

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

Date: 15.01.2023

Subject: Point-wise December 2022 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.

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 Sonipat, Haryana in the name of Crystal Phosphates Limited transfer vide MoEF&CC letter No. J-11011/120/2011-IA II(I) dated 13th 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/ :313100922SONCTO25868033 valid up to 30.09.2024. In this regard, as per the conditions laid down in the Environmental Clearance Letter, we are hereby submitting the following:

- Point-wise December 2022Compliance Report-Annexure-I 1.
- Site Photographs Annexure II 2.
- Copy of Environmental Clearance-Annexure-III 3.
- Copy of NOC-Annexure-IV 4.
- Copy of CTO from HSPCB-Annexure-V 5.
- Copy of Forest Permission-Annexure-VI 6.
- 7. Copy of Fire NOC-Annexure-VII
- Copy of CGWA Permission -Annexure-VIII 8.
- Copy of waste disposal agreement with GEPIL- Annexure IX 9.
- Copies of recent Reports of the test conducted by MoEF&CC approved lab Annexure X 10.
- Copy of latest Environmental Statement submitted on Form V 11.

We hope that this will fulfill all the requirements.

Thanking You,

Yours Faithfully

Protection Limited. For Crystal Cr

(Authorized Signatory)

CC: Regional Officer (HSPCB) Sonipat (Haryana)

Crystal Crop Protection Limited

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

Works Address: V.P.O. Nathupur, Sonepat-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,

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

Annexure-1 December 2022 Compliance Report

POINT WISE DECEMBER 2022 COMPLIANCE REPORT

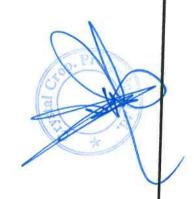
EXPANSION OF PESTICIDE
MANUFACTURING UNIT
AT
VILLAGE NATHUPUR - 131029,
DIST. SONEPAT,
HARYANA

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

Azadpur, Delhi-110033

1. INTRODUCTION:-

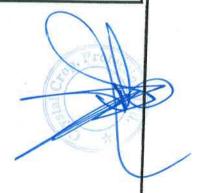
Name of the project	Expansion of the existing Pesticide Formulation Plant (90 MTPD) by installing Pesticide Manufacturing Unit (21 MTPD)
Developed by	M/s Crystal Crop Protection Ltd.
Site address	Village Nathupur, District Sonipat, Haryana
Environment	J-11011/120/2011-IA II(I) dated 23.05.2012
Clearance	transferred in the name of Crystal Crop Protection Limited
Letter No:	vide Letter No. J-11011/120/2011-IA II(I) dated 13.04.2018
Project	Project involves the expansion of the existing Pesticide Formulation Plant (90
Description	MTPD) by installing Pesticide Manufacturing Unit (21 MTPD)
Construction Status	Construction has already been completed, now the plant is running. Consent to Operate has already been taken from Haryana Pollution Control Board vide their letter No. HSPCB/Consent/: 313100922SONCTO25868033 valid up to 30.09.2024.
Year of	2013
Commenceme	
nt	
Year of Completion	2014



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 Sonepat, Haryana The total estimated cost of the project is Rs. 15 Crores. The project has the following salient features: -

		T
Description	Existing Factory	After Expansion
Total Plot Area	5842.4 m ²	18005 m ²
Green Area	2542.9 m ²	5941 m ²
Total Build up area	3229,5 m ²	8564 m ²
Production	Formulation 90 tons/day	Addition of Technical Grade-21 tons/day
Solid waste Generation Process Waste Hazardous waste	2.5 KG NIL NIL	10 kg /day 20 kg/day 19 kg/day
Water Requirement	4 KLD	12 KLD
Waste Water To ETP STP ETP	2 KLD 15 KLD NIL	12 KLD 2 KLD 12 KLD
Electric Load	200 KVA	625 KVA
APCS	NIL	Yes
Incinerator	NIL	Installed
Multi Effect Evaporator	NIL	Installed



A. Compliance to Specific Conditions

Point No.1	National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3 rd February, 2006 and amended time to time shall be followed.
Action Taken	
Point No.2	Permission shall be obtained from the State Forest Department regarding the impact of the proposed project on the surrounding reserve forest.
Action Taken	Necessary permission from Forest department has been obtained and enclosed as Annexure-VI.
Point No.3	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.
Action Taken	No thermic fluid heater has been installed by the company. Separate 30 Meter high stacks have been separately provided for boiler & Incinerator. Online stack monitors have already been installed to all stacks, and the data is continuously on air which is being monitored by CPCB & HSPCB. (see enclosed photographs)
Point No.4	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 Ministry's regional office at Chandigarh.
Action Taken	Three stage scrubbers consisting of graphite tube scrubber, venturi scrubber and packed bad post scrubber has already been provided. The scrubbing media is being sent to effluent treatment plant (ETP) for treatment. Online stack monitoring systems have already installed on each stack and Stack monitoring is also being regularly monitored by HSPCB & MOEF approved laboratory to ensure that emission is under permissible limit. (see enclosed photographs)
D 1 . N . E	
Point No.5	In order to control odour, outlet of process vents shall be connected to the incinerator
Action Taken	Odour control technologies are being adopted, vents are connected to scrubber.
Point No.6	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S.R. No. 826(E) Dated 16 th November, 2009 shall be followed be the unit.
Action Taken	National Ambient Air Quality Emission Standards issued by the Ministry vide G. S.R. No. 826(E) Dated 16 th November, 2009 are being followed. Ambient air quality is monitoring is being done by third party who are approved by HSPCB.

Point No.7	In plant control measures for cheeking 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 be 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 has been channelized to Dust Collectors & Cyclone arrangements. The emissions shall conform to the limits stipulated be the HSPCB.
Point No.8	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.
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)

Point No.11	The gaseous emissions from DG set shall be dispersed through adequate stack heigh as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
Action Taken	
Point No.12	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 ₁₀ , SO ₂ , NOX, 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.
Action Taken	Status of compliance of the stipulated environmental clearance conditions has been uploaded on website link Crystal Crop-Corprategovernance (crystalcrop.protection.com). Company has also already installed "Continuous Online Effluent and stacks Monitoring Devices" and the data is also being aired which is also visible to CPCB & HSPCB at URL:http://nevcodata.com and URL:http://glens.glenserver.com.
Point No.13	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%.
Action Taken	Chilled brine circulation system (having temp. up to -25 °C has been provided to condensate solvent vapors and reduce solvent losses. Solvent recovery up to 95% has been made.
Point No.14 Action Taken	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 stored in separate space specified with all safety measures. iv. Proper Earthing shall be provided in all the electrical equipment wherever solvent handling is done. v. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses. All suggested measures for solvent management have been adopted. All reactors have
	been connected to chilled brine condensers, all condensers have been placed on separate floor, each equipment has been provided proper earthlings. All electrical devices which we have used in entire plant are flameproof. (see photographs)
Point No.15	Total Water requirement from ground water source shall not exceed 23m ³ /day and prior permission shall be obtained from CGWA/SGWA.

Action Taken	fotal 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
Point No.16	Industrial wastewater generation shall not exceed 8.3 m³/day. Total process effluent (8.3m³/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 striper 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.
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 http://glens.glenserver.com & HSPCB at https://hspcb.glensserver.com
Point No.17	No effluent shall be discharged outside the premises and Zero discharge concept shall be adopted.
Action Taken	We have adopted zero discharge concept in our unit. (please see enclosed chart)
Point No.18	Incinerator comprising primary and secondary chamber shall be designed as per CPCB guidelines. SO2, NOx, HCL and CO emissions shall be monitored in the stack regularly.
Action Taken	Incinerator is designed as per CPCB guidelines
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.
Action Taken	Hazardous chemicals are stored properly and flame arresters have been provided on tank farms.
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.
Action Taken	Authorization under the Hazardous Waste (Management, Handling and Trans Boundary Movement) Rules, 2016 and amended as on date has already obtained. Authorization No. is HWM/SON/2022/5745536 which is valid till 30/09/2024 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.

