

November 28, 2023

No. 1921/Env-SFD/MOEF/RO(W)/BPL/EC-EFD

Director
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan,
E-5 Arera Colony, Link Road-3,
Ravishankar Nagar,
Bhopal – 462016

Sub: Submission Environment Clearance Compliance Report for the period from April 2023 to Sepetember 2023 for Expansion of Solvent Spun Cellulosic Fibre (3650 TPA to 10950 TPA) at Village Mehatwas, Birlagram, Tehsil Nagda, District Ujjain, M.P. M/s Grasim Industries Limited, (Excel Fibre Division).

Ref: Environment Clearance Issued vide File No. J-11011/255/2011-IA II (I), General Condition (xix)

Dear Sir,

This has reference to above cited environment clearance & condition prescribed therein and provisions of Section 10 of EIA Notification, dated 2006.

We are enclosing with this letter Six Monthly point wise Environment Clearance Compliance Report and relevant documents for the period from April -2023 to September -2023 of Grasim Industries Limited, Excel Fibre Division.

We are also sending the compliance report to MoEF&CC Regional Office, Bhopal through e-mail address on rowz.bpl-mef@nic.in.

Hope you will find the information provided in order, we shall be happy to furnish further details / clarifications, if required.

Thanking you, Yours faithfully



Shantanu Kulkarni President & Unit Head

CC:

- 1. Ministry of Environment Forest & Climate Change, New Delhi
- 2. Central Pollution Control Board, Zonal Office, Bhopal
- 3. Madhya Pradesh Pollution Control Board Bhopal
- 4. Assistant Director, Office of Textile Commissioner, Mumbai

Enclosed: As Above

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARNACE FOR

GRASIM INDUSTIRES LIMITED, EXCEL FIBRE DIVISION BIRLAGRAM, NAGDA – 456 331 DIST. UJJAIN (M.P.)



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, Bhopal

Madhya Pradesh Pollution Control Board - Bhopal

Submitted by:

Grasim Industries Limited, Excel Fibre Division Birlagram, Nagda – 456 331

District: Ujjain (M.P.)

Period: APRIL 2023 – SEPTEMBER 2023

Submitted on: 1 DECEMBER 2023

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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. Excel Fibre Division is based on third generation solvent spun cellulosic technology developed by Birla Research Institute Birlagram, Nagda.
- 3. Solvent Spun Cellulosic Technology does not required hazardous chemicals like Carbon Disulphide (CS2), Sulphuric Acid (H2SO4) and Sodium Hydroxide (NaoH) in Manufacturing Process.
- 4. Solvent used for dissolving pulp and regeneration of fibre is environment friendly and more than 99.80% solvent recovered and reuse in the process.
- 5. No source of gaseous emission in the Solvent Spun Cellulose manufacturing process and specific water consumption is very low as compare to conventional Viscose Staple Fibre Manufacturing Process.
- 6. All the operation related permits, including Environmental Clearance from MOEF & CC and Consents to Establish (CTE) & Consent to Operate (CTO) has obtained from M.P. Pollution Control Board, Bhopal are in place.
- 7. Environmental quality monitoring in & around the Plant site is being carried out by M.P. Pollution Control Board & in-house Laboratory on a regular basis.
- 8. 03 No. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) along with other Environmental Parameter from Grasim Complex (SFD, EFD & CPP) displayed on LED Board at main gate of the Plant Premises.
- 9. Industry has completed ZLD Project as per stipulation given by MPPCB, CPCB, & MoEFCC Bhopal on 30.09.2021.
- 10. A vast green belt is developed to curb the emission and also to improve environmental conditions in & around Grasim complex.
- 11. Point wise compliance status of Environmental Clearance for Grasim Industries Limited, Excel Fibre Division, Birlagram, Nagda is furnished herewith;

Environment Clearance (Grasim Industries Limited, Excel Fibre Division)

MOEF Ref. F. No. J11011/255/2011-IA (II) (I) dated 16.08.2012

Period: APRIL 2023 – SEPETEMBER 2023

General Profile

Sr.		S	tipulation	1		Compliance Status
No.						
1.0	Nov inclu repo	rember 2011, alouding Form-1, Ter ort and additional in	er dated 18 th April 2011 and 3 rd ong with project documents ms of Reference, Pre-feasibility information submitted vide letter d 13 th July 2011 regarding above			Acknowledged
2.0	the explication of the explicati	application. It is ansion of Solvent S 50 TPA) at Plot N ge Mehatwas, Birin, M.P. Total plot a 88.12 ha. Total plot n Cellulosic Fibre litional land require 2 ha within existing wild life sanctuary,	nment and Forest has examined is noted that proposal is for pun Cellulosic Fibre (3650 TPA to o. 295, 317-319, 326, 340-342, rlagram, Tehsil Nagda, District area for existing Staple Fibre Unit it area for of the existing Solvent e Unit (10 TPD) is 0.86 ha. ement for proposed expansion is g Viscose Staple Fibre (VSF) unit. / reserve forest is located within the project is Rs. 78.00 Crores.			No wild life sanctuary / reserve forest is located within 10 km of the Plant Site. Total Cost of the Project is: 250.15 Crores
	Sr.	Product	Production	on Capacity (TPA)	
			Existing	Proposed	Total	
				Expansion		
	1	Solvent Spun Cellulosic Fibre	3650	7300	10950	Total Production During Reporting Period (April-2023 – September-2023) is 4188.7 (Metric Tons).
3.0	Utility requirement (i.e. water, power and stream) will be met from existing unit. Hazardous Chemical i.e. CS2 and H2SO4 will not be used in the process. Solvent recovery will be 99.8%. Total water requirement from the dam of the Chambal River is 680 m3/day and no			al i.e. CS2 s. Solvent nent from	Water and Power & Steam requirement is being met from existing facilities of Staple Fibre Division and Captive Power	

Sr. No.	Stipulation	Compliance Status	
	additional fresh water will be required for the expansion. Effluent generation will be 530 m3/day and treated in Effluent Treatment Plant (ETP) and reused in SFD auxiliary cooling towers in place of fresh water being used currently. The ETP sludge will be incinerated in the existing coal fired Boiler. Waste / spent oil will be sold to authorized recyclers.	Plants and no additional utility is setup for the expansion Total Effluent generated is 199 m3/day and effluent generated form expansion is being utilized in Auxiliary Cooling Towers as makeup in place of fresh water. Hazardous Chemical i.e. CS2, H2SO4 is not being used in manufacturing process. Maximum Solvent recovery is achieved during the reporting period is 99.87% ETP Sludge is utilized in existing coal fired boilers.	
4.0	EIA / EMP report preparation and public hearing were exempted as per para 7 (ii) of EIA Notification, 2006.	Acknowledged	
5.0	All the Man-made fibre manufacturing "Rayon" are listed as S.N. 5(d) under category 'A' and apprised at the Central level.	Acknowledged	
6.0	The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 25 th , 28 th and 29 th meetings held during 28 th -30 th July 2011, 20 th - 21 st October 2011 and 17 th - 18 th November 2011 respectively. The committee recommended the proposal for environment clearance.	Acknowledged	
7.0	Based on the information submitted by the project proponent, the Ministry of Environment and Forest hereby accords environment clearance to above project under the provisions of EIA Notification dated 14 th September 2006, subject to compliance of the following Specific and General Conditions.	Acknowledged	

