water	Pond Recharging	0	100	50	50	50	250
Management	Drinking water supply - RO Plant & Others	0	10	5	5	5	25
Grand Total (F	Rs in Lacks)==>	0	340	220	170	145	875

Note: Total Project Cost : Rs. 3500 Crores

CER @ 0.25% = 8.75 Crores

Status : Under CER action plan for 02nd year (From 01.04.20 - 31.03.21, currently we have spent Rs. 5.0lack by providing the Solar light in nearby village.

No additional DG set is required for the expansion project, Existing unit has 2 DG sets of 1250 KVA capacity, that are used as standby For the DG sets, emission limits and the stack height shall be conformity with the extant regulations and the CPCB guidelines. during power failure. Stack height of 30 m has been provided as per (o) Acoustic enclosures shall be provided CPCB norms for the existing DG sets. Kindly Refer attached Test Report as Annexure-05. Name of Agency: M/s. Unistar Pvt. Ltd **Instrument No.** UERL/AIR/SMK/52 Instrument No. Stack Monitoring Kit, VSS1, Serial No. 467 DTJ 15 Calibration Date: 27.06.2020; Calibration Expire On: - 26.06.2021 Table No.07 Month DG Set-1 DG Set-2 Sulphur **Particulate Sulphur Dioxide** Particulate matter Oxide of Nitrogen Oxide of Nitrogen Unit Dioxide matter (mg/Nm3)(PPM) (PPM) (PPM) (PPM) (mg/Nm3) **GPCB** limit 150 100 50 150 100 50 71 21 35 85 22 36 June-20 68 18 33 74 20 35 July-20 74 15 38 79 17 43 Aug-20 Sep-20 83 16 36 71 14 40 68 15 71 14 Min 33 35 Max 83 21 38 85 22 43

36

The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.

74

18

Average

(p)

(q)

To protect the possible fire hazards during manufacturing process in material handling firefighting system is provided in present plant & same will be provided for expansion project as per the norms.

39

18

77

Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

Occupational health surveillance of the workers is carried out on a regular basis for running plant and records are maintained as per the Factories Act. Will follow same practices for expansion facilities after commissioning of same.

(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We Shall Comply the condition on commissioning of plant to install the silos or in covered areas to prevent dust pollution and other fugitive emissions.		
(s)	Continuous online (24x7) monitoring system for stack emission shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capacity and flow meters in the channel/drain carrying effluent within the premises.	We Shall Comply the condition on commissioning of plant to provide the Continuous online (24x7) monitoring system for stack emission to be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent.		
(t)	The energy sources for lighting purpose shall preferably LED based.	We Shall Comply the condition on commissioning of plant.		
(u)	Transportation of raw materials/products should be carefully performed using GPS enabled vehicles.	We Shall Comply the condition on commissioning of plant.		
10.1	The grant of Environmental Clearance is further subject to complia	ance of other generic conditions as under:		
	The project authorities must strictly adhere to the stipulations	We have valid consent for running plant for which we abide the		
i.	made by the Central Pollution Control Board, State Pollution Control Board(SPCB), State Government and any other statutory authority	stipulations & shall apply for the expansion projects.		
i. ii.	Control Board(SPCB), State Government and any other statutory	We have received EC for expansion of VSF plant capacity from to 255500 TPA to 438000 along with expansion of CS2 & H2SO4 plants on 17th Oct-19, also for setting up Solvent Spun Cellulosic fibre plant for 100 TPD and CPP of 55 MW.		

iv.	Ministry vide G.S.R. No. 826(E) dated 161h 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)

The National Ambient Air Quality Emission Standards issued by the

The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 161h November, 2009 are being followed.

Following measures taken to control noise level in running plant;

- Provision of Silencers
- Acoustic Enclosures
- Rubber pads for rotating equipment

The Noise level (dB) at workroom for last 6 months is tabulated as under Table No. 08:

Calibration Period: - 18.01.20 – 18.01.21 **dB Meter:** - **Make:** - Lutron Sr.No.348982

Certification Agency: - Tools MRO Safety / Address: - 806 – 808, Abhinandan Royale, Opp. Rajhans Olympia, Bhatar Road, Surat – 395007, Gujarat, India

Reference Standard: - Sound Level Calibrator, Sr. No. 3421624, Calibration Valid Up to: 22.07.2020