Point No.21	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.
Action Taken	
Point No.22	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.
Action Taken	We will comply with the requirement.
Point No.23	 The company shall undertake following waste minimization measures:- Metering and control of quantities of active ingredients to minimize waste. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. Use of automated filling to minimize spillage. Use of Close Feed system into batch reactors. Venting equipment through vapour recovery system. Use of high pressure hoses for equipment clearing to reduce waste water generation.
Action Taken	Suggested waste minimization techniques have been adopted in proposed expansion of the unit.
Point No.24	The unit shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
Action Taken	Arrangements for protection of possible fire hazards during manufacturing process in material handling have been made. Hydrant monitoring system has been provided as a fire fighting system as per the norms.
Point No.25	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
Action Taken	We are complying with the condition during construction phase and it shall be complied during operation phase.
Point No.26	Green belt shall be developed at least in 33% of the plant area in and around 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.
Action Taken	Adequate green area has been developed in and around the Plant. Selection of plant species are as per the CPCB guidelines.
Point No.27	All the commitments made during the Public hearing/Public Consultation meeting held on 21 st December, 2010 shall be satisfactorily implemented and adequate budget provision should be made accordingly.
Action Taken	Noted. We will comply.

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 already been provided on each points in plant. All electrical equipments and fittings are flameproof. Proper earthing have been provided to equipment and solvent piping.
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/:
	3131009122SONCTO25868033 which is valid till 30.09.2024, 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).
Daint Na 4	The overall noise levels in and around the plant area shall be kept well within the
Point No.4	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.
	10:116

Point No.5	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.
Action Taken	Since floor water harvesting is risky in pesticide industry thus we have adopted roof-water harvesting system.
Point No.6	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accident spillage with domestic wastewater and storm water drains.
Action Taken	Spillage shall be avoided during the transfer of material, garland drains has been constructed to avoid mixing of accidental spillage with domestic wastewater and storm water drains.
Point No.7	Usage of personnel protection equipments by all employees/ workers shall be ensured.
Action Taken	Workers have been provided with personnel protection equipments for use during operation of the plant. Health and safety norms are being followed during all type of operation in the plant.
Point No.8	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.
Action Taken	Trainings are regularly being provided by own EHS team and external trainers. Medical checkups are also regularly being done by visiting Doctor.
Point No.9	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.
Action Taken	We will comply Sir.
Point No.10	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
Action Taken	Company has been contributing to various charitable trusts which are into children
	education, farmers sustainability & development and healthcare activities. Company
	has been funding renowned NGO. Details from 1 July 2022 to 31 December 2022
	are given below;
	DETAILS OF EXPENSES Amount (Rs.)
	1. Promoting healthcare and sanitation.
	2. Promoting education.
	3. Miscellaneous activities
	as per CSR Policy. 16938943.00
-	
	Total 16938943.00

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 Parisad 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

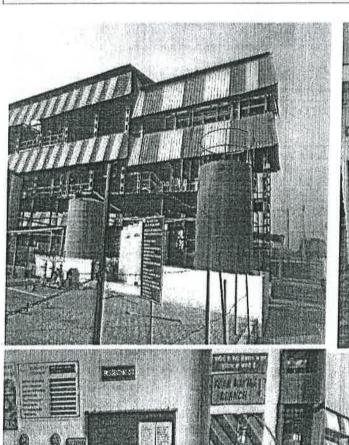
Point No.15	The project proponent shall also submit six monthly reports on the status of		
	compliance of the stipulated Environment Clearance conditions including results of		
	monitored data (both in hard copies as well as by e-mail) to the respective Region		
	Office of MoEF, the respective Zonal 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 31st 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.

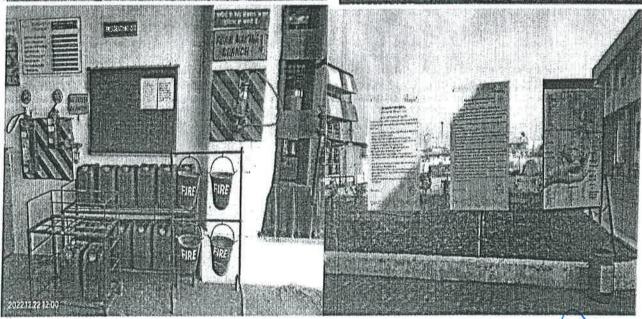
Action Taken	We are regularly submitting Environmental Statement on Form V, copy of the same is enclosed as Annexure X
Point No.17	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with 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.
Action Taken	We have already complied with the requirement.
Point No.18	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.
Action Taken	Noted Sir



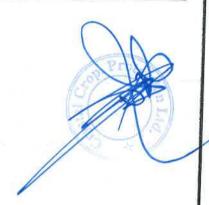
Annexure-2 Site Photographs December 2022 Compliance Report







Annexure-3 Copy of Environmental Clearance December 2022 Compliance Report



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 Telefax: 011: 2436 6017 Dated 23rd May, 2012

M/s Crystal Phosphate Ltd. M-5, Gl/17, Industrial Area, G.T. Kamal Road, Azadpur Delhi-110033.

E-mail: 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 Sonepat, Haryana by M/s Crystal Phosphates Limited – Environmental Clearance reg.

Ref. : Your letter no. nil dated 5th February, 2011.

Sir.

Kindly refer your letter dated 5th 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 27th April, 2011, 13th June, 2011 and 10th 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 Sonepat, Haryana by M/s Crystal Phosphates Limited. Total plot area is 18,005 m². 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.	1 I OUUCE	Capacity
1	2,4-D Ethyl Ester Tech	. 2 MTPD
2	Glyphosale Tech	5 MTPD
3	Pretilachlor / Butachlor Tech	3A 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
6	Syntetic Pyrethroides i.e. Lambda Cyhalothrin	2 MTPD
9	Propiconazoles	2 MTPD
10	Copper Oxy Chloride Technical	1 MTPD
	Matalaxyl Technical	0.5 MTPD
2	Acephate Technical	1.5 MTPD
	Ethephone Technical	OTTM 5.0
	Tricycloazoles	0.6 MTPD
5 (Clodinofop propargy Technical	1.5 MTPD
	Total	21 MIPS

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- 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 m³/day. Industrial wastewater generation will be 8.3 m³/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 84th 25th and 30th meetings held during 21st August, 2008, 28th—30th July, 2011and 15th—16th 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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3rd 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.
- 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 16th 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



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:
 - Closed handling system shall be provided for chemicals.
 - 2. Reflux condenser shall be provided over reactor.
 - System of leak detection and repair of pump/pipeline based on preventive maintenance.
 - 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.
- 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.
- 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 CPOB and the HSPOB. The levels of PM₁₀, SO₂, NO_x, VOC, HCI 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:
 - 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.
 - 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 m³/day and prior permission shall be obtained from the CGWA/SGWA.



- ndustrial wastewater generation shall not exceed 8.3 m²/day. Total process effluent (8.3 m²/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 striper 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. SO₂, NOx, 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.
- 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:-
 - 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.



- xxvii) All the commitments made during the Public Hearing / Public Consultation meeting held on 21st 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.
- 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.
- 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 accustic hoods, silencers, enclosures etc. on all spurces 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.