A. SPECIFIC CONDITIONS

Sr. No.	Stipulation	Compliance Status
i)	The grant of environmental clearance is only for pilot plant project based on clean technology. Whenever unit goes for commercial establishment / full scale plant, the unit shall obtain prior environmental clearance as applicable.	We have successfully established the clean technology for 20 TPD capacity single Spinning Machine and receiving positive acceptance of the new product from the market.
		We have submitted Proposal No
		: IA/MP/IND2/58856/2016 on 07.09.2016 to MoEF & CC for prior environmental clearance for expansion of existing Staple Fibre Division along with setup of 36500 TPA Solvent Spun Cellulosic Fibre Spinning Machine. Proposal has been accepted by MoEF & CC on 16.10.2016 and TOR Granted on 14.02.2017, Public Hearing for the same is conducted on 05.09.2019. Final Technical Presentation for EC has been done on 22.01.2020. EAC has recommended project for EC and final EC is granted on 29.0.5.2020.
ii)	Utilities requirement (i.e Water, Power and Steam) shall be met from the existing unit, no additional utilities shall be installed.	Water, Power & Steam requirement is being met from existing facilities of Staple Fibre Division and Captive Power Plants and no additional utility is setup for the expansion
iii)	The company shall not use CS2 as a raw material in the proposed process activity.	Solvent Spun Cellulosic Fibre Manufacturing does not require CS2 in the process and we are not using the same.
iv)	Ambient Air quality data shall be collected as per NAAQES standards notified by the Ministry vide GSR No. 826(E) dated 16.09.2009. The levels of PM10, SO2, NOx, CS2, VOC and CO shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of	We have installed 03 (Three) Continuous Ambient Air Quality Monitoring System for Grasim SFD, EFD & CPP in consultation with M.P. Pollution Control Board and display of the same is being provided on LED Display Board

Sr.	Stipulation	Compliance Status		
No.				
	monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF. The respective Zonal office of CPCB and M.P. Pollution Control Board.	installed at Factory Gate for general public. We have also installed four Ambient Air Quality Monitoring Station in all four directions (Grasim premises that includes SFD, EFD & CPP) in consultation with CPCB & MPPCB. We are regularly monitoring the ambient air quality and report is being sent regularly to CPCB, MPPCB and Regional Office of MOEF. Monitoring results are well below the prescribed standards. Report of the last six months is enclosed as Exibit-1.		
v)	In plant control measures for checking fugitive emission from all the vulnerable sources shall be provided. Fugitive emission shall be controlled by providing closed storage, closed handling and conveyance of chemical / materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emission. Fugitive emission in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emission shall conform to the limits stipulated by the MPPCB.	There is no source of gaseous fugitive emission from manufacturing process. During handling of chemicals, we have provided all the necessary arrangements to avoid fugitive emission. For your kind information there is no chemical being used to create fugitive emission. However, all precautionary measures have been taken for storage of chemicals i.e. Dyke, Pit and pump for recycling. Industry is regularly conducting the work zone monitoring by NABL accredited laboratory and the results are well within the stipulated norms for reporting period April23 to Sepetember'23 Area VOC Total mg/m3) Dust mg/m3 Pulp - 0.42 Storage 10 TPD 2.05 0.36		

Sr.	Stipulation	Compliance Status		
No.				
		Spinning		
		area		
		20 TPD	1.91	0.24
		Spinning		
		area		
		Fibre	-	0.48
		Storage Area		
		Chemical	3.40	0.27
		Storage	3.40	0.27
(vi)	The spinning bath shall be covered and vapor shall be		utter an	d proper
` ′	channelized and exhausted properly.			nas been
		provided fo	·-	our, image
		of the sh	-	_
		Machine is	enclosed as	Exibit-2.
vii)	Unit shall carry out the study to identify the	Study has b	een carried	out by the
,	composition of the vapour generated from spinning	NEERI and		-
	bath of the Solvent Spun Cellulosic Fibre.	no solvent i	n the vapo	ur.
viii)	For further control of fugitive emissions, following	a) All the	chemicals	are being
••••	steps shall be followed:	handled th		_
	·	and no r	_	-
	a) Closed handling system shall be provided for	chemicals	is involve	d in the
	chemicals.	process.		
		h) Dukos h	wa baan s	onstructed
	h) Custom of look detection and remain of	b) Dykes ha for chemic		
	b) System of leak detection and repair of pump/pipeline based on preventive maintenance.	shown in		
	pump/pipeline based on preventive maintenance.	Maintenand		
		as per the s	•	
		c) Acid is no	-	
	c) The acids shall be taken from storage tanks to	process; ho		• •
	reactors through closed pipeline. Storage tanks shall	of Hydroch		•
	be vented through trap receiver and condenser	for regene		
	operated on chilled water.	solvent puri		•
		of Hydroch provided w		
		receiver.	icii u veiit i	iaving trap

Sr. No.	Stipulation	Complia	nce Status
	d) Cathodic protection shall be provided to the underground solvent storage tanks.		no underground tanks in the plant.
ix)	As proposed, solvent recovery shall be not less than 99.8%	six months is	overy for the last at 99.80%. The ery month wise as
		Month	Recovery %
		Apr-23	99.86
		May-23	99.86
		Jun-23	99.88
		Jul-23	99.86
		Aug-23	99.86
		Sep-23	99.87
		Average	99.87
x)	The gaseous emission from DG Set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.	Noted	
xi)	Total fresh water requirement from Chambal River shall not exceed 680 m3/day and prior permission shall be obtained from concerned authorities and a copy submitted to the Ministry's Regional Office at Bhopal. No ground water shall be used.	for reporting m3/day from Ch	ter consumption period is 339 ambal River . er is being utilized
xii)	Industrial effluent generated shall not exceed 530 m3/day. Effluent generated from solvent Spun Cellulosic Fibre shall be treated in separate dedicated ETP and used in SFD auxiliary cooling tower in place of fresh raw water being used currently. As proposed, SFD auxiliary cooling tower blow down shall be sent to existing ETP for further treatment. No process effluent shall be discharged in and around the project site. Water quality of treated effluent shall be monitored regularly and monitoring report shall be submitted to the MPPCB.	Solvent Spun Cellulosic Fibre plant for the reporting period is 199 m3/day Additional effluent generated from expanded facility is being utilized in SFD Cooling Tower. We are also monitoring the	

Sr. No.	Stipulation	Compliance Status
		discharged in and around project site.
		As of now, we have completed the ZLD project as per stipulation given by MPPCB. We have communicated to MPPCB, CPCB & MoEFCC IRO, Bhopal, regarding the ZLD commissioning.
xiii)	No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be maintained.	Effluent generated for expansion is routed through SFD Cooling tower and no effluent is being discharged from the Excel Fibre Division premises.
		As of now, we have completed the ZLD project as per stipulation given by MPPCB. We have communicated to MPPCB, CPCB & MoEFCC IRO, Bhopal, regarding the ZLD commissioning
xiv)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Wastes (Management, Handling and Trans boundary) Rules, 2008 and amended as on date for management of Hazardous Waste and prior permission from MPPCB shall be obtained for disposal of Solid / Hazardous waste in the TSDF.	Hazardous Waste Authorization obtained from M.P. Pollution Control Board and has validity up to 31.05.2028. M.P. Pollution Board has issued Hazardous Waste Authorization vide consent No. AWH-58378, Outward No:118282, dated 12/06/2023
xv)	Proper dust control arrangement shall be provided in the existing Sodium Sulphate bagging area of the existing VSF Plant.	Improved Dust control system consisting of sieve cover, conveyor belt cover, fresh air fan and proper exhaust has been provided in bagging area of existing VSF Plant.
xvi	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 the Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	We are using Hydrochloric Acid and Sodium Hydroxide, storage for which dyke, Pit, Pump for Recycling has been provided in case spillages take place. All the relevant provision of Motor Vehicle Act (MVA), 1989 is being strictly complied during the

