



To,
The Additional Chief Conservator
of Forest (C),
Ministry of Environment, Forests &
Climate change, 4th Floor, E&F
Wing, Kendriya Sadan,
Koramangala, Bangaluru 560034

Date : 07th July 2022
From : Director, Goa Plant
Sidharth Choudhary
Phone : 0832 – 2347100
e-mail : choudhary.s@pg.com
Letter No. : HSE/22/52

Subject - Six monthly compliance reports (for the period 01.10.2021 to 31.03.2022)

Reference - MoEF No. J-11011/1311/2007-IA-II (I) dated 11.02.09 (Expansion of bulk drug unit at Plot no. 11, Marvasodo, Usgaon, Ponda, Goa by M/s. Merck Limited – Environmental Clearance reg.)

Dear Sir,

We are sending herewith six-monthly compliance reports (for the period 01.10.2021 to 31.03.2022) for your kind perusal. We are also attaching compilation of reports carried out during the period as annexures.

Please find below the other details required by you.

Name & contact details of the responsible person:

Name: Mr. Sidharth Choudhary, Director Goa Plant

Address: Plot no. 11/1, Marvasodo, Usgaon, Goa – 403407


Email: choudhary.s@pg.com

Phone: 0832 2347105; 07032667287

Company Website: <https://www.pghealthindia.com/>

Thanking you.

Yours faithfully,
For **PROCTER & GAMBLE HEALTH LIMITED**


Sidharth Choudhary
Director, Goa Plant

Encl: a/a

CC: 1. Additional Director (MoEF, New Delhi)
2. Goa State Pollution Control Board, Panaji.

Registered Office :

Procter & Gamble Health Limited
CIN: L99999MH1967PLC013726
Godrej One, 8th Floor, Pirojshanagar,
Eastern Express Highway, Vikhroli East,
Mumbai 400 079 | Tel: (91-22) 6866 9000

Site Address:

Procter & Gamble Health Limited
CIN: L99999MH1967PLC013726
Usgaon, Ponda Taluka,
Goa 403 407 | Tel: (91-832) 2347105
www.pghealthindia.com

Six Monthly Compliance Report
(01.04.2022)

For the Period of 1st October 2021 to 31st March 2022

Of

Company Name: Procter & Gamble Health Limited
Address: Plot No.11, Marwasodo Usgaon, Ponda -Goa

Annexure – 1

A		
SPECIFIC CONDITIONS		
Condition No	Points	Compliance Status for the Period of 1 st October 2021 to 31 st March 2022
i)	The project authorities shall install the effluent treatment plant to treat the wastewater up to the norms laid down by the Goa State Pollution Control Board (GSPCB). The company shall regularly monitor the treated wastewater quality and the reports shall be submitted to the Ministry's Regional Office at Bangalore and GSPCB.	The Effluent Treatment Plant is available. The treated water quality is monitored regularly. Daily analysis is done at in-house laboratory & monthly basis from MoEF recognised laboratory. The copy of monthly analysis report is submitted to GSPCB on monthly basis. Online monitoring system for treated effluent is available. Refer Annexure-1
ii)	The company shall provide guard pond for treated wastewater. Bioassay test and toxicity index test shall be carried out regularly for the wastewater before and after treatment and record shall be submitted with the six-monthly reports.	Tank of capacity 180 m ³ is available for holding raw effluent & two tanks of capacities 220 m ³ each are available to hold neutralised effluent. Treated wastewater sampling is done for Bioassay test (toxicity test) on monthly basis from MoEF approved lab. Compiled data of the same is attached herewith. Refer Annexure -1 . In house testing for bioassay test & toxicity index test is done.
iii)	The water requirement and wastewater generation shall not exceed 707 KLD and 416 KLD respectively. The treated wastewater shall be utilised for green belt development and zero discharge shall be maintained from the plant premises.	At present water consumption is around 600 to 700 KLD & wastewater generation is approx. 350 KLD. The treated water is used for utility: 200 KLD & for green belt purpose 150 KLD.
iv)	The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs and ensure that the solvent recovery shall not be less than 98%.	All the secondary condensers are provided with chilled water / brine solution for reducing the solvent loss. Recovered solvent & residue checked for recovery (98 - 99%).

