

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 July - December 2016

SR 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>	<p>M/s Punjab Chemicals and Crop Protection Ltd (PCCPL) site was taken over by UPL Limited on 14th March, 2014. Site taken over documents attached herewith as Annexure-3. 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 recd. from MPCB vide consent No. Format 1.0/BO/AS(T)/TN-5605-15/A/GEN-9563 dated 30/07/16 valid till 28/02/2017. Current Consent copy is attached herewith for your ready reference as Annexure-1. Unit has applied for Consent renewal to MPCB vide application no. UPL/MPCB-AS (T)/2016-17/009 dated 14th Jan 2017. Consent application file is under process with MPCB. Complied.</p>																																	
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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>A new application was filed by UPL for changing of boiler, wherein 2 old boilers of 600 kg/hr(kept as standby)are removed, a new 10 T/hr. of agro based boiler was installed & the existing 4 T/hr. boiler was kept as standby. Amended Consent No. Format 1.0/BO/AS(T)/TN-5508-15/A/GEN-1449 dated 05/02/2015 is attached herewith for your ready reference as Annexure-1. DG set is used only in emergency. We have installed a caustic scrubber to the reactor and scrubbed water is sent to ETP for further treatment. Complied.</p>																																	
4.	<p>The water (385.5 KLD) will be sourced from MIDC, Surya Water Reservoir. The waste water (44.9 KLD) 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</p>	<p>We are drawing fresh water from 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 @ 70.91 KLD against MPCB permissible limit of 166.56 KLD for period July-</p>																																	

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.

Dec 2016. The copy of water-cess assessment is attached herewith as Annexure-6.

Average effluent discharge @ 11.64 KLD against 38.1 KLD for period July-December 2016. All effluent streams are being treated in 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 CETP for further treatment. All toxic effluent streams are being detoxified using solvent extraction and hydrolysis treatment. Domestic water is also being mixed with Industrial effluent & treated in ETP along with the industrial effluent. We are not manufacturing Cypermethrin as on today.

SR. No.	PARAMETERS	MPCB PERMISSIBLE LIMIT	3 rd PARTY RESULTS (Jul-Dec 2016)
1	pH	5.5 to 9.0	7.34
2	COD (mg/L)	250	106
3	SS (mg/L)	100	22
4	Total Dissolved Solid (mg/L)	2100	754
5	BOD 3 days (mg/L)	30	26

All parameters are well within limit prescribed by MPCB. The detail report is attached as Annexure-2.

Complied.

5. The pesticides and pesticides 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 75th meeting held during 28th – 30th November, 2007. No Public Consultation will be required as per Para 7 (i) III. Stage (3) (b) Public Consultation of EIA Notification 2006.

Noted.

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.

A. SPECIFIC CONDITIONS:

SR NO.	CONDITIONS
(i)	All the recommendations with respect to Environment Management Plan and Risk Assessment have been implemented. Health and Safety – implemented OHSAS 18001, Risk Mitigation measures are implemented. On Site Emergency Plan updated – mock drills are conducted regularly.
(ii)	The gaseous emissions (SO ₂ , NO _X , HCl, Cl ₂ , CO, HC and VOC)

COMPLIANCE STATUS
All the recommendations with respect to Environment Management Plan and Risk Assessment have been implemented. Risk Mitigation measures are implemented. On Site Emergency Plan updated – mock drills are conducted regularly.

Complied.

