



Counter No: 03/08/2018 11:22
 To: ZONAL OFFICER, C.P.C. BOARD
 PIN: 390023, Subhanpura GJ
 From: UPL LTD MIDC TARAPUR
 Dt: 27/08/18
 Amt: 70.00 (Cash) Tax: 10.00
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 (No: 1800 266 4848)

Zonal Baroda on 27/8/18

July 28, 2018

UPL Limited, Unit # 10
 Plot No. E-51/1, 51/2, 52, MIDC Notified Industrial Area,
 Tarapur, Boisar, Tal. & Dist. - Palghar, Maharashtra-401506

The Director
 Ministry of Environment, Forests & CC,
 The CCF Regional Office (WCZ),
 Western Region, Ground Floor, East Wing,
 New Secretariat Building Civil Line,
 Nagpur- 440001, Maharashtra.

Dear Sir;

Sub. :- Half Yearly compliance report to conditions of Environmental Clearance (January 2018 to June 2018)

Ref.: (1) EC obtained from MoEF & CC vide letter No # J-11011/712/2007-IA II (I) dated 15th April, 2008

We are submitting herewith the half yearly compliance report for period January to June 2018 (soft copy is also enclosed in the form of CD) to the Environmental Clearance obtained to M/s Punjab Chemicals and Crop Protection Ltd (PCCPL) (site was taken over by UPL Limited, Unit # 10 in March, 2014) vide letter # F. No. J-11011/712/2007-IA II (I) from MoEF & CC dated 15th April, 2008. We are operating our plants with valid Consents & Authorization obtained from Maharashtra Pollution Control Board.

Our Unit has implemented adequate Environmental Management System as per EMP/EIA. We are recycling our ETP treated water internally and there is no discharge to CETP, Tarapur since August 2017.

Thanking you.

Yours faithfully,

For, UPL Limited (Unit # 10)

Sharad Sankhe

Sharad Sankhe

Unit Head

Encl. : a/a

Copy to : The SRO, Boisar, Tarapur

: CPCB, Zonal Office , Baroda

c.c. Board

27/8/18

SUB - REGIONAL OFFICE/
 M.P.C. BOARD
 M.I.D.C. OFFICE COMPD;
 TARAPUR - 401 501.
 TAL. : DIST. - PALGHAR.

Page 1 of 1

Half Yearly Environmental Clearance Compliance Report for UPL Limited, Unit # 10, Tarapur, Maharashtra vide Environmental Clearance No. F. No. J-11011/712/2007-IA II (I), dated 15th April, 2008 for period January-June 2018