v)	The company shall provide the monitoring arrangement with vents and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bangalore.	Vents monitoring are carried out as per consent condition and report submitted to GSPCB. Refer Annexure -2
vi)	<u>To prevent solvent loss, following measures shall be taken: -</u>	
	A). Reactor shall be connected to chilled brine condenser system.	Reactors are connected to chilled water/ brine condenser.
	B). The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery.	The condensers are provided with sufficient HTA and residence time to achieve more than 98% recovery.
	C). Solvents shall be stored in a separate space specified with all safety measures.	Solvents are stored in a separate /dedicated area with safety measures as per the requirement under petroleum act. Solvent detection system & automatic sprinkler system is in place.
	D). Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	All the electrical equipments are provided with earthing wherever solvent handling is done.
	E). Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Flame proof area has been defined & marked on location. Solvent storage tanks are provided with flame arresters & breather valve to prevent losses.
vii)	The process emissions VOCs and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	The process emissions VOC & SPM monitoring has been carried out. refer - Annexure -3 Emergency operation procedure is in place.
viii)	Fugitive emissions in the work zone environment, product and raw-materials storage area shall be regularly monitored. The emission shall conform to the limits imposed by GSPCB.	Solvent online detection system is provided in solvent storage areas. Fugitive emission monitoring is carried out in store area- refer Annexure -3

ix)	<p><u>For control of fugitive emission and VOCs following steps shall be followed: -</u></p> <p>A). Closed handling system shall be provided for chemicals.</p> <p>B). Reflux condenser shall be provided over reactor.</p> <p>C). Solvent handling pump shall be provided with mechanical seals to prevent leakages.</p> <p>D). System of leak detection and repair of pump/pipeline based on preventive maintenance.</p> <p>E). Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</p>	
		Close handling system provided
		Reflux condenser is provided over reactor.
		All the solvent handling pumps provided with mechanical seal.
		Solvent leak detection system in place. Developed Standard Operating Procedure for Preventive maintenance / repair is available.
		Solvents are stored in above ground tanks. All above ground solvent tanks available with proper vent through trap receiver and condenser operated with chilled water & flame arrestor is provided.
x)	<p>The hazardous wastes generated from the plant shall be disposed of in accordance with the Hazardous Waste (HW) of (Management and Handling) Rules 1989 and as amended. The company shall submit the copy of membership to CHWTSDF (Common Hazardous Waste Treatment Storage and Disposal Facility) to the Ministry's Regional Office at Bangalore.</p>	<p>Hazardous waste is handled and disposes as per Hazardous Waste Rule. Refer Annexure - 4</p>
xi)	<p>During transfer of materials, spillages shall be avoided, and garland drains be constructed to avoid of accidental spillages with domestic waste and storm drains.</p>	<p>Bund wall has been made to protect the accidental spillages with domestics and storm drain.</p>
xii)	<p>The project authorities shall develop greenbelt in 18 acres out of total 37 acres as per guidelines of CPCB to mitigate the effect of fugitive emission.</p>	<p>Total 18 acres green belt is developed out of total 37 acres area to mitigate the effluent discharge.</p>

xiii)	Adequate financial provision shall be made in the budget of the project for implementation of the above suggested environment safeguard. Fund so earmarked shall not be diverted for any other purposes.	Adequate budget / financial provision made for environmental management.
xiv)	The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit.	The manufacturing facility is made as per GMP requirement & in close ventilation system. There is no odour nuisance from the plant premises.
xv)	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 workers is carried out annually as per Factories Act.
xvi)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. As informed to the Ministry, OHSAS 18001 shall be continued. 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.	ISO 45001 will replace OHSAS 18001 for workplace health and safety. The company is in process of ISO45001 certification for the site. Pre-employment & routine medical examination is done for all employees. Regular training programmes are conducted on handling of chemicals.
xvii)	Usage of PPEs by all employees/ workers shall be ensured.	Usage of PPE's are ensured through SOP/OCP & instruction signs displayed at relevant areas etc.
xviii)	The company shall strictly all the recommendations mentioned in the charter on Corporate Responsibility for (CREP) For Environmental Protection (CREP) for bulk drug & chemical units.	CREP recommendations are followed. Water consumption reduction & Waste minimisations steps are taken at plant level. Waste segregated as per the category.
xix)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire Protection system /Fire detection system have been installed. Inertisation of the reactors done by purging nitrogen.
xx)	Provision shall be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All provisions are made as and when required.

