



15th Nov'18

To,
The Director,
Ministry of Environment & Forest,
Govt. of India,
Eastern Regional Office,
A / 3, Chandrasekharpur,
Bhubaneswar - 751023.

Dear Sir,

Sub. : "Half yearly Environmental Clearance Compliance status report"

Ref: -

- 1) Environmental Clearance # J.11011/377/2006-IA.II (I) dated 30.06.2006
- 2) Environmental Clearance # J.11011/914/2008-IA.II (I) dated 29.04.2009

Kindly refer above Environmental Clearance ## J.11011/377/2006-IA.II (I) dated 30.06.2006 and J.11011/914/2008-IA.II (I) dated 29.04.2009 to our unit located at Durgachak, Haldia - 721602, Dist. - Purbamedinipur W.B.,

Enclosed please find hard copy of half yearly status report from April'18 to Sept'2018 for our unit.

We hope that the above is in order. In case you need any additional information, we can provide the same on hearing from you.

With Regards,

For UPL Limited

For UPL Limited

Authorised Signatory
Sudipt Rakhit
Unit Head



Encl: Status report,

Compliance Report for the conditions in the
Environmental Clearance # J.11011/914/2008-IA II(I) dated 29.04.2009
issued by Ministry of Environment and Forests, New Delhi
proposed expansion of pesticides unit by
UPL Ltd., Unit # 9, Haldia, West Bengal
Period April'18 to Sept'18