NO	CONDITIONS	COMPLIANCE STATUS																																	
2.	<p>The Ministry of Environment and Forests has examined the proposal and noted that the proposal is for environmental clearance for expansion of pesticides manufacturing unit at Plot No. 51/1, MIDC, Tarapur, Boisar, Thane, Maharashtra by M/s Punjab Chemicals and Crop Protection Ltd. The existing plot area is 13,500 Sq. m and an adjacent plot of 10,500 Sq. m is acquired for the proposed expansion. Total Cost of the project will be Rs. 16 Crores. The details of existing and proposed products are as follows:</p> <table border="1" data-bbox="167 562 865 1167"> <thead> <tr> <th data-bbox="167 562 245 594">No.</th> <th data-bbox="245 562 659 594">Name Of The Product</th> <th data-bbox="659 562 865 594">Capacity(MTM)</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="167 594 865 646" style="text-align: center;">Existing Products</td> </tr> <tr> <td data-bbox="167 646 245 699">1</td> <td data-bbox="245 646 659 699">Phosphorous Trichloride (PCL3)</td> <td data-bbox="659 646 865 699">175</td> </tr> <tr> <td data-bbox="167 699 245 751">2</td> <td data-bbox="245 699 659 751">Phosphorous Oxychloride (POCL3)</td> <td data-bbox="659 699 865 751">75</td> </tr> <tr> <td data-bbox="167 751 245 804">3</td> <td data-bbox="245 751 659 804">Phosphorous Acid (60% Solution)</td> <td data-bbox="659 751 865 804">12.5</td> </tr> <tr> <td data-bbox="167 804 245 898">4</td> <td data-bbox="245 804 659 898">Dipotassium Hydrogen Phosphate (DPHP)</td> <td data-bbox="659 804 865 898">12.5</td> </tr> <tr> <td data-bbox="167 898 245 951">5</td> <td data-bbox="245 898 659 951">Oxalyl Chloride</td> <td data-bbox="659 898 865 951">10.0</td> </tr> <tr> <td data-bbox="167 951 245 1003">6</td> <td data-bbox="245 951 659 1003">HCL</td> <td data-bbox="659 951 865 1003">300</td> </tr> <tr> <td colspan="3" data-bbox="167 1003 865 1056" style="text-align: center;">Proposed Products</td> </tr> <tr> <td data-bbox="167 1056 245 1108">7</td> <td data-bbox="245 1056 659 1108">Cypermethrine Acid Chloride</td> <td data-bbox="659 1056 865 1108">60</td> </tr> <tr> <td data-bbox="167 1108 245 1167">8</td> <td data-bbox="245 1108 659 1167">Acephate</td> <td data-bbox="659 1108 865 1167">75</td> </tr> </tbody> </table>	No.	Name Of The Product	Capacity(MTM)	Existing Products			1	Phosphorous Trichloride (PCL3)	175	2	Phosphorous Oxychloride (POCL3)	75	3	Phosphorous Acid (60% Solution)	12.5	4	Dipotassium Hydrogen Phosphate (DPHP)	12.5	5	Oxalyl Chloride	10.0	6	HCL	300	Proposed Products			7	Cypermethrine Acid Chloride	60	8	Acephate	75	<p>M/s Punjab Chemicals and Crop Protection Ltd (PCCPL) site was taken over by UPL Limited in March, 2014. Site taken over & land possession documents attached herewith as Annexure-3. Total 23454 Sq. m area is occupied by the unit. Through MPCB under the product mix change few products were deleted, few products capacity reduced & few new products were added and the unit have consent for the same received from MPCB vide consent No. Format 1.0/BO/AST/UAN No.0000019382/R/CC-1708000213 dated 05/08/2017 valid till 28/02/2019. Consent copy is attached herewith for your ready reference as Annexure-1 and copy of Environmental Clearance is attached as Annexure-10. Last six month production details is enclosed along with this report as Table-1. All production quantity is well within permissible limit.</p> <p>Complied.</p>
No.	Name Of The Product	Capacity(MTM)																																	
Existing Products																																			
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8	Acephate	75																																	
3.	<p>The Company will install a 4 MT / hr. boiler to meet the demands of both existing & proposed plant. The existing two boilers of 600 kg/hr capacity will be standby & the existing 1500 kgs/hr boiler will be dismantled. The boilers will have 36 and 30 m high stacks. Old DG set of 125 KVA will be replaced by new DG set of 250 KVA and will only be used in emergencies. Thus, there will be no additional fuel required in the proposed expansion. Three new scrubbers will be installed with process vents. HCl, SO₂, CL₂, CO/CO₂ generated from the process shall be scrubbed in appropriate scrubbers. Scrubber using chilled hexane & demister shall be provided for scrubbing of Isobutylene.</p>	<p>The unit has discarded boiler having capacity of 4 T/hr. Two old boilers of 600 kg/hr capacity (kept as standby) are replaced with new agro based boiler of 10 T/hr capacity. The unit has obtained valid CTO for 10 T/hr boiler from MPCB vide No # Format 1.0/BO/AS (T)/TN-5508-15/A/GEN-1449 dated 05/02/2015. We had dismantled boiler having capacity of 1500 kg/hr. The boiler height (for 10 TPH) is kept as 40 m. We have replaced 125 KVA DG Set with 500 KVA capacity which operates only in an emergency situation. No additional fuel consumption is consider for this change in DG set capacity. We have installed scrubbers as per product introduced. Appropriate scrubbers are provided to suppress the process stack emissions. The flue gas and process stack detail is as follows:</p> <table border="1" data-bbox="865 1654 1528 1852"> <thead> <tr> <th data-bbox="865 1654 935 1787">Sr · N o.</th> <th data-bbox="935 1654 1198 1787">Stack attached to</th> <th data-bbox="1198 1654 1349 1787">APCM System</th> <th data-bbox="1349 1654 1528 1787">Stack Height (m)</th> </tr> </thead> <tbody> <tr> <td data-bbox="865 1787 935 1852">1</td> <td data-bbox="935 1787 1198 1852">Boiler</td> <td data-bbox="1198 1787 1349 1852">Bag Filter- Dust</td> <td data-bbox="1349 1787 1528 1852">40</td> </tr> </tbody> </table>	Sr · N o.	Stack attached to	APCM System	Stack Height (m)	1	Boiler	Bag Filter- Dust	40																									
Sr · N o.	Stack attached to	APCM System	Stack Height (m)																																
1	Boiler	Bag Filter- Dust	40																																

			collection system	
2	PCL3-I	Scrubber	3 (above roof)	
3	PCL3-II	Scrubber	3 (above roof)	
4	Metribuzin Plant	Scrubber	3 (above roof)	
5	Ammonium Sulphate Plant	Scrubber	3 (above roof)	
6	DG Set (500 KVA)	Acoustic Enclosure	3.1 (above roof)	