B GENERAL CONDITIONS

Condition No	Particulars	Status
I)	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.	All the stipulations of the SPCB / State Govt or any other statutory body shall strictly adhere
II)	No further 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 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.	For further expansion or modification, prior approval will be taken from MOEF.

iii)	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of the Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Compliance made as per manufacture, storage and import of Hazardous Chemical Rules. Authorization from the SPCB shall be obtained for collection, treatment and disposal. As per Hazardous Waste Management & Handling rule 1989. Disposal records manifest copy is available.
iv)	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level of concentration are anticipated in consultation with the State Pollution Control Board.	Ambient air quality monitoring is done by online monitoring system which is connected to CPCB & GSPCB server.
v)	For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.	Stack height of Boiler is 33 mt. Other stacks are maintained as per consent conditions. Scrubber waste water is treated through ETP.
vi)	<u>The company shall undertake following Waste Minimization measures:-</u>	
	A). Metering of quantities of active ingredients to minimize waste.	Waste generation are monitored
	B). Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	By products from the process are reused /recycled

	C). Maximizing recoveries.	Chilled /brine in secondary condenser available for maximizing recoveries.
	D). Use of automated material transfer system to minimize spillage.	Used Powder Charging system to minimize manual handling and spillage. Close loop feeding is followed.
	E). Use of "Closed Feed" system into batch reactors.	Closed Feed system is available in the batch reactors.
vii)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.	Hazardous wastes are handled and dispose as per Hazardous Waste Rule. Authorisation is obtained from Goa State Pollution Control Board. Refer Annexure - 4 for hazardous waste disposed during the six months.
viii)	The overall noise levels in an around the plant area shall be kept well within the standards (85 dBA) 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).	Noise levels are monitored through calibrated Noise level meter and monitoring records are kept in Register. Refer Annexure -5
ix)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry the environmental management and monitoring functions.	Environmental Management Cell and full fledge environmental laboratory facility is available.
x)	The project authorities shall provide rainwater harvesting system and ground water recharge.	Rainwater harvesting pond for storing about 21600 KL is available with ground water charging system.
xi)	The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office of /SPCB / CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies	Six monthly compliance is submitted regularly to MoEF, CPCB & SPCB.

<p>xii)</p>	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at the http://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 of concerned and a copy of the same shall be forwarded to the Ministry's Regional Office.</p>	<p>Complied.</p>
<p>xiii)</p>	<p>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.</p>	<p>Complied.</p>
<p>6.0</p>	<p>The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.</p>	<p>Maximum compliances are completed & we will maintain in future also.</p>
<p>7.0</p>	<p>The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.</p>	<p>Maximum compliances are completed & we will maintain in future also.</p>
<p>8.0</p>	<p>Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.</p>	<p>---</p>
<p>9.0</p>	<p>The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p>	<p>All conditions are followed.</p>

Water Analysis of Raw / Treated Effluent - Oct-2021 to Mar-2022 - Annexure 1

Parameters	Treated Effluent Water Analysis											Raw Water Analysis								
	PH	COD mg/lit	BOD mg/lit	TSS mg/lit	O&G mg/lit	Sulphide as S ₂ -mg/lit	phenolics compound mg/lit	Hexavalent chromium as Cr+6 mg/lit	Cyanide as CN* mg/lit	Phosphate as P mg/lit	As mg/lit	Pb mg/lit	Hg mg/lit	Bio-Assay test	PH	COD mg/lit	BOD mg/lit	TSS mg/lit	O&G mg/lit	
Legal Consent Limits As per- Goa State Pollution Board	6 - 8.5	250	30	100	10	2	1	0.1	0.1	5	0.1	50	0.01	90% survival of fish after 96hrs in 100% effluent						
Oct-21	7.07	108	24	41	2.8	0.049	0.057	0.001	0.001	1.17	0.001	0.001	0.001	90% survival for 96hrs	5.27	3584	496	244	11.4	
Nov-21	7.18	116	25	40	3.4	0.084	0.072	0.001	0.001	2.04	0.001	0.001	0.001	90% survival for 96hrs	5.42	3628	842	241	10.8	
Dec-21	7.27	88	24.03	41	3	0.07	0.082	0.001	0.001	2.36	0.001	0.001	0.001	90% survival for 96hrs	5.39	3624	944	231	12	
Jan-22	7.03	94	26	45	4.2	0.09	0.094	0.001	0.001	2.76	0.001	0.001	0.001	90% survival for 96hrs	5.62	3412	884	219	11.6	
Feb-22	7.11	108	27	39	5.4	0.12	0.071	0.001	0.001	3.02	0.001	0.001	0.001	90% survival for 96hrs	5.84	3184	812	209	12.4	
Mar-22	7.49	94	25	33	4.4	0.42	0.096	0.001	0.001	3.17	0.001	0.001	0.001	90% survival for 96hrs	4.61	2904	782	236	11.6	

