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GP/PCB



To,
The Additional Chief Conservator of Forest (C),
Ministry of Environment, Forests & climate
change, 4th Floor, E&F Wing,
Kendriya Sadan, Koramangala,
Bangaluru-560 034.

Date : 25th Oct 2019
From : Director – Goa Plant
C. A. Menezes
Phone : 0832 – 2347101
E mail : menezes.c.1@pg.com
Letter no. : HSE/19/71

**Subject : Six monthly compliance reports (for the period
01.04.2019 to 30.09.2019)**

**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. Procter & Gamble Health Ltd (Formerly Merck Limited)–
Environmental Clearance reg.)**

Dear Sir,

We are sending herewith six-monthly compliance reports (for the period
01.04.2019 to 30.09.2019) for your kind perusal. We are also attaching
compilation of reports carried out during the period as annexures and CD
version of the report.

Please find below the other details required by you.

Name & contact details of the responsible person:

1. Name: Mr. C. A. Menezes, Director Goa Plant

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

Email: menezes.c.1@pg.com

Phone: 0832 2347101; 9823344052. Company Website: www.pg.com

Thanking you,

Yours faithfully,

For **PROCTER & GAMBLE HEALTH LIMITED**

C. A. Menezes

Director, Goa Plant – Procter & Gamble Health Limited

Encl: a/a

CC: 1. Additional Director (MoEF, New Delhi)

2. Goa State Pollution Control Board, Panaji

Procter & Gamble Health Limited

(Formerly known as Merck Limited)

CIN: L99999MH1967PLC013726

Registered Office: Godrej One, 8th Floor,

Pirojshanagar, Eastern Express Highway, Vikhroli East,

Mumbai 400 079 | Tel: (91-22) 6210 9800

www.pghealthindia.com

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**Six Monthly Compliance Report
(25.10.2019)**

For the Period of 1st April 2019 to 30th September 2019

Of

**Company Name: Procter & Gamble Health Limited
(Formerly Merck Ltd, Goa)**

Address: Plot No.11, Marwasodo, Usgaon, Ponda -Goa

Annex-1

A		SPECIFIC CONDITIONS	
Condition No	Points	Compliance Status for the Period of 1 st 01 st April 2019 to 30 th Sep 2019	
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 CPCB 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 <i>Annexure-1</i>	
ii)	The company shall provide guard pond for treated wastewater. Bioassay test and toxicity index test shall be carried out regularly for the waste water 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 Bio assay test (toxicity test) on monthly basis from MoEF approved lab. Compiled data of the same is attached herewith. Refer <i>Annexure -1</i> . In house testing for bioassay test & toxicity index test is done.	
iii)	The water requirement and waste water generation shall not exceed 707 KLD and 416 KLD respectively. The treated waste water 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 & waste water 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)	<u>For control of fugitive emission and VOCs following steps shall be followed: -</u>	
	A). Closed handling system shall be provided for chemicals.	Close handling system provided
	B). Reflux condenser shall be provided over reactor.	Reflux condenser is provided over reactor.
	C). Solvent handling pump shall be provided with mechanical seals to prevent leakages.	All the solvent handling pumps provided with mechanical seal.
	D). System of leak detection and repair of pump/pipeline based on preventive maintenance.	Solvent leak detection system in place. Developed Standard Operating Procedure for Preventive maintenance / repair is available.
	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.	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)	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.	Hazardous waste is handled and disposes as per Hazardous Waste Rule. Refer <i>Annexure - 4</i>
xi)	During transfer of materials, spillages shall be avoided, and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.	Bund wall has been made to protect the mixing of accidental spillages of domestic waste and storm drain.
xii)	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.	Total 18 acres green belt is developed out of total 37 acres area to mitigate the effluent discharge.
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. Budget for 2018: Rs. 76,94,169/- Budget for 2019: Rs. 1,20,88,825/-

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.	The company has received ISO 14001:2004 Certificate for Environmental Management System and OHSAS 18001:2007 certificate for Occupational Health and Safety Management System was Valid till November 2018 End For M/s Merck Ltd. And from Dec 2018 Company Merck Changed to Procter & Gamble Health Ltd and process of identification and implementation of OHSAS 18001 is under process. 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 follow 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 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)	The company shall undertake following Waste Minimization measures: -	
	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. 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).	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. Noise levels are monitored through calibrated Noise level meter and monitoring records are kept in Register. Refer Annexure -5
viii)		
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 (as per ISO 14001:2004 management system) headed by Directors and full fledge environmental laboratory facility is available.
x)	The project authorities shall provide rainwater harvesting system and ground water recharge.	Rain water harvesting pond for storing about 21600 KL is available for 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.
xii)	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.	Complied.
xiii)	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.	Complied.