We are not manufacturing any product from which isobutylene emission can occur. The stack analysis report of third party (Gadark Lab Pvt Ltd) is attached as **Annexure-2**. Summarized data for the period of Jan-2018 to June-2018 is as follows: All parameters are well within permissible limit. **Complied.**

Sr. No.	3 rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018)			MPCB Permissible Limit
	Stack Attached to	Parameter	Result	
1	Boiler-1	SPM (mg/nm ³)	68.4	150 (mg/nm ³)
		SO ₂ (kg/day)	54.13	236 (kg/day)
		NO _x (ppm)	12.0	Not Specified
2	D.G.Set (500 KVA)	SPM (mg/nm ³)	42.8	150 (mg/nm ³)
		SO ₂ (kg/day)	3.78	16 (kg/day)
		NO _x (ppm)	11.03	Not Specified
3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5 (kg/day)

4. The water (385.5 KLD) will be sourced from MIDC, Surya Water Reservoir. The waste water (44.9KLD) will be treated in a newly constructed 3 stage ETP before discharging into CETP Tarapur. Segregation of waste streams shall be carried out. Detoxification of waste stream using solvent extraction and hydrolysis shall be carried out. Domestic sewage will be treated with industrial effluent. Additional retention time for waste water shall be given for the degradation of Cypermethrine.
- We are drawing fresh water from Maharashtra Industrial development Corporation (MIDC), Surya Water Reservoir. Our water consumption is well within the limit prescribed by MPCB. Water cess return is also being submitted regularly. Avg water consumption is @ 108.8 KLD against Maharashtra Pollution Control Board (MPCB) permissible limit of 166.56 KLD for period Jan-June 2018. The copy of water-cess assessment is attached herewith as **Annexure-6**.
- Average effluent discharge is NIL (we are treating effluent internally and recycling back , no discharge since Aug 2017)against 38.1 KLD for period Jan-June 2018. All effluent streams are being treated in Effluent Treatment Plant (ETP). Biodegradable Effluent treatment plant consists of primary, Secondary and tertiary treatment; and all parameters are

well within limit. The treated effluent is discharged to the Common Effluent Treatment Plant (CETP) for further treatment. Whenever, any toxic effluent streams generate, is being detoxified using solvent extraction and hydrolysis treatment. Domestic sewage is collected in septic tank followed by soak-pit and mixed with Industrial effluent & treated in ETP along with the industrial effluent. We are not manufacturing Cypermethrine as on today. The detailed report is attached as **Annexure-2**. The treated effluent analysis report of third party (Gadark Lab Pvt Ltd) is as follows: All parameters are well within permissible limit.

Complied.

SR. No.	PARAMETERS	MPCB LIMITS	3 rd PARTY RESULTS (Gadark Lab Pvt Ltd) (Jan-June 2018)
			Result
1	pH	5.5 to 9.0	No discharge since Aug 2017
2	BOD (3 days at 27 C) (mg/l)	100	
3	COD (mg/l)	250	
4	Suspended Solid (mg/l)	100	
5	Oil & Grease (mg/l)	10	
6	Total Dissolved Solid (mg/l)	2100	
7	Phosphate (mg/l)	5	
8	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent	

5.	The Pesticides & pesticide specific intermediate (excluding formulation) are listed at 5(b) in the Schedule of EIA Notification, 2006 under " A" Category. The proposal was considered & appraised by EAC (I) in its 75 th meeting held during 28 th – 30 th November, 2007. No Public Consultation will be required as per Para 7 (i) III. Stage (3) (b) Public Consultation of EIA Notification 2006.	Noted
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6.	Based on the information provided to the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006 subject to the compliance of the following Specific & General Conditions.	Noted
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A. SPECIFIC CONDITIONS:

NO.	CONDITIONS	COMPLIANCE STATUS
(i)	The company shall comply with all the recommendation given in the hazard identification and risk assessment report with respect to all the chemicals.	All the recommendations with respect to Environment Management Plan and Risk Assessment are already implemented. Complied.
(ii)	The gaseous emissions (SO ₂ , NO _x , HCl, Cl ₂ , CO, HC and VOC) along with SPM & RSPM from various process 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 respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	We do quarterly process stack monitoring through third party (Gadark Lab Pvt Ltd) for all stacks and all parameters are within permissible limit prescribed by MPCB. Summarized stack monitoring data of Gadark Lab Pvt Ltd is given below: The detailed report is attached as Annexure-2 . Complied.