Annexure 2

Stack monitoring report - Oct-2021 to Mar-2022 - Frequency of Monitoring Quarterly

Sr No.	Area	Parameters	Legal Limits as per Pollution Control Board	Oct-21	Jan-22
1	Process stack scrubber -OxyneX ST	VOC (Cyclohexane, Heptane) mg/M ³	NA	0.2	0.2
		HCL mg/M ³	NA	1.1	1.1
2	Vitamin E scrubber	Acetic acid mg/M ³	NA	0.1	0.1
		Hexane mg/M ³	NA	0.1	0.1
3	QC scrubber no 1	Sulfuric Acid Mist mg/M ³	NA	0.1	0.1
		Hydrochloric Acid Mist mg/M ³	NA	0.1	0.1
		Nitric Acid Mist mg/M ³	NA	0.1	0.1
4	QC scrubber no 2	Ether mg/M ³	NA	0.1	0.1
		Methanol mg/M ³	NA	0.1	0.1
5	TDS Dust collector 1	PM mg/Nm ³	NA	20.14	18.92
6	TDS Dust collector 2	PM mg/Nm ³	NA	22.47	21.2
7	Dust collector 1(VIT E Dry Powder & Food Premix)	PM	NA	21.46	12.61
8	TDS Scrubber stack	HCL mg/m ³	NA	1.1	1.1
9	Thermopac stack (oxyneX ST)	Particulate matter mg/Nm ³	150	55.91	48.34
		SO ₂ kg/hour	1.44	0.16	0.14
10	DG set Stack- 500KVA(Sr No 07/0804/0198)	Particulate matter g/Kw-hr	0.3	0.05	0.05
		SO ₂ kg/hour	2.1	0.22	0.21
		Nox g/kw-hr	9.2	0.24	0.23
		CO g/kw-hr	3.5	0.08	0.07
		HC g/kw-hr	1.3	0.09	0.08
11	DG set Stack- 500KVA(Sr No 07/0804/0199)	Particulate matter g/Kw-hr	0.3	0.05	0.06
		SO ₂ kg/hour	2.1	0.22	0.21
		Nox g/kw-hr	9.2	0.26	0.25
		CO g/kw-hr	3.5	0.09	0.08
		HC g/kw-hr	1.3	0.09	0.08
12	DG set Stack new-500 KVA(Sr No 07/1109/01149)	Particulate matter g/Kw-hr	0.3	0.05	0.06
		SO ₂ kg/hour	2.1	0.18	0.17
		Nox g/kw-hr	9.2	0.25	0.27
		CO g/kw-hr	3.5	0.07	0.06
		HC g/kw-hr	1.3	0.09	0.08
13	DG set (750KVA) (Stack 1) (25420923) (sr.no. 07/1612/0423)	Particulate matter g/Kw-hr	0.3	0.04	0.05
		SO ₂ kg/hour	3.15	0.3	0.29
		Nox g/kw-hr	9.2	0.21	0.23
		CO g/kw-hr	3.5	0.08	0.07
		HC g/kw-hr	1.3	0.1	0.09
14	DG set (750KVA) (Stack 2) (25420923)(sr.no. 07/1612/0423)	Particulate matter g/Kw-hr	0.3	0.04	0.05
		SO ₂ kg/hour	3.15	0.26	0.28
		Nox g/kw-hr	9.2	0.19	0.21
		CO g/kw-hr	3.5	0.06	0.06
		HC g/kw-hr	1.3	0.06	0.07
15	DG set (750KVA) (Stack 1) New (sr.no. 07/1604/0014) 25415671	Particulate matter g/Kw-hr	0.3	0.04	0.04
		SO ₂ kg/hour	3.15	0.21	0.21
		Nox g/kw-hr	9.2	0.19	0.18
		CO g/kw-hr	3.5	0.06	0.06
		HC g/kw-hr	1.3	0.07	0.07
16	DG set (750KVA) (Stack 2) (Sr.No. 07/1604/014) 25415671	Particulate matter g/Kw-hr	0.3	0.04	0.04
		SO ₂ kg/hour	3.15	0.22	0.24
		Nox g/kw-hr	9.2	0.18	0.17
		CO g/kw-hr	3.5	0.06	0.07
		HC g/kw-hr	1.3	0.08	0.08
17	DG set (750KVA) (Stack 1) New (sr.no.) (25421685)	Particulate matter g/Kw-hr	0.3	0.04	0.05
		SO ₂ kg/hour	3.15	0.29	0.3
		Nox g/kw-hr	9.2	0.21	0.22
		CO g/kw-hr	3.5	0.08	0.07
		HC g/kw-hr	1.3	0.09	0.08
18	DG set (750KVA) (Stack 2) New (sr.no.) (25421685)	Particulate matter g/Kw-hr	0.3	0.04	0.05
		SO ₂ kg/hour	3.15	0.3	0.31
		Nox g/kw-hr	9.2	0.21	0.23
		CO g/kw-hr	3.5	0.08	0.08
		HC g/kw-hr	1.3	0.1	0.09
19	Boiler (6 TPH)	Particulate matter mg/Nm ³	800	348.5	331.65
		SO ₂ kg/hour		0.53	0.52
20	Boiler (4 TPH)	Particulate matter mg/Nm ³	800	207.15	214.64
		SO ₂ kg/hour	20.32	3.9	3.79