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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 :-

 The Principal Secretary, Environment Department, Government of Haryana, SCO 1-2-3, Sector 17-D (2rd Floor), Chandigarh.

 The Chief Conservator of Forests (Central), Regional Office (Northern Zone), Bay No.24-25, Sector 31-A, Dakshim Marg, Chandigarh-160030.

The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.

4. The Chalman, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula.

 The Joint Secretary, IA Division, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.

 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: 13th 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 Sonepat (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 8th March, 2018. regarding transfer of environmental clearance from M/s Crystal Phosphates Limited to M/s Crystal Crop Protection Limited.

- The Ministry had earlier granted environmental clearance vide letter dated 23rd 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 Sonepat (Haryana), in favour of M/s Crystal Phosphates Limited.
- M/s Crystal Crop Protection Limited vide letter dated 8th 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 Houble High Court of Delhi vide order dated 2nd 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 3rd 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 23rd May, 2012 issued in the name of M/s Crystal Phosphates Limited.
- As per the relevant provisions of the EIA Notification, 2006, the environmental clearance granted by the Ministry vide letter dated 23rd 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 Sonepat (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.
- This issues with approval of the competent authority. 6.

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

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 Discussion for the environmental Pollution Control Board, Paper & Discussor, Chipternas Aug., Complex, Capit Repressages, Defler, 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

S// 13/97 / 13 (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: 16th 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 Sonepat (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 27th September, 2016, on the above subject matter.

- 2. The Ministry had earlier granted environmental clearance vide letter dated 23rd 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 Sonepat (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 23rd 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 20th 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 23rd 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.

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- 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 23rd May, 2012, for the revised scope of work as stated in para 3.
- 7. This issues with approval of the competent authority.

(S. K. Srivastava)
Scientist E

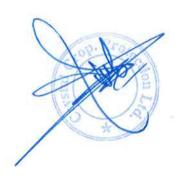
Copy to:-

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

3. Guard File/Monitoring File/Website/Record File

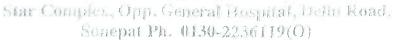
(S. K. Srivastava)
Scientist E

Annexure-4. Copy of NOC December 2022 Compliance Report





TRAKS ARE STATE PUBLICATION CRESTINGS. BOARD



Website: www.hspcb.gov.in E-Mail - hsp. HSPCF Telephone No.: (1172-25)

Noc

Authorization Tech Plumt

No. HSPCB/Consent/: 313100918SONCTE5292349

Dated:14/06/2018

To.

3. TSS

100 mg/l

M/s: CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT VILLAGE NATHUPUR, DISTINSONERAT

SONIPAT

131029

Sub.: Grant of consent to Establish to M/s CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT

Please refer to your application no. 5292349 received on dated 2018-06-06 in regional office Sonipat.

With reference to your above application for consent to establish, M/s CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT is here by granted consent as per following specification/Terms and conditions.

Consent Under	AIR/WATER		
Period of consent	14/06/2018 - 13/06/2023		
Industry Type	Pesticides (technical) (excluding formulation)		
Category V	RED TO THE		
Investment(In Dakh)	(4) 1030-68005		
Total Land Area (meter)	Sq. 81190		
Total Builtup Area (Semeter)	g. 3226.0		
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		
Permissible Domestic	Effluent Parameters		
. NA			
Permissible Trade Eff	luent Parameters		
. BOD	30 mg/l		
. COD	250 mg/l		
	The same of the sa		

Philosope of any		
Digital of star)		
1. Attached is (3No)	ALX MAN Minimane	
Permissible Iso	ission parameters	
L SPM	150 mg/m3	
Capacity of hoi	er	
1. Boiler	Ton/hr	
Type of Furnac	3	
I. NA		
Type of Fuel		
I. Diesel	0.100 KL/day	

Regional Officer, Sonipat Häryana State Pollution Control Board.

Terms and conditions

- 1. The industry has declared that the quantity of effluent shall be 17 KL/Day i.c. 15.0KL/Day for Trade Effluent, 0 KL/Day for Cooling, 2.0 KL/Day for Domestic and the same should not exceed.
- 2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
- The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable.
- 4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.
- 5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act, 1981 as amended to-date-even before starting trial production
- 6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
- 7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience
- 8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
- 9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.
- 10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.

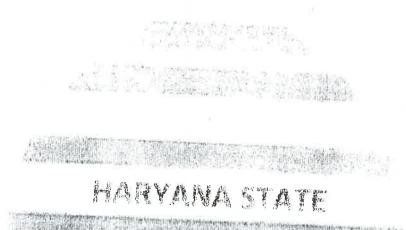
- That it first and that in case the activity is stied in an residential or institutional or approved and that in case the activity is stied in an residential or institutional or water that it and residential or institutional or commercial or agricultural area or controlled area under Lown and Country Planning laws C.1. U or Municipal laws has no be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.
- That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.
- That the industry 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.
- That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.
- 15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.
- That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.
- 17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.
- Industry should adopt water conservation measures to ensure minimum consumption
 of water in their Process. Ground water based proposals of new industries should get
 clearance from Central Ground Water Authority for scientific development of previous
 resource.
- 19. That the unit will take all other clearances from concerned agencies, whenever required.
- 20. That the unit will not change its process without the prior permission of the Board.
- 21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.
- 22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-tenchate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.
- 23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.
- 24. That unit will obtain EIA from MoEF, if required at any stage.
- 25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.
- 26. That unit will obtain consent to operate from the board before the start of product activity.

Specific Conditions

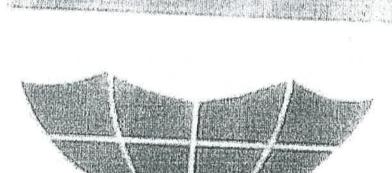
Other Conditions:

orthout rhange in its plant enjacity, quantity & quality of trade efficient/air emissions, and annufacturing process. 2. That unit will obtained CTO prior to the Commissioning of the unit. 3. That the CTE shall be valid up to five years or Date of commissioning whichever is earlier. 4. Unit will obtain prior permission from the board before installing any new polluting process. 5. of the land. 6. That the unit will comply with all the provisions of Hazardous & Other Waste Rules and will make agreement with Authorized Recycler of the Board for scientific disposal of as applicable before commissioning.

Regional Officer, Sonipat Haryana State Pollution Control Board.







Annexure-5 Copy of CTO from HSPCB
December 2022 Compliance Report



HARYANA STATE POLLUTION CONTROL BOARD



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

hspcbrosr@gmail.com E-mail: hspcb@hry.nic.in

No. HSPCB/Consent/: 313100922SONCTO25868033

Dated:24/08/2022

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. 25868033 received on dated 2022-06-30 in regional office Sonipat. 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	01/10/2022 - 30/09/2024		
Industry Type	Pesticides (technical) (excluding formulation)		
Category	RED		
Investment(In Lakh)	1030.6801		
Total Land Area(Sq. meter)	8119.0		
Total Builtup Area(Sq. meter)	3826.0		
Quantity of effluent	Carlo Palestonico de Carlo Car		
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 Parat	neters		
1. NA			
Trade Effluent Paramet	ers		
1. BOD	30 mg/l		
2. COD	250 mg/l		
3. TSS	100 mg/l		
1. O&G	10 mg/l		
5. pH	5.5-9.0		
Number of stacks	3		
leight of stack			

1. Attached to Boiler	30 Meter
	30 Meter
3. Attached to Process emission	16 Meter
Emission parameters	
1. SPM	150 mg/m3
2. SPM	1200 mg/m3
Product Details	
1. ay 1111 Imidachlopr Metric Tonnes/Day 111 Clothianidin Metric Tonnes/Day 11 Cypermethr	1
Capacity of boiler	
1. Boiler	2 Ton/hr
Type of Furnace	
1. Na	0. V 1677081800-10-0-11-11-14-0-0-44-0-24(9-10-49-2-7)
Type of Fuel	
1. Diesel	0.100 KL/day
2. Wood	9 Ton/day
Raw Material Details	ANYANA STATE
cloro 5 chloromethylthiazole 0.74 Metric Tonnes/Day 3 methyl 4 nitroimino oerhydro 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 values, 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 along with 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 by the Board.