Sr. No.	3 rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018)			MPCB Permissible Limit
	Stack Attached to	Parameter	Result	
1	Boiler-1	SPM (mg/nm ³)	68.4	150 (mg/nm ³)
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		NO _x (ppm)	11.03	Not Specified
3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5 (kg/day)
(iii)	The company shall provide the monitoring arrangement with all the vents for monitoring of (SO ₂ , NO _x , HCl, CL ₂ , CO, HC & VOC) along with PM, SPM & RSPM & reports shall be submitted to the SPCB, CPCB & Ministry's Regional Office at Bhopal.		We do quarterly process stack monitoring through third party (Gadark Lab Pvt Ltd) for all stacks and all parameters are within permissible limit prescribed by MPCB. All reports are sent to SPCB, CPCB and Mistry's regional Office Nagpur, at within given time frame. Summarized monitoring data of Gadark Lab Pvt Ltd is given below: The detailed report is attached as Annexure-2 . Complied.	
Sr. No.	3 rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018)			MPCB Permissible Limit
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3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5 (kg/day)
(iv)	Standards notified for pesticides unit under the Environment (Protection) Act, 1986 & amended from time to time shall be followed by the Unit.		We are/will be implemented the amended pesticide sector's standards time to time whenever applicable. Complied.	

(v)	The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, CL ₂ , SO ₂ , etc. High efficiency scrubbers shall be provided with each reactor.	The height of the stacks is as per CPCB guidelines. Scrubber system is being provided to control process emission. Process emission external agency (Gadark Lab Pvt Ltd) result is attached in Annexure-2 . Complied.
(vi)	Water / Alkali two stage Scrubber systems, Mist Eliminator with Koch filter & wet scrubber with Mist Eliminator shall be installed for the boilers, Thermic fluid heater DG sets. The scrubbed water shall be sent to ETP for further treatment.	Air pollution from the installed boiler is controlled by efficient bag filter system. DG Sets are only for emergency power in case of power failure. Thermic fluid heater is discarded and not in use any more. The scrubbed water generated from the process scrubber is being sent to ETP for further treatment. Complied.
(vii)	The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs. The project authority shall ensure that the solvent recovery shall not be less than 95%.	Suitable chilling system is provided to secondary condenser for Volatile Organic carbon (VOC) emission control. Solvent recovery is above 96% from spent solvent and will be improved further. Complied.
(viii)	Solvent management shall be as follows:	
a.	Reactor shall be connected to chilled brine condenser system	Wherever required, the reactors are having the chilled brine condensers. Complied.
b.	Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	All the reactors & pumps are having suitable mechanical seals to prevent any leakages. Complied.
c.	The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	The condensers provided for solvent recovery are having 20% excess HTA to achieve more than 96% recovery. Complied.
d.	Solvents shall be stored in a separate space specified with all safety measures.	The solvents are stored in separate Underground (UG) tanks & required Chief Controller of Explosives (CCOE) license has been taken. All the required safety aspects are being incorporated. Complied.
e.	Proper earthing shall be provided to all the electrical equipment wherever solvent handling is done.	Proper earthing with jumpers, cathodic protection to the UG solvent tanks are provided. Complied.
f.	Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Total plant has flame proof electrical installations. Suitable breather valves are also provided at the vents of the solvent tanks. Complied.
(ix)	Fugitive emissions in the work zone environment, product, raw materials storage area, etc. shall be regularly monitored. The emissions shall conform to the limits imposed by MPCB.	Fugitive emission is controlled by using seal-less pumps for toxic chemicals, flange-guards, mechanical seals for pumps and reactors etc. Complied.
(x)	For control of fugitive emission and VOCs following steps shall be followed:	
a.	Closed handling system shall be provided for chemicals.	All the chemicals are handled through closed systems only. Complied.
b.	Reflux condenser shall be provided over reducer.	Wherever required suitable reflux condensers are provided on reducer. Complied.
c.	Solvent handling pump shall be provided with mechanical seals to prevent leakages.	All the chemical handling pumps are provided with suitable mechanical seals & are also safe guarded with pressure switches & micro MPD for dry run protection. Complied.