6.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Maximum compliances are completed & we will maintain in future also.
7.0	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.	Maximum compliances are completed & we will maintain in future also.
8.0	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.	---
9.0	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.	All conditions are followed.

Annexure 1

Treated water analysis

Parameters	PH	COD	BOD	TSS	O&G	Sulphide as S ₂	phenolics compound	Hexavalent chromium as Cr+6	cyanide as CN*	Phosphate as P	Ammonical Nitrogen	As	Pb	Hg	Bio-Assay test
Limits	6 - 8.5	250mg/lit	30mg/lit	100mg/lit	10mg/lit	2mg/lit	1mg/lit	0.10mg/lit	0.10mg/lit	5mg/lit	Not Specified	0.20mg/lit	0.10mg/lit	0.01mg/lit	90% survival of fish after 96hrs in 100% effluent
Apr-19	7.67	104	15.72	52	2.2	<2	<0.02	<0.04	<0.01	2.32	1.12	<0.01	<0.01	<0.001	90% survival for 96hrs
May-19	7.53	88	13.32	49	2.6	<2.00	<0.02	<0.01	<0.01	<1.00	1.12	<0.01	<0.01	<0.001	90% survival for 96hrs
Jun-19	7.26	124	18.72	56	2.2	1.4	<0.02	<0.01	<0.01	<1.0	2.24	<0.01	<0.01	<0.001	90% survival for 96hrs
Jul-19	6.38	96	16.8	49	2	1.2	<0.02	<0.01	<0.01	3.52	2.8	<0.01	<0.01	<0.001	90% survival for 96hrs
Aug-19	6.88	104	18.34	41	2.4	1.4	<0.02	<0.01	<0.01	4.19	5.04	<0.01	<0.01	<0.001	90% survival for 96hrs
Sep-19	7.75	96	16.8	52	2	1	<0.02	<0.01	<0.01	2.89	7.28	<0.01	<0.01	<0.001	90% survival for 96hrs

Raw water analysis

Parameters	PH	COD mg/lit	BOD mg/lit	TSS mg/lit	O&G mg/lit
Apr-19	6.33	1880	600	356	6.6
May-19	6.49	1640	475	337	6.2
Jun-19	6.68	1560	440	349	6
Jul-19	6.73	1720	475	321	6.6
Aug-19	6.6	1560	420	307	6
Sep-19	6.71	1720	475	339	6.4

Annexure 2
Stack monitoring report

Process stack scrubber - OxyneX ST (S11)(Quarterly)	Parameters	VOC Cyclohexane	Heptane	HCl
	Units	Mg/m3		Mg/m3
	Apr-19	<0.2		1
Jul-19	<0.2		1.3	

Vitamin E scrubber (S13)(Quarterly)	Parameters	Acetic acid	Hexane
	Units	Mg/m3	Mg/m3
	Apr-19	<0.1	<0.1
Jul-19	<0.1	<0.1	

QC scrubber no 1 (S14)(Quarterly)	Parameters	Sulfuric Acid Mist	Hydrochloric Acid Mist	Nitric Acid Mist
	Units	Mg/m3	Mg/m3	Mg/m3
	Apr-19	<0.10	<0.10	<0.10
Jul-19	<0.10	<0.10	<0.10	

QC scrubber no 2 (S15)(Quarterly)	Parameters	Ether	Methanol
	Units	Mg/m3	Mg/m3
	Apr-19	<0.10	<0.10
Jul-19	<0.10	<0.10	

Dust collector 1 TDS (S16)(Quarterly)	Parameters	PM
	Units	Mg/Nm3
	Apr-19	18.44
Jul-19	20.11	

Dust collector 2 TDS (S17)(Quarterly)	Parameters	PM
	Units	Mg/Nm3
	Apr-19	25.89
Jul-19	32.66	

Dust collector 1 (VitE Dry powder & Food Premix)(Quarterly)	Parameters	PM
	Units	Mg/Nm3
	Apr-19	26.14
Jul-19	29.87	

Scrubber stack TDS (Quarterly)	Parameters	HCL
	Units	Mg/m3
	Apr-19	1.2
Jul-19	1.4	

DG set Stack- 500KVA(S9)(Quarterly)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.67kg/hour	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.13	0.58	0.14	0.07	0.05	9.1
Jul-19	0.13	0.48	0.14	0.07	0.05	10.1	