Specific Conditions:

NAVEEN GULIA Dignally signed by NAVECA GULIA Date: 2022.08, 74 3 4 4 17 +05'30

Regional Officer, Sonipat

Haryana State Pollution Control Board.



Haryana State Pollution Control Board

Star Complex, Opp. General Hospital, Delhi Road, Sonepat Ph. 0130-2236119(O) Email:-hspcbrosr@gmail.com



No.: HWM/SON/2022/5745536

DT: 26/08/2022

To

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

Sub: Grant of Authorization under Hazardous and Other Wastes(Management & Transboundry Movement) Rules, 2016

- 1. Reference of application:5745536 dated: 26/08/2022
- 2. MAHENDER SINGH MALIK of CRYSTAL CROP PROTECTION LTD TECHNICAL PLANT is hereby granted an authorization for generation, collection, storage, incineration on the premises situated at VILLAGE NATHUPUR, DISTT. SONEPAT

Details of Authorization

S.No.	Name of process and Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity
1	Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems or other applications, Used/spent oil	Through Authorized Recycler	0.4 KL/Annu m
2	Production, and formulation of pesticides including stock-piles, Process wastes/residues	Through GEPIL	14 T/Annum
3	Purification and treatment of exhaust air, water and waste water from the treatment plants (CETP's), Chemical sludge from waste water treatment	Through GEPIL	14 T/Annum
4	Handling of Hazardous chemicals and wastes, Contaminated cotton rags or other cleaning materials	Through GEPIL	0.05 T/Annum
5	Hazardous waste treatment processes, e.g. pre-processing, incineration and concentration, Ash from incinerator and flue gas cleaning residue	0	0.150 T/Annum

Application no 5245536 Industry id: 1480N845142

Date: 26/08/2022

6	production and/or industrial use of	Through GEPIL	3 T/A navos
	solvents, Distillation residues		1/Annum

- The authorization shall be valid for a period of 01/10/2022 to 30/09/2024 I_{Ω}
- The authorization is subject to the following general and specific conditions:-2.
- 1. The unit will comply with provision of all applicable Acts/Rules/Direction of the (i) Board/CPCB, 2. The unit will submit the Annual Report under HWM Rules by 30th June, 3. Unit will apply for renewal of consent/Authorization at least 90 days before expiry date of the consent/Authorization. 4. The unit will renew agreement with authorized recycler timely. 5. The hazardous waste generated by the unit will be disposed off only through Authorized TSDF/recyclers / Refiners of hazardous waste.

Regional Officer Sonipat For Haryana State Pollution Control Board

Conditions of Authorization:

- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986. 1. and the rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an officer 2. authorised by the State Pollution Control Board.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and 3. other wastes except what is permitted through this authorization.
- Any unauthorised change is personnel equipment or working conditions as mentioned in the 4. application by the person authorised shall constitute a breach of this authorization.
- The person authorised shall implement Emergency Response Procedure (ERP) for which this 5. authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- The person authorised shall comply with the provisions outlined in the Central Pollution Control 6. Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
- An application for the renewal of an authorization shall be made as laid down under these Rules. 7.
- Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, 8. Forest and Climate Changes or Central Pollution Control Board from time to time.
- Annual return shall be filed by June 30 th for the period ensuring 31 st March of the year. 9.

Digitally signed by NAVEEN

NAVEEN GULIA GULIA Date: 2022,08.26 18:34:32

Regional Officer Sonipat

For Haryana State Pollution Control Board

Annexure-6 Copy of Forest Permission December 2022 Compliance Report



Annexure II

Fee Br - 22 -

प्रेषक

उप वन संरक्षक, सोनीपत।

सेवा में

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

दिनांक/28/11/2011

विषय:--

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

संदर्भ:-

आपका प्रार्थना-पत्र दिनांक 17/10/2011.

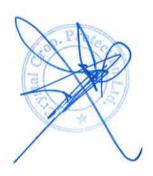
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संदर्भाकित प्रार्थना-पत्र के सम्बन्ध में आपको सूचित किया जाता है कि वन राजिक अधिकारी, राई की रिपोर्ट अनुसार विषयांकित केस में वन संरक्षण अधिनियम 1980/2003 लागू नहीं होता है। अतः इस वन मण्डल को कोई आपित नहीं है।

> उपध्वन संरक्षक. सोनीपंत।



Annexure-7. Copy of Fire NOC December 2022 Compliance Report



From

Assistant Divisional Fire Officer/Fire Station Officer

MC Sonipat

Τo

M/s Crystal Crop Protection Limited

Village Nathupur Disti Sonipat

Memo No. FS/2022/1406 dated: 04/11/2022

Subject:

Renewal of Fire Safety 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 6/1/2 16//6/1/1 6/2 6/3/1 15/1/3 15/2 16/1/1 16/2 17//20/2 16//5/2/2 AND KH NO 9//25/2/2 8//21/2 9//25/2/3 16//5/2/1 7//1/1 at Village Nathupur Distt Sonipat of Crystal Crop Protection Limited:

Reference to you online No 181312223001309 dated 27/10/2022 on the subject cited above.

Tower Name	Floor Detail	Height	Ground Coverage
$\substack{A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,\\P}$	G+2	14 M	240752.10 Sqfi
Basement Level	Basement Area	Remarks	
-1	31849.68 Sqft		TOTAL POWER OF HELP AND A SECOND

Your site for the Renewal of the Fire Safety Certificate has been inspected by the Team of Fire Station Officers, MC Sonipat 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:-

- 1) The owner/occupier shall keep duly trained Fire Staff in all three shifts.
- 2) The Fire Protection System tested during inspection shall be maintained properly & always should be in good working condition.
- 3) 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.
- 4) You are directed to apply for Renewal of Fire Safety Certificate in future before 2 month of expiry of your Fire Safety
- 5) Certificate.

7)

- 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 Section 30,31 & 47 of fire & Emergency Services Act 2022.
 - 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.
- 8) If the Infringements of Byelaws remains un-noticed the Authority reserves the right to amend the Fire Safety Certificate 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 owner or occupier of the building shall give a self-declaration certificate annually to the effect that the fire fighting system installed in his building is working in good condition and there is no addition/alteration in the building. The Fire Officer may randomly check such building. In case there is any addition/alteration beyond permissible limits under the Haryana Building Code, 2017, the fire safety certificate shall cease to exist and the owner shall apply for approval of revised Fire Fighting Scheme as per the provisions of section 18.

