



To,  
The Director (S),  
Ministry of Environment & Forest  
Northern Regional Office  
Bays No. 24-25, Sector 31-A  
Dakshin Marg, Chandigarh-160030

Date : 30.01.2020

**Subject:** Point-wise **December 2019** compliance report for the Environmental Clearance condition for the Expansion of the existing Pesticide Formulation Plant ( 90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonipat, Haryana by M/s Crystal Crop Protection Ltd. Limited.

Dear Sir,

We wish to inform your good self that we have obtained Environmental Clearance Conditions / Safeguards obtained vide Letter No. J-11011/120/2011-IA II(I) dated 23.05.2012 for the Expansion of the existing Pesticide Formulation Plant ( 90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat, Haryana in the name of Crystal Phosphates Limited transfer vide MoEF&CC letter No. J-11011/120/2011-IA II(I) dated 13<sup>th</sup> April 2018 (copy enclosed) in the name of M/s Crystal Crop Protection Limited.

Expansion work of our Existing unit had already been completed and unit is under production since 2014. We have obtained Consent to Operate for the Project from Haryana Pollution Control Board vide letter No. HSPCB/Consent/ :313100918SONCTO5434610 valid up to 30.09.2022. In this regard, as per the conditions laid down in the Environmental Clearance Letter, we are hereby submitting the following:

1. Point-wise December 2019 Compliance Report-Annexure-I
2. Site Photographs – Annexure – II
3. Copy of Environmental Clearance-Annexure-III
4. Copy of NOC-Annexure-IV
5. Copy of CTO from HSPCB-Annexure-V
6. Copy of Forest Permission-Annexure-VI
7. Copy of Fire NOC-Annexure-VII
8. Copy of CGWA Permission -Annexure-VIII
9. Copy of waste disposal agreement with GEPIL– Annexure – IX
10. Copies of recent Reports of the test conducted by MoEF&CC approved lab – Annexure X
11. Copy of latest Environmental Statement submitted on Form V

We hope that this will fulfill all the requirements.

Thanking You,

Yours Faithfully,  
For Crystal Crop Protection Limited.

(Authorized Signatory)



**Crystal Crop Protection Limited**

(Formerly known as Crystal Crop Protection Pvt. Ltd.)

**Works Address:** V.P.O. Nathupur, Sonapat-131029, Haryana | Tel: +91-130-2219286, 91-130-2219289.

**Corporate Address:** B-95, Wazirpur Industrial Area, Wazirpur, Delhi - 110052, India | Tel: +91-11-49007100, +91-11-27006800 | Fax: +91-11-49007200.

**Registered Address:** 206, Second Floor, Span Trade Centre, Opp. Kochrab Gandhi Ashram, Near Paldi Char Raasta Ashram Road, Ellisbridge, Ahmedabad - 380006, Gujarat | Tel & Fax: +91-79-26578923

CIN : U01403GJ1994PLC097033 | info@crystalcrop.com | www.crystalcropprotection.com

*Annexure-1*  
December 2019 Compliance Report

POINT WISE DECEMBER 2019  
COMPLIANCE REPORT

EXPANSION OF PESTICIDE  
MANUFACTURING UNIT  
AT  
VILLAGE NATHUPUR - 131029,  
DIST. SONEPAT,  
HARYANA

Being developed by  
M/s Crystal Crop Protection Ltd.  
GI / 17, Industrial Area, G. T. Karnal Road,  
Azadpur, Delhi-110033



## 2. Project Details:

The said project is Expansion of the existing Pesticide Formulation Plant ( 90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat, Haryana. The total estimated cost of the project is Rs. 15 Crores. The project has the following salient features: -

Description	Existing Factory	After Expansion
Total Plot Area	5842.4 m <sup>2</sup>	18005 m <sup>2</sup>
Green Area	2542.9 m <sup>2</sup>	5941 m <sup>2</sup>
Total Build up area	3229.5 m <sup>2</sup>	8564 m <sup>2</sup>
Production	Formulation 90 tons/day	Addition of Technical Grade-21 tons/day
Solid waste Generation	2.5 KG	10 kg /day
Process Waste	NIL	20 kg/day
Hazardous waste	NIL	19 kg/day
Water Requirement	4 KLD	12 KLD
Waste Water To ETP	2 KLD	12 KLD
STP	15 KLD	2 KLD
ETP	NIL	12 KLD
Electric Load	200 KVA	625 KVA
APCS	NIL	Yes
Incinerator	NIL	Installed
Multi Effect Evaporator	NIL	Installed



Point No.7	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limits stipulated by the HSPCB.
Action Taken	Necessary check on fugitive emission from all the vulnerable sources has been made. During expansion of plant necessary care has been taken to avoid dust emission. Necessary water sprinkling has been done. All the vents from emission sources have been channelized to Dust Collectors & Cyclone arrangements. The emissions shall conform to the limits stipulated by the HSPCB.

Point No.8	For further control of fugitive emissions, following steps shall be followed: <ol style="list-style-type: none"> <li>1. Closed handling system shall be provided for chemicals.</li> <li>2. Reflux condenser shall be provided over reactor.</li> <li>3. System of leak detection and repair of pump/pipeline based on preventive maintenance.</li> <li>4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</li> <li>5. Cathodic protection shall be provided to the underground solvent storage tanks.</li> </ol>
Action Taken	All the suggested measures have been adopted in order to control the further fugitive emission during the operation of the plant. (See enclosed photographs)

Point No.9	A proper Leak Detection And Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB Guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.
Action Taken	Proper Leak Detection And Repair (LDAR) Program has been prepared and same is being implemented as per CPCB Guidelines. Proper maintenance of mechanical seals of pumps and valves is being done. Preventive maintenance schedule for each unit has been prepared.

Point No.10	Continuous monitoring system for VOCs shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits.
Action Taken	Continuous monitoring system for VOCs have already been installed.. Immediate action is taken when alarms are received. (see enclosed photographs)





Action Taken	Total Water requirement from ground water source shall not be exceeding the limit and prior permission has been obtained from CGWA. Copy of CGWA Permission is enclosed as Annexure- VIII
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Point No.16	Industrial wastewater generation shall not exceed 8.3 m <sup>3</sup> /day. Total process effluent (8.3m <sup>3</sup> /day) shall be segregated into high COD/organic waste, high COD/TDS and low COD/TDS effluent streams. High COD/organic waste/toxic aqueous effluent shall be incinerated. High COD/TDS effluent stream shall be passed through stripper and evaporated through MEE. Low COD/TDS effluent stream shall be treated in effluent treatment plant (ETP) Followed by RO and treated water shall be used in boiler, washing etc. to achieve zero discharge. Domestic waste water should be treated In STP. Water quality of treated effluent shall be monitored regularly.
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Action Taken	Process effluent quantity doesn't exceeds the limit. Effluent after equalization/neutralization is being flocculated and clarified then it is fed to "Multi Effect Evaporator" condensed water is passed through RO plant. BOD, COD, TSS, pH of treated water is being continuously measured by "Continuous Online Effluent Monitoring Device" and the data is also being aired, which is also is visible to CPCB & HSPCB at <a href="http://www.envirologiciq.com">www.envirologiciq.com</a>
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Point No.17	No effluent shall be discharged outside the premises and Zero discharge concept shall be adopted.
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Action Taken	We have adopted zero discharge concept in our unit. (please see enclosed chart)
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Point No.18	Incinerator comprising primary and secondary chamber shall be designed as per CPCB guidelines. SO <sub>2</sub> , NO <sub>x</sub> , HCL and CO emissions shall be monitored in the stack regularly.
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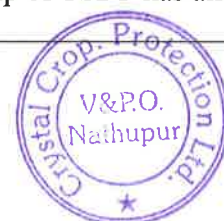
Action Taken	Incinerator is designed as per CPCB guidelines
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Point No.19	Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farms. Solvent Transfer shall be by pumps.
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Action Taken	Hazardous chemicals are stored properly and flame arresters have been provided on tank farms.
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Point No.20	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous waste and prior permission from HSPCB shall be obtained for disposal of solid/hazardous waste in the TSDF. Measures shall be taken for firefighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
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Action Taken	Authorization under the Hazardous Waste (Management, Handling and Trans Boundary Movement) Rules, 2008 and amended as on date has already obtained. Authorization No. is <b>HWM/SON/2018/5665163</b> which is valid till 30/09/2022, copy is enclosed in Annexure-V. All measures and precaution are being taken for firefighting facilities in case of emergency. Membership of TSDF has already been taken for waste disposal.
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Point No.28	The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.
Action Taken	The facility has been surrounded with high pressure fire hydrant points and hydrant monitors, appropriate type of extinguishers have been provided on each points in plant. All electrical equipments and fittings are flameproof. Proper earthing have been provided to equipments and solvent pipings.

Point No.29	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
Action Taken	Necessary facilities had been provided to the construction workers. Local workers were engaged during construction work. Construction wastes had been managed effectively.

### **B. Compliance to General Conditions**

Point No.1	The project authorities shall strictly adhere to the stipulations made by the Haryana State Pollution Control Board.
Action Taken	We will Comply with the stipulations made by the Haryana State Pollution Control Board. CTO has been obtained from HSPCB vide letter No. HSPCB/Consent/ : 313100918SONCTO5434610 which is valid till 30.09.2022, copy is enclosed as Annexure-V

Point No.2	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 the 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.
Action Taken	Noted Sir

Point No.3	The locations of ambient air quality monitoring stations shall be decided in consultation with the Haryana State Pollution Control Board (HSPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
Action Taken	The locations of ambient air quality monitoring stations has already been decided in consultation with the Haryana State Pollution Control Board (HSPCB).

Point No.4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 Viz. 75 dBA (day time) and 70 dBA (night time).
Action Taken	Stipulated standards are being maintained.



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Point No.11	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
Action Taken	Necessary eco-developmental measures shall be adopted.

Point No.12	A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions
Action Taken	Environment, Health & Safety Management Cell has been setup, a separate lab has been developed in plant.

Point No.13	The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
Action Taken	We will Comply Sir

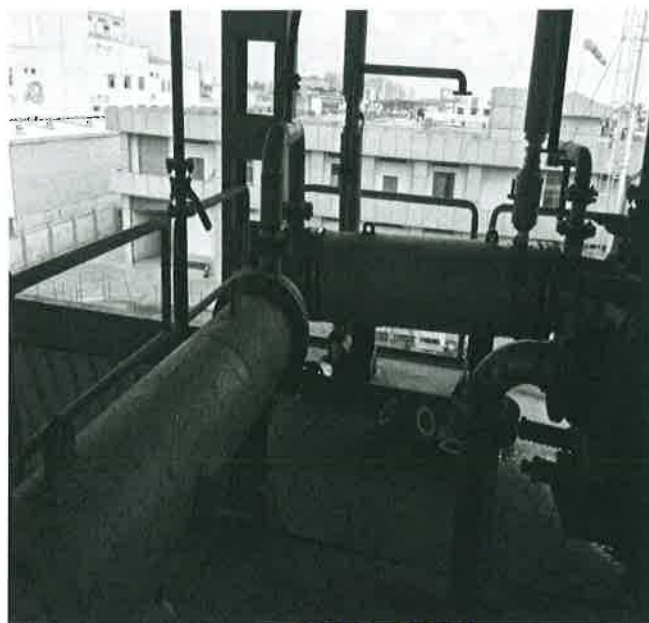
Point No.14	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
Action Taken	No such suggestion were received

Point No.15	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Haryana State Pollution Control Board. A copy of Environment Clearance and six monthly compliance status report shall be posted on the website of the company.
Action Taken	We are submitting the compliance report regularly to the concerned department.

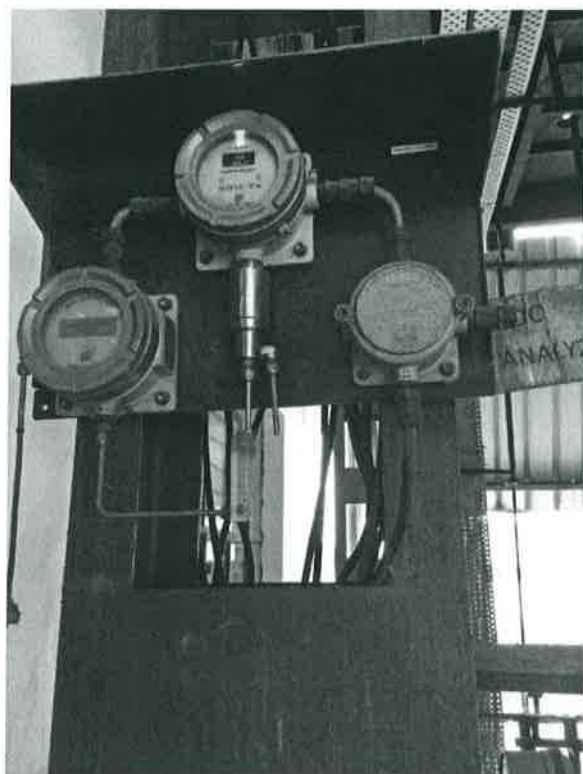
Point No.16	The environment statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated shall be submitted to the Haryana State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Chandigarh Regional Offices of MoEF by e-mail.
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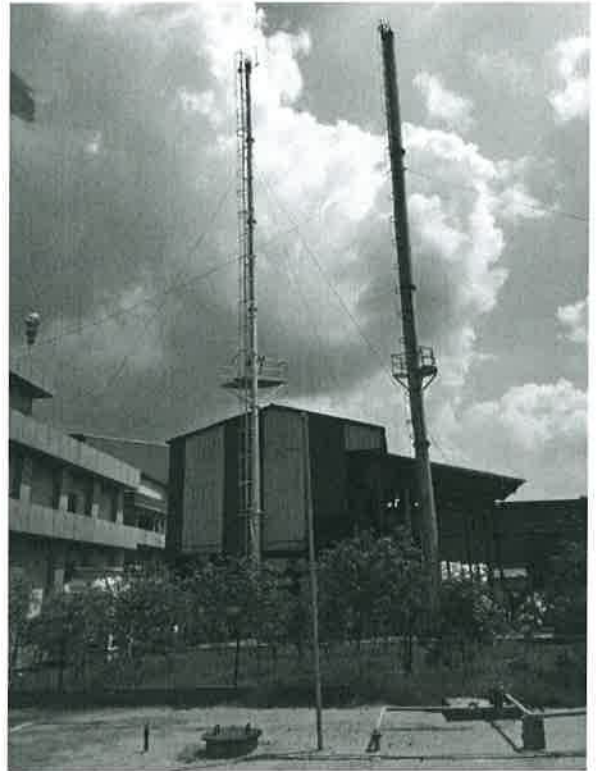
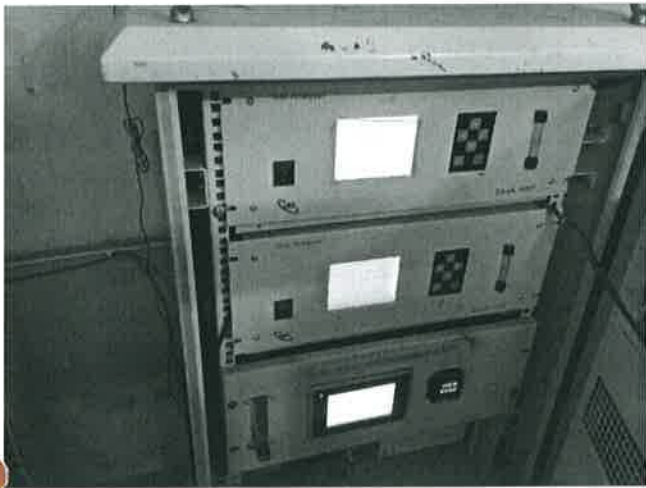