d.	System of leak detection and repair of pump / pipeline based on preventive maintenance.	We work on SAP system & the system has full-fledged inbuilt preventive maintenance system. Complied.
e.	Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver & condenser operated on chilled water.	The solvents are transferred to reactors through close pipelines only. Suitable breather valves are provided at the vents. Complied.
(xi)	Use of toxic solvents like Methylene Chloride (MC) etc. shall be minimized to the extent possible. Benzene shall not be used as solvent and no odorous compounds / gas like Mercaptants or Hydrogen Sulfide shall be used or formed in any of reactions at the site.	Presently no chemicals like methylene chloride is being used in manufacturing activities. We are not using benzene as the solvent. We also do not have reactions which forms odorous compounds / gases like Mercaptants etc. Complied.
(xii)	Bioassay test and toxicity index shall be carried out regularly for the waste water before & after treatment.	We do bio-assay / Toxicity Factor (TF) test through third party and all parameters are well within permissible limit of MPCB. Complied.
(xiii)	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N2 blanketing, and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps / agitators for reactors for reduction of fugitive emissions. Chilled brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary	At present, we do not store any raw materials/solvents which required to be stored under negative pressure. However, Nitrogen blanketing is used for certain material storages. Breather valves are provided for solvent storages wherever necessary. Closed handling system is also used. Magnetic seals/Seal-less pumps are used for hazardous/toxic chemical handling. Solvent traps/ Condensers are provided. Suitable chilling system is provided in secondary condenser for VOC emission control. Complied.
(xiv)	All venting equipment shall have vapour recovery system. All the pumps & other equipment's where there is a likelihood of HC leakages shall be provided with Leak Detection & Repair (LDAR) system and LEL indicators & Hydrocarbon detectors. Provision for immediate isolation of such equipment in case of leakage will also be made. The company shall provide a well-defined Leak Detection & Repair (LDAR) program for quantification & control of fugitive emissions. The detectors sensitivity will be in ppm levels.	All venting of equipment are connected to condensers/ process Scrubbers to scrub excess vapour. LDAR (Leak Detection And Repairs) system is being followed to reduce VOC / HC emission. We also monitor LEL through LEL meter. In addition, on line sensors are provided with alarm system for hazardous chemicals like CL2, Bromine, Methanol and Methyl Bromide etc. Usage of seal less pumps for toxic chemicals. Mechanical seals for certain reactors. Regular inspections are carried out with reference to plant operations like Pumps, Valves, Pipes etc, as per maintenance software (SAP). Complied.
(xv)	The project authority shall install effluent treatment plant to treat the waste water up to the inlet norms of the CETP & shall obtain the membership of CETP for disposal of treated effluent & copy of the same shall be submitted to the Ministry & Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.	We have Effluent Treatment Plant having capacity of 50 KLD with Primary, Secondary & tertiary treatment systems. We have obtained a membership from MIDC, CETP to discharge treated effluent. The copy of the Certificate is attached herewith for your ready reference. Complied.
(xvi)	The Additional Chemical sludge from ETP (300 TPA), Distillation Residue (117 TPA) & Off-specification & discarded products shall be sent to MWML, Talaja for disposal. Cupric Chloride Catalyst (6.48 TPA) & discarded drums / bags (4500 Nos. / Year) shall be sold to authorized recyclers.	We are member of Mumbai Waste Management limited (MWML) (Membership No. as TAR-1109 valid till 31 st March, 2020 is enclosed as Annexure-9) and generated Solid/Hazardous wastes are being disposed of regularly to MWML for landfilling and incineration. Membership certificate is attached along with report. We also submit annual Hazardous Waste Return to authorities. We do not generate any Cupric chloride catalyst and decontaminated drums are being sold to scrap processor only. Complied.