We do quarterly process stack monitoring through third party (Gadark

	<p>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</p> <p>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.</p>	<p>Lab pvt Ltd) for all stacks and all parameters are within permissible limit prescribed by MPCB. Summarized monitoring data of Gadark Lab pvt Ltd is given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Stack Attached to</th> <th>Parameter</th> <th>Monitoring Result</th> <th>MPCB Permissible Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">Boiler-1</td> <td>SPM (mg/nm3)</td> <td>77.8</td> <td>150</td> </tr> <tr> <td>Sox (kg/day)</td> <td>34.08</td> <td>236</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">D.G.Set (500 KVA)</td> <td>SPM (mg/nm3)</td> <td>44.3</td> <td>150</td> </tr> <tr> <td>Sox (kg/day)</td> <td>2.93</td> <td>16</td> </tr> <tr> <td>3</td> <td>Caustic Scrubber of Metribuzine Plant</td> <td>HBr (kg/day)</td> <td>Not Detected</td> <td>5</td> </tr> </tbody> </table> <p>The detail report is attached as Annexure-2.</p> <p>Complied.</p>	Sr. No.	Stack Attached to	Parameter	Monitoring Result	MPCB Permissible Limit	1	Boiler-1	SPM (mg/nm3)	77.8	150	Sox (kg/day)	34.08	236	2	D.G.Set (500 KVA)	SPM (mg/nm3)	44.3	150	Sox (kg/day)	2.93	16	3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5
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(iii)	<p>The company shall provide the monitoring arrangement with all the vents for monitoring of (SO₂, NO_x, HCl, CL₂, CO, HC & VOC) along with PM, SPM & RSPM & reports shall be submitted to the SPCB, CPCB & Ministry's Regional Office at Bhopal.</p>	<p>We do quarterly process stack & ambient air monitoring through third party (Gadark Lab pvt Ltd) for all stacks and all parameters are within permissible limit prescribed by MPCB. Summarized monitoring data of Gadark Lab pvt Ltd is as given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Stack Attached to</th> <th>Parameter</th> <th>Monitoring Result</th> <th>MPCB Permissible Limit</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2">Boiler-1</td> <td>SPM (mg/nm3)</td> <td>77.8</td> <td>150</td> </tr> <tr> <td>Sox (kg/day)</td> <td>34.08</td> <td>236</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">D.G.Set (500 KVA)</td> <td>SPM (mg/nm3)</td> <td>44.3</td> <td>150</td> </tr> <tr> <td>Sox (kg/day)</td> <td>2.93</td> <td>16</td> </tr> <tr> <td>3</td> <td>Caustic Scrubber of Metribuzine Plant</td> <td>HBr (kg/day)</td> <td>Not Detected</td> <td>5</td> </tr> </tbody> </table> <p>The detail report is attached as Annexure-2.</p> <p>Complied.</p>	Sr. No.	Stack Attached to	Parameter	Monitoring Result	MPCB Permissible Limit	1	Boiler-1	SPM (mg/nm3)	77.8	150	Sox (kg/day)	34.08	236	2	D.G.Set (500 KVA)	SPM (mg/nm3)	44.3	150	Sox (kg/day)	2.93	16	3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5
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(iv)	<p>Standards notified for pesticides unit under the Environment (Protection) Act, 1986 & amended from time to time shall be followed by the Unit.</p>	<p>We will implement the amended pesticide sector's standards time to time whenever applicable.</p> <p>Complied.</p>																										
(v)	<p>The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, CL₂, SO₂, etc. High efficiency scrubbers shall be provided with each reactor.</p>	<p>The height of the stacks is as per CPCB guidelines. Separate scrubber system is being provided for each reactor.</p> <p>Complied.</p>																										
(vi)	<p>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.</p>	<p>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 each process scrubber is being sent to ETP for further treatment.</p> <p>Complied.</p>																										

(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 VOC emission control. Solvent recovery is above 96% from spent solvent and will be improved further. Complied.
(viii)	Solvent management shall be as follows:	Complied.
A.	Reactor shall be connected to chilled brine condenser system	Wherever required, the reactors are having the chilled brine condensers.
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.
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.
D.	Solvents shall be stored in a separate space specified with all safety measures.	The solvents are stored in separate UG tanks & required CCOE license has been taken. All the required safety aspects are being incorporated.
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.
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.
(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:	Complied.
A.	Closed handling system shall be provided for chemicals.	All the chemicals are handled through closed systems only.
B.	Reflux condenser shall be provided over reducer.	Wherever required suitable reflux condensers are provided on reactors.
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.
D.	System of leak detection and repair of pump / pipeline based on preventive maintenance.	We work on SAP system & the system is full-fledged inbuilt preventive maintenance system.
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	The solvents are transferred to reactors through close pipelines only. Suitable breather valves are provided at the vents.
(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 Mercaptans 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 Mercaptans etc. Complied.
(xii)	Bioassay test and toxicity index shall be carried out regularly for the waste water before & after treatment.	We do bio-assay and 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. Mechanical seals will	Nitrogen blanketing is used for certain material storages. Breather valves are provided for solvent storages wherever necessary. Closed handling system is also used. 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

	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	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, 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 51 KLD with Primary, Secondary & tertiary treatment systems. We have obtained a membership from MIDC, CETP to discharged 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, Taloja for disposal. Cupric Chloride Catalyst (6.48 TPA) & discarded drums / bags (4500 Nos. / Year) shall be sold to authorized recyclers.	We are member of MWML (Membership No. as TAR-1109) and generated Solid/Hazardous wastes are being disposed off regularly to MWML. 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 Rs. 80 Lacs as on today. 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 full time medical doctor and Occupational Health & Safety. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency once in two years. 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	Adequate fire extinguishers & fire hydrant system is installed & maintained.

	material handling.	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. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency once in two years. All medical records are being maintained. Complied.
(xxiii)	Usage of PPEs by all employees / workers shall be ensured.	Proper 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 attachment. Complied.