जल वर्ष  
2007



Water Year  
2007

स्वच्छ सुरक्षित जल - सुन्दर खुशहाल कल

CONSERVE WATER - SAVE LIFE

भारत सरकार  
केन्द्रीय भूमि जल प्राधिकरण  
जल संसाधन मंत्रालय

Government of India  
Central Ground Water Authority  
Ministry of Water Resources

CGWA/IND/Proj/2009-657

No.21-4 (257)/NWR/CGWA/2009-2830

Dated : 18-5-2009

To,

M/s Crystal Phosphate Ltd.  
M-5, G1/17, Industrial Area  
GT Karnal Road, Azadpur  
Delhi-110033

Sub: - NOC for abstraction of ground water -reg

Sir,

Kindly refer to your application dated 8.4.2009 on the above-cited subject. This office has no objection to the proposed ground water withdrawal of 12 m<sup>3</sup>/day by M/s Crystal Phosphate Ltd. for their expansion of existing pesticide formulation plant by installing pesticide manufacturing unit at Village Nathupur, Block Rai, District Sonapat, Haryana through existing one borewell only. The NOC is however, subject to the following terms & conditions: -

1. The capacity of the pump shall not exceed 1 H.P.
2. No additional ground water abstraction structures to be constructed for this purpose without prior approval of the CGWA.
3. The borewells to be fitted with water meter by the industry at its own cost and monitoring of ground water abstraction to be undertaken accordingly on regular basis, at least once in a month.
4. The industry should adopt and implement artificial recharge measures/rain water harvesting measures for augmenting the ground water resources of the area, within 90 days period from the date of issuance of this letter.
5. The photographs of the recharge structures after completion of the same to be sent to this office.
6. The industry shall ensure proper recycling and reuse of wastewater after adequate treatment.
7. Action taken report in respect of S. No. 1 to 6 may be submitted to CGWA within one year period.
8. The permission is liable to be cancelled in case of non-compliance to the conditions mentioned in S. No. 1 to 7.
9. This approval is valid for two years from date of issuance of this letter. Upon review of status of compliance of the above conditions after two years, decision for revalidation of approval will be conveyed accordingly.

Yours faithfully

*(S Bhattacharya)*  
(S Bhattacharya)  
Scientist D  
for Member Secretary

Copy to: -

1. The Joint Director, Ministry of Environment & Forests (IA Division), CGO Complex, Lodi Road, New Delhi-110003. This has reference to your letter No. J/11011/329/2008-IA-II(I) dated 9.9.08.
2. The Regional Director, CGWB, North Western Region, Chandigarh.
3. The TS to Chairman, CGWB, NH-IV, Faridabad.

(S Bhattacharya)  
Scientist D  
for Member Secretary







हरियाणा HARYANA

H 728059

THIS Agreement is made at Faridabad on this 05<sup>th</sup> day of DEC. 2019

**BY AND BETWEEN**

Gujarat Enviro Protection and Infrastructure (Haryana) Pvt. Ltd., a company incorporated and registered under the provisions of the Companies Act, 1956 and having its registered office at 370, S V P Road, Shop 8, Plot 384, Cigaretwala Bldg. Opp. CBI Prathna Samaj, Nr. Harkishandas Hospital, Mumbai (Maharashtra) (hereinafter referred to as GEPIL (Haryana) which expression shall unless repugnant to the context or meaning thereof shall mean and include its successors, representatives and permitted assignees etc.) of the FIRST PART

M/s. Crystal Crop Protection Ltd. <sup>AND</sup> which is a Company / Partnership Firm / Proprietary Concern duly incorporated under the provisions of HARYANA. located at VPO - NATHUPUR, DIST. SONPAT, and having its registered office at (hereinafter referred to as The Client which expression shall unless repugnant to the context or meaning thereof shall mean and include its successors, representatives and permitted assignees etc.) of the SECOND PART.

**Recitals**

**WHEREAS** Haryana Environmental Management Society (HEMS), a society registered under the Societies Registration Act, 1860 having its registered office at SCO 45, 1<sup>st</sup> floor, Sector -31, HUDA Market, Gurgaon, Haryana acting as a nodal agency of the Government of Haryana has awarded the work to a Consortium of Members led by Gujarat Enviro Protection & Infrastructure Ltd. (GEPIL) for development and operation of a Hazardous Waste Management Facility (HWM Facility) at Village Pali, Near Pali-Mohabatabad Stone Crusher Zone, Faridabad, Haryana on the leasehold land as per Lease Agreement executed between HEMS and Municipal Corporation, Faridabad (MCF) on 19<sup>th</sup> April 2005.

For Gujarat Enviro Protection And Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory  
SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop Protection Ltd.

Authorised Signatory  
SIGNED for & on behalf of Client





F. No. J-11011/120/2011-IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

E-mail : [lk.bokolia@nic.in](mailto:lk.bokolia@nic.in)  
Telefax : 011: 2436 6017  
Dated 23<sup>rd</sup> May, 2012

To,  
M/s Crystal Phosphate Ltd.  
M-5, GI/17, Industrial Area,  
G.T. Karnal Road,  
Azadpur Delhi-110033.

E-mail: [publicaffairs@crystalphosphates.com](mailto:publicaffairs@crystalphosphates.com); Fax No.: 011-27118885

**Subject: Expansion of the existing Pesticide Formulation Plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat, Haryana by M/s Crystal Phosphates Limited – Environmental Clearance reg.**

**Ref. : Your letter no. nil dated 5<sup>th</sup> February, 2011.**

Sir,

Kindly refer your letter dated 5<sup>th</sup> February, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report and subsequent submission of additional information vide letter dated 27<sup>th</sup> April, 2011, 13<sup>th</sup> June, 2011 and 10<sup>th</sup> October, 2011 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for expansion of the existing pesticide formulation plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat, Haryana by M/s Crystal Phosphates Limited. Total plot area is 18,005 m<sup>2</sup>. Total project cost is Rs. 15.00 Crores. Protected forest is located at 5.5 Km and reserve forest is located at 9 Km. Following products will be manufactured:

S. N.	Product	Capacity
1	2,4-D Ethyl Ester Tech	2 MTPD
2	Glyphosate Tech	5 MTPD
3	Pretilachlor / Butachlor Tech	3.4 MTPD
4	Sulfosulfuron Tech	20 MTPA or 067 MTPD
5	Cypermethrin	200 MTPA or 067 MTPD
6	Metribuzin Tech	40 MTPA or 0.134 MTPD
7	Neonicotinamides i.e. Imidacloprid, Acetamiprid, Thiomethaxam	1 MTPD
8	Syntetic Pyrethroides i.e. Lambda Cyhalothrin	2 MTPD
9	Propiconazoles	2 MTPD
10	Copper Oxy Chloride Technical	1 MTPD
11	Matalaxyl Technical	0.5 MTPD
12	Acephate Technical	1.5 MTPD
13	Ethephone Technical	0.7 MTPD
14	Tricycloazoles	0.5 MTPD
15	Clodinofof propargy Technical	1.5 MTPD
	<b>Total</b>	<b>21 MTPD</b>



3.0 Stack of adequate height will be provided to oil fired thermic fluid heater and steam boiler (2 TPH). Process emissions will be scrubbed by two stage/three stage alkali scrubber. Total fresh water requirement from ground water source will be 23 m<sup>3</sup>/day. Industrial wastewater generation will be 8.3 m<sup>3</sup>/day and segregated into high COD/organic waste, high COD/TDS and low COD/TDS effluent streams. High COD/organic waste/ toxic aqueous effluent will be incinerated. High COD/TDS effluent stream will be passed through stripper and evaporated through MEE. Low COD/TDS effluent stream will be treated in effluent treatment plant (ETP) followed by reverse osmosis (RO) and RO reject will be incinerated and treated water recycled/reused to achieve zero discharge. ETP sludge and MEE residue salt will be sent to treatment storage disposal facility (TSDF) for hazardous waste. Waste oil/spent oil will be sold to registered recyclers/re-processors.

4.0 Public Hearing / Public Consultation meeting was conducted on 21st December, 2010.

5.0 All units producing technical grade pesticides are listed at S.N. 5(b) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 84<sup>th</sup> 25<sup>th</sup> and 30<sup>th</sup> meetings held during 21<sup>st</sup> August, 2008, 28<sup>th</sup>-30<sup>th</sup> July, 2011 and 15<sup>th</sup>-16<sup>th</sup> December, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

- i) National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3<sup>rd</sup> February, 2006 and amended time to time shall be followed by the unit.
- ii) Permission shall be obtained from the State Forest Department regarding the impact of the proposed project on the surrounding reserve forest.
- iii) Stack of adequate height shall be provided to oil fired thermic fluid heater and steam boiler. Online oxygen analyzer shall be installed to ensure air/fuel ratio and combustion efficiency.
- iv) As proposed, process fumes shall be scrubbed by two stage/three stage alkali scrubber. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of air pollution control device shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards. The system shall be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant shall be automatically stopped. Stack monitoring shall be done regularly and report shall be submitted to Haryana State Pollution Control Board (HSPCB) and the Ministry's regional office at Chandigarh.
- v) In order to control odour, outlet of process vents shall be connected to the incinerator.
- vi) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed by the unit.
- vii) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system

*[Handwritten signature]*



shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained. The emissions shall conform to the limits stipulated by the HSPCB.

- viii) For further control of fugitive emissions, following steps shall be followed :
1. Closed handling system shall be provided for chemicals.
  2. Reflux condenser shall be provided over reactor.
  3. System of leak detection and repair of pump/pipeline based on preventive maintenance.
  4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
  5. Cathodic protection shall be provided to the underground solvent storage tanks.
- ix) A proper Leak Detection And Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.
- x) Continuous monitoring system for VOCs shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits.
- xi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- xii) The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the HSPCB. The levels of PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, HCl and HC (Methane and Non-methane) in ambient air and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- xiii) Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses. It shall be ensured that solvent recovery should not be less than 95%.
- xiv) Solvent management shall be carried out as follows :
- i. Reactor shall be connected to chilled brine condenser system
  - ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
  - iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
  - iv. Solvents shall be stored in a separate space specified with all safety measures.
  - v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
  - vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.
- xv) Total water requirement from ground water source shall not exceed 23 m<sup>3</sup>/day and prior permission shall be obtained from the CGWA/SGWA.

*ful*





- xvi) Industrial wastewater generation shall not exceed 8.3 m<sup>3</sup>/day. Total process effluent (8.3 m<sup>3</sup>/day) shall be segregated into high COD/organic waste, high COD/TDS and low COD/TDS effluent streams. High COD/organic waste/ toxic aqueous effluent shall be incinerated. High COD/TDS effluent stream shall be passed through stripper and evaporated through MEE. Low COD/TDS effluent stream shall be treated in effluent treatment plant (ETP) followed by RO and treated water shall be used in boiler, washing etc to achieve zero discharge. Domestic wastewater should be treated in STP. Water quality of treated effluent shall be monitored regularly.
- xvii) No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted.
- xviii) Incinerator comprising primary and secondary chamber shall be designed as per CPCB guidelines. SO<sub>2</sub>, NO<sub>x</sub>, HCl and CO emissions shall be monitored in the stack regularly.
- xix) Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.
- xx) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from HSPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
- xxi) As proposed, ETP sludge and evaporation residue shall be sent to TSDF site. High calorific value waste such as spent organic shall be sent to cement factory/incinerated.
- xxii) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 11989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- xxiii) The company shall undertake following waste minimization measures :-
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- xxiv) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- xxv) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xxvi) Green belt shall be developed at least in 33 % of the plant area in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around the proposed pesticide unit to mitigate the odour problem. Selection of plant species shall be as per the CPCB guidelines.

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- xxvii) All the commitments made during the Public Hearing / Public Consultation meeting held on 21<sup>st</sup> December, 2010 shall be satisfactorily implemented and adequate budget provision should be made accordingly.
- xxviii) The company shall make the arrangement for protection of possible fire and explosion hazards during manufacturing process in material handling.
- xxix) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

**B. GENERAL CONDITIONS:**

- i. The project authorities shall strictly adhere to the stipulations made by the Haryana State Pollution Control Board.
- 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.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the Haryana State Pollution Control Board (HSPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards 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).
- v. The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. 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.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.

47



- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- xv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Haryana State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the Haryana State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Chandigarh Regional Offices of MoEF by e-mail.
- xvii. 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/Committee and 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 and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xviii. 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.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.