	Table No. 08							
	Jun-20		Jul-20		Aug-20		Sep-20	
Area	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
Norms=>	75	70	75	70	75	70	75	70
Main Gate	66	59	63	53	53	49	63	61
Material Gate	62	53	61	53	56	52	66	62
ОНС	67	63	59	61	65	61	62	58
Derol	56	50	58	61	59	56	59	56
Vilayat	59	53	63	59	62	58	56	54
Sarnar	60	56	60	52	62	58	59	59
Argama	63	54	61	54	60	59	61	58
Min	56	50	58	52	53	49	56	54
Max	67	63	63	61	65	61	66	62
Avg	62	55	61	56	60	56	61	58

vi	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, an to utilize the same for different industrial operation within the plant.	We have provided the ground water recharging facility in present plant where roof top water is collected & use to recharge the ground water. Following is the pic attached for the reference.
vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling.	Trainings shall be imparted to all employees on safety and health aspects of chemicals handling for expansion project.
	Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Pre-employment and routine periodical medical examinations for all employees are undertaken on regular basis.
viii	The company shall also 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, and risk mitigation measures relating to the project shall be implemented.	All conditions as prescribed in EC, NOC and CC&A is maintained and monitored regularly. Detailed status of EIA/EMP is attached as Annexure-06.
ix.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration and other stake holders. Also eco-development measures shall be undertaken for overall improvement of the environment.	We have been undertaking various community development measures in and around 25 Villages and 63,550 nos. Of beneficiaries covered in FY'20. Unit has proposed Eco development plan yearly basis through CSR activities and submitting CSR activities update in Annual Environment Audit Report to GPCB on yearly basis.
х	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	In present plant, we have personnel within Environment Management/ Engineering, Chemical, botany & water resources and also from Process & Engineering. Pl. refer below Organization chart.

Name of Parameter	Testing Facility Available	Name of Instrument		
	Yes or Not			
рН	Yes	pH Meter		
Colour	Yes	Physically		
Temperature	Yes	Thermometer		
TSS	Yes	Filtration method		
Oil & Grease	Yes	Extraction Method		
Fluoride	No	-		
Sulphide	Yes	Resin Method		
Ammonical Nitrogen as N	No	-		
Copper	No	-		
Zinc	Yes	EDTA Method		
COD	Yes	COD Digestion Method		
BOD	Yes	3 Days Incubation Method		
Total Residual Chlorine	Yes	Titrimetric Method		
Arsenic	No	-		
Mercury	No	-		
Hexavalent Chromium	Yes	UV Spectrophotometer		
Total Chromium	No	-		
Lead	No	-		
Cadmium	No	-		
Nickel	No	-		
Cyanide	No	-		
Phenolic Compound	No	-		
Selenium	No	-		
Mn	No	-		
Iron	Yes	Comparison Method		
Vanadium	No	-		
Ambient Air Monitoring	Yes	-		
Stack Monitoring Kit	Yes	-		
dB Meter	Yes	Sound Meter		
MLSS, MLVSS, MLRSS	Yes	Filtration, Oven, Muffle furnace		