B. GENERAL CONDITIONS:

SR 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 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 to the MSIHC Rules and Hazardous waste (Management, Handling & transboundary Movement) rule 2008. We have obtained Authorization from SPCB vide letter no. 1.0/BO/AS(T)/TN-5605-15/A/GEN-9563 dated 30/07/16 valid till 28/02/2017 . Unit has applied for Consent renewal to MPCB vide application no. UPL/MPCB-AS (T)/2016-17/009 dated 14 th Jan 2017. Current 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. Summarize report of Gadark Lab pvt Ltd is as follows: <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th> <th colspan="2">Range (Jul-Dec 2016) in µg/m³</th> <th rowspan="2">MPCB Permissible Limit in µg/m³</th> </tr> <tr> <th>Near Assembly Point No. 2</th> <th>Near Main Gate</th> </tr> </thead> <tbody> <tr> <td>PM10</td> <td>57.8</td> <td>63.2</td> <td>100</td> </tr> <tr> <td>PM2.5</td> <td>24.1</td> <td>29.5</td> <td>60</td> </tr> <tr> <td>SOX</td> <td>28.8</td> <td>34.1</td> <td>80</td> </tr> <tr> <td>NOX</td> <td>34.2</td> <td>36.1</td> <td>80</td> </tr> <tr> <td>CO</td> <td>1.1</td> <td>1.28</td> <td>2.0 for 8 hrs</td> </tr> </tbody> </table>	Parameter	Range (Jul-Dec 2016) in µg/m ³		MPCB Permissible Limit in µg/m ³	Near Assembly Point No. 2	Near Main Gate	PM10	57.8	63.2	100	PM2.5	24.1	29.5	60	SOX	28.8	34.1	80	NOX	34.2	36.1	80	CO	1.1	1.28	2.0 for 8 hrs
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Lead	<0.01	<0.01	1
Ozone	<20.0	<20.0	100 for 8 hrs
Ammonia	<14.0	<14.0	400
Benzene	<0.14	<0.14	5
Benzo Pyrene	<1.0	<1.0	1
Arsenic	<0.7	<0.7	6
Nickel	<6.0	<6.0	20

All parameters are well within permissible limit of MPCB prescribed limit.
Complied.

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. The scrubbed water is treated in ETP along with other effluent.
Complied.

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.

Wherever possible, the same is practiced.

We have implemented atomization in material transferring wherever possible.

We have used closed 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 to the MSIHC Rules and Hazardous waste (Management, Handling & transboundary Movement) rule 2008. We have obtained Authorization from SPCB vide letter no. **1.0/BO/AS(T)/TN-5605-15/A/GEN-9563 dated 30/07/16 valid till 28/02/2017**. Unit has applied for Consent renewal to MPCB vide application no. UPL/MPCB-AS (T)/2016-17/009 dated 14th Jan 2017. Current Consent copy is attached herewith for your ready reference as Annexure-1.
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. Noise parameter detail is as follows:

Location	Result in dB (A)	MPCB Permissible Limit in dB (A)
Admin Office	62.3	75
Main Gate Security cabin	60.1	
Boiler Area	66.4	
Plant Area	72.4	
Assembly Point no. 2	67.8	

All parameters are well within permissible limit of MPCB permissible limit.
The detail report is attached as Annexure-2.

		Complied.
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 have Green Cell working exclusively on improving in environmental performance by converting waste streams into valuable products, improving ETP performance etc. Stack Monitoring, Bio Assay Test, Tr Factor 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 called up a vendor for Rain Water Harvesting System and will be implemented at the earliest. Not 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.	Due to constraint of area for tree plantation, we have requested to MIDC to borrow some land for tree plantation. 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.	As we took over M/s Punjab Chemicals on 14 th March,2014 (copy is attached as Annexure-3), this one would be our 2 nd half yearly EC compliance report. Last compliance report was submitted for the period of January 2016-June 2016. 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 on dated 14 th March, 2014. The 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 on 14 th 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 preferred 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	Noted.