The above Renewal of Fire Safety Certificate is valid for **Three** 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:- File no 1032



SANIAN signed by RAJENDER SINGH DAHIYA
Onipa@022.11.04 05:23:29 -07:00
Reason: Digital Verification
Exercising the power of Director, Fire Services, Haryana

Annexure-9. Copy of CGWA NOC December 2022 Compliance Report





भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of Indía Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name: Crystal Crop Pro							tection I	_imited (tech	nical Plar	it)					
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C	District:				Soni	pat				Sta	ate: I-	laryana	The state of the s			
F	in Code:															
C	Communicati	on Addr	ess:		Vpo I	Nathup	our, T	ehsil: Ra	ai, Rai, S	onip	at, Harya	na - 13102	29			
A	ddress of C	GWB R	egional (Office							estern Re - 160019	egion, Bhu	jal Bhav	wan, Pic	ot No. 3b,	
1.	NOC No.:		CGW	A/NO	C/IND/O	RIG/2	021/9	853		7						
2.	Application	No.:	21-4/2	2795/ŀ	HR/IND/	2020			3.		egory: VRE 2017		Over Exploited			
4.	Project Sta	ıtus:	Existi	ng Pro	oject				5.	NO	IOC Type: New					
6.	Valid from	1:	23/12	/2020					7.	Val	Valid up to: 22/12/2022					
8.	Ground Wa	ater Abs	traction	Perm	itted:											
	Fresh	Water	-		Saline	Wate	r s		De	wate	ering			Total		
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	45.0										Manual	DWLR**	DWLR With Telemetr		elemetry	
	**DWLR - Digi	tal Water	Level Rec	order					1		1	0		0		

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Manxingh Road, New Delhi 110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in Annexure-9. Copy of Waste disposal Agreement with GEPIL December 2022 Compliance Report



हरियाणा HARYANA

H 728058

THIS Agreement is made at Paridabad on this C547 day of DEC. 2016

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. Czystal which is a Company / under the Partnership Firm incorporated provisions Proprietary Concern duly YPO-NATHUPUR, DIST-SONIPAT, located at HARYANA. its registered office having (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.

Redtals

WHEREAS Haryana Environmental Management Society (HEMS), a society registered under the Societies Registration Act, 1860 having its registered office at SCO 45, 1st 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 Stope Crusher Zone, Faridabad, Haryana on the Jeasehold land as per Lease Agreement executed between HEMS and Municipal Corporation, Faridabad (MCF) on 19th April 2005.

For Gujarat Enviro Brofeedion And Infrastructure (Maryana) P.V. Ltd.

For Crystal Crop. Protection Ltd.

Authorized Signate
SIGNED for & on behalf of Client

AND WHEREAN the Consumer of Members to by tal-PH, have formed a Special Purpose Vehicle ("SPV") called trajanal Enviro Protection & Infrastructure (Haryana) Pvt. Ltd. (GL-PH (Haryana)) to do clop, operate and maintain the said Hazardous Waste Management Facility at Village Fali. Near Pali Mohabatabad Stone Crusher Zone, Faridabad, Haryana through an Agreement executed between HEMS, GEPH. (Haryana) and GEPH., Surat on 30th 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 Crystal Crop. Protection Ltd.

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SIGNED for & on boalf of Clicin

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- or cacamatances beyond the reasonable control of other party (the Affected fairy) and such event or circumstance cannot by exercise of reasonable difigence be prevented or eause 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 / Cooperative 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 09th 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 09th 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).
 - ii. 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.

Introducture (Haryana) (V. Luz-Introducture (Haryana) (V. Luz-Introducture (Haryana) (V. Luz-SIGNED for & on Behalf of GEPH (Haryana)

For Crystal Crop. Protection Ltd.

SIGNED for & on behalf of Client Authorized Signature 3.3 Both the Partic Report In the agree that in case of the present Agreement corrugg to an end owing to any of the aforesaid eventualities, it will be the sole responsibility of the Chem 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 reregistration charges of ₹500/- (Rupees Five hundred only). Such 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 weighment to be done at the TSDF site. If the Weigh Bridge at the site not working, it will be weighed at an outside Weigh Bridge approved by GEPIL (Haryana).

5.3 The rates specified in Schedule 1 to this Agreement are based on general characteristics of the specified type of waste. In case any waste of the Client that

For Gujaret Enviro Projection And Infrastructure (Heryana) PMt. Ltd.

For Crystal Crop. Protection Ltd.4

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FRANSPORTATION CHARGING

- The Client has requested GEPIL (Huryana) 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 unforescen 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

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 Bretection And Intrastructure (Maryens) Pvt. Ltd.

For Crystal Crop. Protection Ltd.

SIGNED for & APPENDED of CIRMITORY

- 8.2 The it had sold get uses otherization from HSPCB permitting the 6 hear to send its Hazardors Acaste 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, lading which GEPTL (Haryana) reserves its right to repudinte 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 Disnatch 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.

For Gujerzt Enviro Protession And Infrastructura (Heryana) Pvip Ltd. For Crystal Crop. Protection Ltd.

SIGNED for & on behalf of ellentry

SIGNED for & on Behalf of GEPH (Haryana)

8.2 If and when an accadent recture on a locating threatdons. Wante at the Client's rate, the Client shall instructiately report the rank to HSPCB and other authorities as per the Rules and also in GLPH, (Hayyana).

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.

Cor Gujaret Enviro Inotection And Infrastructura (Haryana) Pvc(Atd.

For Crystal Crop. Protection Ltd.

SIGNED for exon behalf on light

QUALITY

- 9 The Chemchereby coveragus to ensure that its thazardoos 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.
- 9.0 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.)
 - ii. Waste which has an obnoxious odour.
 - iii. Waste which is flammable (Flash point below 65°C)
 - iv. 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.).
 - w. Waste which contains volatile substance of significant toxicity.
 - vi. Wastes containing Radio active substances

10. **OUANTITY**

- 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.
- If the Client wants to send the requisite Hazardous Waste less than 90% of the 10.2 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.
- If the Client exceeds the annual Contracted Quantity of Hazardous Waste for 10.3 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

The Client shall effect arrangement to make the payment of interest free Securit Deposit of 154811 - (Rupces free dabh Fifty four Thousand - Hundred Elevan Orby Π . Hundred Elevan Only For Crystal Crop. Protection Ltd.

l destinature (Baryana SIGNED for & on Beliatt of GIPU, Waryuna)

SIGNED for Controlled of Client

- Charges of an Harardeep Waste for two months of Contracted Quantity (hat shal) 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

For Gujaret Enviro Protection And Infrastructure (Haryana) Ly& Ltd.

For Crystal Crop. Protection Ltd.

SIGNED for & APTORITY SIGNATURE

SIGNI D for & on Behalf of Gf PII (Haryana)

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Save and except all discussions and meetings held and correspondence exchanged between GLPH. (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, Wase Data Sheet and Application Form, will be treated as part of this Agreement.

16. ARBITRATION

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 Profection AntiInfrastructure (Haryana Pvt. Ltd.)

Director/Authorised Signature

SIGNED for & on Behalf of GEPIL (Haryana)

SIGNED for & on behalf of Client

- 101 Subject to the provisions of Clause 17 of this Agreement, the parties heretomutually agree that the Civil Courts at Facidabad only shall have a risdiction 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. CBJ Prathna Samai, Nr. Harkishandas Hospital, Mumbai (Maharashtra)

2)

Address

Designation

For Gujerat Enviro Brotogijon And

Udraninuctora (Hayana) PXL Lidy

SIGNED for & on Behalf of GLPII (Haryana)

Director/Anthrope:

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 GEPU (Harran) o Frozection And Enfragt

	e (Haryana) Pvt. Etd.	/	- POTT TO MENTAL
Nama	No. Ashmani Yanan	Mohit.	Kumax Glock.
Name Designation	: Mr. Ashwani Kumar : Business Head	Name	Director
-	Dusiness freau	Designation	DIERCIOS
Address	.	Address	Nathubur Dist
Witness	And the second s	Witness:	somebat'
1		1	
Name	Jore Yavahr	Name	1
Designation	Marager	Designation	•
Address	GERGE	Address	Cop. Pro
2	****	2	
Name		Name	

Designation

For Crystal Crop. Protection Ltd

SIGNED for & on behalf of Client

12

Address

FOR ERVETABERIOP PROTECTION LTD.