(xvii)	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.	We are taking extreme care while transferring / charging of any material. Garland drains are provided surrounding the plants to avoid storm water contamination. Complied.
(xviii)	The company shall make adequate arrangement for control of odour nuisance from the plant premises.	We are not using any odorous compound in the unit. Complied.
(xix)	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Funds so earmarked shall not be diverted for any other purposes.	The list of expenditures made for environmental mitigation measures is attached in the report and submitted to the Ministry & state level authorities every six monthly. The total investment for environmental protection measures at the site is INR 0.8 Crores (80 Lacs) Complied.
(xx)	Occupational health surveillance of the workers shall be done on a regular basis & records maintained as per the Factories Act.	The company is having medical doctor and Occupational Health Center. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency every year. All medical records are being maintained. A sample copy is enclosed for your ready reference as Annexure-4. Complied.
(xxi)	The company shall make the arrangement of protection of possible fire hazards during manufacturing process in material handling.	Adequate fire extinguishers & fire hydrant system is installed & maintained. Complied.
(xxii)	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 examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	We provide regular training & re-training to all employees for the safety & health aspects of various chemicals handled. The Unit has initiated the process to obtain OHSAS-18001 Management System (final offer for OHSAS 18001 is attached as Annexure-8). Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency every year. All medical records are being maintained. Proper training for handling of chemicals is being given time to time to employees. Complied.
(xxiii)	Usage of PPEs by all employees / workers shall be ensured.	Proper Personal Protective Equipment (PPE's) are given to all employees and workers. Complied.
(xxiv)	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	All points included in the CREP has been implemented. Details are provided as Annexure-5. Complied.
B	GENERAL CONDITIONS :	
NO.	CONDITIONS	COMPLIANCE STATUS
(i)	The project authorities shall strictly adhere to the stipulations of the SPCB / State Government or any statutory body.	All norms (for treated waste water, air emission, noise pollution, ambient air pollution) given by SPCB/ any statutory body are being followed strictly. Complied
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF. 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.	The Unit has not done any modification OR expansion without getting prior approval from the Ministry. Valid EC/NOC/CC&A received from the Government Authorities for any expansion OR modification. Complied.
(iii)	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	We are complying with the MSIHC Rules 1989 as amended and Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. We have obtained valid Authorization from SPCB vide letter no. Format 1.0/BO/AST/UAN No.0000019382/R/CC-1708000213 dtd.

		05/08/2017 valid till 28/02/2019. Consent copy is attached herewith for your ready reference as Annexure-1. Complied.			
(iv)	Ambient air quality monitoring stations shall be set up in the downwind directions as well as where maximum ground level Concentrations are anticipated in consultation with the State Pollution Control Board.	We do quarterly Ambient air monitoring through third party (Gadark Lab Pvt. Ltd). All parameters are well within prescribed limit given by MPCB. Summarized report of Gadark Lab Pvt. Ltd is as follows: Complied.			
		3rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018) in µg/m3			
	Parameter	Unit	Near Assembly Point No. 2	Near Main Gate	
				MPCB Permissible Limit in µg/m3	
	PM10	µg/m3	56.8	60.2	100
	PM2.5	µg/m3	26.4	28.6	60
	SOX	µg/m3	28.8	31.6	80
	NOX	µg/m3	33.7	35.3	80
	CO	µg/m3	1.21	1.27	2.0 mg/m3 for 8 hrs
	Lead	µg/m3	<0.01	<0.01	1
	Ozone	µg/m3	<20	<20	100 for 8 hrs
	Ammonia	µg/m3	<14	<14	400
	Benzene	µg/m3	<0.14	<0.14	5
	Benzo Pyrene	µg/m3	<1	<1	1
	Arsenic	µg/m3	<0.7	<0.7	6
	Nickel	µg/m3	<6.0	<6	20
(v)	For control of process emissions, stacks of appropriate height as per the CPCB guidelines shall be provided. The scrubbed water shall be sent to ETP for treatment.	Proper height is provided to all process and flue gas stacks as per CPCB guidelines. All effluent streams along with scrubbed water are being treated in Effluent Treatment Plant (ETP). Biodegradable Effluent treatment plant consists of primary, Secondary and tertiary treatment; and all parameters are well within limit prescribed by CPCB. The treated effluent is recycled back for reusing & no discharge to CETP Complied.			
		SR. No.	PARAMETERS	MPCB LIMITS	3rd PARTY RESULTS (Gadark Lab Pvt Ltd) (Jan-June 2018)
					Result
		1	pH	5.5 to 9.0	No discharge to CETP
		2	BOD (3 days at 27 C) (mg/l)	100	
		3	COD (mg/l)	250	
		4	Suspended Solid (mg/l)	100	
		5	Oil & Grease (mg/l)	10	
		6	Total Dissolved Solid (mg/l)	2100	
		7	Phosphate (mg/l)	5	