10.0 The above conditions will 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 and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Lalit Bokolia)  
Joint Director

**Copy to :-**

1. The Principal Secretary, Environment Department, Government of Haryana, SCO 1-2-3, Sector 17-D (2nd Floor), Chandigarh.
2. The Chief Conservator of Forests (Central), Regional Office (Northern Zone), Bay No.24-25, Sector 31-A, Dakshim Marg, Chandigarh-160030.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.
5. The Joint Secretary, IA Division, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

  
(Lalit Bokolia)  
Joint Director



F. No. J-11011/120/2011-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA- II Section)

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi - 3

Dated: 13<sup>th</sup> April, 2018

To

M/s Crystal Crop Protection Limited  
B-95, Wazirpur Industrial Area  
Wazirpur, Delhi - 110052

**Sub: Expansion of Pesticide Formulation Plant at Village Nathupur, District Sonapat (Haryana) - Transfer of Environmental Clearance from M/s Crystal Phosphates Limited to M/s Crystal Crop Protection Limited - reg.**

Sir,

This has reference to your proposal No. IA/HR/IND2/48163/2012 dated 8<sup>th</sup> March, 2018, regarding transfer of environmental clearance from M/s Crystal Phosphates Limited to M/s Crystal Crop Protection Limited.


2. The Ministry had earlier granted environmental clearance vide letter dated 23<sup>rd</sup> May, 2012 to the project for expansion of the existing Pesticide Formulation Plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat (Haryana), in favour of M/s Crystal Phosphates Limited.

3. M/s Crystal Crop Protection Limited vide letter dated 8<sup>th</sup> March, 2018 have informed that M/s Crystal Phosphates Limited was amalgamated with M/s Crystal Crop Protection Pvt Ltd through a scheme of arrangements approved by Hon'ble High Court of Delhi vide order dated 2<sup>nd</sup> August, 2011. Thereafter, upon conversion from private company to public company, name was changed to M/s Crystal Crop Protection Limited, vide Registrar of Companies certificate of incorporation dated 3<sup>rd</sup> January, 2018, and thus necessitating transfer of all requisite approvals in the new name of the company.

4. M/s Crystal Crop Protection Limited has submitted an affidavit to abide by the terms and conditions stipulated in the environmental clearance dated 23<sup>rd</sup> May, 2012 issued in the name of M/s Crystal Phosphates Limited.

5. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance granted by the Ministry vide letter dated 23<sup>rd</sup> May, 2012 to the project 'Expansion of the existing Pesticide Formulation Plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD)' at Village Nathupur, District Sonapat (Haryana), is hereby transferred from M/s Crystal Phosphates Limited to M/s Crystal Crop Protection Limited, on the same terms and conditions under which prior environmental clearance was initially granted and for the same validity period.

6. This issues with approval of the competent authority.

  
(S. K. Srivastava)  
Scientist E

**Copy to:-**

1. The Additional PCCF (C), MoEF&CC Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh - 30





2. The Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2<sup>nd</sup> Floor, Chandigarh
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6. Panchkula - 9 (Haryana)
5. Guard File/Monitoring File/Website/Record File

*SK*  
13/4/2018  
(S. K. Srivastava)  
Scientist E



F. No. J-11011/120/2011-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA- II Section)

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi -3

Dated: 16<sup>th</sup> April, 2018

To

M/s Crystal Crop Protection Limited  
B-95, Wazirpur Industrial Area  
Wazirpur, Delhi - 110 052

**Sub: Expansion of Pesticide Formulation Plant by installing Pesticide Manufacturing Unit at Village Nathupur, District Sonapat (Haryana) by M/s Crystal Crop Protection Limited - Amendment in Environmental Clearance - reg.**

Sir,

This has reference to your proposal No. IA/HR/IND2/48163/2012 dated 27<sup>th</sup> September, 2016, on the above subject matter.

2. The Ministry had earlier granted environmental clearance vide letter dated 23<sup>rd</sup> May, 2012 to the project for expansion of the existing Pesticide Formulation Plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD) at Village Nathupur, District Sonapat (Haryana), in favour of M/s Crystal Phosphates Limited.

3. The project proponent has sought amendment in the said environmental clearance for change in product mix of pesticide manufacturing unit and to add 32 more products with reduction in production capacity from the present 21 TPD to 17.75 TPD. It is informed that there would be no increase in pollution load in respect of effluent, solid waste and air pollutant, and the total production shall not exceed the consented capacity.

4. The proposal for amendment in environmental clearance was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 26-29 December, 2016 in the Ministry. The Committee noted that the proposal is attracting the Ministry's Notification S.O. No. 3518(E) dated 23<sup>rd</sup> November, 2016, and recommended the proposal, subject to submission of 'No Pollution Load Certificate' from the State Pollution Control Board.

As per the recommendations of the Committee, the project proponent has submitted a letter No. HSPCB/SR/2017/6093 dated 20<sup>th</sup> December, 2017 issued by Haryana State Pollution Control Board mentioning that the net quantity of effluent and source of air emission will remain same after the change in product as per the list submitted by the unit in MoEF&CC.


5. The Ministry's Notification S.O.3518(E) dated 23<sup>rd</sup> November, 2016 provides for exemption from the requirement of environmental clearance for any change in the product mix, change in quantities within products or number of products in the same category for which environmental clearance has been granted, provided that there is no change in the total capacity sanctioned in prior environmental clearance granted earlier under this Notification and there is no increase in pollution load, In such cases, as per the provisions contained therein, the project proponent need to obtain No Increase in Pollution Load certificate from the concerned State Pollution Control Board.

*SH*



6. In view of the above and as per the information made available by the project proponent, there seems no requirement of amendment in the environmental clearance dated 23<sup>rd</sup> May, 2012, for the revised scope of work as stated in para 3.

7. This issues with approval of the competent authority.

  
16/4/2018  
(S. K. Srivastava)  
Scientist E

**Copy to:-**

1. The Additional PCCF (C), MoEF&CC Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh - 30
2. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6. Panchkula - 9 (Haryana)
3. Guard File/Monitoring File/Website/Record File

  
16/4/2018  
(S. K. Srivastava)  
Scientist E





HSPCB

HARYANA STATE POLLUTION CONTROL BOARD  
C-11, SECTOR-6, PANCHKULA  
Website - www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com  
Tele Fax No. - 0172-2577870-73

No. HSPCB/TAC/2012/ 2113

Dated: 06-12-2012

REGD.

To

M/s Crystal Phosphates Ltd.,  
M5, GI 17, Industrial Area, GT Karnal Road,  
New Delhi - 110033

Sub.: Consent to Establish for expansion from pollution Angle - M/s Crystal Phosphates Ltd., Village-Nathupur, Distt. - Sonapat (Haryana).

Please refer to your Consent to Establish application received in this office on the subject noted above.

Under the Authority of the Haryana State Pollution Control Board vide its agenda item No. 47.8 dated 28.04.83 sanction to the issue of "Consent to Establish for Expansion" with respect to pollution control of Water and Air is hereby accorded to the existing unit M/s Crystal Phosphates Ltd., for installing Pesticides manufacturing unit (21 MTPD) at Village- Nathupur, Distt. - Sonapat (Haryana) with the following terms and conditions:-

- 1 The Project has declared that the quantity of effluent shall be 14.4 KL/Day i.e Nil KL/Day for Trade Effluent, Nil KL/Day for Cooling, 14.4 KL/Day for Domestic and the same should not exceed mentioned herein and same should be used in Horticulture after treatment.
- 2 The above "Consent to Establish" is valid upto Two years or the date of commissioning which ever is earlier. The unit will have to set up the plant and obtain consent during this period.
- 3 The unit will maintain proper log book of Water meter/sub meter/ magnetic flow meter before/after commissioning.
- 4 That there is no discharge directly or indirectly from the project or the process into any interstate river or Yamuna River or River Ghaggar or any other river or either through a direct flow or indirectly without any treatment.
- 5 The unit will use only non-ozone depleting substances in Air conditioning unit of the project.
- 6 That the project or the unit concerned is not sited within any prohibited distances according to the Environmental laws and Rules. Notification, Orders and Policies of Central Pollution Control Board and Haryana State Pollution Control Board.
- 7 That the unit will comply with all Hazardous Waste Rule of applicable relating to Handling, storage and disposal as required by Central Pollution Control Board, Haryana State Pollution Control Board & GOI.
- 8 The Project proponent should adopt water conservation measures to ensure reuse / recycling of water in their process. Ground Water based proposals of new projects should get clearance from Central Ground Water Authority for conservation of precious resource.
- 9 The unit will not obstruct natural drainage system and obtain permission from Irrigation Deptt. in this regard.
- 10 The DG sets used shall conform to EPA Rules & comply with air/noise/standards and should have stack height of minimum 4 meters above the roof top.
- 11 The Solid Waste Generated shall be properly collected and segregated scientifically disposed of as per MSW Rules by using vermiculture composting method etc.
- 12 Solar panels shall be provided for illumination of common areas, lighting for gardens and street lights in addition to solar water heating and shall take all energy conservation measures.
- 13 The unit will maintain green belt in 25-30% of the land area by providing tree plantation as per MOEF /CPCB norms.
- 14 That the unit will use CFL (Compact fluorescent Lighting) for internal building and campus lighting.
- 15 The unit shall provide structurally adequate rain water harvesting system in their project in order to ensure rain water harvesting.
- 16 The Board reserves the right to add any additional condition if required in future under national/Govt. of India/State Laws.
- 17 The unit will obtain permission from Forest Deptt. in case any area falls under Forest Area, or section 4/5 of Land Prevention Act & also for cutting of trees, if any before commencing construction of project.
- 18 The project proponent will obtain all required statutory clearances before start of the project.
- 19 That the unit will submit an affidavit to comply with all the general as well as specific conditions of the "Consent to Establish" within 30 days falling which NOC will be revoked.





**M/s Crystal Phosphates Ltd., Village- Nathupur, Distt. – Sonapat (Haryana).**

**Other Specific Conditions :-**

- 1 The unit will provide Adequate Effluent Treatment Plant as per the scheme submitted and comply with the standards laid down by the Board and make efforts to achieve zero discharge.
- 2 The unit will provide Adequate Sewage Treatment Plant as per the scheme submitted and comply with the standards laid down by the Board and make efforts to achieve zero discharge.
- 3 Unit will install magnetic flow meter at inlet and outlet of the STP / ETP.
- 4 The unit will install structurally adequate air pollution control measures and ensure that air emissions are well within permissible limits.
- 5 That the project shall use the treated effluent for horticulture/Green belt or otherwise and give undertaking to recycle the treated effluent within 30 days.
- 6 The unit will comply with all provisions of hazardous waste (Management, Handling and Transboundary Movement) Rules 2008 and provide Non-leachate storage facility for storage of hazardous waste and also enter into an agreement with Common Hazardous Waste Treatment Storage and Disposal Facility.
- 7 The unit will install hood and canopy in such a way that there is no leakage fugitive emissions in the atmosphere and the system should be leak proof.
- 8 Unit will not discharge any trade effluent without prior approval of the Board.
- 9 Unit will achieve zero discharge by reuse / recycle the treated water back into the process.
- 10 R.O. will file complaint under section 19 read with section 15 of EP Act for past violation of EIA notification immediately, if any, and will submit compliance within 15 days.
- 11 The project proponent will obtain clearance if required as per law / rules from Town and Country Planning Department. However if the provisions of Punjab scheduled and controlled areas restrictions of Unregulated Development Act, 1963 and the Haryana Development and Regulation of Urban Areas Act, 1975 are applicable on the site then owner shall be responsible for obtaining the permission from Town and Country Planning Deptt. under the said acts otherwise NOC shall become invalid.
- 12 The NOC so granted shall be invalid if in case at a later stage it is observed that the report of Tehsildar regarding Aravali area is found incorrect.
- 13 Unit will comply with all the conditions of Environmental clearance obtained from MoEF vide letter No. J-11011/120/2011-IA-II (I), dt. 23.05.2011.

  
Member Secretary (TAC)  
For Chairman

Endst. No.HSPCB/TAC(HQ)/2012/

Dated: 4

A copy of the above is forwarded to the following for information and necessary action:-

- 1 Director General, Environment Department, Haryana, Sec-17, Chandigarh.
- 2 The Chief Conservator of Forest (FC) Forest Department, Haryana.
- 3 The Chief Town Planner, Haryana, Director General Town & Country Planning Deptt., Ayojna Bhawan, Sec- 18A, Madhya Marg, Chandigarh.
- 4 The Regional Officer, Sonapat.
- 5 The Executive Engineer, (OP) Division, UHBVN, Sonapat.

Member Secretary (TAC)  
For Chairman





## HARYANA STATE POLLUTION CONTROL BOARD

Star Complex, Opp. General Hospital,  
Delhi Road, Sonapat Ph. 0130-2236119(O)

E-mail: hspcb.pkl@sify.com



No. HSPCB/Consent/ : 313100918SONCTO5434610

Dated:26/07/2018

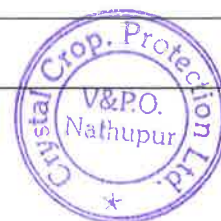
To.

M/s :CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT  
VILLAGE NATHUPUR, DISTT. SONEPAT

Subject: Grant of consent to operate to M/s CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT.

Please refer to your application no. 5434610 received on dated 2018-06-25 in regional office Sonapat. With reference to your above application for consent to operate, M/s CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	20/07/2018 - 30/09/2022
Industry Type	Pesticides (technical) (excluding formulation)
Category	RED
Investment(In Lakh)	1030.68005
Total Land Area(Sq. meter)	8119.0
Total Builtup Area(Sq. meter)	3826.0
Quantity of effluent	
1. Trade	15.0 KL/Day
2. Domestic	2.0 KL/Day
Number of outlets	2.0
Mode of discharge	
1. Domestic	Septic Tank
2. Trade	ETP
Domestic Effluent Parameters	
1. NA	
Trade Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Number of stacks	3
Height of stack	
1. Attached to Boiler	30 metre
2. Attached to Incinerator	30 metre



3. Attached to Process emission	16 metre
<b>Emission parameters</b>	
1. SPM	150 mg/m <sup>3</sup>
2. SOX	600 mg/m <sup>3</sup>
3. NOX	300 mg/m <sup>3</sup>
<b>Product Details</b>	
1. Thiamethoxam Metric Tonnes/Day 1 1 1 1	Metric Tonnes/day
Acetamiprid Metric Tonnes/Day 1 1 1 1	
Imidachloprid Metric To	
<b>Capacity of boiler</b>	
1. Boiler	2.0 Ton/hr
<b>Type of Furnace</b>	
1. NA	
<b>Type of Fuel</b>	
1. Diesel	0.100 KL/day
2. Wood	9 Ton/day
<b>Raw Material Details</b>	
2 chloro 5 chloromethylthiazole 0.74 Metric Tonnes/Day 3 methyl 4 nitroimino perhydro 1 3 5 oxadiazine 0.74 Metric Tonnes/Day Caustic Soda 0.2 Metric Tonnes/Day DMF 0.3 Metric Tonnes/Day Methanol 0.25 Metric Tonnes/Day 2 Chloro 5 (methylamino methyl)	Metric Tonnes/Day

**Regional Officer, Sonipat**  
**Haryana State Pollution Control Board.**

### Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.