Conductivity & TDS Meter



Analytical Balance



Spectro photo Meter



pH Meter



High Volume Sampler



BOD Incubator

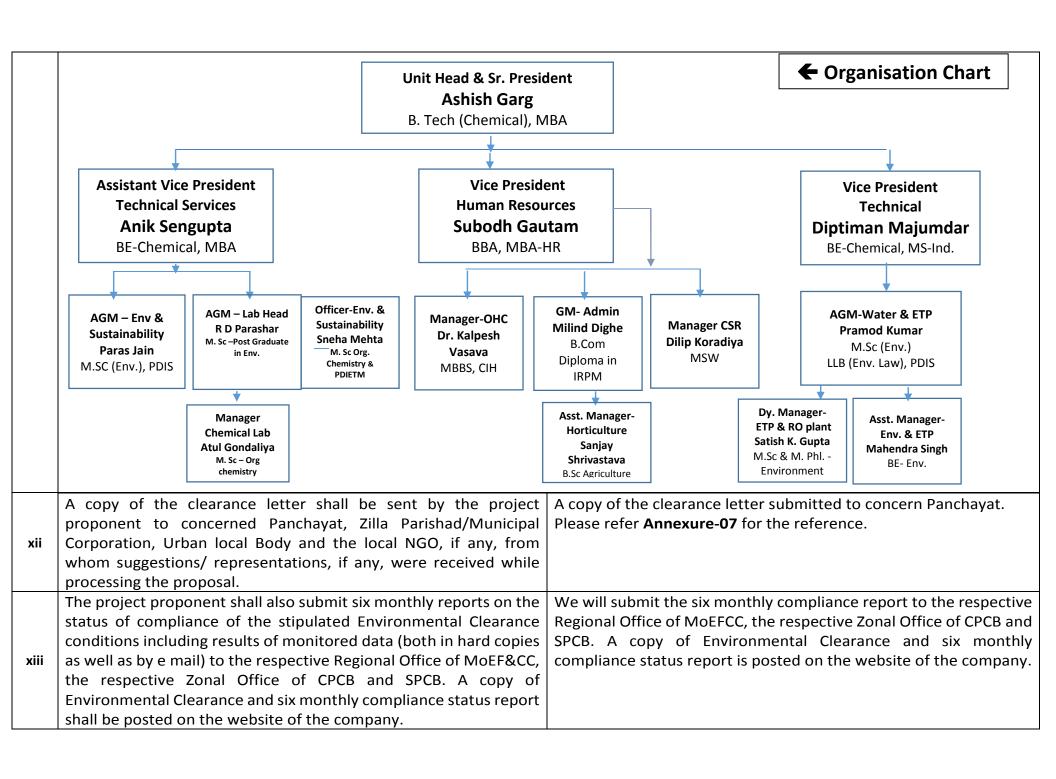


Oven & Muffle Furnace



COD Digester

Available Facilities In Laboratory



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 by e-mail	The environmental statement for each financial year ending 31st March in Form-V as is submitted to the 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 also sent to the respective Regional offices 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	24.10.2019 Copy attached as Annexure-08		
	Name of Paper: - The Times of India, Ahemdabad	Name of Paper : - Divya Bhaskar, Vadodara		
	Date of Issue: - 24.10.2019 In: - English language	Date of Issue: - 24.10.2019 In : - Gujarati language		
	III Eligisii laliguage	iii Gajarati language		
	PUBLIC NOTICE ENVIRONMENTAL CLEARANCE It is hereby informed that the Ministry of Environment, Forest and Climate Change, IA-II Division, Government of India, New Delhi, has accorded Environmental Clearance for Expansion of Viscose Staple Fibre Unit at Plot No. 1, GIDC Industrial Area, Vilayat, TalukaVagra, District Bharuch (Gujarat) of M/s Grasim Industries Limited (Grasim Cellulosic Division) vide letter, F. No. J-11011/321/2016-IAII (I), Dated: 17th October-2019, under the provision of EIA Notification, dated 14thSeptember-2006. Copies of the clearance letter are available with the GPCB/Committee and may also be seen at website of the Ministry at http://moef.nic.in. Date: 21/10/2019 Place: VILAYAT GRASIM INDUSTRIES LTD. (Grasim Cellulosic Divn.)	જાહેર સૂચના પર્યાવરણ મંજૂરી આ સાથે જણાવામાં આવે છે કે પર્યાવરણ વન અને કલાઇમેન્ટ ચેન્જ મંત્રાલય IA-II વિભાગ, ભારત સરકાર, નવી દિલ્લી દ્વારા મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીસ લિમ્પ્ટેડ (ગ્રાસીમ સેલ્યુલોઝીક ડીવીઝન) પ્લોટ નં-૧, જી. આઇ.ડી.સી ઇન્ડસ્ટ્રીયલ એરીયા, વિલાયત, તાઃ વાગરા, જીઃ ભરૂચ (ગુજરાત) ખાતે વિસ્કોસ સ્ટેપલ દ્વાઇભર યુનિટ પ્લાન્ટના વિસ્તરણ માટેની પર્યાવરણીય મંજુરી તારીખ ૧૭ ઓકટોબર ૨૦૧૯ ના પત્ર ક્રમાંક જી-૧૧૦૧૧/૩૨૧/૨૦૧૬ –IA II(I) દ્વારા ઈ.આઇ.એ. નોટીફીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ જોગાવઇ હેઠળ આપેલ છે. ઉપરોકટ પત્રની નકલ જીપીસીબી/કમીટી ઉપરાંત MoEF ની વેબસાઈટ http://moef.nic.in ઉપર ઉપલબ્ધ છે. તારીખ: ૨૧/૧૦/૨૦૧૯ યુનિટ હેડ મેસર્સ ગ્રાસીમ ઇન્ડસ્ટ્રીસ લિમ્પિટેડ (ગ્રાસીમ સેલ્યુલોઝીક ડીવીઝન)		

xvii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project	We will submitted the desired information on project completion to the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
11	The Ministry may revoke or suspend the clearance, at subsequent stages, if implementation of any of the above conditions is not satisfactory	
12	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules	Presently we are following terms & conditions GPCB CC&A compliance, Please refer attached detailed CCA Report as Annexure-A For the expansion project we shall apply for the consent.