Sr. No.	Stipulation	Compliance Status		
		transportation of hazardous chemicals.		
xvii)	The company shall undertake following waste minimization measures : -			
	a. Metering and control of quantities of active ingredients to minimize waste.	a) Measurement of quantities is being done through controlled Programmable Logic Controller (PLC).		
	b. Reuse of by-product from the process as raw materials or as raw material substitutes in other process.	b) Solvent Spun Cellulosic Process is having no by-products.		
	c. Use of automated filling to minimize spillage.	c) Plant is being operated through Programmable Logic Controller (PLC).		
	d. Use of Close Feed system into batch reactor	d) We are having continuous process of manufacturing with closed feed system.		
	e. Venting equipment through vapour recovery system	e) There is no process vents in the plant.		
	f. Use of high pressure hoses for equipment clearing to reduce wastewater generation	f) We are using of high pressure hoses for equipment cleaning.		
xviii	The unit shall make the arrangement for protection of possible fire hazard during manufacturing process in material handling. Fire Fighting system shall be as per the norms.	Fire Fighting system has been installed as per the norms. List of the Fire Fighting Equipment is enclosed as Exibit-4 .		
xix)	All the workers shall be regularly monitored for occupational health for relevant parameters and records maintained.	Regular health check-up of workers and management staff is being done and records are being maintained.		
xx)	Green belt shall be developed in 33% of the total land. Green belt design shall be as per CPCB guidelines.	Regular plantation activities have been done, About 60% of the Grasim Complex is having Green Belt and Green Cover. Glimpse of plantation in the complex and		

Sr. No.	Stipulation	Compliance Status
		details of land use is enclosed in Exibit-5
xxi)	Provision shall be made for the housing for the construction labour within the site with all the necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housekeeping may be in form of temporary structure to be removed after completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Construction work has been completed. Construction activity was done in the existing premises and all the required facilities are in place.

B. GENERAL CONDITIONS

Sr.	Stipulation	Compliance Status
No.		
i)	The project authority shall strictly adhere to the stipulations made by the M.P. Pollution Control Board.	Industry has obtained Consent to Establishment and Consent to Operate from M.P. Pollution Control Board and complying all stipulation made.
		MPPCB has issued consent to establish CTE-56900 vide outward No. 116671 dated 18.10.2022, and Consent to Operate under Air Act vide their letter No. AWH-58378 dated 12.06.2023 and under the Water Act vide their letter No. AWH-58378 dated 12.06.2023 Validity up to 31.05.2024
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and forest. 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.	Acknowledged. Prior approval of the Ministry of Environment and forest will be taken for further expansion or modifications in the plant. However, we have submitted Proposal No
		: IA/MP/IND2/58856/2016 on 07.09.2016 to MoEF & CC for prior environmental clearance for expansion of existing Staple Fibre Division along with setup of 36500 TPA Solvent Spun Cellulosic Fibre Spinning Machine. Proposal has been accepted by MoEF & CC on 16.10.2016 and TOR Granted on 14.02.2017, Public Hearing for the same is conducted on 05.09.2019. Final Technical Presentation for EC has been done on 22.01.2020. EAC has recommended project for EC and final EC has been granted on 29.05.2020. CTE-56900 (Expansion) is granted dated 18.10.2022, there

Sr.	Stipulation	Compliance Status
No.		
		will be no increase in any pollution load due to increase in production capacity of Solvent Cellulosic Fibre from 30 TPD to 45 TPD
iii)	The locations of ambient air quality monitoring station shall be decided in consultation with State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	We have installed 03 (Three) Continuous Ambient Air Quality Monitoring System for Grasim SFD, EFD & CPP in consultation with M.P. Pollution Control Board and display of the same is being provided on LED Display Board installed at Factory Gate for general public. Image of the display board is enclosed as Exbit- 6
		We have also installed Ambient Air Quality Monitoring Station in all four directions (Grasim premises that includes SFD, EFD & CPP) in consultation with CPCB & MPPCB. We are regularly monitoring the ambient air quality and report is being sent regularly to CPCB, MPPCB and Regional Office of MOEF. Monitoring results are well below the prescribed standards; report of the last six months is enclosed as Exibit-1 .
iv)	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 level shall conform the standards prescribed under Environment (Protection) Act, 1986 Rules 1986 viz. 75dBA (day time) and 70dBA (night time).	measures such as Acoustic Enclosure, Silencer, Vibration Pad, and Variable Frequency Drive have been adopted wherever required. Ambient Noise Level shall confirm the prescribed standards.
		Ambient Noise Level (dBA) is measured by Third party and average results for the period April'23 to September'23 is tabulated as under; Area Day Night Norms 75 70

Sr. No.	Stipulation	Compliance	Statu	is
		Occupational Health Centre	57	46
		Nagda Town	54	44
		Durgapura	52	43
		West Direction (Vishnu Bhawan)	57	45
		Temple Guest House	53	44
		North Direction (Labour Club)	53	43
		East Direction (Fabrication Shop)	67	57
V.	The company shall harvest rain water from 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.	Rain Water Harve has been installed.	esting	system
vi.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Preemployment and routine periodic medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	medical examination	ty an hand and on is orkma	d health ling. routine carried an and
vii.	Usages of Personal Protective Equipment (PPEs) by all employee / workers shall be ensured.	PPE are provided to and regular tra conducted for propo- Helmet, Safety Go Boots provided to a and Earplug, face Gloves, Protective provided to the a employees.	ining er use oggles all en shiel Clo	being e of PPE. s, Safety nployees d, Hand thing is
viii.	The company shall also comply with all the environmental protection measures and safeguard proposed in the documents submitted to Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk	All the measures environmental probeen implemented. measures are enclose 7.	otecti Deta	on has ils of the

Sr. No.	Stipulation	Compliance Status
	mitigation measures and public hearing related to the project shall be implemented.	
ix.	The company shall undertake all relevant measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers and administration.	CSR activities are our regular practice for improvement in socio-economic conditions of the surrounding area. Other than operating two hospitals and three senior secondary schools, various activities are being held in adjoining villages. Total beneficiaries of these activities in last year (FY 2022-2023) are 2.77 Lacs with annual expense of Rs. 10.48 Crores.
x.	The company shall undertake eco-developmental measures including community welfare measure in the project area for the overall improvement of the environment.	All the necessary development measure is being undertaken for overall improvement of environment. Details are enclosed in Exhibit-7
xi.	A separate Environment Management Cell equipped with full fledged laboratory facilities shall be setup to carry out the Environmental Management and Monitoring functions.	A separate Environment Cell already exists with technically qualified personnel, who are under the control of Senior Executive. Organogram of Environment Cell is enclosed as Exhibit-8
xii	As proposed, company shall earmark sufficient funds towards capital cost and recurring cost respectively to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.	Capital cost of Rs 4.5 crore had been earmarked for procuring Shutters on the spinning machine, variable frequency drives, PLC control system etc and same has been implemented. A provision of Rs 20 lacs per year has been made to maintain the above mentioned systems. This fund will is being used only for this purpose.
xiii	A copy of the clearance letter shall be sent to the project proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban local body and the local NGO, if any from whom suggestion /	Copy of the clearance letter has been given to concern authority and also placed on company website for general public.

Sr. No.	Stipulation	Compliance Status
NO.	representations, if any were received while processing the proposal.	
xiv	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment Clearance conditions including results of monitored data (both hard copies as well as by e-mail) to respective Regional Officer of MoEF, the respective Zonal Office of CPCB and M.P. Pollution Control Board. A copy of Environment Clearance and six monthly compliance status reports shall be posted on the website of the company.	Last Six Monthly compliance report is submitted for period October-2022 – March 2023 on 25.05.2023. A copy of the same is also posted on the company website.
xv	The environment statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environment clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-mail.	We are regularly submitting Environment Statement before 30th September every year to the board. In addition, we have started submitting the copy of environment statement to IRO Bhopal.
xvi	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least 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.	Advertisement of Environment Clearance has been published in Hindi & English New Papers for information to general public and copy of the same is enclosed as Exhibit-9 . As advised, MOEFCC, IRO Bhopal was communicated through email with a copy of the newspaper advertisement enclosed
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.	Financial Closure of the project is May 2013 same is informed to concerned authorities. Industry had submitted the details regarding final approval of the project by the concerned authorities and the date of start of the project to MoEFCC IRO, Bhopal vide letter No. 843 /Env-

Sr. No.	Stipulation	Compliance Status
		SFD / PCB / BPL / RO-MoEF/EFD dt 06/02/2013.
8.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Acknowledged & will abide
9.0	The Ministry reserves the rights to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Acknowledged
10.0	The above conditions will be enforced, inter-alia under the provision of the Water (Prevention & control of pollution) Act-1977, the Air (Prevention & control of pollution) Act-1981, the Environment (Protection) Act-	We are following terms & conditions of MPPCB Consent under Air Act & Water Act and authorization under Hazardous Waste Rules.
	1986, Hazardous waste (Management & Handling) Rules-2003 and the Public Liability Insurance Act-1991 along with their amendments and rules.	Industry has obtained renewed CCA consent to operate from MPPCB under Water Act & Air Act vide consent No. AWH-58378 dated 12.06.2023 valid up to 31.05.2024 and Hazardous Waste Authorization no. AWH-58378 valid up to 31.05.2028.