5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.
9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.
13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

#### **Specific Conditions :**

1. The unit will comply with provision of all applicable Acts/Rules/Direction of the Board.
2. Unit will apply under HOWM Rules 2016 separately within 30 days.
3. Unit will obtain prior permission from the board before installing any new polluting process.
4. Unit will not discharge any effluent outside the unit.
5. Unit will deposit the balance Sampling fees within 07 days.
6. Unit will maintain and run its APCM, ETP, MEE regularly and effectively.
7. Unit will comply with Hazardous Chemical Handling rules and other guidelines issued by CPCB/HSPCB.

SATINDER PAL  
Digitally signed by SATINDER PAL  
Date: 2018.07.26 18:39 +05'30'  
**Regional Officer, Sonapat**  
V&PO, Nathupur  
Crustal Protection Ltd.



प्रेषक

उप वन संरक्षक,  
सोनीपत।

सेवा में

क्रिस्टल फास्फेट लि०,  
गाँ० व डा० नाथूपुर,  
जिला सोनीपत।

क्रमांक/2053

दिनांक/28/11/2011

विषय:-

Clarification Regarding Applicability of Forest Laws on Non-Forest Land.

संदर्भ:-

आपका प्रार्थना-पत्र दिनांक 17/10/2011.

—00—

संदर्भांकित प्रार्थना-पत्र के सम्बन्ध में आपको सूचित किया जाता है कि वन राजिक अधिकारी, राई की रिपोर्ट अनुसार विषयांकित केस में वन संरक्षण अधिनियम 1980/2003 लागू नहीं होता है। अतः इस वन मण्डल को कोई आपत्ति नहीं है।

उप वन संरक्षक,  
सोनीपत।





M/s CRYSTAL CROP PROTECTION LTD

VILLAGE NATHUPUR SONIPAT

Memo No. FS/2019/210 dated : 07/03/2019

174

Subject: Renewal of No Objection Certificate Under 15 mtrs. height from the fire Safety Point of View of the Group G- Industrial Building at KH NO 16//6/3/2 15/1/2 16/1/2 16//6/1/1 6/2 6/3/1 15/13 15/2 16/1/1 16/2 17//20/2 16//5/2/2 KHASRA NO 9//25/2/2 8//21/2 9//25/2/3 16//5/2/1 17//1/1 VILLAGE NATHUPUR SONIPAT of CRYSTAL CROP PROTECTION LTD :

Reference to you online No 181311923000075 dated 01/02/2019 on the subject cited above.

Tower Name	Floor Detail	Height	Ground Coverage
Basement Level	Basement Area	Remarks	

Your site for the Renewal of the Fire NOC has been inspected by the Team of Fire Station Officers, from fire safety Point of View. The means of escape and Fire Protection system were checked and found as per the National Building Code of India, Part- IV guidelines.

In view of the satisfactory fire protection system / arrangement mentioned as above, this office has no objection for occupation from the Fire Safety point of view, with the following conditions:-

- ) The owner/occupier shall keep duly trained Fire Staff in all three shifts.
- ) The Fire Protection System tested during inspection shall be maintained properly & always should be in good working condition.
- ) If any lapse is found in the fire protection system at the time of inspection or detected during outbreak of fire, action will be taken as per rules against you.
- ) You are directed to apply for Renewal of NOC in future before 2 month of expiry of your NOC.
- ) The open set back area is not checked at our end as it shall be checked by concerned building department.
- ) The owner/occupier shall strictly follow the other applicable rules/ regulations/ byelaws laid down regarding fire safety system. If you fail to comply with any of the above terms & conditions you will be liable to be punished as per fire ordinance 2009 specially chapter- III Section 31 Sub-Section 1 & 2 of Fire Act 2009.
- ) You have to perform quarterly Fire Drill in your building as per NBC with intimation to Fire Department and video graphy evidence to be kept as a record which shall be produced at the time of next Renewal; Officials/Residents/R.W.A. should be mentioned in the drill.
- ) If the Infringements of Byelaws remains un- noticed the Authority reserves the right to amend the NOC as and when any such Infringements comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.

The above Renewal of NOC is valid for **One** year from the date of issue of this letter Applying renewal of the same well in time shall be the responsibility of owner/occupier.

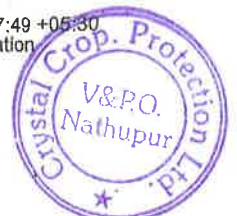
Remarks:- verification copy attach



FSQ Sonipat  
Fire Station Officer  
Haryana Fire Emergency Services  
Exercising the power of Director, Fire Services, Haryana



Digitally signed by RAMDATT  
BHARDWAJ  
Date: 2019.03.07 16:27:49 +05:30  
Reason: Digital Verification



**AND WHEREAS** the Consortium of Members led by GEPIL have formed a Special Purpose Vehicle ("SPV") called Gujarat Enviro Protection & Infrastructure (Haryana) Pvt. Ltd. (GEPIL (Haryana)) to develop, operate and maintain the said Hazardous Waste Management Facility at Village Pali, Near Pali Mohabatabad Stone Crusher Zone, Faridabad, Haryana through an Agreement executed between HEMS, GEPIL (Haryana) and GEPIL, Surat on 30<sup>th</sup> June 2005.

**AND WHEREAS** the Party of the First Part is inter alia engaged in the business activities of development, operations and maintenance of infrastructure projects for hazardous waste management as specified in Hazardous Waste (Management and Handling) Rules, 1989 as amended in 2000, 2003, 2008 and now Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and subsequent amendments (hereinafter referred to as "The Rules") and has been given authorization by Haryana State Pollution Control Board (HSPCB) to set up an Integrated Common Hazardous Waste Treatment, Storage & Disposal Facility (TSDF) at Pali, Near Pali Mohabatabad Stone Crusher Zone, Faridabad, Haryana.

**AND WHEREAS** the Party of the Second Part is generating hazardous waste and has approached the Party of the First Part for managing and disposing off its Hazardous Waste as per applicable rules since the Party of the First Part has set up the said facility at Pali, Near Pali Mohabatabad Stone Crusher Zone, Faridabad, Haryana.

**AND WHEREAS** the Party of the First Part has agreed to accept Hazardous Waste generated by the Party of the Second Part for collection, transportation, storage, treatment and disposal on the mutually agreed terms and conditions stated hereunder.

**THIS DEED THEREFORE WITNESSES AS FOLLOWS:**

1. **DEFINITIONS AND INTERPRETATIONS**

- 1.1 "TIME" shall be stated in Hours and shall mean Indian Standard Time.
- 1.2 "DAY" means a period of twelve (12) consecutive hours beginning at 08.00 hours and ending at 20.00 hours.
- 1.3 "WEEK" means a period of seven (7) consecutive days beginning from a day.
- 1.4 "MONTH" means a period beginning at 08.00 hours on the first day of Calendar Month and ending at 08.00 hours on the first day of succeeding Calendar Month.
- 1.5 "YEAR" means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February beginning at 08.00 hours from a day.
- 1.6 "FINANCIAL YEAR" means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February beginning at 08.00 hours from a day. It starts from 1st day of April month of the year and ends on 31st day of March month of next year.
- 1.7 "ACTIVE TERM" means the term during which GEPIL (Haryana) shall receive, transport, store, treat, recycle, recover and dispose of the hazardous waste at the TSDF site as per authorization granted by the HSPCB.

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

Authorized Signatory

SIGNED for & on behalf of Client



- 1.8 "FORCE MAJEURE" means any event or circumstance or combination of events or circumstances beyond the reasonable control of either party (the "Affected Party") and such event or circumstance cannot by exercise of reasonable diligence be prevented or cause to be prevented; cannot, despite the adoption of reasonable precautions or alternative measures (where sufficient time to adopt such precautions or alternative measures before the occurrence of such event or circumstance is available) be prevented; and which materially and adversely affects such party's performance of its duties and obligations under this Agreement.
- 1.9 The headings of or title to the Clauses in this Agreement shall not be deemed to be a part thereof or be taken into consideration in the interpretation or construction thereof.
- 1.10 Words imparting the singular only also include the plural and vice versa where the context so requires.
- 1.11 "TSDF" means Treatment, Storage & Disposal Facility operated by GEPIL (Haryana) located at Village Pali, Near Pali Mohabatabad Stone Crusher Zone, Faridabad, Haryana
- 1.12 HSPCB means Haryana State Pollution Control Board, CPCB means Central Pollution Control Board and MoEF means Ministry of Environment and Forests.
- 1.13 "Client" means a Company / Partnership Firm / Proprietary Concern / Co-operative Society, AOP etc which generates hazardous wastes as defined in the Hazardous Waste (Management & Handling Rules) 1989 as amended in 2000, 2003, 2008 and now Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and subsequent amendments.

## **2. PERIOD OF AGREEMENT**

- 2.1 The present Agreement shall remain in force for the Active Term or five years from 09<sup>th</sup> Oct. 2019 unless terminated earlier due to any of the reasons mentioned in this Agreement.
- 2.2 GEPIL (Haryana) will issue a Registration Certificate valid for 5 years effective from 09<sup>th</sup> Oct. 2019. The registration shall need to be renewed including execution of fresh Agreement by the Client at least three months before the expiry of the current Agreement.

## **3. TERMINATION OF AGREEMENT**

- 3.1 Both the Parties hereto agree that the present Agreement shall automatically come to an end in any of the following eventualities:
- On expiry of Authorization granted to the Client and the same having not been renewed by the Client or of the same having not been granted by Haryana State Pollution Control Board (HSPCB).
  - On expiry of HEMS membership and the same having not been renewed by the Client or of the same having not been granted by HEMS.
- 3.2 This AGREEMENT can be terminated by the Client after giving a written Notice of at least 30 days to the other party. The provision relating to minimum charges shall be applicable, during the notice period in accordance with Clause 10.2.

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

SIGNED for & on behalf of Client  
Authorized Signatory





- 3.3 Both the Parties hereto further agree that in case of the present Agreement coming to an end owing to any of the aforesaid eventualities, it will be the sole responsibility of the Client to handle, treat and dispose off its Hazardous Waste in accordance with the relevant provisions of law.

#### 4. **REGISTRATION**

- 4.1 The Client shall pay non refundable charges of ₹ 1000=00 (Rupees One Thousand Only) towards Registration every five years.
- 4.2 The Client shall pay non refundable charges of ₹ 8000=00 (Rupees Eight Thousand Only) towards Finger Printing Analysis of the waste to be conducted by GEPIL (Haryana) for waste characterization.
- 4.3 After having registered, if the registration is terminated within the validity period of the present Agreement because of any reason stated in this Agreement, then in that event, the registration can be revived on payment of non-refundable re-registration charges of ₹ 500/- ( Rupees Five hundred only). Such re-registration shall be valid till the expiry of the last Registration Certificate.
- 4.4 The registration under this Agreement is not transferable in any manner whatsoever.

#### 5. **TREATMENT & DISPOSAL CHARGES**

- 5.1 The Treatment and Disposal charges for various types of hazardous wastes are mentioned in Schedule I to this Agreement. The Treatment & Disposal Charges applicable under this Agreement for different types of wastes generated by the Client are as follows:

Sr. No.	Type of Wastes	Treatment and Disposal Charges ( ₹ Per MT)
1	Cont. Cotton Waste	12,910 =00
2	Cont. Plastic Waste	12,910 =00
3	STP Sludge	1,613 =00
4	Incineration Ash	1,613 =00
5	MEE Sludge	1,613 =00
6	Process Sludge	1,613 =00
7	Cooling Tower Fine	15,421=00
8	Solvent Residue	15,421=00
9		

(Attach sheets in case of more types of wastes)

- 5.2 GEPIL (Haryana) shall charge the Client towards treatment & disposal on the basis of weightment to be done at the TSDF site. If the Weigh Bridge at the site is not working, it will be weighed at an outside Weigh Bridge approved by GEPIL (Haryana).
- 5.3 The rates specified in Schedule I to this Agreement are based on general characteristics of the specified type of waste. In case any waste of the Client that

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For Crystal Crop. Protection Ltd.



SIGNED for & on behalf of Client

either does not fall under the mentioned categories or requires special type of treatment before or after disposal, the Client agrees to pay the rates for the same which shall be fixed on case to case basis depending upon the characteristics of the waste & treatment required in consultation with HEMS.

## 6. TRANSPORTATION CHARGES

- 6.1 The Client has requested GEPIL (Haryana) to provide NIL numbers of storage containers of NA capacity each to avoid frequent transportation. GEPIL (Haryana) has agreed to provide the said containers in consideration of which the client has agreed to pay ₹. NA (Rupees NA) as interest free security deposit to GEPIL (Haryana). The Client shall be responsible for the security and upkeep of as well as any damage caused to the container while it is lying at the premises of the Client.
- 6.2 M/s. GEPIL (Haryana) shall provide the fleet of waste transport vehicles of different capacities duly authorized by HSPCB. As per the requirements of the Client, lowest capacity vehicle for transporting its Hazardous Waste on full vehicle load basis to the TSDF Site shall be sent by GEPIL (Haryana) at the cost of the Client.
- 6.3 The Transportation Charges for transportation of waste from location of Client to the TSDF site are mentioned in Schedule II to this Agreement.
- 6.4 The Transportation Charges applicable under this Agreement at the current rates, excluding taxes, are ₹. (AS PER SCHEDULE -2) per km per MT Taxes, as applicable, are payable extra.