Production Detail (July-December 2016)

Month	Product Name	MPCB Permissible Limit (MT)	Actual Production (MT)
Jul-16	Metribuzine	135	68.8
Aug-16		135	165
Sep-16		135	187
Oct-16		135	156
Nov-16		135	63
Dec-16		135	97.2

Stack Monitoring Detail (July-December 2016)

Sr. No.	Stack Attached to	Parameter	Monitoring Result	MPCB Permissible Limit
1	Boiler-1	SPM (mg/nm ³)	77.8	150
		Sox (kg/day)	34.08	236
2	D.G.Set (500 KVA)	SPM (mg/nm ³)	44.3	150
		Sox (kg/day)	2.93	16
3	Caustic Scrubber of Metribuzine Plant	HBr (kg/day)	Not Detected	5

Ambient Air Monitoring Detail (July-December 2016)

Parameter	Range (Jul-Dec 2016) in µg/m ³		MPCB Permissible Limit in µg/m ³
	Near Assembly Point No. 2	Near Main Gate	
PM10	57.8	63.2	100
PM2.5	24.1	29.5	60
SOX	28.8	34.1	80
NOX	34.2	36.1	80
CO	1.1	1.28	2.0 for 8 hrs
Lead	<0.01	<0.01	1
Ozone	<20.0	<20.0	100 for 8 hrs
Ammonia	<14.0	<14.0	400
Benzene	<0.14	<0.14	5

Benzo Pyrene	<1.0	<1.0	1
Arsenic	<0.7	<0.7	6
Nickel	<6.0	<6.0	20

Noise Monitoring Detail (July-December 2016)

Location	Result in dB (A)	MPCB Permissible Limit in dB (A)
Admin Office	62.3	75
Main Gate Security cabin	60.1	
Boiler Area	66.4	
Plant Area	72.4	
Assembly Point no. 2	67.8	

Hazardous Waste Detail (Jul-December 2016)

MONTH	WASTE DISCRPTION	OPENING STOCK(MT)	GENERATION (MT)	DISPATCHED TO MWML (MT)	CLOSING STOCK (MT)
Jul-2016	Landfilling	23.96	7.19	27.27	3.88
	Incineration	15.72	12.13	19.54	8.30
Aug-2016	Landfilling	3.88	6.72	9.70	0.90
	Incineration	8.30	12.20	14.18	6.32
Sept-2016	Landfilling	0.90	8.72	9.62	0.00
	Incineration	6.32	12.05	16.87	1.50
Oct-2016	Landfilling	0.00	8.92	8.92	0.00
	Incineration	1.50	8.55	8.06	1.99
Nov-2016	Landfilling	0.00	3.57	0.00	3.57
	Incineration	1.99	14.09	14.09	1.99
Dec-2016	Landfilling	3.57	0.00	0.00	3.57
	Incineration	1.99	0.00	0.00	1.99

Annexure-5

Charter on Corporate Responsibility for Environmental Protection – Pesticide Industry				
Compliance Report of				
UPL Limited, Unit # 10, Plot no.E-51/1, 51/2, 52, MIDC Notified Industrial Area, Tarapur, Tal. & Dist.- Palghar, Boisar, Thane, Maharashtra-401506				
Action Item			Status	Action Plan / Remarks
No	Description	Implementation by		
1	Segregation of waste streams	March 2014	Implemented	<ul style="list-style-type: none"> • Low COD streams :- having quantity @ 11.64 (Boiler, Cooling Tower, Metribuzine Plant, Sewage effluent etc) • ETP :- Primary, secondary and tertiary treatment
2	Detoxification and treatment of high COD waste streams	March 2014	Implemented	No high COD stream is generated from the plant and low COD effluent stream is being treated in ETP for further treatment and sent to CETP for further treatment.
3	Improvement in solvent recovery	March 2014	Implemented. We are using solvent in our Unit with solvent recovery is above 96%.	---
4	By product recovery and utilization	March 2014	Implemented	Not Applicable as of now.
5	Hazardous air pollutant control	March 2014	Implemented	Process Scrubbers are provided for the process reactors and regular monitoring is done through third party (Gadark Lab PVT Ltd) quarterly.
6	Control of fugitive emissions / VOCs	March 2004	Implemented	Fugitive emission control – seal less pumps are used for transfer of solvent. In critical reactors, mechanical seals are also provided. Closed sampling system is also implemented. Suitable chilling system is provided to secondary condenser for VOC emission control. Regular inspection is carried out with reference to pumps, valves, pipes etc. As per the maintenance software – SAP – preventive maintenance of the plant.
7	Up gradation of incinerators	Not installed	Not installed	We are sending all incineration waste to common incinerator.
8	Replacement of Bio Assay Test with Toxicity Factor	March 2014	Implemented	TF Factor Test Method implemented.
9	Minimum scale of production to afford cost of pollution load	--	--	Not applicable
10	Non complying units	--	--	Not applicable

For, UPL Limited

Mr. Nitin Shah
General Manager – Manufacturing