FORMAT - II A

Ambient air quality data at Nagda for the month of: April-2023

		SOUTH			NORTH		WEST		EAST	ction	Dire-
28.04.2023	19.04.2023	09.04.2023	28.04.2023	19.04.2023	09.04.2023	18.04.2023	08.04.2023	18.04.2023	08.04.2023	Date	Hrs.
 18	17	19	10	12	15	15	15	i d	17	S02	
4	15	19	<u> </u>	3	=======================================	16	4	20	15	SO2 NO2 CS2	6-
<u>1</u> 6	19	17	10	3	4	14	12	17	14	CS2	10
 12	17	20	10	12	14	12	13	19	17	H2S	
18	19	18	12	14	10	16	14	15	16	S02	
12	17	17	13	12	10	10	12	17	17	NO2	10-
17	20	15	13	10	10	14		15	6	NO2 CS2 H2S SO2	10 - 14
14	20	21	9	12	12	12	4	<u></u>	19	H2S	
18	20	20	12	3	12	4	17	15	14	SO2	
14	14	15	10	15	1	14	15	15	6	NO2	
15	3	å	12	14	15	12	10	<u>1</u> 6	18	CSZ HZS SOZ NOZ CSZ	ā
13	19	19	12	10	14	ವ	=======================================	8	4	125 127	
17	19	19	10	12	12	10	12	8	19	N ZO	
15	6	18	12	10	4	5		17	9	C	0- 77
4	17	17	1	=======================================	7	13	15	19	17	_	_
1	17	15	10	3	13	10	4	17	17	0.2	
19	18	8	=======================================	12	14	16	6	19	9		200
16	17	19	10	12	14	13	10	20	15	100	CSO CON
17	16	19	4	13	13	12	12	6	20		\neg
15	6	16	12	10	12	3	12	19	18		SCH
16	20	20	=======================================	<u> </u>	15	14	17	21	8	0	SOS
17	19	20	12	12	<u>1</u>	12	4	19	20		NO2 CS
18	100	17	9	13	4	14	16	17	15		NO2 CS2 H2S
16	20	17	12	12	14	12	<u>1</u> 3	17	15		H2S
19	20	20	12	14	15	16	17	21	19		S02
17	19	20	13	15	14	16	15	20	20		NO2
18	20	19	14	14	15	14	16	19	20		CS2
16	20	21	12	13	14	7	14	19	19		H2S
17.7	18.8	19.0	11.0	12.0	13.0	14.2	15.2	17.7	17.2		SO2
14.7	16.3	18.0	11.3	12.3	12.2		12.7	18.0	17.0		SO2 NO2
16.2	18.0	17.2	11.5	12.3	12.8			16.7	16.7		2 CS2
13.5	18.2	18.0	10.8	11.5	13.2		12.8	17.7	16.7		H2S
45	46	46	4	4,	4	. (20 41	46	46		6-14
46	45	45	40	40	ن		40	45	45		14-22
45	47	47		_	4	5 =	41	47	47		14 14-22 22-06
27	26	26	23	21	1	3 !	23	27	25		6-14
26	25	24	22	20	<u></u>	2	20 22	26	26		14-22
27	25	25	23	21		ى ك	23	26	26		22-00

Ambient air quality data at Nagda for the month of: April-2023

A.M.=Arithmetic mean, S.D.=Standard Deviation, G.M.=Geometric mean,n=number of observation,

"Norms for SO2, NO2 & SPM as per NAAQM Standard and Premissible limit for CS2 = 100 µg/m3 and H2S = 150 µg/m3

0)

FORMAT - II A

Ambient air quality data at Nagda for the month of: May-2023 All results expressed as Microgram/M3

Dire- ction	EAST		WEST		NORTH		SOUTH	
Hrs.	08.05.2023	24.05.2023	08.05.2023	24.05.2023	09.05.2023	25.05.2023	SOUTH 09.05.2023	25.05.2023
SO2	20	22	10	ற்	14	4	20	19
NO2	17	19	14	15	<u></u>	12	19	1 8
10 CS2	<u></u>	18	10	14	13	12	18	17
H2S	10	20	12	10	9	<u>1</u> 3	<u>1</u> 8	20
S02	18	18		15	12	1	1 8	18
\vdash	15	20	15	14	10	15	18	14
10 - 14 NO2 CS2 H2S	19	19	7	<u>1</u>	7		17	20
	14	17		<u>1</u> 3	12	12	17	18
S02	20	20	<u>1</u>	13		16	3	17
14- NO2	20	14	<u>a</u>	12	12	13	16	20
18 CS2 H2S	4	17	12	4	12	12	20	19
	15	19	10	<u></u>	10	4	6	22
18 - SO2 NO2	21	8	12	14	4	13	17	20
	15	17	4	15	3	12	18	∞ ¬,
CS2	18	20	13	15	9	10	6	21
H2S	6	17	14	14	=	3	17	19
S02	9	17	14	5	12	12	19	17
NO2 CS	17	19	12	1	10	13	15	21
CS2	26	17		13	10	<u>1</u> 3	19	22
H2S	16	19	13	13	12	1	18	22
S02	16	16	9	15	<u>1</u>	15	<u>1</u>	19
	16	21	4	3	10	4	<u>a</u>	17
NO2 CS2 H2S	17	19	10	14	_7 _7	12	15	19
H2S	18	8	12	12	10	3	16	20
SO2	21	22	4	16	14	16	20	20
NO2	20	21	15	15	3	15	19	21
CS2	26	20	3	15	ವೆ	ವೆ	20	22
H2S	19	20	4	4	12	4	0 0	22
S02	19.0	18.5	11.5	14.8	12.7	13.5	17.3	18.3
NO2	16.7	18.3	13.7	13.7	11.0	13.2	17.3	18.0
CS2	18.3	18.3	11.2	13.8	11.0	11.7	17.5	19.7
H2S	16.3	18.3	12.0	12.2	10.7	12.7	17.0	20.2
6-14	44	48	42	40	40	42	45	46
14-22	46	46	40	42	38	41	47	47
22-06	45	48	4	4	41	40	48	47
	27	27	22	19	19	20	28	28
14-22	25	28	20	20	20	19	26	26
22-06	26	26	21	21	21	20	27	27