## 7. REVISION OF CHARGES

- 7.1 The Client covenants that various notified charges like Treatment & Disposal Charges, Transportation Charges etc and any other unforeseen charges under this Agreement for its Hazardous Waste shall be subject to revision and inclusion during the currency of this Agreement in consultation with HEMS, as and when such revision is called for due to any reason whatsoever. GEPIL (Haryana) shall inform the Client about such revisions in advance through a separate letter.
- 7.2 All Government, municipal, panchayat taxes, duties, levies, octroi, tolls, service tax etc., as applicable from time to time, related to transportation, treatment, storage, disposal and other services rendered under this Agreement shall be borne by the Client. In case the same are paid by GEPIL (Haryana), the Client shall reimburse the amount thereof to GEPIL (Haryana).
- 7.3 Service Tax or any other existing taxes as applicable presently on services related to disposal of hazardous waste have to be paid by the client.

## 8. OBLIGATIONS OF THE CLIENT

- 8.1 While entering into the present Agreement with GEPIL (Haryana), the Client shall submit the categories of Hazardous Waste along with the quantity and its desire to dispose off the same by GEPIL (Haryana). The said categories of Hazardous Waste shall be as per the parameters specified in the Schedules of Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2016, as amended from time to time.

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

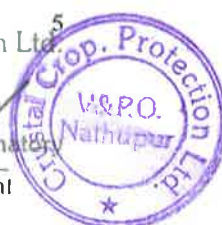
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SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

Authorized Signatory

SIGNED for & on behalf of Client



- 8.2 The Client shall get the Authorization from HSPCB permitting the Client to send its Hazardous Waste to the TSDF Site for treatment and disposal and that it shall be the responsibility of the Client to get the same renewed from time to time, failing which GEPIL (Haryana) reserves its right to repudiate the present Agreement under intimation to HSPCB and HEMS.
- 8.3 The Client shall make all the proper, necessary and adequate arrangement for keeping production records and the Hazardous Waste generated from these processes. The Client shall provide relevant and correct information with respect to process, waste quantity and characteristics (physical & chemical), nature and toxicity of waste as and when asked for by GEPIL (Haryana). This information may be forwarded to HSPCB / CPCB / MoEF/ any other Statutory Authority, if asked for.
- 8.4 The Client shall be required to maintain the record of Hazardous Wastes generated, stored and sent for treatment and disposal to GEPIL (Haryana). The records so maintained shall be subject to cross check and physical verification by authorized representative of GEPIL (Haryana) through visit to Client's premises.
- 8.5 GEPIL (Haryana) reserves right to reject collection of the hazardous waste spilled over the ground and containers whose exteriors are soiled by spillages. The Client shall locate the storage facility in such a way so that the same shall be accessible to the waste transport vehicles of GEPIL (Haryana).

8.6 **Dispatch and Detention of Transport Vehicle**

- i. The Client is required to intimate GEPIL (Haryana) when it has minimum one vehicle load of waste to be lifted, through letter / Fax / Email to send waste transport vehicle at least five days in advance from the date of collection.
  - ii. On arrival of the same at the Client's site, the Client shall be responsible for loading its Hazardous Waste into the said waste transport vehicle within three hours of arrival at the Client's site counting from the time of reporting at the security gate of the Client.
  - iii. If the detention of the said waste transport vehicle at the Client's site exceeds the time limits stipulated in Schedule II to this Agreement, there shall be levied detention charges at the rates as mentioned in Schedule II to this Agreement. The Client may detain the vehicle for a maximum of six hours including time stipulated for loading.
  - iv. In case, for any reason, including detention for more than six hours, the vehicle is sent back to GEPIL (Haryana) without giving the waste even after having been requisitioned by the Client, the Client shall pay the transportation charges for the full capacity load of the vehicle.
- 8.7 Before the Hazardous Waste is loaded into the waste transport vehicle and dispatched to TSDF site, the Client shall ensure that the said waste is packed in a manner suitable for transportation and that the said packed waste withstands physical and climatic conditions and does not result in any kind of leakage, spillage and accident etc causing adverse impact on health and environment.

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For Crystal Crop. Protection Ltd.

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SIGNED for & on behalf of Client





8.8 If and when an accident occurs while loading Hazardous Waste at the Client's site, the Client shall immediately report the same to HSPCB and other authorities as per the Rules and also to GEPIL (Haryana).

8.9 **Rejection of Waste**

- i. The Client agrees to maintain waste characteristics close to Finger Print Analysis Report of the waste (attached as Schedule III to this Agreement). In case of variation of over 5% in waste characteristics mentioned in the said Schedule, the Client covenants to pay the revised treatment and disposal charges determined for its specific waste type and characteristics failing which the Client shall accept the hazardous waste back at its own cost in accordance with Clause 8.9 (ii) and 8.9 (iii).
  - ii. The Client shall be required to accept Hazardous Waste back and bear the cost of return transportation of full vehicle load, if the same is rejected by GEPIL (Haryana) due to any of the following reasons:
    - a) The variation in waste characteristics is beyond 5%.
    - b) The wastes contain unacceptable wastes types as listed under Clause 9.2.
  - iii. If the Client fails to do so within 2 days of reporting the matter, its registration will be terminated with intimation to HEMS. In the event of waste rejection, the Client shall be totally responsible and liable for any consequence arising thereof and GEPIL (Haryana) reserves all rights to take any suitable actions under the law.
- 8.10 During wet period of monsoon season, Hazardous Waste may not be accepted at the TSDF Site. During this period Client is required to make a provision to store its Hazardous Waste for a minimum period of four months, as per the requirement of HSPCB.
- 8.11 GEPIL (Haryana) may request the Client, under intimation to HEMS, to provide any additional information, as may be required, for treatment and disposal of waste or as asked for by HSPCB / CPCB / MOEF / any other Statutory Authority. The Client shall send the said information to GEPIL (Haryana) at least two days before the scheduled time, if specified by the information seeking authority else within two weeks time.
- 8.12 The Client shall comply with the provisions of Environment (Protection) Act, 1986 and the Rules as amended from time to time as also with the conditions of the present Agreement and that any breach committed thereof shall render the Client not eligible for disposing of its Hazardous Waste in TSDF site.
- 8.13 The Client shall not claim any right, interest or privilege in or in relation / connection with Hazardous Waste accepted at the TSDF site.
- 8.14 In case of any change in constitution of firm or company or proprietary concern, company name, products or quality and/or production rate of products or waste quantity or characteristics, the Client shall intimate GEPIL (Haryana) by written notification by registered letter / speed post / courier prior to proposed date of change and get its waste Finger Printing Analysis done again, where ever required, in accordance with Clause 4.2.

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Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd

SIGNED for & on Behalf of Signatory





9. **QUALITY**

- 9.1 The Client hereby covenants to ensure that its Hazardous Waste shall, under all circumstances, conform to the norms specified by HSPCB and as prescribed under the provisions of law for the time being in force.
- 9.2 The Client agrees not to send the following type of wastes which could be detrimental to the environment, safety of the facility and to the persons handling it in any manner:-
- Wastes containing explosive substances (An explosive substance is a solid or liquid substance (or mixture of substances) which is, in itself, capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.)
  - Waste which has an obnoxious odour.
  - Waste which is flammable (Flash point below 65°C)
  - Waste which contains shock sensitive substances (Shock sensitive refers to the susceptibility of a chemical or substance to rapidly decompose or explode when struck, vibrated or otherwise agitated.).
  - Waste which contains volatile substance of significant toxicity.
  - Wastes containing Radio active substances

10. **QUANTITY**

- 10.1 Subject to the conditions mentioned under Clause 3.2, the Client agrees to send on firm basis to GEPIL (Haryana), its own Hazardous Waste subject to maximum of ----- MT per day and 24.50 MT per annum, which will be called the Contracted Quantity.
- 10.2 If the Client wants to send the requisite Hazardous Waste less than 90% of the aforesaid Contracted Quantity, than in that event, the Client can request GEPIL (Haryana), along with necessary justifications, for change in its Contracted Quantity twice in a year by providing at-least three months notice. The client shall still be liable to pay to GEPIL (Haryana) for the Minimum Quantity i.e. 90% of the Contracted Quantity till the expiry of three months notice period. The receipt of waste shall be monitored by GEPIL (Haryana) on quarterly basis and charges for deficit, if any shall be billed accordingly. In case of Force Majeure conditions at the Client's premises leading to reduction in annual waste generation, the liability to pay for minimum quantity shall be waived for the period of Force Majeure.
- 10.3 If the Client exceeds the annual Contracted Quantity of Hazardous Waste for disposal, then in that event Client covenants to increase the security deposit accordingly as per Clause No. 11.1.

11. **BILLING AND PAYMENT OF CHARGES**

- 11.1 The Client shall effect arrangement to make the payment of interest free Security Deposit of ₹ 154811/- (Rupees one lakh fifty four thousand

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Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

Eight Hundred Eleven only

For Crystal Crop. Protection Ltd.

SIGNED for & on behalf of Client  
Authorized Signatory



Only) equivalent to Treatment & Disposal Charges of its Hazardous Waste for two months of Contracted Quantity that shall always be maintained at a value twice or more than the Transportation, Treatment & Disposal Charges for one vehicle load waste. The said amount of interest free Security Deposit will be refunded only on the termination of this Agreement after adjusting other / pending claims of GEPIL (Haryana) against the Client, if any.

- 11.2 In case of insufficient balance (Security Deposit) in the Client's account, GEPIL (Haryana) shall not send the waste collection vehicle.
- 11.3 GEPIL (Haryana) shall raise the bill against each waste disposal consignment (towards Transportation, Treatment & Disposal Charges) within three days of receipt of the waste at the TSDF Site. The client shall pay the bill within 30 days from the date of issue of bill.
- 11.4 The Client shall, upon receipt of the bill from GEPIL (Haryana), make full payment on or before the due date mentioned in the bill. In case of delayed payment by the Client, interest at the rate of 15% per annum shall be charged by GEPIL (Haryana) on delayed payments. .
- 11.5 In case of default / dishonor in payment, GEPIL (Haryana) shall give seven days notice to Client, with information to HEMS, for settlement of outstanding dues by effecting the payment through DD/pay order along with interest else the Registration of Client shall be cancelled.
- 11.6 In the event of cancellation of Registration due to reasons mentioned under Clause 11.5, the client can re-register upon payment of balance dues along with interest through DD / Pay order apart from non-refundable re-registration charges in accordance with Clause 4.3.

## 12. **DEFAULT**

- 12.1 If the Client fails and /or defaults in the discharge of any of his obligation under the present Agreement, the GEPIL (Haryana) after serving seven days notice shall have discretion to (i) cancel the Client's Registration & refuse to accept Hazardous Waste of the Client for disposal, and (ii) notify to HEMS and HSPCB the name of the Client informing about such default.
- 12.2 In the event of Client committing any breach/violation of any condition of the present Agreement or any provision of Law / Act / Rules for the time being in force, GEPIL (Haryana) reserves its right to suspend / cancel the registration for such period as it deems fit with information to HEMS.
- 12.3 Where an offence under the Environment (Protection) Act 1986 or under the Rules framed thereunder, has been committed by the Client or is attributed to any negligence on the part of the Client which shall include its Director, Partner, Proprietor, Manager, Secretary, Officer etc. and if such Client is guilty of the offence or is liable to be prosecuted against and punished accordingly, no suit, prosecution or legal proceeding (s) shall lie against GEPIL (Haryana) for the offence committed by the Client .
- 12.4 GEPIL (Haryana) reserves its right to issue a show cause notice to the Client, with information to HEMS, if it is of the opinion that the Client has contravened the provisions of the present Agreement, requesting the Client to remedy the

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SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

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Authorized Signatory



contravention within 15 days time. The said notice served shall specify the measures to be taken by the Client in remedying the said contravention.

### 13. **INDEMNITIES**

- 13.1 The Client shall be deemed to be in exclusive possession and control of the said Hazardous Waste and shall be fully liable and responsible for its arrangement, appurtenances and properties before completely loaded waste transport vehicle of GEPIL (Haryana) leaves the Client's premises.
- 13.2 Accordingly the Client hereby covenants and agrees to fully protect, indemnify and hold GEPIL (Haryana), its employees, agents and successors and assignees harmless against any and all claims, demands, action, suits, proceedings and judgment and any and all liabilities, costs, expenses, damages or losses arising out of or resulting from or incidental to or in connection therewith, which may be made out against successors and assignees or by third parties on account of damages or injury to property or persons or loss of life resulting from or arising out of the installation, presence, maintenance or operation or the intake arrangements, appurtenances and properties of the Client.
- 13.3 It is also agreed by and between the Parties hereto that GEPIL (Haryana) is not and shall not be liable in any manner whatsoever due to any negligence and for any reason or otherwise of the Client, in disposing its Hazardous Waste at the factory site of the Client or at any other place.

### 14. **FORCE MAJEURE**

- 14.1 In case of any Force Majeure event at the site of the Client, GEPIL (Haryana) shall not be saddled with any liability contingent or otherwise but in that case, it shall be the sole liability of the Client.
- 14.2 In case of any environmental risk arising during the performance of this Agreement at the TSDF site either due to Force Majeure event or due to circumstances beyond the reasonable control of the parties hereto, neither of the parties shall be liable for the consequences arising there from.
- 14.3 Both the parties hereto agree that due to change in any laws related to waste disposal mechanism / criteria or due to any directive of any Court or Authority, if GEPIL (Haryana) is to incur any additional financial burden consequent upon any alteration and / or modification in respect of land-filled waste, then, in that case the Client shall be liable to contribute for the same in proportion to its disposal of Hazardous Waste quantity in TSDF site. The actual burden shall be determined in consultation with HEMS.
- 14.4 Both the parties hereto agree that in any event of there being order in form of any injunction, stay or otherwise from any Court, HSPCB or any other Authority stopping the functioning of the Site or otherwise whereby GEPIL (Haryana) becomes unable to accept Hazardous Waste of the Client, GEPIL (Haryana) shall not be responsible or made responsible and / or be liable in any manner in that regard and that in such an eventuality, it shall be the responsibility of the Client to get the needful done in respect of disposal of its Hazardous Waste.