Annexure 3

Workplace monitoring report			
Oct-2021 to Mar-2022			
Sr No	Area	Parameter with Units	Mar-22
1	Work place monitoring- PPI Lab (Six monthly)	VOC ppm	0.2
		HCL mg/m3	0.1
		NH3 ug/m3	14
		HC ppm	0.001
2	Work place monitoring- Vitamin E production (Six monthly)	VOC ppm	0.2
		Acetic acid ppm	0.1
3	Work place monitoring- Dry Powder (Six monthly)	PM10 mg/m3	0.2
		PM2.5 mg/m3	0.12
4	Work place monitoring- TDS production (Six monthly)	VOC ppm	0.2
		PM10 mg/m3	0.18
		PM2.5 mg/m3	0.12
		SO2 mg/m3	0.003
		NOX mg/m3	0.009
		CO mg/m3	0.08
		PHAs PPM	0.001
		Toluene/Xylene PPM	0.01
6	Work place monitoring- DP Godown (Six monthly)	VOC PPM	0.2
7	Work place monitoring- ETP lime house (Six monthly)	PM10 mg/m3	0.22
		PM2.5 mg/m3	0.11
		VOC PPM	0.2
8	Work place monitoring- QC (Six monthly)	HCL mg/m3	0.1
		NH3 ug/m3	14
		HC ppm	0.001
		HC ppm	0.1
9	Work place monitoring- Oxynex ST (Six monthly)	HCL mg/m3	0.001
		PM10 mg/m3	0.17
10	Work place monitoring- Pharma RM store (Six monthly)	PM2.5 mg/m3	0.09