DG set Stack- 500KVA(S8)(Quarterly)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.67kg/hour	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.12	0.54	0.11	0.06	0.05	9.3
Jul-19	0.12	0.52	0.16	0.08	0.05	9	

DG set Stack new-500 KVA(Stack 1)(Quarterly)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.67kg/hour	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.12	0.36	0.16	0.08	0.04	9
Jul-19	0.1	0.31	0.15	0.07	0.04	9.4	

DG set (750KVA) (Stack 1) (sr.no. 07/1612/0423)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.15 Kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.11	0.35	0.18	0.08	0.05	9.2
Jul-19	0.15	0.45	0.19	0.09	0.05	9	

DG set (750KVA) (Stack 1) New (sr.no. 07/1612/0424)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.15 Kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.11	0.42	0.19	0.08	0.05	8.8
Jul-19	0.13	0.35	0.2	0.08	0.05	8.9	

Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
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DG set (750KVA) (Stack 2) New (sr.no. 07/1612/0424)	Limits	0.3 g/Kw-hr	3.15 Kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.13	0.4	0.18	0.1	0.04	9.2
	Jul-19	0.09	0.28	0.16	0.07	0.04	9.6

DG set (750KVA) (Stack 2) New (sr.no.07/1604/0014)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.15 kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.1	0.21	0.16	0.09	0.05	9.4
Jul-19	0.12	0.38	0.18	0.08	0.05	9.3	

DG set (750KVA) (Stack 1) New (sr.no.07/1604/0014)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.15 kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.11	0.39	0.17	0.08	0.05	9.2
Jul-19	0.1	0.34	0.16	0.07	0.05	10.6	

DG set (750KVA) (Stack 2) (sr.no.07/1612/0423)	Parameters	Particulate matter	SO2	NOx	CO	HC	CO2
	Limits	0.3 g/Kw-hr	3.15 kg/hr	9.2g/kw-hr	3.5g/kw-hr	1.3g/kw-hr	%
	Apr-19	0.13	0.32	0.14	0.06	0.05	9.4
Jul-19	0.11	0.18	0.13	0.08	0.05	9.5	

Boiler (6 TPH)	Parameters	Particulate matter	SO2
	Limits	800mg/Nm3	
	Apr-19	306.98	0.52
Jul-19	298.25	0.46	

Thermopac stack oxyxex ST S10	Parameters	Particulate matter	SO2
	limits	150mg/Nm3	1.44kg/hour
	Apr-19	31.22	0.45
Jul-19	28.74	0.4	

Annexure 3

Workplace monitoring report

April 2019/ Sep 2019

Parameter	VOC	HCL	NH3	HC
Apr-19	<0.20 ppm	<0.1 mg/m ³	<20.0 ug/m ³	<0.001 ppm
Sep-19	<0.20 ppm	<0.1 mg/m ³	<20.0 ug/m ³	<0.001 ppm

Parameter	Acetic acid	VOC
Apr-19	<0.006 ppm	<0.20 ppm
Sep-19	<0.006 ppm	<0.20 ppm

Parameter	PM10	PM2.5
Apr-19	0.12 mg/m ³	0.06 mg/m ³
Sep-19	0.10 mg/m ³	0.05 mg/m ³

Parameter	VOC
Apr-19	<0.20 ppm
Sep-19	<0.20 ppm

Parameter	PM10	PM2.5	SO2	NOX	CO	PHAS	Toluene/Xylene
Apr-19	0.11 mg/m ³	0.06 mg/m ³	<0.003 mg/m ³	<0.009 mg/m ³	0.06 mg/m ³	<0.001 ppm	<0.01 ppm
Sep-19	0.12 mg/m ³	0.07 mg/m ³	<0.003 mg/m ³	<0.009 mg/m ³	0.05 mg/m ³	<0.001 ppm	<0.01 ppm

Parameter	VOC
Apr-19	<0.2 ppm
Sep-19	<0.2 ppm

Parameter	PM10	PM2.5
Apr-19	0.10 mg/m ³	0.07 mg/m ³
Sep-19	0.11 mg/m ³	0.06 mg/m ³

Parameter	VOC	HCL	NH3	HC
Apr-19	<0.20 ppm	<0.1 mg/m ³	<20.00 ug/m ³	<0.001 ppm
Sep-19	<0.20 ppm	<0.1 mg/m ³	<20.00 ug/m ³	<0.001 ppm