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

  
SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

  
SIGNED for & on Behalf of Client





15. **PREVIOUS CORRESPONDANCE**

- 15.1 Save and except all discussions and meetings held and correspondence exchanged between GEPIL (Haryana) and the Client in respect of this Agreement and any decisions arrived at therein in the past and before coming into force of the present Agreement, no reference of such discussions with the Client for interpreting the present Agreement or otherwise shall be made. Whereas, Waste Data Sheet and Application Form, will be treated as part of this Agreement.

16. **ARBITRATION**

- 16.1 In case of any dispute or difference of opinion that may arise out of the present Agreement, the matter shall be settled by the parties by mutual negotiations to be concluded within 45 days from the date of intimation of existence of dispute or difference of opinion, as the case may be, by one party to the other party, failing which, the matter shall be settled through arbitration. Both the parties shall appoint an arbitrator each, and the two arbitrators so appointed, shall appoint the third arbitrator. The third arbitrator shall be the presiding arbitrator of the panel. The arbitration shall be as per the Arbitration & Conciliation Act, 1996. The venue of arbitration shall be Faridabad. The arbitration proceedings shall be recorded in English and the arbitration award shall be final and binding on both the parties.

17. **LAWS GOVERNING THE AGREEMENT**

- 17.1 The present Agreement shall be subject to Indian Laws, rules and regulations and notifications etc. issued under such laws.

18. **AMENDMENTS:**

- 18.1 GEPIL (Haryana) may, if required at any point of time make suitable change in the present Agreement in consultation with HEMS after serving a notice to the said Client.

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

For Crystal Crop. Protection Ltd.

SIGNED for & on Behalf of Signatory





19. **JURISDICTION**

19.1 Subject to the provisions of Clause 17 of this Agreement, the parties hereto mutually agree that the Civil Courts at Faridabad only shall have jurisdiction for all the disputes/differences arising out of this Agreement.

20. The addresses of the parties hereto, unless changed by written notification to be given at least 15 days in advance by registered letter prior to proposed date of change, shall be as follows :

- 1) M/s. Gujarat Enviro Protection & Infrastructure (Haryana) Pvt. Ltd.  
Reg. Office: 370, S V P Road, Shop 8, Plot 384,  
Cigaretwala Bldg. Opp. CBI Prathna Samaj, Nr.  
Harkishandas Hospital, Mumbai (Maharashtra)

2)



IN WITNESS WHEREOF the parties hereto acting through their properly constituted representatives have set their hands to cause this Agreement signed and executed in their respective names and on their behalf.

For and on behalf of  
GEPIL (Haryana) Protection And  
Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

For CRYSTAL CROP PROTECTION LTD.  
For and on Behalf of Client

*(Signature)*  
AUTHORISED

Name : Mr. Ashwani Kumar  
Designation : Business Head  
Address :

Witness :

1. Name : Love Gaudin  
Designation : Manager  
Address : GEPIL

2. ....

Name :  
Designation :  
Address :

For Gujarat Enviro Protection And  
Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

SIGNED for & on Behalf of GEPIL (Haryana)

... Mohit Kumar Goel  
Name :  
Designation : Director  
Address : Village Nathupur  
Dustt Sonbat  
Haryana

Witness:

1. ....  
Name :  
Designation :  
Address :

2. ....

Name :  
Designation :  
Address :

For Crystal Crop. Protection Ltd.

SIGNED for & on Behalf of Client



### Schedule - I

Rates for Landfill, Solidification & Stabilisation and Incineration (Effective From 01/04/2019)				
	Up to 400 MT	401 To 700 MT	701 To 1200 MT	Above 1200 MT
a. Fixed Landfill Charges (Rs. Per MT)	1613	1595	1576	1565
b. Solidification & Stabilisation Charges (Rs per MT)				
Waste : Additives				
1:0.10	2319	2130	2112	2087
1:0.20	3031	2970	2940	2909
1:0.30	3590	3522	3487	3451
1:0.40	4010	3931	3888	3851
1:0.50	4430	4344	4302	4253
1:0.60	4977	4880	4832	4777
1:0.70	5523	5408	5354	5300
1:0.80	6011	5890	5829	5768
1:0.90	6443	6316	6248	6188
1:1.00	6874	6736	6668	6596
c. Variable Incineration Charges (Rs. Per MT) - for a category of waste of a particular calorific value (in KCal/Kg) as per the ranges given below :				
Calorific value				
Upto 2500 KCal/kg	18767	18207	18020	17642
Greater than 2500 & up to 4500 KCal/kg	15421	14959	14809	14498
Greater than 4500 KCal/kg	12910	12514	12386	12137

**Notes:-**

- The above rates are valid up to 31.03.2020. Thereafter the rates shall attract escalation @ 4% on annual basis.
- The above rates are for the specified type of waste. In case any waste that may require special treatment prior to its disposal, the rates for such waste shall be fixed on case to case basis depending on the characteristics of waste & treatment required in consultation with HEMS.
- The rates for solidification and stabilization are for the waste that requires additives up to 1:1.0 ratios. If the waste requires additives more than 1:1, the rates shall be charged depending on the quantity of additives required to be added & its bulking factor to be decided in consultation with HEMS.
- The rates of Solidification & Stabilization as well as rates for incineration include landfill charges. No extra charges will be levied for residue disposal landfill.
- The above rates are exclusive of any statutory levies which will be payable extra.
- Process for printing of manifest @ Rs. 10/- for each.
- Further, the charges in respect of preprocessing process where ever applicable, remains unchanged and are as under:
  - Charges for de-watering/ drying @ Rs. 1000/- MT on Hazardous waste having moisture content more than 40%.
  - Charges for neutralization @ Rs. 1000/- MT on Hazardous waste having pH between 4 and 2.
  - We will also be charging neutralization @ Rs. 2000/- MT on Hazardous waste having pH lesser than 2.

For Gujarat Enviro Protection And  
Signed for and on behalf of GEPI (Haryana)  
Director/Authorised Signatory

SIGNED for & on behalf of Client  
For Crystal Crop Protection Ltd

Authorized Signatory



**Schedule- II Transportation  
Charges (Rs. per Km per MT)**

**Revised Rates effective from 01-10-2019 (Fuel Price: 65.37 per liter)**

One Way	1 MT			3 MT			9 MT			10 MT			16 MT & Above		
	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost
Distance															
Upto 75 KM	6.54	19.3	25.84	4.43	6.26	10.69	3.42	2.15	5.57	3.80	2.39	6.19	3.31	1.97	5.28
75 to 200 KM	6.54	13.51	20.05	3.8	4.52	8.32	3.00	1.45	4.45	3.34	1.61	4.95	2.9	1.27	4.17
>200 KM	6.54	12.72	19.26	3.8	3.88	7.68	3.00	1.15	4.15	3.34	1.27	4.61	2.9	1.05	3.95

**Note:-**

1. The above revised rates are based on current (revised) Diesel price of Rs. 65.37 per liter. The 'Fuel Cost' component of the rates shall be adjusted based on the rates of Diesel at Faridabad (Haryana) on quarterly basis i.e. 1st of April, July, Oct. & Jan. of each year.
2. The 'Other Cost' component of rates is firm up to 31.03.2020 and shall be subject to 3% escalation on annual basis thereafter.
3. The rates indicated above are for actual Distance of the Generator's unit from the TSDF site. The chargeable distance will be double the actual one way distance from TSDF site to the Generator's unit i.e. to & fro for full truck load. Minimum charges payable will be Truck Capacity in MT \*Rate per km/MT\*To & fro distance of Generator's unit from TSDF Site.
4. The transportation rates are excluding loading, packing material, toll tax and any other statutory levies.
5. The maximum loading time and detention charges beyond the free loading time for different capacity vehicles are as given below:

Sr. No.	Vehicle Capacity	Free Loading Time	Detention Charges/hr
(i)	1 Ton	2 hrs	300/-
(ii)	3 Tonnes	2 hrs	300/-
(iii)	9 Tonnes	3 hrs	360/-
(iv)	16 Tonnes	4 hrs	400/-

SIGNED for & on Behalf of GEPIL (Haryana)  
For Gujarat Livestock Infrastructure (Haryana) Pvt. Ltd.

Director/Authorised Signatory

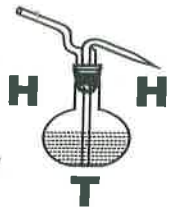
SIGNED for & on Behalf of Client

For Crystal Crop. Protection Ltd.

Authorized Signatory







# HARYANA TEST HOUSE

## & Consultancy Services

NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

Web Site : www.haryanatesthouse.net, e-mail : info@haryanatesthouse.net, haryanatesthousecs@gmail.com

Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

## TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**

Village & PO Nathupur,

Sonepat (HR)

**Job Order No:** HTH/CH/190823030- 031, **Dt.:** 23.08.2019

**ULR No. :** TC781119100008804F & TC781119100008805F

**Reporting Date :** 28.08.2019


**Party's Ref No:** Nil

**Sample Description:** Effluent Water Sample (ETP- Inlet & Outlet)

Type of industry	:	Pesticides Industry
Sample type	:	Effluent Water
Date of sampling	:	23.08.2019
Date of receipt of sample	:	23.08.2019
Sample location	:	ETP- Inlet & Outlet
Sample quantity	:	2 litre each
Purpose of analysis	:	Monitoring
Sample collected/ supplied by	:	By our lab representative
Period of testing	:	23.08.2019 to 28.08.2019

### Test Results

Sr. No.	Parameters	ETP - Inlet	ETP- Outlet	Specification Environment Protection Act 1986 (Inland Surface Water)	Protocol Used
Discipline - Chemical, Group – Pollution & Environment					
1	Appearance	Light Green	Colourless	--	Visual
2	Odour	Mild	Odourless	--	Qualitative
3	pH	8.42	7.61	5.5 to 9.0	IS 3025 (P-11): 1983
4	COD, mg/l	757.0	76.0	250 max.	IS 3025 (P-58): 2006
5	BOD at 27°C for 3 days, mg/l	313.0	17.0	30 max.	IS 3025 (P-44): 1993
6	Total Suspended Solids, mg/l	184.0	14.0	100 max.	IS 3025 (P-17): 1993
7	Oil & Grease, mg/l	29.6	1.2	10 max.	IS 3025 (P-39): 1996

  
Mgr. (Lab.)/ Sr. Chemist

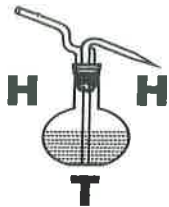


Authorised Signatory  
(Page 1 of 1)

Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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## & Consultancy Services

NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

Web Site : www.haryanatesthouse.net, e-mail : info@haryanatesthouse.net, haryanatesthousecs@gmail.com

Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

## TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**  
Vilage & PO Nathupur,  
Sonapat (HR)

**Job Order No:** HTH/CH/190823032, **Dt.:** 23.08.2019

**ULR No. :** TC781119100008806F

**Reporting Date :** 28.08.2019

**Party's Ref No:** Nil

**Sample Description:** Ambient Air Quality Monitoring

Type of industry	:	Pesticides Industry
Date of sampling & time	:	22.08.2019 (10:00 Hrs) to 23.08.2019 (10:00 Hrs)
Sampling location	:	Near Boiler Seciton
Instrument used	:	RDS Model APM- 460 (Sr. No. 2494-DTB-2019)
Instrument Calibration Status	:	Calibrated upto 10-03-2020
Purpose of analysis	:	Monitoring
Period of testing	:	23.08.2019 to 28.08.2019

### A. Observations:

1	Sampling flow rate (Avg.)	:	1.24	m <sup>3</sup> / min
2	Total volume of air sampled	:	1805.82	m <sup>3</sup> (for RSPM)
3	Period of sampling	:	24 Hrs.	

### B. Test Results:

Sr. No.	Parameters	Results	Standard Limits (NAAQS)	Protocol Used
<b>Discipline - Chemical, Group – Atmospheric Pollution</b>				
1	Particulate Matter (PM <sub>10</sub> ), µg/ m <sup>3</sup>	87.65	100 max.	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	54.38	60 max.	By HTH/QF/5-4/2/CH-02/03
3	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	19.01	80 max.	IS 5182 (Part-2) : 2001
4	Oxides of Nitrogen (NO <sub>2</sub> ), µg/m <sup>3</sup>	36.57	80 max.	IS 5182 (Part-6) : 2006
5	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	58.26	400 max.	By HTH/QF/5-4/2/CH-02/07
6	Lead (Pb), µg/m <sup>3</sup>	BDL (DL 0.02)	1.0 max.	IS 5182 (Part-22) : 2004
7	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	24.95	100 max.	IS 5182 (Part-9) : 1974
8	Carbon Monoxide (CO), mg/ m <sup>3</sup>	BDL (DL 1.14)	4 max.	IS 5182 (P-10)/ BY CO METER
9	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	BDL (DL 1.0)	5 max.	IS 5182 (Part-11) : 2006
10	Benzo-Pyrene (BaP), ng/m <sup>3</sup>	BDL (DL 0.2)	1 max.	IS 5182 (Part-12) : 2004
11	Nickel (Ni), ng/m <sup>3</sup>	BDL (DL 1.0)	20 max.	HTH/QF/5.4/2/CH-2/09
12	Arsenic (As), ng/m <sup>3</sup>	BDL (DL 0.5)	6 max.	HTH/QF/5.4/2/CH-2/09

Remarks:

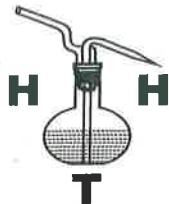
- Standard limits are as per CPCB notification Nov. 2009
- BDL : Below Detection limits / DL : Detection Limit

*TOTD*  
Mg (Lab.)/ Sr. Chemist

Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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# HARYANA TEST HOUSE

## & Consultancy Services

NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

Web Site : www.haryanatesthouse.net, e-mail : info@haryanatesthouse.net, haryanatesthousecs@gmail.com

Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

## TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**  
Vilage & PO Nathupur,  
Sonapat (HR)

**Job Order No:** HTH/CH/190823033, **Dt.:** 23.08.2019

**ULR No. :** TC781119100008807F

**Reporting Date :** 28.08.2019

**Party's Ref No:** Nil

**Sample Description:** Ambient Air Quality Monitoring

Type of industry	:	Pesticides Industry
Date of sampling & time	:	22.08.2019 (10:30 Hrs) to 23.08.2019 (10:30 Hrs)
Sampling location	:	Backside MEE Plant
Instrument used	:	RDS Model APM- 460 (Sr. No. 2493-DTB-2019)
Instrument Calibration Status	:	Calibrated upto 10-03-2020
Purpose of analysis	:	Monitoring
Period of testing	:	23.08.2019 to 28.08.2019

### A. Observations:

1	Sampling flow rate (Avg.)	:	1.25	m <sup>3</sup> / min
2	Total volume of air sampled	:	1776.00	m <sup>3</sup> (for RSPM)
3	Period of sampling	:	24 Hrs.	