FORMAT - II B

BDL: Below detectable Limit

Tr.: Tracess

ND: Not Detectedble

Ambient air quality data at Nagda for the month of: May-2023

Sampling location	Month	S	O2 mio	SO2 microgram/M3	n/M3	ZO	2 micro	NO2 microgram/M3	M3	CS	2 micr	CS2 microgram/M3	M3	I	2S micr	H2S microgram/M3	3		PM1	micro	gram/M	4	Γ		7
G	& Year	5	A	S	S.D. Peak	5	A.M.	A.M. S.D. Peak	Peak	_	A.M.	A.M. S.D.	Peak	¬	A.M.	S.D.	S.D. Peak	_	A.M.	S.D.	Peak	G.M.	Γ	13	>
																									_
EAST	May-2023	12	12 18.8	8	22	12	17.5	12 17.5 2.2 21	21	12	12 18.3	2.8	26	12	12 17.3	1.7 20	20	o	46		48	46	_	0	27
Fabrication Shop				_					-	;	,		1	5	2	3		n	7	0	3	7	_	ת	2
WEST	May-2023	12	13.2	12 13.2 2.2	16	12	12 13.7	w	5	12	12 12.5	.6	15	7.7	12 12.1		4	o	4	0.0	7	-		C	
Vishnu Bhawan				_	_									5			:	_	5)	5	5	_	13)
NORTH	May-2023	12	12 13.1	1.5	16	12	12 12.1	1.6	15	12	12 11.8	_	3	12	12 11./	1.4	14	σ	40	1.2	7	4	_	O	^
Labour-Club				_)))	1	0	ò	7	_)	27
SOUTH	May-2023	12	12 17.8	1.6	20	12 17.7 1.9 21	17.7	1.9	21	12	12 18.6	2.0	22	12	18.6	2.0	22	σ	4/	C	40	4/	_	C	

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FORMAT - II A

Ambient air quality data at Nagda for the month of : June 2023 All results expressed as µg/m³

		SOUT		NORT			WEST			EAST	ction	Dire-
ND: Not Detectedble	17.02.2023	SOUTH 08.06.2023	17.02.2023	NORTH 08.06.2023	27.06.2023	20.06.2023	06.06.2023	27.06.2023	20.06.2023	06.06.2023	Date	Hrs.
etecte	3 16	3 19	3 12	3 15	3 12	3 16	3 12	3 17	3 18	3 17	SO ₂	Н
dble	17	17	12	12	1	18	15	15	15	12		6 -
	15	17	16	14	12	17	14	13	16	17	2 CS	- 10
	13	19	<u> </u>	10	=======================================	10	13	21	19	15	NO ₂ CS ₂ H ₂ S	
<u> </u>	18	18	10	10	1	18	1	15	15	14	SO ₂	
Tracess	15	19	13	13	13	15	16	18	17	16	NO ₂	10 -
ess	16	22	1	13		16	12	17	18	16	CS ₂	14
	17	20	10	10	12		1	17	17	17	H ₂ S	
	15	15	=======================================	1	13	17	15	19	16	19	SO ₂	
	18	20	12	1	14	16	17	16	10	17	NO ₂	14 -
	17	17	14	12	10	14	14	15	17	20	CS ₂	18
	18	15	10	14	=======================================	10	10	19	20	18	_	
	13	15	1	12	10	19	16	20	19	16	H ₂ S SO ₂ NO ₂	
	19	16	12	14	12	14	16	18	14	19	NO ₂	18 - 22
	14	19	13	1	12	18	13	16	20	18	CS ₂	22
Π O	16	19	12	9	10	12	12	17	18	19	H ₂ S	
FORMAT - II B	20	17	12	11	13	20	18	19	17	14	SO ₂	
=	18	18	3	10	10	17	13	17	19	18	NO ₂	22 - 02
w	16	21	10	10	13	15	13	18	19	17	CS ₂	02
	15	18	13	1	13	10	10	16	17	20	H ₂ S	
	16	20	15	13	12	21	14	18	18	18	SO ₂	
	16	17	12	12	=======================================	19	16	4	18	20	NO ₂ CS ₂ H ₂ S	02 - 06
	16	18	12	12	12	19	14	20	17	21	CS ₂	6
	4	21		12	12	12	12	8	19	19		
	20	20	15	15	3	21	18	20	19	19	SO ₂	-
	19	20	13	14	14	19	17	18	19	20	NO ₂	
	17	22	16	14	13	19	14	20	20	21	CS ₂	
	18	21	13	4	13	12	13	21	20	20	H ₂ S	
	16.3	17.3	11.8	12.0	11.8	18.5	14.3	18.0	17.2	16.3	SO ₂	
	17.2	17.8	12.3	12.0	11.8	16.5	15.5	16.3	15.5	17.0	NO ₂	24Hrs Avg
	15.7	19.0	12.7	12.0	11.7	16.5	13.3	16.5	17.8	18.2	CS ₂	Avg
	15.5	18.7	11.2	11.0	11.5	10.8	11.3	18.0	18.3	18.0	H ₂ S	
	48	46	39	41	38	4	39	48	47	46	6-14	α
	48	46	41	40	37	42	40	46	48	47	14-22	8 Hrs.Avg. PM10
	47	45	42	38	39	40	41	45	46	45	14-22 22-06	_
	28	27	24	21	20	21	21	28	27	26	6-14	α H
	29	28	22	22	21	21	22	26	26	27	14-22	& HIS.AVG. PWIZ.5
	27	27	23	21	22	22	20	27	28	26	22-06	C.ZIM

CVINIAL - II D

Ambient air quality data at Nagda for the month of: June 2023

Sampling location	Month	SO	SO ₂ 110/m ³	3	NO	ца/m ³	CS ₂ µg/m ³	H ₂ S µg/m ³	µg/m³	PM10 m	microgram/N	/M3		PM2.5 m	M2.5 microgram/M	7/M3	
G	& Year	n AM SD Peak	A S D	Peak	n AM		n AM S.D. Peak	n A.M.	S.D. Peak	n A.M.	S.D. Peak	ak G.M	ם	A.M.	S.D. Pu	Peak G.	G.M
EAST	Jun. 2023	18 17.2 1.8	2 1.8	20	18 16.3	2.5 20	2.0	18 18.1	18.1 1.5 21	9 46	1.1 48	8 46	9	27	0.8	28	27
Fabrication Shop		_									_)	2			2
WEST	Jun. 2023	18 14.	18 14.9 3.3	21	18 14.6	2.5 19	18 13.8 2.3 19	18 11.2	18 11.2 1.0 13	9 40	1.5 42	2 40	9	27	0.7	77	7
Vishnu Bhawan											_	_	,	3			3
NORTH	Jun. 2023	12 11.9 1.6	9 1.6	15	12 12.2	12 12.2 1.0 14	12 12.3 1.7 16	12 11.1	12 11.1 1.4 14	6 40	1.3 42	2 40	σ	22	1.1	24	77
Labour-Club											_		,	2			3
SOUTH	Jun. 2023	12 16.8 2.1	8 2.1	20	12 17.5	12 17.5 1.4 20	12 17.3 2.2 22	12 17.1	12 17.1 2.4 21	6 47	1.1 48	8 47	6	87	0.7	67	22
Dairy									_		-	-			_	-	

A.M.=Arithmetic mean, S.D.=Standard Deviation, G.M.=Geometric mean,n=number of observation.

Note: Norms for SO2, NO2, PM10 & PM2.5 as per National Ambient Air Quality Standards and Permissible limit for CS2 = 100 µg/m3 and H2S = 150 µg/m3.