Annexure 4

Sr. No.	Date	Category	Description											12					
			1	2	3	4	5	6	7	8	9	10	11						
			Used/ spent oil	Spent solvents	Discarded Containers/ Barrels/ Liners used for hazardous Chemicals	Off specification Products	Date expired Products	Chemical sludge from ETP	DEHM Residue	Oxyneq Forerun	Spent solvents (Mother liquor residue)	DEHM Residue	Oxyneq Residue	Spent acetic acid conc. & zinc salt mixture	Organic Oxygen compound (acetic acid)	Zinc dust	Spent Carbon From ETP	Spent Ionex Change Resin From DM Water Plant	Name of the Authorized party
Sr No	Date	Category	5.1	20.2	33.1	28.4	28.5	35.3	Spent solvents			Process Residue & Wastes				6.2	28.3	35.2	
			MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	
1	06.10.2021	HWR-21/55																	
2	14.10.2021	HWR-21/56			1.26														
3	16.10.2021	HWR-21/57																	Deepak Enterprises,Goa
4	19.10.2021	HWR-21/58			0.364									22					Rajlaxmi Enterprises, Gujarat
5	21.10.2021	HWR-21/59			1.26														Deepak Enterprises,Goa
6	22.10.2021	HWR-21/60																	Deepak Enterprises,Goa
7	25.10.2021	HWR-21/61			0.885														Deepak Enterprises,Goa
8	25.10.2021	HWR-21/62																	Deepak Enterprises,Goa
9	29.10.2021	HWR-21/63												6.3					JK cement,Karnataka
10	01.11.2021	HWR-21/64												17.2					Rajlaxmi Enterprises, Gujarat
11	08.11.2021	HWR-21/65												5.67					JK cement,Karnataka
12	10.11.2021	HWR-21/66			1.17									5.62					JK cement,Karnataka
13	16.11.2021	HWR-21/67			1.927														Deepak Enterprises,Goa
14	16.11.2021	HWR-21/68												17.2					Deepak Enterprises,Goa
15	19.11.2021	HWR-21/69			1.26														Rajlaxmi Enterprises, Gujarat
16	24.11.2021	HWR-21/70			0.854														Deepak Enterprises,Goa
17	29.11.2021	HWR-21/71			1.64														Deepak Enterprises,Goa
18	07.12.2021	HWR-21/72			1.15														Deepak Enterprises,Goa
19	09.12.2021	HWR-21/73																	Deepak Enterprises,Goa
20	13.12.2021	HWR-21/74			0.966									16.2					Rajlaxmi Enterprises, Gujarat
21	17.12.2021	HWR-21/75																	Deepak Enterprises,Goa
22	23.12.2021	HWR-21/76												7.34					JK cement,Karnataka
23	23.12.2021	HWR-21/77		1.81										6.13					JK cement,Karnataka
24	24.12.2021	HWR-21/78			1.12														Ashutosh Industries, Goa
25	24.12.2021	HWR-21/79			0.871														Deepak Enterprises,Goa
26	28.12.2021	HWR-21/80			1.245														Deepak Enterprises,Goa
27	31.12.2021	HWR-21/81																	Deepak Enterprises,Goa
28	07.01.2022	HWR-22/001			0.504									5.89					JK cement,Karnataka
29	08.01.2022	HWR-22/002																	Deepak Enterprises,Goa
30	17.01.2022	HWR-22/003			0.551									17.4					Rajlaxmi Enterprises, Gujarat
31	17.01.2022	HWR-22/004																	Deepak Enterprises,Goa
32	21.01.2022	HWR-22/005			1									5.11					JK cement,Karnataka
33	24.01.2022	HWR-22/006																	Deepak Enterprises,Goa
34	27.01.2022	HWR-22/007			0.969									6.81					JK cement,Karnataka
35	29.01.2022	HWR-22/008																	Deepak Enterprises,Goa
36	31.01.2022	HWR-22/009			0.709									5.05					JK cement,Karnataka
37	04.02.2022	HWR-22/010	2.64	1.31															Deepak Enterprises,Goa
38	05.02.2022	HWR-22/011																	Ashutosh Industries, Goa
39	09.02.2022	HWR-22/012			1.201														Bana Refinery Pvt. Ltd. Kolhapur
40	10.02.2022	HWR-22/013																	Deepak Enterprises,Goa
41	18.02.2022	HWR-22/014			0.671									17.2					Rajlaxmi Enterprises, Gujarat
42	24.02.2022	HWR-22/015			0.896														Deepak Enterprises,Goa
43	02.03.2022	HWR-22/016			0.77														Deepak Enterprises,Goa
44	03.03.2022	HWR-22/017			1.26														Deepak Enterprises,Goa
45	04.03.2022	HWR-22/018	0.9																Deepak Enterprises,Goa
46	10.03.2022	HWR-22/019			0.88														Bana Refinery Pvt. Ltd. Kolhapur
47	12.03.2022	HWR-22/020			0.925														Deepak Enterprises,Goa
48	16.03.2022	HWR-22/021			0.682														Deepak Enterprises,Goa
49	16.03.2022	HWR-22/022			1.18														Deepak Enterprises,Goa
50	19.03.2022	HWR-22/023																	Deepak Enterprises,Goa
51	24.03.2022	HWR-22/024			0.508									22					Rajlaxmi Enterprises, Gujarat
52	29.03.2022	HWR-22/025			0.81														Deepak Enterprises,Goa
53	30.03.2022	HWR-22/026			0.973														Deepak Enterprises,Goa
54	31.03.2022	HWR-22/027																	Deepak Enterprises,Goa
55	31.03.2022	HWR-22/028						7.9						7.08					JK cement,Karnataka
TOTAL			3.54	3.12	31.721	0	0	7.9	0	0	0	0	0	190.35	0	0	0	0	JK cement,Karnataka
Consent quantity/A			24 MT	120 MT	70 MT	34 MT	35 MT	131 MT	0	0	0	0	0	190.35	0	0	4 T	5 T	
GRAND TOTAL									87 MT				938.1 MT		7.5 MT	4 T	5 T		
236.631																			