No	Condition Description	Compliance Status
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01	Refer letter dated 04.11.2008 and subsequent communication dated 26.02.09 along with Form # 1, Pre-Feasibility Report and additional information on the abovementioned subject seeking environmental clearance under the Environmental Impact Assessment notification, 2006.	Noted and complied																
02	MoEF has examined the application. It is noted that M/s, United Phosphorus Ltd. have proposed for expansion of Pesticide manufacturing unit from 325 MTPM to 950 MTPM. Besides by products will also be manufactured. The details of the products to be manufactured are annexed. The unit is located at Durgachak, Haldia, Dist. Purba Medinapore, West Bengal. Proposed expansion will be carried within the existing unit having land area of 60,703 m2. No eco-sensitive areas are located within 10 km radius of the plant. Cost of the project will be Rs. 17.20 Crores.	<p>Complied</p> <p>Company has obtained NOC & CFO for Asulam & Asulox. We have started manufacturing of Asulam & Asulox (formulation of Asulam) only. Production of Asulam during April'18 to Sept'18.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Month</th> <th style="width: 10%;">April'18</th> <th style="width: 10%;">May'18</th> <th style="width: 10%;">June'18</th> <th style="width: 10%;">July'18</th> <th style="width: 10%;">Aug'18</th> <th style="width: 10%;">Sept'18</th> <th style="width: 10%;">CFO (permissible limit)</th> </tr> </thead> <tbody> <tr> <td>Quantity manufactured (MT/M)</td> <td>198.20</td> <td>197.338</td> <td>198.395</td> <td>198.230</td> <td>180.794</td> <td>199.131</td> <td>200 MT/M</td> </tr> </tbody> </table> <p>For other products we obtained NOC only.</p> <p>Capital investment for Asulam Plant is Rs 5.15 Crores.</p>	Month	April'18	May'18	June'18	July'18	Aug'18	Sept'18	CFO (permissible limit)	Quantity manufactured (MT/M)	198.20	197.338	198.395	198.230	180.794	199.131	200 MT/M
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Quantity manufactured (MT/M)	198.20	197.338	198.395	198.230	180.794	199.131	200 MT/M											
03	It is noted that water requirement after the proposed expansion will be 453 m3/day and will be met from the Geonkhali water supply and bore well. The present effluent generation is 25 m3/day having facility for primary and secondary treatment which will be increased to 45 m3/day. Presently the effluent are treated in existing ETP and subsequently mixed with other streams like cooling tower blow down, and used for green belt development. About 15 m3/d of high TDS effluent from process are treated in multistage evaporated system and additionally 18 m3/d of high TDS effluent will be generated which will be treated in multi effect evaporator. The mother liquor will have mercury content of 3 to 5 ppm which will be treated by addition of caustic solution /lime and sodium sulphide to convert the soluble mercury to insoluble mercury sulphide. Subsequently, polyelectrolyte or alum will be added for flocculation followed by sludge separation. The effluent will have mercury level less	<p>Complied.</p> <p>Company has obtained NOC & CFO for Asulam & Asulox. We have started manufacturing of Asulam & Asulox only. Production of Asulam during April'18 to Sept'18</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Month</th> <th style="width: 10%;">April'18</th> <th style="width: 10%;">May'18</th> <th style="width: 10%;">June'18</th> <th style="width: 10%;">July'18</th> <th style="width: 10%;">Aug'18</th> <th style="width: 10%;">Sept'18</th> <th style="width: 10%;">CFO (permissible limit)</th> </tr> </thead> <tbody> <tr> <td>Quantity manufactured (MT/M)</td> <td>198.20</td> <td>197.338</td> <td>198.395</td> <td>198.230</td> <td>180.794</td> <td>199.131</td> <td>200 MT/M</td> </tr> </tbody> </table> <p>We have augmented ETP capacity from 25 KLD to 45 KLD As on Today, there is no High TDS effluent generation .Existing capacity is sufficient to treat generated high TDS effluent</p> <p>For other technical products, expansion for Metamitron, Bagalol we obtained NOC (memo no. - 418-2N-208/2006 (E), dated - 30.06.2010) where plant is not yet ready for production.</p>	Month	April'18	May'18	June'18	July'18	Aug'18	Sept'18	CFO (permissible limit)	Quantity manufactured (MT/M)	198.20	197.338	198.395	198.230	180.794	199.131	200 MT/M
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	<p>than 0.01 mg/lit before sending to ETP. Power requirement of 4250 KW will be sourced from the WBSEDCL. Fuel requirement for boiler will be coal (60 MT/day). Fuel requirement for DG set will be HSD(250 lts/hr). Process emissions in the form of SO₂ and HCl will be controlled by alkali and water scrubber respectively. The sodium sulphide and 30 % HCl will be recovered as by-product. The cyclone separator has been installed and stack height of 30 m is proposed for the 1 MT and 3MT coal fired boiler to control the particulate emissions.</p>	<p>As on Avg. water consumption during April'18 to Sept'18 is @ 120 KLD/Day against CFO permissible limit---250 KLD Generated effluent is being treated in existing ETP where we treat segregated waste water chemically and then biologically. The average effluent discharge quantity is 25 KLD (Against CFO permissible limit 72 KLD.</p> <p>Unit has installed Continuous Online Monitoring System and real time data being transmitted to CPCB</p> <p>Power requirement is 4100 KWH /Day as on.</p> <p>The fuel used is coal and 6 MT / Day.</p> <p>The process emissions are controlled by scrubbers installed the plant.</p> <p>The height of chimney is 30 meters and the chimney emissions are within permissible norms</p> <p>We have not started manufacturing of Mercury based products & the mercury level in effluent is NIL.</p> <p>Unit is having internal & external monitoring and reports are submitted regularly to WBPCB</p>																					
04	<p>Hazardous waste generation will be in the form of waste from process (6.5 MT/M) and waste from liquid effluent treatment (1.465 MTPM) which will be disposed at WBWM . Waste from MMT process Liquid (Hydrazine Hydrate) (100 MT/M) // Solid (Na Sulphate) (170 MTPM) will be consumed for MMT/sold. Waste from MMT process solid (Hydrazine Sulphate) (166.25 MTPM) will be sold to authorized party / WBWML. Rejected material/scraps (1.22 MT/month) will be disposed at WBWML. Coal ash from boiler (60 X 0.25 X 30 MT/month) will be sent for land filling. Asulam formulation (2 MT/month) and Pretilachlor Plant (3.85) will be disposed at WBWML. Used oil (1MTPM) will be sold to MoEF recyclers.</p>	<p>Noted and complied Hazardous waste is being disposed to WBWML. Company have membership of WBWML for disposal of waste generated for land filling and Incineration.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 50%;">Type of hazardous Waste</th> <th style="width: 20%;">Disposal in 18-19 (April'18 to – Sept'18')</th> <th style="width: 30%;">Disposed at</th> </tr> </thead> <tbody> <tr> <td>a) Chemical sludge from waste water treatment</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt.</td> </tr> <tr> <td>b) Process wastes & residues.</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt</td> </tr> <tr> <td>c) Chemical sludge containing residue pesticides.</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt</td> </tr> <tr> <td>d) Date-expired & off specification pesticides.</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt</td> </tr> <tr> <td>e) Used / spent oil.</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt</td> </tr> <tr> <td>f) Ash from incineration of hazardous waste, flue gas cleaning residue.</td> <td style="text-align: center;">0.000 MT</td> <td>West Bengal Waste Mgmt</td> </tr> </tbody> </table> <p>Hazardous waste authorisation was renewed up to 30.11.2020 & memo no – 71 /25 (HW) – 259 / 99 - 2000.</p>	Type of hazardous Waste	Disposal in 18-19 (April'18 to – Sept'18')	Disposed at	a) Chemical sludge from waste water treatment	0.000 MT	West Bengal Waste Mgmt.	b) Process wastes & residues.	0.000 MT	West Bengal Waste Mgmt	c) Chemical sludge containing residue pesticides.	0.000 MT	West Bengal Waste Mgmt	d) Date-expired & off specification pesticides.	0.000 MT	West Bengal Waste Mgmt	e) Used / spent oil.	0.000 MT	West Bengal Waste Mgmt	f) Ash from incineration of hazardous waste, flue gas cleaning residue.	0.000 MT	West Bengal Waste Mgmt
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05	<p>The pesticides manufacturing units have been listed at Sl.no. 5(b) under category 'A' of Environmental Impact Assessment Notification, 2006. The proposal was considered by the Expert Appraisal Committee (Industry) in its 90th meeting held on 6-8th January, 2009 The</p>	<p>Noted</p>																					