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FORMAT - II A

Ambient air quality data at Nagda for the month of: July-2023 All results expressed as Microgram/M3

	SOUTH		NORTE		WEST		EAST	ction	Dire-
22.07.2023	06.07.2023	22.07.2023	06.07.2023	20.07.2023	04.07.2023	20.07.2023	04.07.2023	Date	Hrs.
18	18	9	14	10	10	18	21	S02	+
21	20	<u> </u>		12	3	13	20	NO2	6-
17	21	7	14	13	10	15	4	CS2	- 10
19	17	10	10	10	13	18		H2S	
22	17	13	12	14	12	17	22	S02	
19	3	10	13	10	12	19	19	NO2	10 -
19	17	12	10	12	9	15	12	NO2 CS2 H2S	14
21	20	=	<u></u>	<u> </u>	10	16	19	H2S	
18	3	=	<u></u>	15	4	6	20	S02	
17	17	12	12	13	4	16	18	NO2	14 -
20	19	13	3	14	12	14	15	CS2	18
20	5	12	12	13	1	15	15	H2S S	Ц
19	19	12	3	12	3	5	21	SO2 7	
22	15				13	17	17	NO2 C	18 - 22
19	<u></u> 6		3		10	16	17	CS2 H	$\ $
22	8	10	3	12	12	19	18	H2S S	Н
20	17	1	12	=======================================	7	4	9	SO2 1	$\ $
18	6	4	10	13	10	16	8	NO2	22 - 02
20	8	4	12	Δ	3	12	15	CS2	2
17	14	ವ	<u> </u>	10	13	14	16	H2S	
21	15	12	13	15	12	5	17	S02	
16	18	<u>3</u>	12	12	12	15	16	NO2 CS2 H2S	02 - 06
16	15	12		10	10	ಎ	3	CS2	6
18	19	12	12	3	10	12	17		Ц
22	19	ವ	4	15	4	18	22	S02	
22	20	4	3	3	14	19	20	NO2	4Hrs
20	21	14	4	14	13	6	17	CS2	Max.
22	20	ಚ	ئ	3	3	19	19	H2S	Ц
19.7	16.8	11.3	12.5	12.8	12.0	15.8	20.0	S02	
18.8	17.3	11.8	11.5	11.8	12.3	16.0	18.0	NO2	24Hrs Avg
18.5	17.7	12.2	11.8	12.2	10.7	14.2	14.3	CS2	Avg
19.5	17.2	11.3	11.5	11.2	11.5	15.7	17.2	H2S	
48	46	39	40	4	4	45	47	6-14	8 1
48	47	40	42	40	43	46	48	14-22	Hrs.Avg.
47	45	41	41	42	42	46	46	22-06	PM10
28	26	21	21	21	21	27	28	6-14	8 Hrs.
25	27	20	19	22	23	25	26	14-22	Avg.
27	25	22	20	20	22	26	27	22-06	PM2.5

FORMAT - II B

BDL: Below detectable Limit

Tr.: Tracess

ND: Not Detectedble

Sampling location	Month	"	502 m	icrogra	SO2 microgram/M3		Z	NO2 microgram/M3	rogram	/M3	CS	2 micro	CS2 microgram/M3	43		H28	H2S microgram/M3	gram/\	3		PM	10 micr	ogram/	V 3			PM2.5 m	5
	& Year	_	A.M.	_	S.D. Peak	R.	ם	A.M.	S.D.	S.D. Peak	ם	A.M.	S.D.	Peak	П	3	AM	S.D. Peak	Peak	5	A.M	s.D	Pea	G.M.	П	ם	A.M.	
EAST	July-2023	12	12 17.9	9 2.6	6 22	-	12	17.0 1.9	1.9	20	12	14.3	1.55	17		12	16.4	2.1	10	<u></u> თ	46	0.9	48	46		თ 	27	
Fabrication Shop											_				_	_		ļ			i		-	i	_	(!	
WEST Vishnu Bhawan	July-2023	12	12.4	4 1.7	7 15		12	12 12.1	1.2	14	12	11.4	1.6	14		12	11.3	12	13	o	42	1.0	43	41		σ	22	
NORTH Labour-Club	July-2023	12	11.9	1.3	3 14		12	11.7	1.2	14	 12	12.6	_	4		12	11.4	1.0	13	o	4 4	1.0	42	40		0	21	
SOUTH Dairy	July-2023	12	18.3	3 2.0	0 22	10	12	12 18.1 2.0	2.0	22	12	18.1	. . %	21		12	18.3	2.2	22	თ	47	. =	48	47		σ	26	

					\sim 1
48	42	43	48	Peak	gram/M
47	40	4	46	G.M.	//3
თ	თ	თ	თ	5	
26	21	22	27	A.M.	PM2.5 r
	1.0	1.0	1.0	S.D.	nicrogra
28	22	23	28	Peak	am/M3
26	20	21	26	G.M.	

FORMAT - II A

Ambient air quality data at Nagda for the month of: August-2023 All results expressed as Microgram/M3

		SOUTH			NORTH		WEST		EAST	ction	9
27.08.2023	16.08.2023	05.08.2023	27.08.2023	16.08.2023	05.08.2023	14.08.2023	03.08.2023	14.08.2023	03.08.2023	Date	I S
 - i	19	17	2,0		12	<u>o</u>	4	- X	25	SO2	
, ch	00	22		ü		Ch	ch Ch	20	22	7	ص 0
17	17	<u></u>	ō	12	5	1,	=	17	<u>~</u>		6
ü	20	20	Ö	12	12	5	ü	φ	ώ 	H2S	
œ	<u>~</u>	<u></u>	12	<u></u>	ü	Ch Ch	<u>.,</u>	- i	20	SO2	
	ó	20	ಮೆ		ü	7 4	သိ	17	<u>o</u>	7	0
<u></u>	20	21	<u>ت</u>	iù	w	ü	7	j,	<u>o</u>	CS2	- 14
17	<u>o</u>	<u>o</u>	ω			ŵ		<u></u>	20	CS2 H2S SO2	
ch ch	17	20	12	7,	ö	ω̈́	12	σ'n	ω '	S02	
· · ·	20	9	6	12	12	12	<u></u>	Ċ	20	NO2	14 -
Ω ,	Ö	22	12	o,	= i	4	ယ်	တိ	ω,	CS2	œ _``
00	22	<u> </u>	12	4	9	1.3	1,	00	<u>o</u>	H2S	
7,	6	<u>o</u>	ö	- r	7	7	ಪ	<u>~</u>	21	SO2 NO2	
20	00	21	2	9	= = = = = = = = = = = = = = = = = = = =	ch ch	4	17	2		8 - 22
4	21	20		7,	2	Ω	ហ	ώ	20	CS2	
9	w	21	ò	သိ	ယ်	7,	2	.7	.7	H2S	
ω'	<u>co</u>	22		12	;	0	13	9	00	SO2	
œ	22	23	9	ಹ	ò	=	12	20	20	NO2 CS2	22 - 0
ď	22	0	7,		ω̈́	ω̈́	o,	o o	· œ		1
Ch.	22	20	12	Ö	ω	ώ	w	œ ~	<u>o</u>	H2S	+
<u>o</u>	20	21	=	သံ	ū	Ċ,	0	21	22	202	
9	17	20	12	0	12	Ç)	ယ်	60	ω̈́	70V	
0	ω [']	17	ω	12	e)	4	12	17	17	797	
7,	20	2	12	<u>c</u>		12	6	17	<u>o</u>	077	
Ś	20	22	12	4	4	6	ζħ	21	25	2002	
20	22	23	ú	ယ်	3	Ú	6	20	22	200	
17	22	22	4	1,4	ŵ	Ç,	Ü	<u>o</u>	20		Vax.
∞ 	22	21	12	4	ယ်	7,	4	9	20	27.	_
6.3	00	19.5	110	00	12.2	4.00	12.5	17.7	20.8	000	
17.2	8.5	20.8	<u>΄</u>	5	ÇD 	13.7	13 8	8.0	20.0	200	200
15.7	197	19.5	11.5	12.0	0.00	13.8	12.5	16.7	8.0	000	SAM SILLY
15.5	20.2	19.8	10 8	11.7	11.0	12.2	11.5	17.7	8.5	0	
46	46	46	7	3 8	39	40	40	46	45		R 10
48	4	45	60	37	4.	42	42	45	47		14 14-22 22-06
47	47	47	39	36	40	39	4	47	46		22-06
27	28	25	23	21	<u>0</u>	0	2	27	25		6-14
26	25	26	22	23	22	20	20	26	27		14 14-22 23
28	27	27	21	20	2,	2.	22	26	24		22-06

FORMAT - II B

Ambient air quality data at Nagda for the month of: August;2023

& Year In A.M. S.D. Peak In A.
WEST Vishou Bhawan Aug 2023 12 13.7 1.8 16 12 13.8 1.5 16 12 13.2 1.5 15 12 11.8 1.6 14 6 41 1.1 42
NORTH Aug 2023 18 11.7 1.3 14 18 11.4 1.1 13 18 11.4 1.5 14 18 11.2 1.4 14 9 39 1.6 41
SOUTH Aug 2023 48 181 20 22 18 18.8 2.3 23 18 18.3 2.4 22 18 18.5 26 22 9 46 0.9