Annexure 5

Ambient Noise level - Oct-2021 to Mar-2022

Ambient Noise level Monitoring Report			
		Oct-21	Jan-22
		Noise in dB (A) leq (Day time)	Noise in dB (A) leq (Day time)
	Legal Limits	75	75
1	Near Main gate	58.9	58.7
2	Near Injection plant	55.7	55.2
3	Near Oxynex ST plant	55.2	55.6
4	Near Soft gel	57.1	57.5
5	Near GZ	59	58.7
6	Near boiler	71.2	71.4

Ambient Noise level Monitoring Report			
		Oct-21	Jan-22
		Noise in dB (A) leq (Night time)	Noise in dB (A) leq (Night time)
	Legal Limits	70	70
1	Near Main gate	53.2	53.6
2	Near Injection plant	50.8	51.2
3	Near Oxynex ST plant	51.5	51.7
4	Near Soft gel	50.3	50.9
5	Near GZ	50.4	50.5
6	Near boiler	66.8	66.6

Annexure 6

Site Ambient air quality report - Oct-2021 to Mar-2022

Month/ Parameters	PM10 µg/m ³	PM2.5 µg/m ³	SO2 µg/m ³	NOX µg/m ³	Ammonia (NH3) µg/m ³	CO µg/m ³	Lead (Pb) µg/m ³	Benzene(C6H6) µg/m ³	Arsenic (As) µg/m ³	Nickel(Ni) µg/m ³	O3 µg/m ³	Benzo(a) Pyrene Ng/M ³
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Oct-21	57.26	23.41	9.03	16.32	14	0.16	0.01	0.14	0.7	6	20	0.1
Jan-22	60.14	25.89	9.25	16.54	14	0.15	0.01	0.14	0.07	6	20	0.1
Annual Average	58.7	24.65	9.1400	16.4300	14	0.155	0.01	0.1400	0.3850	6.0000	20	0.1000

Ambient air quality report

Month/ Parameters	PM10 µg/m ³	PM2.5 µg/m ³	SO2 µg/m ³	NOX µg/m ³	Ammonia (NH3) µg/m ³	CO mg/m ³ (L)	Lead (Pb) µg/m ³	Benzene(C6H6) µg/m ³	Arsenic (As) µg/m ³	Nickel(Ni) µg/m ³	O3 µg/m ³	Benzo(a) Pyrene Ng/M ³
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Oct-21	61.37	25.28	8.84	15.93	14	0.15	0.01	0.14	0.7	6	20	0.1
Jan-22	62.85	26.93	8.94	16.28	14	0.15	0.01	0.14	0.7	6	20	0.1
Annual Average	62.11	26.11	8.89	16.11	14.00	0.15	0.01	0.14	0.70	6.00	20.00	0.10

Ambient air quality report

Month/ Parameters	PM10 µg/m ³	PM2.5 µg/m ³	SO2 µg/m ³	NOX µg/m ³	Ammonia (NH3) µg/m ³	CO mg/m ³ (L)	Lead (Pb) µg/m ³	Benzene(C6H6) µg/m ³	Arsenic (As) µg/m ³	Nickel(Ni) µg/m ³	O3 µg/m ³	Benzo(a) Pyrene Ng/M ³
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Oct-21	53.48	21.85	8.42	15.79	14	0.15	0.01	0.14	0.7	6	20	0.1
Jan-22	58.65	24.08	8.48	15.91	14	0.15	0.01	0.14	0.7	6	20	0.1
Annual Average	56.07	22.97	8.45	15.85	14.00	0.15	0.01	0.14	0.70	6.00	20.00	0.10

Near Softgel plant