Schedule - I

	Up to 400 M T	40 1 Ta 700 M T	701 To 1200 M T	Above 1200M T
s. Fixed Landfill Charges (Rs. Per MT)	1613	1595	1576	1565
b. Salidification & 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
1:1.60	6874	6736	6668	6596
. Variable Incineration Charges (Rs. Per M T s per the ranges given below:	') - for a category of w	aste of a particular	catorific value (in I	(Cal/Kg)
alorific value				
lpto 2500 K Cal/kg	18767	18207	18020	17642
reater than 2500 & up to 4500KCal/kg	15421	14959	14809	14498
ireater than 4500 KCal/kg	12910	12514	12386	12137

Notes:-

- 1. The above rates are valid up to 31.03.2020. Thereafter the rates shall attract escalation @ 4% on annual basis.
- 2. 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
- 3. 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.
- 4. The rates of Solidification & Stabilization as well as rates for incineration include landfill charges. No extra charges will be levied for residue disposal landfill.
- 5. The above rates are exclusive of any statutory levies which will be payable extra.
- 6. Process for printing of manifest @ Rs. 10/- for each.
- 7. Further, the charges in respect of preprocessing process where ever applicable, remains unchanged and are as under:
 - a) Charges for de-watering/ drying @ Rs. 1000/- MT on Hazardous waste having moisture content more than 40%.
 - b) Charges for neutralization @ Rs. 1000/- MT on Hazardous waste having pH between 4 and 2.
 - e) We will also be charging neutralization @ Rs. 2000/- MT on Hazardous waste having pH lesser than 2

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SIGNED for & on behalf of Client

For Crystal Crop. Protection

Authorized Sig-



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

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

One Way		IMI			3 MT		9 MT			10 MT			16 MT & Above		
	Fuel Cost	Other Cost	Fotal Cost	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost	Fuel Cost	Other Cost	Total Cost	Puel Cost	Other Cost	Total Cost
Distance	-				ļ	1			ļ		 	ļ	1	 	
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	1.6}	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 Ti me	Detention Charges/hr
(1)	1 Ton-	2 hrs	300/-
(i i)	3 Tonnes	2 hrs	300/-
(Hi)	9 Tonnes	3 hrs	360/-
(iv)	16 Tounes	4 hrs	400/-

SIGNED for & on Behalf of GEP41 (Haryana)

Infrastreceive (haryses)

Director/Authorised Silve

SIGNED for & on Behalf of Client

For Crystal Crop. Protection

Authorized !

Annexure-10 Copy of Recent Reports of Tests conducted by MoEF&CC Approved Lab December 2022 Compliance Report





Issued To:

HARYANA TEST HOUSE

& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net



Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Report No. ULR No.

: HTH/EP/220806023

: TC781122100004567F

Party's Ref No.

: Nil

Booking Date

: 06/08/2022

Period of Testing : 06/08/2022To 13/08/2022

Reporting Date

: 13/08/2022

Sample Description : Indoor Air Quality

Type of Industry

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Date & time of sampling

Crystal Crop. Protection Ltd.,

: Pesticide manufacturing

: 04/08/2022 (09:30 Hrs to 17:30 Hrs)

Sample Location

: Ground Floor

Instrument used

Handy Sampler APM 821 (Sr. No. 835 DTB 2016)

Instrument Calibration Status

Calibrated (upto 06.07.2023)

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)

: 1.90 LPM

2. Total volume of air sampled

: 0.912 m3

3. Period of sampling

: 8 Hrs

S.N. Test Parameters	Unit	Result	Requirement as per OSHA	Test Method
Discipline: Chemical, Group: Atmospheric Pollution				
1 Total Aerosols Mass	mg/m3	1.009	15 Max	NIOSH 500: 1994
	mg/m3	0.022	13 Max	ASTMD-2914: 2015
Sulphur Dioxide (SO2)	mg/m3	0.037	9.0 Max	NIOSH 6014: 1994
Nitrogen Dioxide (NO2)	mg/m3	0.045	35 Max	NIOSH 6015: 1994
Ammonia (NH3)	mg/m3	0.229	55 Max	NIOSH 6604 :1996
Carbon Monoxide (CO)	0.		35 11107	NIOSH 7907 : 2014
Acid Mist (volatile acids) as HCl	mg/m3	1,819		1110011100112014

End of Report

Remarks: Limits for Air Contaminants as per OSHA

BLQ: Below limit of Quantification / LOQ: Limit of Quantification



Sr. Manager (Env.)





& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Euv.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousees@gmail.com, info@haryanatesthouse.net

Recognition / Approval : MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.



Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TEST REPORT

: HTH/EP/220806024 Report No.

ULR No. : TC781122100004568F

: NII Party's Ref No.

Booking Date

: 06/08/2022

Period of Testing 6 06/08/2022To 13/08/2022

Reporting Date

: 13/08/2022

Sample Description : Indoor Air Quality

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 04/08/2022 (09:45 Hrs to 17:45 Hrs)

Sample Location

: 1st Floor

Instrument used

Handy Sampler APM 821 (Sr. No. 801 DTL 2016)

Instrument Calibration Status

: Calibrated (upto 06.07.2023)

Purpose of analysis

: Monitoring

Sample collected/ supplied by

By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)

: 1.90 LPM

2. Total volume of air sampled

: 0.912 m3

3. Period of sampling

: 8 Hrs

S.N. Test Parameters	Unit	Result	Requirement as per OSHA	Test Method
Discipline: Chemical, Group: Atmospheric Pollution				
Total Aerosols Mass	mg/m3	1.086	15 Max	NIOSH 500: 1994
Sulphur Dioxide (SO2)	mg/m3	0.024	13 Max	ASTMD-2914: 2015
Nitrogen Dioxide (NO2)	mg/m3	0.040	9,0 Max	NIOSH 6014: 1994
Ammonia (NH3)	mg/m3	0.047	35 Max	NIOSH 6015: 1994
Carbon Monoxide (CO)	mg/m3	0.344	55 Max	NIOSH 6604 :1996
Acid Mist (volatile acids) as HCl	mg/m3	3.624		NIOSH 7907: 2014

End of Report

Remarks: Limits for Air Contaminants as per OSHA

BLQ: Below limit of Quantification / LOQ: Limit of Quantification





Sr. Manager (Env.)





Issued To:

HARYANA TEST HOUSE

& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164. (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net



Recognition / Approval : MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Report No.

: HTH/EP/220806025

ULR No.

: TC781122100004569F

Party's Ref No.

: Nil

Booking Date

: 06/08/2022

Period of Testing

06/08/2022To 13/08/2022

Reporting Date

: 13/08/2022

Sample Description: Indoor Air Quality

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 04/08/2022 (10:00 Hrs to 18:00 Hrs)

Sample Location

: HCL Storage Area

Instrument used

: Handy Sampler APM 821 (Sr. No. 838 DTB 2017)

Instrument Calibration Status

Crystal Crop. Protection Ltd.,

: Calibrated (upto 06.07.2023)

Purpose of analysis

Monitoring

Sample collected/ supplied by

: By our Lab. Representative

sample concerca, supplied

A. Observations:

1. Sampling flow rate (Avg.)

: 1.80 LPM

2. Total volume of air sampled

: 0.864 m3

3. Period of sampling

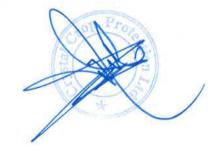
: 8 Hrs

S.N. Test Parameters	Unit	Result	Requirement as per OSHA	Test Method
Discipline: Chemical, Group: Atmospheric Pollution	22			
1 Total Aerosols Mass	mg/m3	1.042	15 Max	NIOSH 500: 1994
2 Sulphur Dioxide (SO2)	mg/m3	0.026	13 Max	ASTMD-2914 : 2015
3 Nitrogen Dioxide (NO2)	mg/m3	0.041	9.0 Max	NIOSH 6014: 1994
4 Ammonia (NH3)	mg/m3	0.048	35 Max	NIOSH 6015: 1994
	mg/m3	0.573	55 Max	NIOSH 6604 :1996
5 Carbon Monoxide (CO) 5 Acid Mist (volatile acids) as HCI	mg/m3	5.463		NIOSH 7907 : 2014

End of Report

Remarks: Limits for Air Contaminants as per OSHA

BLQ : Below limit of Quantification / LOQ : Limit of Quantification



Review by 38.22.