Parameter	HC	HCL
Apr-19	<0.001 ppm	<0.1 mg/m ³
Sep-19	<0.001 ppm	<0.1 mg/m ³

Annexure 4

Haz Waste report

April 2019/ Sep 2019

Sr No	Date	Category	1		2		3		4		5		6		7		8				9		10		11		12								
			Useful/spent oil	Spent solvents	Discarded Containers/ Barrels/ Liners used for Hazardous Chemicals	Off specification Products	Date expired Products	Chemical sludge from ETP	DEHM Residue	Oxyac Foren	Spent solvents (Mother liquor residue)	DEHM Residue	Oxyac Residue	Spent acetic acid conc. & zinc salt mixture	Organic Oxygen compound (acetic acid)	Zinc dust	Spent Carbon from ETP	Spent Ionex Change Resign From DM Water Plant	Name of the Authorized party																
			5.1	20.2	33.1	28.4	28.5	35.3	28.6	28.1	6.2	28.3	35.2																						
1	25.04.2019	HWR-14/19						18.3																											
2	26.04.2019	HWR-15/19																																	
3	13.05.2019	HWR-16/19		1.46																															
4	23.05.2019	HWR-17/19																																	
5	31.05.2019	HWR-18/19	2																																
6	07.06.2019	HWR-18/19-A																																	
7	28.06.2019	HWR-19/19-A																																	
8	28.06.2019	HWR-19/19																																	
9	03.07.2019	HWR-20/19		1.48																															
10	24.07.2019	HWR-21/19		1.69																															
11	03.08.2019	HWR-22/19																																	
12	03.08.2019	HWR-23/19																																	
13	14.08.2019	HWR-24/19																																	
14	19.08.2019	HWR-25/19																																	
15	19.08.2019	HWR-26/19																																	
16	26.08.2019	HWR-27/19		1.51																															
17	29.08.2019	HWR-28/19	1																																
18	29.08.2019	HWR-29/19																																	
19	29.08.2019	HWR-30/19																																	
20	23.09.2019	HWR-31/19				5																													
21	25.09.2019	HWR-32/19				6.05																													
22	25.09.2019	HWR-33/19	1																																
23	26.09.2019	HWR-34/19																																	
			4	6.14	0	11.05	0	18.3	0	0	4.43	34.051	0	113	0	2.68	0	0	0	0	2.68	0	0	0	0	0	0	0	0	0	0	0	0	0	
		TOTAL	24 MT	120 MT	70 MT	34 MT	35 MT	131 MT	87 MT	938.4 MT	75 MT	4T	5T																						
		Consent quantity /A																																	
		GRAND TOTAL																																	

173.651

ANNEXURE 5

Ambient noise level monitoring report

	Sampling Location	Noise in dB (A) leq	Noise in dB (A) leq
		(Day time)	(Night time)
Apr-19	Near Main gate	55.2	50.6
	Near Injection plant	54.2	43.6
	Near OxyneX ST plant	55.8	49.7
	Near Soft gel	52.4	50.4
	Near GZ	51.9	52.6
	Near boiler	62.3	59.8

	Sampling Location	Noise in dB (A) leq	Noise in dB (A) leq
		(Day time)	(Night time)
Jul-19	Near Main gate	55.4	50.9
	Near Injection plant	53.8	44.2
	Near OxyneX ST plant	56.1	50.6
	Near Soft gel	53.2	49.8
	Near GZ	51.4	50.4
	Near boiler	63.1	59.3

Annexure 6

Site Ambient air quality report

Month/ Parameters	PM10	PM2.5	SO2	NOX	Ammonia (NH3)	CO	Lead (Pb)	Benzene(C6H6)	Arsenic (As)	Nicke(Ni)	O3	Benzo(a) Pyrene
	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3(L)	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	Ng/M3
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Apr-19	80.36	30.47	11.25	16.98	<20.00	0.09	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20
Jul-19	67.67	26.89	12.20	19.48	<20.00	0.10	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20