	8	Bio-assay test	90% survival of fish after 96 hrs in 100% effluent																															
(vi)	The company shall undertake following Waste Minimization measures :- Metering of quantities of active ingredients to minimize waste. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. Maximizing recoveries. Use of automated material transfer system to minimize spillage. Use of "Closed Feed" system into batch reactors.		All the ingredients at various stages are controlled & yield / efficiencies are measured at the source and disposal point. Wherever possible, the by-products are recycled back. We have implemented atomization in material transferring wherever possible. We have used closed loop feed system wherever possible. Complied.																															
(vii)	The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes Management & Handling Rules, 2003. Authorization from SPCB shall be obtained for collections / treatment/ storage / disposal of hazardous wastes.		We are complying with Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. We have obtained valid Authorization from SPCB vide letter no. Format 1.0/BO/AST/UAN No.0000019382/R/CC-1708000213 dtd. 05/08/2017 valid till 28/02/2019 for collection; treatment; storage and disposal. Consent copy is attached herewith for your ready reference as Annexure-1 . Hazardous waste disposal details is enclosed as Table-5 . Complied.																															
(viii)	The overall noise levels in and around the plant area shall be kept well within 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) & 70 dBA (night time).		Noise monitoring is being done once in quarter through third party (Gadark Lab Pvt. Ltd). Ear muffs & ear plugs are provided to the person working in high noise area like compressor, boiler area. Acoustic enclosures are also provided. The detailed report is attached as Annexure-2 . Summarized noise monitoring report of third party (Gadark Lab Pvt Ltd) is as follows: All parameters are well within permissible limit. Complied.																															
	<table border="1"> <thead> <tr> <th rowspan="2">Sr No.</th> <th rowspan="2">Location</th> <th colspan="2">3rd Party Results (Gadark Lab Pvt Ltd) in dB (A) (Period: Jan-June 2018)</th> </tr> <tr> <th>Day Time</th> <th>Night Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Admin Office</td> <td>61.3</td> <td>55.9</td> </tr> <tr> <td>2</td> <td>Main Gate Security cabin</td> <td>64.5</td> <td>56.2</td> </tr> <tr> <td>3</td> <td>Boiler Area</td> <td>73.8</td> <td>66.1</td> </tr> <tr> <td>4</td> <td>Plant Area</td> <td>74.2</td> <td>68.5</td> </tr> <tr> <td>5</td> <td>Assembly Point no. 2</td> <td>66.5</td> <td>61.3</td> </tr> <tr> <td colspan="2">MPCB Permissible Limit in dB (A)</td> <td>75</td> <td>70</td> </tr> </tbody> </table>		Sr No.	Location	3rd Party Results (Gadark Lab Pvt Ltd) in dB (A) (Period: Jan-June 2018)		Day Time	Night Time	1	Admin Office	61.3	55.9	2	Main Gate Security cabin	64.5	56.2	3	Boiler Area	73.8	66.1	4	Plant Area	74.2	68.5	5	Assembly Point no. 2	66.5	61.3	MPCB Permissible Limit in dB (A)		75	70		
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(ix)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management & monitoring functions.		We have separate Environmental Management Cell. Additionally, Company has Green Cell department working exclusively on improving in environmental performance by converting waste streams into valuable products, improving ETP performance etc. Stack Monitoring, Bio Assay Test, Ambient Air Monitoring, Solid Waste Analysis, Noise Level Monitoring are carried out by third party (Gadark Lab Pvt. Ltd) and effluent analysis is done in our full-fledged internal laboratory as well as through third party. Complied.																															
(x)	The project authorities shall provide rainwater harvesting system & ground water recharge.		We have implemented rain water harvesting system at various locations i.e. admin block, security cabin etc. However, borewell and ground water recharge is strictly prohibited in MIDC Notified Industrial Area. Complied.																															

(xi)	The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.	The unit has developed total approx.. 1240 sq m of green belt within the factory premises. Due to constraint of area for tree plantation, we have adopted a crematorium (approx.. land area of 1000 sq. m) opposite to our site for tree plantation development. In addition, as part of CSR activity, we are doing tree plantation and the plantation area is located within 5 kms from the plant site (CSR planning & details for next 5 years is enclosed as Annexure-7). Complied.
(xii)	The implementation of the project vis-a-vis environmental action plans shall be monitored by Ministry's Regional Office / SPCB / CPCB. A six monthly compliance report shall be submitted to monitoring agencies.	We are submitting six monthly EC compliance reports to the authorities regularly. Complied.
(xiii)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry & copies of the clearance letter are available with SPCB & may also be seen at Website of the Ministry at 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 concerned & a copy of the same shall be forwarded to the Ministry's Regional office.	M/s Punjab Chemicals was taken over by M/s UPL Limited in March 2014. The land possession & site taken over document is attached herewith for your kind perusal as Annexure-3 . Complied.
(xiv)	The Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure & final approval of the project by the concerned authorities & the date of the project.	M/s Punjab Chemicals was taken over by M/s UPL Limited in March 2014. We are giving details of the projects implemented along with the half yearly report. We are giving below the details of the projects implemented. Complied.
7.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
8.	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted.
9.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if referred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Noted.
10.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules , 2003 and the Public Liability Insurance Act , 1991 along with their amendments and rules	Noted.