Md. Astak Alsari Sr. Manager (Env.)



& Consultancy Services

GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site : www.harvanatesthouse.net. c-mail: harvanatesthousees@gmail.com, info@harvanatesthouse.net





Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TEST RE PORT

rt No. : HTH/EP/220806039

ULR No. : TC781122100004514F

Party's Ref No. : Nil

Booking Date : 06/08/2022

Period of Testing : 06/08/2022To 11/08/2022

Reporting Date : 11/08/2022

Sample Description: Noise Level Monitoring-Ambient Noise

Type of Industry

: Pesticides Industry

Description

: Noise Level Monitoring-Ambient Noise

Sample Location

: Near Hydrent

Date of measurement

: 05/08/2022

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

TEST RESULTS					
S.N. Time (In Hours)	Noise Level Cum Leq. dB (A)				
1 06:00 to 07:00	74.1				
2 07:00 to 08:00	78.6				
3 08:00 to 09:00	76.5				
4 09:00 to 1.0:00	71.3				
5 10:00 to 11:00	74.3				
6 11:00 to 12:00	70.5				
7 12:00 to 13:00	71.6				
8 13:00 to 14:00	73.5				
9 14:00 to 15:00	71.6				
10 15:00 to 16:00	74.4				
11 16:00 to 17:00	71.0				
12 17:00 to 18:00	71.4				
13 18:00 to 19:00	77.8				
14 19:00 to 20:00	76.1				
15 20:00 to 21:00	72.1				
16 21:00 to 22:00	76.2				
17 22:00 to 23:00	68.4				
18 23:00 to 24:00	69.2				
19 24:00 to 01:00	68.1				
20 01:00 to 02:00	67.4				
21 02:00 to 03:00	56.7				
22 03:00 to 04:00	57.8				
3 04:00 to 05:00	56,4				
4 05:00 to 06:00	67.2				
Lday (06:00 AM to 10:00 PM)	73.7				
LNight (10:00 PM to 06:00 AM)	63.9				

End of Report

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







& Consultancy Services

GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousees@gmail.com, info@haryanatesthouse.net





Recognition / Approval : MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT Issued To:

Report No.

: HTH/EP/220806040

ULR No.

: TC781122100004515F

Party's Ref No.

: Nil

Booking Date

: 06/08/2022

Period of Testing 606/08/2022To 11/08/2022

Reporting Date

: 11/08/2022

Sample Description: Noise Level Monitoring-Amblent Noise

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Type of Industry

: Pesticides Industry

Description

: Noise Level Monitoring-Amblent Noise

Sample Location

: Near Gate No.5

Date of measurement

: 05/08/2022

Purpose of analysis

: Monitoring

Sample collected/ supplied by

Crystal Crop. Protection Ltd.,

: By our Lab. Representative

TEST RESULTS							
S,N.	Time (in Hours)	Noise Level Cum Leq. dB (A)					
1	06:00 to 07:00	73.1					
2	07:00 to 08:00	77.6					
3	08:00 to 09:00	75.5					
١	09:00 to 10:00	70.3					
	10:00 to 11:00°	73.3					
	11:00 to 12:00	69.5					
	12:00 to 13:00	70.6					
	13:00 to 14:00	72.5					
	14:00 to 15:00	70.6					
)	15:00 to 16:00	73.4					
	16:00 to 17:00	70.0					
?	17:00 to 18:00	70.4					
	18:00 to 19:00	76.8					
	19:00 to 20:00	75.1					
;	20:00 to 21:00	71.1					
	21:00 to 22:00	74.2					
2	22:00 to 23:00	67.4					
2	23:00 to 24:00	68.2					
2	24:00 to 01:00	67.1					
C	D1:00 to 02:00	66,4					
0	02:00 to 03:00	55.7					
0	03:00 to 04:00	56.8					
0	04:00 to 05:00·	55.4					
0	05:00 to 06:00	66.2					
L	day (06:00 AM to 10:00 PM)	72.7					
L	Night (10:00 PM to 06:00 AM)	62.9					

*** End of Report ***

Remarks: Standard Limits: 90 dB (A) As per OSHA, Standard Number: 1910.95, Occupational Noise Exposure





& Consultancy Services

GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TEST REPORT
Report No.

: HTH/EP/220806041

ULR No. : TC781122100004517F

Party's Ref No. : Nil

Booking Date : 06/08/2022

Period of Testing : 06/08/2022To 11/08/2022

Reporting Date 11/08/2022

Sample Description: Noise Level Monitoring-Ambient Noise

Type of Industry

: Pesticides Industry

Description

: Noise Level Monitoring-Amblent Noise

Sample Location

: Near Boiler Area

Date of measurement

05/08/2022

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

		TEST RESULTS
s.N	· Time (in Hours)	Noise Level Cum Leq. dB (A)
1	06:00 to 07:00	71,1
2	07:00 to 08:00	75.6
3	08:00 to 09:00	73.5
4	09:00 to 10:00	68.3
5	10:00 to 11:00	71.3
6	11:00 to 12:00	67.5
7	12:00 to 13:00	68.6
В	13:00 to 14:00	70.5
9	14:00 to 15:00	68.6
10	15:00 to 16:00	71.4
1	16:00 to 17:00	68.0
2	17:00 to 18:00	68.4
13	18:00 to 19:00	74.8
4	19:00 to 20:00	73.1
5	20:00 to 21:00	69,1
6	21:00 to 22:00	72.2
7	22:00 to 23:00	69.4
8	23:00 to 24:00	70.2
9	24:00 to 01:00	69.1
0 (01:00 to 02:00	68.4
1 (02:00 to 03:00	57.7
2 (03:00 to 04:00	58.8
3 (04:00 to 05:00	57.4
1 (05:00 to 06:00	68.2
1	Lday (06:00 AM to 10:00 PM)	70.7
Į	Night (10:00 PM to 06:00 AM)	64.9

End of Report

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

Kinhi Review by





& Consultancy Services GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

issued To:

TESTREREDART

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

: HTH/WT/220808008

Party's Ref No.

Booking Date

: 08/08/2022

Period of Testing : 08/08/2022To 13/08/2022

Reporting Date

13/08/2022

Sample Description

: Raw Water Sample

Type of Industry

: Pesticides Manufacturing

Date of sampling

: 08/08/2022

Date of receipt of sample **Environmental Condition**

: 08/08/2022

Sampling Reference Protocol

: Temp. 38°C & Humidity 52%

: IS 1622:1981

Sample Name

: Raw Water Sample (Piezometer)

Sample quantity

: 5 Ltr.