Near ETP

Ambient air quality report

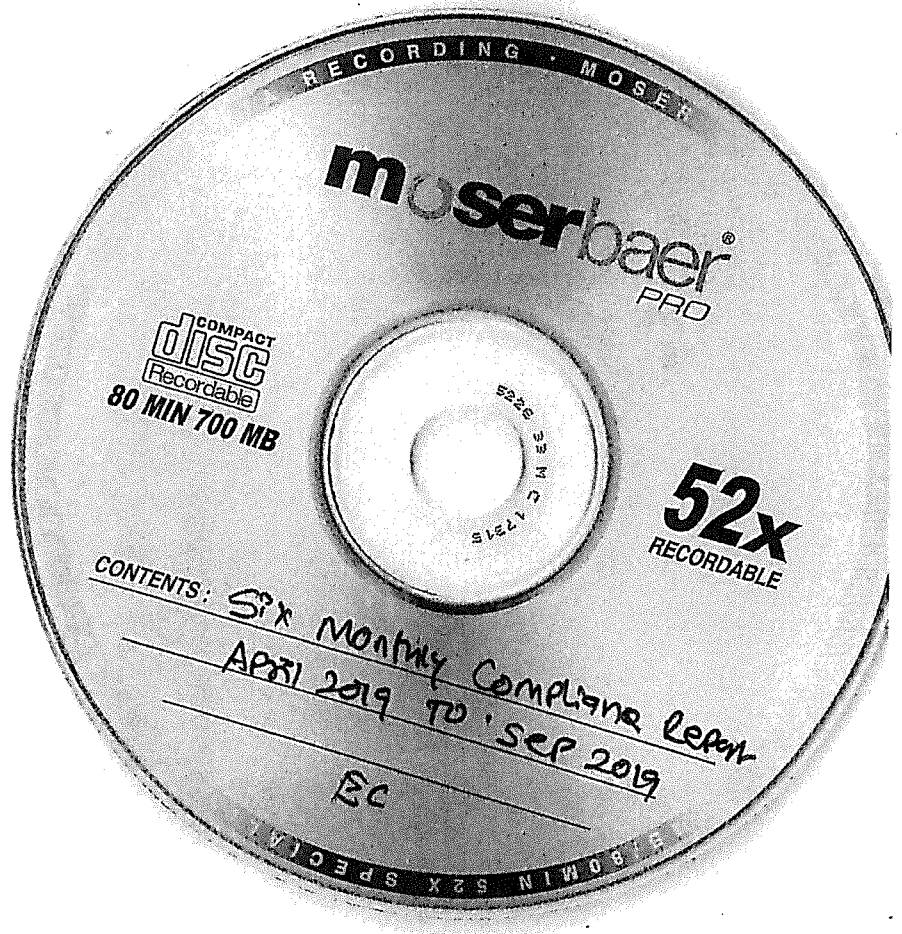
Month/ Parameters	PM10	PM2.5	SO2	NOX	Ammonia (NH3)	CO	Lead (Pb)	Benzene(C6H6)	Arsenic (As)	Nicke(Ni)	O3	Benzo(a) Pyrene
	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3(L)	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	Ng/M3
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Apr-19	75.22	27.98	9.12	14.78	<20.00	0.1	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20
Jul-19	79.82	29.56	7.81	11.69	<20.00	0.11	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20

Near Main
Security Gate

Ambient air quality report

Month/ Parameters	PM10	PM2.5	SO2	NOX	Ammonia (NH3)	CO	Lead (Pb)	Benzene(C6H6)	Arsenic (As)	Nicke(Ni)	O3	Benzo(a) Pyrene
	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3(L)	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	Ng/M3
Limits (For 24 Hrs)	100	60	80	80	400	4	1	5	6	20	180	1
Apr-19	72.63	28.14	10.69	15.47	<20.00	0.11	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20
Jul-19	73.26	27.14	16.89	23.32	<20.00	0.13	<0.10	<1.00	<5.00	<5.00	<20.00	<0.20

Near DCM plant





P&G

BLUE DART



AWB No # 36914301830

VGB/016376/MERCK LIMITED

Six Monthly EC Compliance Report

(For the period from 01.04.2019 to 30.09.2019)

To,

The Additional Principal Chief
Conservator of Forests (C), Ministry of
Environment, Forest and Climate Change,
4th floor, E & F wing, Kendriya Sadan,
Koramangala, Bengaluru – 560034.

If Undelivered Please return to:
Procter & Gamble Health Limited
(Formerly known as Merck Limited)
Godrej One, 8th Floor, Pirojshahnagar,
Eastern Express Highway, Vikhroli East,
Mumbai - 400 079, India



P&G

BLUE DART



Awb No # 36914301841

VEG/016576/MERCK LIMITED

Six Monthly EC Compliance Report

(For the period from 01.04.2019 to 30.09.2019)

**To,
The Additional Director,
Monitoring Cell,
Ministry of Environment & Forests,
Paryavaran Bhawan, CGO Complex,
Lodhi Road, New Delhi 100 003**

If Undelivered Please return to:
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Eastern Express Highway, Vikhroli East,
Mumbai - 400 079, India