FORMAT - II A

0

Ambient air quality data at Nagda for the month of: September-2023 All results expressed as Microgram/M3

Dire-	ction	EAST		WEST		NORTH		SOUTH	
Hrs	Date	04.09.2023	17.09.2023	04.09.2023	17.09.2023	NORTH 05.09.2023	18.09.2023	SOUTH 05.09.2023	18.09.2023
	S02	17	19	10	12	12	10	19	17
6 -	NO2	16	12	15	17	12	14	18	15
10	CS2	17	17	14	<u></u>	14	10	17	18
	H2S	19	19	9	<u> </u>	12	12	20	18
	SO2	15	16	3	10		<u>-</u>	20	19
10-	NO2	16	18	16	14	10	10	16	16
14	CS2 H2S	14	14	12	12	10	ω	18	4
	H2S	18	15	<u> </u>	10	1	10	18	17
	SO2	20	₩	13	14	12	14	21	20
14-	NO2	17	13	12	3	10	12	17	14
18	CS2 H2S	20	18	14	14	14	14	15	15
	H2S	21	4	10	7	1	1	19	19
	SO2 NO2	16	19	14	=======================================	12	12	19	19
18 -	NO2	15	15	16	12	12	10	18	14
22	CS2	<u>~</u>	17	13	10	12	12	22	20
	H2S	19	16	12	12	13	13	20	14
	S02	20	4	15	12	14	14	18	19
22 -	NO2	18	16	13	13	14	7	15	16
02	CS2	19	15	3	13	13	13	18	\$
	H2S	20	18	10	9	12	12	17	17
	S02	19	17	14	14	10	12	20	14
02 -	NO2	16	<u>a</u>	6	15	12	15	2 ∞	17
8	CS2	17	∞ 2	14	12	1	4	20	19
	H2S	21	14	12	10	13	12	18	20
	S02	20	19	15	4	14	14	21	20
4Hrs	NO2	18	8	16	17	4	15	18	17
Max.	CS2	20	18	4	14	4	14	22	20
	H2S	21	19	12	12	<u>1</u> 3	ವ	20	20
	SO2	17.8	17.2	12.8	12.2	11.8	12.2	19.5	18.0
24Hrs Avg	NO2	16.3	14.5	14.7	14.0	11.7	12.0	17.0	15.3
Avg	CS2	17.5	16.5	13.3	12.0	12.3	12.0	18.3	17.3
	H2S	19.7	16.0	10.7	10.5	12.0	11.7	18.7	17.5
8 H	6-14	44	46	39	41	43	42	47	46
	14-22	46	44	40	40	42	43	46	45
PM10	22-06	45	45	41	41	42	42	46	46
8 H	0-14	28	26	19	20	22	21	25	26
8 Hrs. Avg. PM2.5	14-22	26	25	21	21	21	20	27	25
PM2.5	00-77	27	27	20	20	22	21	26	26

FORMAT - II B

BDL: Below detectable Limit

Tr.: Tracess

ND: Not Detectedble

Ambient air quality data at Nagda for the month of: September-2023

Sampling location Month SO2 microgram/M3 NO2 microgram/M3 CS2 microgram/M3 H2S microgram/M3	TMI	Tillcrogial.
& Year r	n A.M.	S.D. Pe
EAST September: 2023 12 17.5 1.9 20 12 15.4 1.8 18 12 17.0 1.8 20 12 17.8 2.4 21 6	6 45	0.8 46
Fabrication Shop September 2023 12 12.5 1.7 15 12 14.3 1.6 17 12 12.7 1.2 14 12 10.6 1.0 12 6	6 40	0.7 41
Vishnu Bhawan September-2023 12 12.0 1.4 14 12 11.8 1.7 15 12 12.8 2 14 12 11.8 0.9 13 6	6 42	0.5 43
Labour-Club September: 2023 12 18.8 1.7 21 12 16.2 1.4 18 12 17.8 2.2 22 12 18.1 1.7 20 6	6 46	0.6 47

	PM2.5 r	PM2.5 microgram/M3	m/M3	
ם	A.M.	S.D.	Peak	G.N
б	27	1.0	28	26
6	20	0.7	21	20
o	21	0.7	22	21
0	26	0.7	27	26

Shutters on Spinning Machine





Safe Storage of Chemicals



FIRE FIGHTING SYSTEM

The factory has a full-fledged fire-fighting department. The employees are also given basic fire fighting training regarding use of Fire Extinguishers and Safety Appliances. The entire manufacturing unit, godown, ware houses where combustible are stored is covered with adequate number of hydrant points and automatic sprinkler system. The hydrant and Sprinkler system is installed as per TAC norms The hazardous spots have been provided with portable fire extinguishers, gas masks and breathing apparatus. Trained personnel are available in fire control room round the clock in three shift 05 person in each shift. Two separate telephones 101 & 5140 are provided and additional Hotline telephones are also provided at high hazardous identified areas.

The factory has fire hydrant pump with independent water reservoirs. The ring main dry hydrant system has been laid down, which covers the entire manufacturing sections, godowns, ware houses, carbon disulphide storage area, sulphur storage area etc. All the hydrant lines are inter-connected. The main hydrant line is of 8-inch diameter and 6-inch diameter with 203 hydrant outlets and 20 Water Monitors. All the water reservoirs receive water from Water Treatment Plant. Both hydrant and sprinkler systems are approved by Tariff Advisory Committee.

Hydrant system is provided with stand-by diesel pump for use, in case of emergency at the time of electric power failure.

The factory has Four Fire Tenders / Foam Tenders, A large number of Fire Extinguishers and Safety Equipment are provided for fire fighting in the plant.

The details of the Sprinkler / Hydrant sprinkler system are given in the table-

a) Sprinkler System

The sprinkler system covers all the manufacturing sections, godwons, warehouse of PC-1, PC-2 and charcoal godown in PC-3 area. Medium velocity water spray system is provided on CS2 Storage Tanks in PC-1 and PC-2 area.

b) Details of Hydrant and Sprinkler System -

		Hydrant Sy	stem		Sprinl	kler Syste	m
S. No.	Location/ plant	Water Reservoir capacity]	Hydrant Pump	No. of hydrant points (Equivalent)		inkler ump
		(M3)	HP	Capacity		HP	Capacity
1	PC-1	809	125	273 M3/hr	76	125	273
						20	M3/hr
				Head-70 M		Jockey	10.8 "-
						pump	Jockey
							pump
2	PC-2	847	125	273 M3/hr	54		273
				Head-70 M			M3/hr
3	PC-3	600	125	273 M3/hr	30	-	-
				Head - 70 M			
4	Excel Fibre	550	100	273 M3/hr	26		-
	Division			Head - 70 M			
5	New Ware	540	125	273 M3/hr	17	-	-
	House			Head - 70 M			
6	Water	300	-		-	-	-
	Treatment						
	Plant (Over						
	head water						
	storage						
	tank)						
7	Diesel	PC-2	130	273 M3/hr			
	pump			Head - 70 M			
	(Stand by)						

c) Fire Fighting Equipment

The factory has four Fire Tenders / Foam Tenders. A large numbers of Fire Extinguishers and Safety Equipment are provided for fire fighting in the plant. The list of Fire Fighting Equipment, Safety Equipment and other Emergency Equipment are given below:

Type of Equipment	Capacity	Quantity
DCP Cylinder	5 Kg+ 4kg	g+2kg 244 Nos.
CO2 Cylinder	9 Kg	850 Nos.
CO2 Cylinder	3 Kg	22 Nos.
Halon & clean agent Cylinder		-40 Nos.
Foam AFFF	-	2000 Liters
Fire Buckets	-	275 Nos.
Foam Making Branch Pipes	-	10 Nos.
Fire Hoses	-	112 Nos.
Nozzles / Branches	-	56 Nos.
Self contained breathing apparatus	-	22 Nos.
Spare Cylinders(air filled for SCBA)	-	40 Nos.
Fire Suits	-	4 Nos.
Ambulance	-	2 Nos.
Portable Public Address System	-	1 Sets

Greenery Around Factory



Grasim SFD, Trimurti Gate for Staff



Grasim, Excel Fibre Division

EXHIBIT-6
Location of Continuous Ambient Air Monitoring System

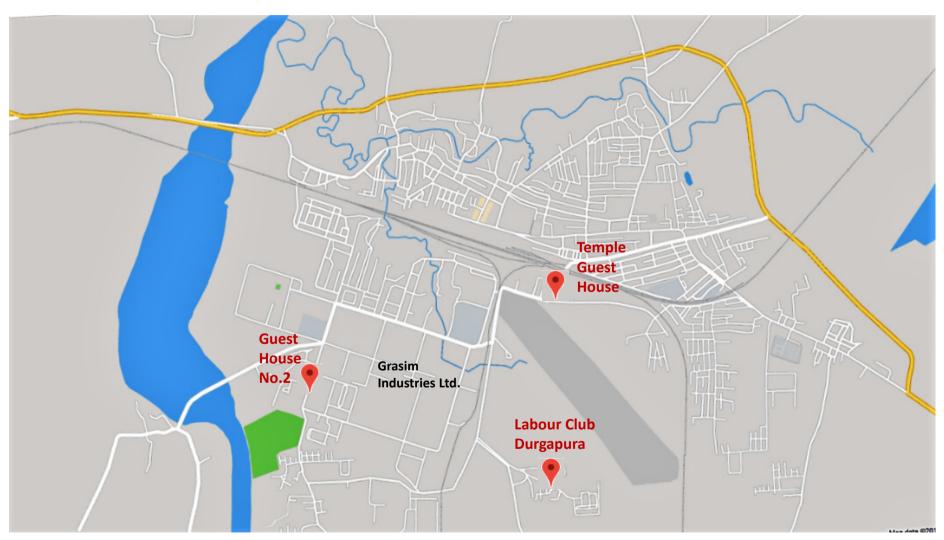


EXHIBIT-6

LED Display Board for CAAQMS (at Factory Gate for General Public)





Environmental Protection Measures and Safeguard

1. Waste Generation

1.1 Water Environment

Each section has a collection pit for maximizing reuse within the section itself and use in Cooling Tower makeup. The small leftover will be collected and pumping to the main effluent treatment plant.

A full fledge Common Effluent Treatment Plant with Primary and Secondary treatment facility designed on the principle of extended aeration activated sludge process in operation. The treated effluent quality will maintained consistently as per standards prescribed by MPPCB for discharge.

1.2 After Expansion

Typical Quantity of the effluent generate after proposed expansion:

Particular	Existing Generation	Additional Generation	Total after proposed expansion
Excel Fibre Division	530	680*	530

^{*}No Additional effluent will be discharged from this project as Effluent generated from this project is being used in SFD Auxiliary Cooling Towers, in place of fresh Raw Water being used earlier.

2. Air Environment

There is no source of air emission.

3. Solid & Hazardous Waste Management

We are committed to comply storage, handling and disposal management of hazardous and other solid waste arising due to manufacturing activity as per the rules laid down by MoEF. Source of Generation and disposal practice is mentioned in following table.

3.1 Hazardous Wastes

S. No	Waste	Source	Disposal method
1	Used Oil	Rotating mechanical equipments	Sold to CPCB authorized recycler
2	Used Resin	Purification process	Give back to Supplier / Common TSDF site, Pithampur

^{*}We are conducting in-house experiments at Birla Research Institute for improving Resin life. We are also in contact with Resin suppliers for the same.

3.2 Solid Waste

S. No	Waste	Source	Quantity	Quantity	Quantity	Disposal
			(Existing)	(Expansion)	Total	method
1	Tow Waste	Generated	36.5 MT /	36.5 MT /	73.0 MT /	Sold for
	(Cellulose)	during regeneration	year	year	year	Waste Fibre application / Incineration in
		process				existing coal fired Boiler

During Storage and Handling of Hazardous Materials, Hazardous Waste and Solid Waste adequate measures are being provided to avoid contamination of land or water due to accidental spillage of materials during handling and storage.

Exhibit-8

Environment Management Cell - Personnel and details thereof

(As on 30th September, 2023)

S. No.	Name	Designation	Discipline	Date of Joining	Qualification
Sr. Executives (Environment Cell Reports to)					
1	Mr. K Suresh	President & Unit Hea	Executive	05.02.2018	B.E. (Chemical), MS (Industrial Eng.)
2	Mr Ashish Maheshwari	Vice President	Executive	16.08.2019	B.E. (Mechanical)
3	Mr. Tushar Wankhede	Gen. Manager	Executive	01.04.2023	B. Tech (Chemical), M. Tech(WILP)
Environment Cell					
1	Mr. Rakesh Patnaik	Gen. Manager	Tech. Services	23.03.2012	M.Sc.(Environment) M .Phil (Environment), PG Diploma in Environment Management
2	Mr. Ashish Khare	Deputy Manager	Tech. Services	18.05.1998	M.Sc. (Maths), PG Diploma in Environment Management
3	Mr. Roopesh Goyal	Dy. Gen. Manager	Monitoring	17.07.2018	B.E. (Textile)
4	Mr. Anil Maheshwari	Deputy Manager	Monitoring	01.07.1995	B.Sc. (PCM)
5	Mr. Ravi Jain	Asst. Manager	Monitoring	01.01.1996	B.Sc. (PCM)
6	Mr Anil Vijay	Asst. Gen .Manager	Process	26.08.1987	M.Sc. (Chem), BS(Process Eng.)
7	Mr. M.S.Kushwaha	Deputy Manager	Process	09.08.1996	B.Sc. , M.Sc. MBA
8	Mr. Amit Pandit	Asst. Manager	Process	18.05.1998	M.Sc. Chemistry BS(Process Eng.)
9	Mr. R.K.Verma	Asst. Manager	Process	18.11.2015	M.Sc.(Chemistry)., B.S.,Dip.Env.Management
10	Mr. Dilip Gohil	Officer	Process	21.10.2016	M.Sc. (Chem)
11	Mr. J.K. Wadhawa	Asst. Manager	Process	01.07.1993	B.Sc, MA (English),BS (Pr. Engg)
12	Mr. Jitendra Gaur	Chemist	Process	16.10.2017	B.Sc.

Information to Public

एक्सल फायबर डिवीजन

पर्यावरण सम्मति

पर्यावरण एवं वन मंत्रालय (भारत सरकार) द्वारा एक्सल फायबर डिवीजन नागदा को 7300 टन प्रति वर्ष एक्सल फायबर उत्पादन हेतु पर्यावरण सम्मति दिनांक 16.08.2012 को प्रदान की है जो पर्यावरणएवं वन मंत्रालय की वेबसाईट http://envfor.nic.in पर उपलब्ध है। ग्रेसिम इण्डस्ट्रीज लिमिटेड (एक्सल फायबर दिवीजन) रजीस्टर्ड ऑफिस - पो.ओ. बिरलाग्राम, नागदा 456 331जिला -उज्जैन (म.प्र.)

Local Language News Paper (Dainik Jagran)

Excel Fibre Division

Environment Clearance

Ministry of Environment and Forest has accorded Environment Clearance to Excel Fibre Division, Nagda for Production of 7300 TPA Excel Fibre on 16.08.2012 and same is available on MOEF

website- http://envfor.nic.in

Grasim Industries Limited (Excel Fibre Division)
Registered Office - P.O. Birlagram, Nagda
Pin - 456 331 Dist.- Ujjain (M.P.)

English News Paper (Free Press)