Table-1: Production Detail (Jan-June 2018)

Month	Product Name	MPCB Permissible Limit (MT)	Production (MT)
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Jan'18	Metribuzin	135	134.2
Feb'18		135	134
March'18		135	133.8
April'18		135	135
May'18		135	133
June'18		135	135

Table-2: Stack Monitoring Detail (Jan-June 2018)

Sr. No.	3 rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018)			MPCB Permissible Limit
	Stack Attached to	Parameter	Result	
1	Boiler-1	SPM (mg/nm3)	68.4	150 (mg/nm3)
		SO2 (kg/day)	54.13	236 (kg/day)
		NOx (ppm)	12.0	Not Specified
2	D.G.Set (500 KVA)	SPM (mg/nm3)	42.8	150 (mg/nm3)
		SO2 (kg/day)	3.78	16 (kg/day)
		NOx (ppm)	11.03	Not Specified
3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5 (kg/day)

Table-3: Ambient Air Monitoring Detail (Jan-June 2018)

Parameter	3 rd Party Results (Gadark Lab Pvt Ltd) (Jan-June 2018) in µg/m3			MPCB Permissible Limit in µg/m3
	Unit	Near Assembly Point No. 2	Near Main Gate	
PM10	µg/m3	56.8	60.2	100
PM2.5	µg/m3	26.4	28.6	60
SOX	µg/m3	28.8	31.6	80
NOX	µg/m3	33.7	35.3	80
CO	µg/m3	1.21	1.27	2.0 mg/m3 for 8 hrs
Lead	µg/m3	<0.01	<0.01	1
Ozone	µg/m3	<20	<20	100 for 8 hrs

Ammonia	µg/m ³	<14	<14	400
Benzene	µg/m ³	<0.14	<0.14	5
Benzo Pyrene	µg/m ³	<1	<1	1
Arsenic	µg/m ³	<0.7	<0.7	6
Nickel	µg/m ³	<6.0	<6	20

Table-4: Noise Monitoring Detail (Jan-June 2018)

Sr No.	Location	3rd Party Results (Gadark Lab Pvt Ltd) in dB (A) (Period: Jan-June 2018)	
		Day Time	Night Time
1	Admin Office	61.3	55.9
2	Main Gate Security cabin	64.5	56.2
3	Boiler Area	73.8	66.1
4	Plant Area	74.2	68.5
5	Assembly Point no. 2	66.5	61.3
MPCB Permissible Limit in dB (A)		75	70

Table-5: Hazardous Waste Detail (Jan-June 2018)

MONTH	WASTE DESCRIPTION	OPENING STOCK(MT)	GENERATION (MT)	DISPOSAL TO MWML (MT)	CLOSING STOCK (MT)
Jan-18	Landfilling	28.6	128.48	112.36	44.72
	Incineration	5.09	9.71	7.71	7.09
Feb-18	Landfilling	44.72	110.62	102.82	52.52
	Incineration	7.02	4.31	6.31	5.02
Mar-18	Landfilling	21.4	127.49	127.49	21.4
	Incineration	5.09	16.81	16.81	5.09
Apr-18	Landfilling	21.4	135.38	95.38	61.4
	Incineration	5.09	16.34	16.34	5.09
May-18	Landfilling	58.4	100.93	135.93	23.4
	Incineration	5.09	8.04	8.04	5.09
June-18	Landfilling	58.4	119.063	135.453	42.01
	Incineration	5.09	8.23	8.23	5.09

Details of effluent quantity generated and treated in Evaporator		
Month	Effluent quantity (KL/day)	Effluent quantity (KL/Month)
Jan-18	30.73	952.82
Feb-18	33.97	951.4
Mar-18	30.64	949.98
Apr-18	31.95	958.5

Details of effluent quantity generated and treated in Evaporator		
Month	Effluent quantity (KL/day)	Effluent quantity (KL/Month)
May-18	30.46	944.3
June-18	31.47	944.3

Details of water consumption		
Month	Water consumption quantity (KL/day)	Water consumption quantity (KL/Month)
Jan-18	97.84	3033
Feb-18	113.21	3170
Mar-18	117	3650
Apr-18	109.83	3295
May-18	117	3650
June-18	96.76	2903