### B. Test Results:

Sr. No.	Parameters	Results	Standard Limits (NAAQS)	Protocol Used
<b>Discipline - Chemical, Group – Atmospheric Pollution</b>				
1	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	92.46	100 max.	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	55.92	60 max.	By HTH/QF/5-4/2/CH-02/03
3	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	18.75	80 max.	IS 5182 (Part-2) : 2001
4	Oxides of Nitrogen (NO <sub>2</sub> ), µg/m <sup>3</sup>	35.31	80 max.	IS 5182 (Part-6) : 2006
5	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	62.86	400 max.	By HTH/QF/5-4/2/CH-02/07
6	Lead (Pb), µg/m <sup>3</sup>	BDL (DL 0.02)	1.0 max.	IS 5182 (Part-22) : 2004
7	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	25.61	100 max.	IS 5182 (Part-9) : 1974
8	Carbon Monoxide (CO), mg/m <sup>3</sup>	BDL (DL 1.14)	4 max.	IS 5182 (P-10)/ BY CO METER
9	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	BDL (DL 1.0)	5 max.	IS 5182 (Part-11) : 2006
10	Benzo-Pyrene (BaP), ng/m <sup>3</sup>	BDL (DL 0.2)	1 max.	IS 5182 (Part-12) : 2004
11	Nickel (Ni), ng/m <sup>3</sup>	BDL (DL 1.0)	20 max.	HTH/QF/5.4/2/CH-2/09
12	Arsenic (As), ng/m <sup>3</sup>	BDL (DL 0.5)	6 max.	HTH/QF/5.4/2/CH-2/09

Remarks:

- Standard limits are as per CPCB notification Nov. 2009
- BDL : Below Detection limits / DL : Detection Limit

*TOTI*  
Mgr. (Lab.)/ Sr. Chemist

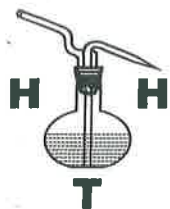
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# HARYANA TEST HOUSE

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NABL ACCREDITED LABORATORY

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### TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**

Village & PO Nathupur,

Sonepat (HR)

Job Order No: HTH/CH/190823034, Dt.: 23.08.2019

ULR No. : TC781119100008808F

Reporting Date : 28.08.2019

Party's Ref No: Nil

#### Sample Description: Stack Emission (Boiler)

Type of Industry	: Pesticides Industry
Name of Plant/ Section	: Boiler Section
Date of sampling	: 23.08.2019
Capacity of Boiler	: 2 TPH
Source of Emission	: Stack Attached to Boiler
Instrument used	: Stack Sampler APM 160 (Sr.No. 88-DTL - 2016)
Instrument Calibration Status	: Calibrated (upto 30-12-2019)
Type of Stack	: Metal
Type of Fuel used	: Wood
Stack height (from the ground level)	: 30 meter
Stack diameter (at the sampling point)	: 0.55 meter
Location of sampling point	: As per standard norms
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative
Type of APCM installed	: Cyclone
Period of testing	: 23.08.2019 to 28.08.2019

#### A. Observations:

S. No.	Particulars	Data Observed
1	Stack gas temperature, °C	: 132.0
2	Metering point temperature, °C	: 36.0
3	Avg. stack gas velocity, m/sec	: 7.67
4	Sampling flow rate, Lt./min.	: 25.0
5	Period of sampling, Minutes	: 30.0
6	Volumetric flow rate, Nm <sup>3</sup> / Hr	: 4638.30

#### B. RESULTS:

S. No.	Parameters	Results	Standard Limits (CPCB)	Protocol Used
<b>Discipline - Chemical, Group - Atmospheric Pollution</b>				
1	Particulate Matter (PM), mg/Nm <sup>3</sup>	362.13*	800 max.	IS 11255 (P-1) : 1985
2	Sulphur Dioxide (SO <sub>2</sub> ), mg/Nm <sup>3</sup>	10.47	--	SOP No. HTH/QF/5.4/2/CH-02/23
3	Oxides of Nitrogen (NO <sub>x</sub> ), mg/Nm <sup>3</sup>	15.05	--	SOP No. HTH/QF/5.4/2/CH-02/23
4	Carbon dioxide (CO <sub>2</sub> ), %	6.20	--	SOP No. HTH/QF/5.4/2/CH-02/23

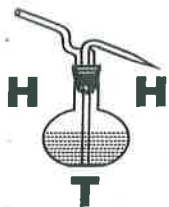
\*Corrected to 12% CO<sub>2</sub>

Mgr. (Lab.) / Sr. Chemist

Authorised Signatory  
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Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

### TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**

Village & PO Nathupur,

Sonepat (HR)

Job Order No: HTH/CH/190823035, Dt.: 23.08.2019

ULR No. : TC781119100008809F

Reporting Date : 28.08.2019

Party's Ref No: Nil

#### Sample Description: Stack Emission (DG)

Type of Industry	: Pesticides Industry
Name of Plant/ Section	: DG Section
Date of sampling	: 23.08.2019
Capacity of DG	: <b>380 KVA</b>
Source of Emission	: Stack Attached to DG
Instrument used	: Stack Sampler APM 160 (Sr.No. 88-DTL - 2016)
Instrument Calibration Status	: Calibrated (upto 30-12-2019)
Type of stack	: Metal
Type of fuel used	: HSD
Stack height (from the ground level)	: 6 meter
Stack diameter (at the sampling point)	: 6 Inch
Location of sampling point	: As per standard norms
Purpose of sampling	: Monitoring
Sample collected by	: By our lab representative
Period of testing	: 23.08.2019 to 28.08.2019

#### A Observations:

S. No.	Particulars	Data Observed
1	Stack gas temperature, °C	: 295.0
2	Temperature at Metering point, °C	: 35.0
3	Avg. stack gas velocity, m/sec	: 16.52
4	Sampling flow rate, Lt./min.	: 17.0
5	Period of sampling, Minutes	: 30.0
6	Volumetric flow rate, Nm <sup>3</sup> / Hr	: 546.92

#### B. Results:

S.N.	Parameters	Results	Standard Limits	Protocol Used
<b>Discipline - Chemical, Group - Atmospheric Pollution</b>				
1	Particulate Matter (PM), gm/Kwh	0.11	0.30 max.	IS 11255 (P-1) : 1985
2	Oxides of Nitrogen (NO <sub>x</sub> ), gm/Kwh	0.29	9.20 max.	SOP No. HTH/QF/5.4/2/CH-02/23
3	Carbon Monoxide (CO), gm/Kwh	0.12	3.50 max.	SOP No. HTH/QF/5.4/2/CH-02/23
4	Hydrocarbon (HC), gm/Kwh	0.03	1.30 max.	SOP No. By HTH/QF/5-4/2/CH-02/25

Mgr. Lab./ Sr. Chemist

Authorised Signatory

(Page 1 of 1)

Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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3. Sample will be destroyed after one month from the date of issue of test certificate.  
4. The results are related to the test items only.







# HARYANA TEST HOUSE

## & Consultancy Services

NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

Web Site : www.haryanatesthouse.net, e-mail : info@haryanatesthouse.net, haryanatesthousecs@gmail.com

Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

### TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**  
Vilage & PO Nathupur,  
Sonapat (HR)

**Job Order No:** HTH/CH/190823036, **Dt.:** 23.08.2019

**ULR No. :** TC781119100008810F

**Reporting Date :** 28.08.2019

**Party's Ref No:** Nil

#### Sample Description: Stack Emission (Incinerator)

Type of Industry	: Pesticides Industry
Name of Plant/ Section	: Incinerator Section
Date of sampling	: 23.08.2019
Capacity of incinerator	: 50 Kg solid/ Hrs or 200 litre liquid / Hrs
Source of Emission	: Stack Attached to Incinerator
Instrument used	: Stack Sampler APM 160 (Sr.No. 88-DTL – 2016)
Instrument Calibration Status	: Calibrated (upto 30-12-2019)
Type of Stack	: Metal
Type of Fuel used	: HSD
Stack height (from the ground level)	: 30 meter
Stack diameter (at the sampling point)	: 300 mm
Location of sampling point	: As per standard norms
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative
Type of APCM Installed	: Quancher + Venury Scrubber + Packed Bed Scrubber
Period of testing	: 23.08.2019 to 28.08.2019

#### A. Observations:

S. No.	Particulars	Data Observed
1	Stack gas temperature, °C	: 111.0
2	Metering point temperature, °C	: 36.0
3	Avg. stack gas velocity, m/sec	: 6.44
4	Sampling flow rate, Lt./min.	: 22.0
5	Period of sampling, Minutes	: 40.0
6	Volumetric flow rate, Nm <sup>3</sup> / Hr	: 1238.90

#### B. RESULTS:

S. No.	Parameters	Results	Standard Limits (CPCB)	Protocol Used
<b>Discipline - Chemical, Group - Atmospheric Pollution</b>				
1	Particulate Matter (PM), mg/Nm <sup>3</sup>	48.73	50 max.	IS 11255 (P-1) : 1985
2	Sulphur Dioxide (SO <sub>2</sub> ), mg/Nm <sup>3</sup>	2.62	200 max.	SOP No. HTH/QF/5.4/2/CH-02/23
3	Oxides of Nitrogen (NO <sub>x</sub> ), mg/Nm <sup>3</sup>	148.63	400 max.	SOP No. HTH/QF/5.4/2/CH-02/23
4	Carbon Monoxide (CO), mg/Nm <sup>3</sup>	97.83	100 max.	SOP No. HTH/QF/5.4/2/CH-02/23
5	Oxygen (as O <sub>2</sub> ), %	10.80	--	SOP No. HTH/QF/5.4/2/CH-02/23

\*Corrected to 12% CO<sub>2</sub>

Mgr. (Lab.)/ Sr. Chemist

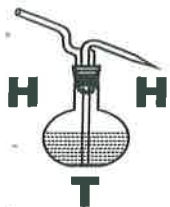
Authorised Signatory

(Page 1 of 1)

Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

Web Site : www.haryanatesthouse.net, e-mail : info@haryanatesthouse.net, haryanatesthousecs@gmail.com

Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

### TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**  
Village & PO Nathupur,  
Sonapat (HR)

Job Order No: HTH/CH/190823046, Dt.: 23.08.2019

ULR No. : TC781119100009497F

Reporting Date : 28.08.2019

Party's Ref No: Nil

#### Sample Description: Stack Emission

Type of Industry	: Pesticides Industry
Name of Plant/ Section	: Scrubber Section
Date of sampling	: 23.08.2019
Source of Emission	: Stack Attached to Scrubber Section
Instrument used	: Stack Sampler APM 160 (Sr.No. 88-DTL – 2016)
Instrument Calibration Status	: Calibrated (upto 30-12-2019)
Type of stack	: HDPE42.0
Stack height (from the ground level)	: 12 meter
Stack diameter (at the sampling point)	: 150 mm
Location of sampling point	: As per standard norms
Purpose of sampling	: Monitoring
Sample collected by	: By our lab representative
Type of APCM installed	: Wet Scrubber
Period of testing	: 23.08.2019 to 28.08.2019

#### A Observations:

S. No.	Particulars	Data Observed
1	Stack gas temperature, °C	: 47.0
2	Temperature at Metering point, °C	: 32.0
3	Avg. stack gas velocity, m/sec	: 5.12
4	Sampling flow rate, Lt./min.	: 21.0
5	Period of sampling, Minutes	: 30.0
6	Volumetric flow rate, Nm <sup>3</sup> / Hr	: 291.47

#### B. Results:

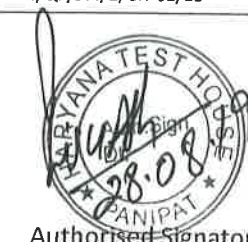
S.N.	Parameters	Results	Standard Limits (CPCB)	Protocol Used
<b>Discipline - Chemical, Group - Atmospheric Pollution</b>				
1	Particulate Matter (PM), mg/Nm <sup>3</sup>	21.53	150 Max.	IS 11255 (P-1) : 1985
2	Oxides of Nitrogen (NO <sub>x</sub> ), mg/Nm <sup>3</sup>	< 2.62	--	SOP No. HTH/QF/5.4/2/CH-02/23
3	Carbon Monoxide (CO), mg/Nm <sup>3</sup>	< 1.88	--	SOP No. HTH/QF/5.4/2/CH-02/23

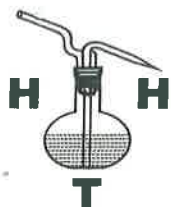
Mgr. (Lab.)/ Sr. Chemist

Authorised Signatory  
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NABL ACCREDITED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 104 (HR.)

Contact : (M) 86077-70160, (O) 0180-2671112

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Recognition / Accreditation : NABL / MoEF / FSSAI / BIS / PPCB / HSPCB / ISO 9001, 14001, 18001 Certified Lab.