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	Committee sought additional information and deferred the proposal. On receipt of information, proposal was placed before the Expert Appraisal Committee in its 92 nd meeting held on 18-20 th March, 2009. The committee recommended the proposal for grant of environmental clearance as per para 7 (ii) of EIA Notification, 2006. As the unit is located in the industrial estate, the public hearing/ consultation of the project is not required as per para 7 (i)-III (b) Stage (3) – public consultation of EIA Notification, 2006.	
06	Based on the information submitted by the project authorities, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification, dated 14 th September 2006 subject to the compliance of the following Specific and General Conditions:	Noted for compliance

SPECIFIC CONDITIONS

01	The effluent shall be segregated based on the pollution load. The biodegradable effluent shall be treated in the ETP for primary and secondary treatment and treated effluent after conforming to the prescribe standards shall be used for green belt development. The high TDS effluent shall be evaporated in the multistage evaporator. The mother liquor after mercury recovery shall be treated before discharging into ETP and shall be ensured that concentration of mercury conform to the prescribed standards.	<p>Complied.</p> <p>Company has obtained NOC & CFO for Asulam & Asulox in 1st phase and NOC for Metamitron expansion and Bagalol in the 2nd phase. We have started manufacturing of Asulam & Asulox only as the plant made ready for production & SPCB awarded CFO (489-1A-36/2000(Pt-II) dated – 31.08.2010.- valid till 31.12.2018. Applied for CFO renewal/extension on 11/09/2018</p> <p>For other products we obtained NOC only. Generated effluent is being treated in an existing ETP. Where chemical treatment, followed by biological treatment. Sludge & high COD waste is being sent to TSDF facility at Haldia. The Mercury treatment and recovery will be set up along with new product, Bagalol. Production of Bagalol not yet started</p>																											
02	Process emissions in the form of SO ₂ and HCl shall be scrubbed with alkali and water scrubber respectively to control SO ₂ and HCL emissions. The by-product shall be recovered as sodium sulphite and 30 % HCl. The emissions shall be dispersed through stack of adequate height as per CPCB standards. The gaseous emissions from the DG sets shall be dispersed through stack of adequate height as per CPCB standards. Acoustic enclosures shall be provided to the DG set to control the noise pollution. The particulate emissions from the coal fired boiler shall be controlled by cyclone separator and emissions shall be dispersed through of stack of height as per CPCB standards.	<p>Complied.</p> <p>For ambient air – June '18</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Parameters</th> <th>SO₂</th> <th>NOX</th> <th>HCl</th> <th>Cl₂</th> </tr> </thead> <tbody> <tr> <td>Microgram / Nm³</td> <td>18.50</td> <td>NIL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>Permissible limit</td> <td>80 Microgram /m³</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>For Stack - June '18</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Stacks</th> <th>Boiler</th> <th>DG 500</th> <th>DG 625</th> </tr> </thead> <tbody> <tr> <td>PM in mg / Nm³</td> <td>56.86</td> <td>54.60</td> <td>60.65</td> </tr> <tr> <td>Permissible limit - mg / Nm³</td> <td>100</td> <td>150</td> <td>150</td> </tr> </tbody> </table>	Parameters	SO ₂	NOX	HCl	Cl ₂	Microgram / Nm ³	18.50	NIL	BDL	BDL	Permissible limit	80 Microgram /m ³				Stacks	Boiler	DG 500	DG 625	PM in mg / Nm ³	56.86	54.60	60.65	Permissible limit - mg / Nm ³	100	150	150
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