## TEST CERTIFICATE

Issued to:

**M/S CRYSTAL CROP PROTECTION LTD.,**

Village & PO Nathupur,

Sonepat (HR)

**Job Order No:** HTH/CH/190823037, Dt.: 23.08.2019

**ULR No. :** TC781119100008811F

**Reporting Date :** 28.08.2019

**Party's Ref No:** Nil

**Sample Description:** Noise Level Monitoring- DG Noise

Type of Industry	: Pesticides Industry
Capacity of DG Set	: 380 KVA
Instrument used	: Sound Level Meter (SL- 1352)
Instrument Calibration Status	: Calibrated (upto 18-12-2019)
Date of measurement	: 23.08.2019
Purpose of analysis	: Monitoring
Sample Collected by	: By our lab. Representative

### OBSERVATION

S.N.	Point of Measurement	I	II	III	IV	V	VI
	Discipline - Chemical, Group – Atmospheric Pollution						
1	DG 380 KVA (Close Canopy) (1.0 meter away from DG)	74.5	70.4	69.7	72.3	68.4	74.8

### TEST RESULTS

S.N.	Point of Measurement	Noise Level (dB "A")			Standard Limits (dB "A") (CPCB)
		L <sub>min</sub>	L <sub>maxi</sub>	L <sub>eq</sub>	
1	DG 380 KVA (Close Canopy) (1.0 meter away from DG)	68.4	74.8	73.0	75 max

Note: At the time of measurement DG Set was in operation.

Leq:- It is an energy mean of the noise level over a specified period

TO100

Mgr. Lab./ Sr. Chemist



Signature of Authorised Signatory  
28.08.19

Authorised Signatory

(Page 1 of 1)

Contact Nos. : 098966-00073 (Off. /Acc.), 099916-75756 (Env.)

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  4. The results are related to the test items only.

*O/C*



To,  
The Regional Officer,  
Haryana State Pollution Control Board,  
Delhi Road, Sonapat (Haryana)

Date 30-09-2019

Subject : Submission of Environmental Statement for the year 2018-19 in Form -V.

Dear Sir,

We are submitting herewith environment statement of our industry for the year 2018-19 in prescribed FORM -V along with necessary Annexures.

Hope your goodness will find everything in order,

Thanking You

Yours Truly

For CRYSTAL CROP PROTECTION LTD

*Received  
04/10/2019*

  
Authorized Signatory

Enclosures: Environment Statement of our industry for 2018-2019 along with Annexures-1,2,3&4.



**Crystal Crop Protection Limited**

(Formerly known as Crystal Crop Protection Pvt Ltd.)

**Works Address:** V.P.O. Nathupur, Sonapat-131029, Haryana | Tel: +91-130-2219286, 91-130-2219289,

**Corporate Address:** B-95, Wazirpur Industrial Area, Wazirpur, Delhi - 110052, India | Tel: +91-11-49007100, +91-11-27006800 | Fax: +91-11-49007200,

**Registered Address:** 206, Second Floor, Span Trade Centre, Opp. Kochrab Gandhi Ashram, Near Paldi Char Raasta Ashram Road,  
Ellisbridge, Ahmedabad - 380006, Gujarat | Tel & Fax: +91-79-26578923

CIN : U01403GJ1994PLC097033 | info@crystalcrop.com | www.crystalcropprotection.com



<sup>1</sup>[FORM – V]

(See rule 14)

**Environmental Statement for the financial year ending the 31<sup>st</sup> March 2019**

**PART – A**

- (i) Name and address of the owner/occupier of the industry operation or process;

**M/s Crystal Crop Protection Ltd (Formally Known as M/S Crystal Crop Protection Pvt Ltd)  
VPO: Nathupur , Distt: Sonapat, HARYANA**

- (ii) Industry category Primary ---- (STC code) Secondary. ----- (SIC Code)  
"Pesticide Manufacturing Industry"

- (iii) Production capacity. – 21 MTPD

Product wise actual Production data		
Name of Product	Quantity manufactured during previous financial year in kg	Quantity manufactured during current financial year in kg
Thiamethoxam	88581	82190
Tricyclazole	24775	38675
Imidacloprid	163234	248215
Clodinafop-Propargyl	-	34350
Quizalofop-Ethyl	-	24200

- (iv) Year of establishment - 2014

- (v) Date of the last environmental statement submitted  
13-08-2018

**PART – B**

**Water and River Material Consumption**

- (1) Water consumption M<sup>3</sup>/d:

Consumed for	Fresh	Recycled	Total
Process	1.5M <sup>3</sup> /d	12.5 M <sup>3</sup> /d	14.0 M <sup>3</sup> /d
Cooling	8.0 M <sup>3</sup> /d	7.5 M <sup>3</sup> /d	15.5 M <sup>3</sup> /d
Domestic	2 M <sup>3</sup> /d	-	2 M <sup>3</sup> /d

Name of products	Process Water Consumption Per Unit of Product	
	During the previous Financial Year	During the current Financial Year
Thiamethoxam	5 KL/MT	3.5 KL/MT
Tricyclazole	3 KL/MT	3 KL/MT
Imidacloprid	4.5 KL/MT	4.5 KL/MT
Clodinafop	-	0.5
Quizalofop Ethyl	-	2.0



ii) Raw Material Consumption

Name of Raw Materials	Name of Products	Consumption of Raw Materials Per Unit of Product	
		During the Previous Financial Year	During the Current Financial Year
2-Chloro-5-Chloro Methylthiazole	Thiamethoxam	740 Kg/MT	740 Kg/MT
3-Methyl-4-nitroimino Perhydro-1,3,5-oxidiazine		740 Kg/MT	740 Kg/MT
Methanol		250 Kg/MT	250 Kg/MT
Sodium Hydroxide		200 Kg/MT	200 Kg/MT
Hydrochloric Acid 30 %		50 Kg/MT	50 Kg/MT
Dimethylformamide		300 Kg/MT	300 Kg/MT
Sodium Hypochlorite		80 Kg/MT	80 Kg/MT
2-hydrazino-4 methyl benzothiazole	Tricyclazole	1025 Kg/MT	1025 Kg/MT
Formic acid		750 Kg/MT	750 Kg/MT
2 Chloro-5-chloromethylpyridine ( 60% in DMF)	Imidacloprid	1240 Kg/MT	1240 Kg/MT
2- Nitroiminoimidazolidine		800 Kg/MT	800 Kg/MT
Sodium Hydroxide		250 Kg/MT	250 Kg/MT
Ethylenedichloride		350 Kg/MT	350 Kg/MT
Methanol		420 Kg/MT	420 Kg/MT
Hydrochloric Acid		130 Kg/MT	130 Kg/MT
R-Hydroxy(Phenoxy) Propionic Acid	Clodinafop-Propargyl	-	610 Kg/MT
5-chloro-2,3-di-fluoro pyridine		-	530 Kg/MT
Potassium Carbonate		-	990 Kg/MT
Propargyl Chloride		-	410 Kg/MT
Dimethylformamide		-	750 Kg/MT
Methanol		-	450 Kg/MT
(R)-Ethyl Hydroxy(phenoxy) propanoate	Quizalofop-Ethyl	-	641 Kg/MT
2,6-Dichloro Quinoxaline		-	584 Kg/MT
Potassium Carbonate		-	411 Kg/MT
Dimethylformamide		-	300 Kg/MT
Hexane/Toluene		-	100 Kg/MT
Methanol		-	600 Kg/MT

\*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.



## PART- C

Pollution discharged to environment/unit of output  
(Parameter as specified in the consent issued)

1) Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reason																											
a) Water	No Effluent discharged recycled to the process, ZLD unit.	<div>No water discharged however ETP inlet &amp; outlet analysis report is as under<table><tr><th>Parameter</th><th>ETP inlet result</th><th>ETP outlet result</th></tr><tr><td>Appearance</td><td>Light Yellow</td><td>Yellowish</td></tr><tr><td>Odour</td><td>Mild</td><td>Odorless</td></tr><tr><td>pH</td><td>8.23</td><td>8.03</td></tr><tr><td>COD mg/l</td><td>480.0</td><td>115.0</td></tr><tr><td>BOD at 27°C 3days mg/l</td><td>164.0</td><td>21.0</td></tr><tr><td>TSS mg/l</td><td>134.0</td><td>16.0</td></tr><tr><td>O&amp;G</td><td>17.2</td><td>2.8</td></tr><tr><td></td><td></td><td></td></tr></table></div>	Parameter	ETP inlet result	ETP outlet result	Appearance	Light Yellow	Yellowish	Odour	Mild	Odorless	pH	8.23	8.03	COD mg/l	480.0	115.0	BOD at 27°C 3days mg/l	164.0	21.0	TSS mg/l	134.0	16.0	O&G	17.2	2.8				Within standard limits
Parameter	ETP inlet result	ETP outlet result																												
Appearance	Light Yellow	Yellowish																												
Odour	Mild	Odorless																												
pH	8.23	8.03																												
COD mg/l	480.0	115.0																												
BOD at 27°C 3days mg/l	164.0	21.0																												
TSS mg/l	134.0	16.0																												
O&G	17.2	2.8																												
b) Air																														
Boiler Stack	Volumetric flow rate 5288.25 NM3 / Hr.	Particulate Matter- 343.91 mg/Nm3 SO2- 5.24 mg/ Nm3 NO2- 15.05 mg/Nm3 CO2- 6.9 %	Within standard limits																											
Incinerator Stack	Volumetric flow rate- 1524.55 NM3/Hr.	Particulate Matter- 28.54 mg/Nm3 SO2<2.62 mg/Nm3 NO2- 33.87mg/Nm3 CO- 5.64 mg/Nm3 O2 – 10.40	Within standard limits																											
Wet Scrubber	Volumetric flow rate – 357.29 Nm3/Hr	Particulate Matter- 18.49 mg/Nm3 SO2 < 2.62 mg/Nm3 NO2 < 1.88 mg/Nm3	Within standard limits																											
DG Set ( 380 KVA)	Volumetric flow rate – 492.52 Nm3/Hr	Particulate Matter – 0.09 gm/Kwh NO2 – 0.25 gm/Kwh CO – 0.12 gm/ Kwh HC- 0.03 gm/Kwh	Within standard limits																											
Ambient	Sampling Flow 1.206 m3/min	(PM10)- 92.97 µg/m3,(PM 2.5) – 56.41 µg/m3 SO2-17.76 µg/m3,NO2- 35.85 µg/m3,NH3-72.91 µg/m3,Pb < 0.0µg/m3 O3- 34.58 µg/m3,CO < 1.15mg/m3 C6H6 < 1.0 µg/m3 , BaP < 0.2 ng/m3, Ni < 1.0 ng/m3, As < 0.5 ng/m3	Within standard limits																											



## PART – D



**Hazardous Wastes**

(As specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Waste	Total Quantity Disposed (Kg)	
	During The Previous Financial Year	During the Current Financial Year
a) From Process		
i) Residue from Solvent Purification	5550 kg incinerated	3970 kg incinerated
ii) Used Mobile Oil	186 liters Used for lubrication of lathe machine gears etc.	150 liters Used for lubrication of lathe machine gears etc.
b) From Pollution Control Facility	---	---



Solid Waste	Total Quantity Disposed (Kg)	
	During The Previous Financial Year	During the Current Financial Year
a) From Process ( Process Sludge)	4755 KG	4395 KG
b) From Pollution Control Facility ( MEE Sludge)	4960 KG	4030 KG
c) Incinerated Ash d) Plastic Waste e) Cotton Waste	90 KG 245 KG 20 KG	50 KG - KG - KG
f) (1) Quantity Recycled or re-utilized within the unit	NIL	NIL
(2) Sold	NIL	NIL
(3) Disposed	10070 Kg Given to GEPIL	8475 Kg Given to GEPIL

#### PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

S.No.	Category	Quantity	Disposal Method
Hazardous Waste			
1	Solvent Residue	3970 kg	Incinerated in dual Furnace incinerator
2	Used Oil	150 Liters	Used for lubrication of lathe machine gears etc.
Solid Waste			
1	Process Sludge	4395 Kg	To GEPIL ( Approved TSDF),agreement enclosed
2	M.E.E Sludge	4030 Kg	To GEPIL ( Approved TSDF),agreement enclosed
3	Incinerated Ash	50 Kg	To GEPIL ( Approved TSDF),agreement enclosed



## **PART – G**

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

1. By installing a ' Multi Effect Evaporator ' capable of evaporating of 15 KL/Day equipped with latest devices like Calandrias & agitated Thin Film Drier and Reverse Osmosis Plant .  
The System enables complete recycling of waste – water after purification.
2. By installation of 'Online Effluent Quality Monitoring System' data of which is online and is being monitored by CPCB, HSPCB & our officers on duty.
3. By installing a high temperature dual furnace Incinerator of 50 Kg solid /200 Litre liquid per hour equipped with air pollution control devices to capture particulate & gaseous emission contaminates.
4. Green belt is developed at inside of the premises to reduce pollution & also increasing the scenic beauty.
5. D.G set is equipped with acoustic enclosure & stacks of adequate height to reduce the noise & control the stack emission to abate air pollution.
6. By installing ' Continuous Online Effluent Monitoring Devices'

## **PART – H**

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

1. Multi effect evaporator - Reduces Fresh water requirement.
2. Acoustic Enclosure of DG Set – Reduces Noise pollution.
3. High Temperature Incinerator equipped with air pollution control devices-reduces air pollution.
4. Solid waste Management practice – helps in reducing pollution.
5. Continuous Online Effluent Monitoring Devices – Monitor effluent quality.
6. Online Stack Monitoring Devices are proposed to be installed shortly.

## **PART – I**

Any other particulars for improving the quality of the environment.

To minimizing any vapor or fumes we have installed dual condensers on every reactors, utility in primary condenser is cooling water & chilled brine secondary condenser, even vents of secondary condensers are connected to wet scrubber. Also we have installed excess capacities of utilities, a 500 TR cooling tower & 30 TR Brine chilling plant at – 25 deg C.





### **List of Annexures**

1. Copy of Environment Clearance issued from MoEF – Annexure -1.
2. Copy of Waste Disposal Agreement done with Gujrat Enviro Protection & Infrastructure (Haryana) Pvt. Ltd. - Annexure – 2.
3. Copy of consent to operate issued by HSPCB valid up to 30/09/2022 - Annexure -3.
4. Copy of analysis reports of ETP inlet outlet ,Boiler Stack ,Incinerator Stack, Wet Scrubber Stack ,DG Stack & Ambient Air - Annexure – 4