Sample Location

: Piezometer

Purpose of analysis

: Monitoring

Sampling Done by

: By our lab. Representative

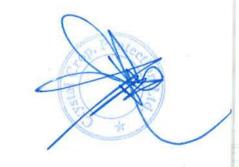
REFERENCE TO PROTOCOL: IS 10500:2012(Amend No. 4 Nov. 2021)

TEST RESULTS

S.I	N. Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
.Di	scipline - Chemical , Group -Water			×		
0	ganoleptic and Physical Paramet	er's				
1	рН	•	7.32	6.5-8.5	No Relaxation	IS 3025 (Part 11): 2022
2	Total Dissolved Solids (TDS)	mg/l	2426.0	500 Max.	2000 Max.	IS 3025 (P-16)-1984
Ge	neral parameters Concerning Sul	ostances undesir	able in excessive am	ounts		
1	Chloride (as CI)	mg/l	329.90	250 Max.	1000 Max.	IS 3025 (P-32)-1988
2	Sulphate (as 504)	mg/l	478.2	200 Max.	400 Max.	IS 3025 (Part 24): Sec-1 2022
3	Total Alkalinity (as CaCO3)	mg/l	430.0	200 Max.	600 Max.	IS 3025 (P-23)-1986
4	Total Hardness (as CaCO3)	mg/i	910.0	200 Max.	600 Max.	IS 3025 (P-21)-2009
5	BOD	mg/l	BLQ(LOQ:2.0)	·		IS 3025 (P-44)-1993
5	COD	mg/l	BLQ(LOQ:4.0)			IS 3025 (P-58)-2006
7	Sodium (as Na)	mg/l	330.65			IS 3025 (P-45)-1993
3	Potassium (as K)	mg/l	3.12		V	IS 3025 (P-45)-1993

End of Report

Remarks: BLQ: Below limit of Quantification / LOQ: Limit of Quantification











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GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/WT/221017002

ULR No.

: TC781122200002291F

Party's Ref No.

3 Nil

Booking Date

: 17/10/2022

Period of Testing : 17/10/2022To 27/10/2022

Reporting Date Sample Name

: 27/10/2022

Sample Description

: Ground Water Sample

Type of Industry Date of sampling : Pesticide Manufacturing

: 16/10/2022

Date of receipt of sample **Environmental Condition**

Sampling Reference Protocol

: 17/10/2022

: Temp. 29°C & Humidity 49%

: IS 1622:1981

: Ground Water Sample

Sample quantity

: 5 Ltr. + 250 ml in sterilized bottle

Sample Location

: Nathupura Village

Purpose of analysis Sampling Done by

: Monitoring : By our Lab. Representative

REFERENCE TO PROTOCOL: IS 10500:2012(Amend No. 4 Nov. 2021)

TEST RESULTS

S.N	· Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	s Method of Analysis
.Dis	cipline - Chemical , Group -Water					
Org	ganoleptic and Physical Parameter	.' <u>s</u>	W			
1	Colour (Hazen)		1.0	5 Max.	15 Max.	IS 3025 (P-4)-2021
2	Odour	30	Agreeable	Agreeable	Agreeable	IS 3025 (P-5)-2018
3	На	-	7.47	6.5-8.5	No Relaxation	IS 3025 (F-11)-1983
4	Turbidity (NTU)	-	<1.0	1 Max.	5 Max.	IS 3025 (P-10)-1984
5	Total Dissolved Solids (TDS)	mg/l	1056.0	500 Max.	2000 Max.	IS 3025 (P-16)-1984
Ger	neral parameters Concerning Subs	tances undesi	rable in excessive amo	unts		
	Total Ammonia (as N)	mg/l	BLQ(LOQ:0.2)	0.5 Max.	No Relaxation	IS 3025 (P-34)-2021
!	Calcium (as Ca)	mg/l	73.7	75 Max.	200 Max.	IS 3025 (P-40)-1991
	Chloride (as Ci)	mg/l	169.95	250 Max.	1000 Max.	IS 3025 (P-32)-1988
	Fluoride (as F)	mg/l	0.6	1.0 Max.	1.5 Max.	APHA (4500 F)
	Magnesium (as Mg)	mg/l	70.13	30 Max.	100.Max,	IS 3025 (P-46)-1994
	Nitrate (as NO3)	mg/l	46.30	45 Max.	No Relaxation	IS 3025 (P-34)-2021
	Phenolic Compounds (as C6H5OH)	mg/l	BLQ(LOQ:0.0004)	0.001 Max.	0.002 Max.	IS 3025 (P-43)-1992
	Sulphate (as SO4)	mg/i	162.5	200 Max.	400 Max.	IS 3025 (P-24)-1986
٦	Total Alkalinity (as CaCO3)	mg/l	344.0	200 Max.	600 Max.	IS 3025 (P-23)-1986
7	Fotal Hardness (as CaCO3)	mg/l	472.0	200 Max.	600 Max.	IS 3025 (P-21)-2009
scip	line- Chemical, Group-Residue in Wa	ter				
1ET/	ALS					
A	Muminium (as Al)	mg/l	BLQ(LOQ:0.010)	0,03 Max.	0.2 Max,	HTH/QF/7.2/2/ICP-01,50P
						NO-18
В	arium (as Ba)	mg/l	0.057	0.7 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
M	10lybdenum (as Mo)	mg/l	0.004	0.07 Max	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
В	oron (as B)	mg/l	0.077	0.5 Max.	2.4 Max.	HTH/QF/7.2/2/ICP-01,SOP NO-18

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& Consultancy Services

GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-H, HUDA, PANIPAT-132 103 (HR.)

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.



TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/WT/221017002

ULR No.

: TC781122200002291F

Party's Ref No.

Booking Date

: 17/10/2022

Period of Testing 17/10/2022To 27/10/2022

Reporting Date

: 27/10/2022

TEST RESULTS

S	.N. Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
5	Copper (as Cu)	mg/l	0.004	0.05 Max.	1.5 Max.	HTH/QF/7.2/2/ICP-01,SOP
1						NO-18
6	Iron (as Fe)	mg/l	0,227	1,0 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,50P
						NO-18
7	Manganese (as Mn)	mg/l	0.030	0.1 Max.	0.3 Max.	HTH/QF/7.2/2/ICP-01,5OP
						NO-18
8	Selenium (as Se)	mg/l	BLQ(LOQ:0.005)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
9	Silver (as Ag)	mg/l	BLQ(LOQ:0.001)	0.1 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
10	Zinc (as Zn)	mg/l	0.196	5.0 Max.	15 Мак.	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
TO	DXIC SUBSTANCES					
1	Cadmium (as Cd)	mg/l	BLQ(LOQ:0,001)	0.003 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP
						NO-18
2	Lead (as Pb)	mg/l	3LQ(LOQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,50P
						NO-18
3	Mercury (as Hg)	mg/l	BLQ(LOQ:0.0005)	0.001 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP
						NO-18
1	Nickel (as NI)	mg/l	BLQ(LOQ:0.001)	0.02 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
	Total Arsenic (as As)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
						NO-18
i	Total Chromium (as Cr)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
			provide AAT Senting Senting A			NO-18
_	Cyanide (as CN)	mg/l	BLQ(LOQ:0.02)	0.05 Max.	No Relaxation	IS 3025 (P-27) :2021
isc	ipline - Blological , Group - Water					
ac	teriological Requirements					
	Coliform	Per 100 ml	Absent	Shall Not be	No Relaxation	IS:15185:2016
				Detectable		
	E coli	Par 100 ml	Abcent	Shall Not be	No Relayation	15-15-185-2016

Per 100 ml Shall Not be E.coli Absent No Relaxation Detectable

End of Report

Remarks: BLQ: Below Limit of Quantification/ LOQ: Limit of Quantification.

10971012

Manendra Kumar Sr. Microbiologist (Biological)

CEO, (Chemical) Page No: 2 of 2

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& Consultancy Services GOVT, RECOGNISED LABORATORY

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/WT/221017003

ULR No.

: TC781122200002292F

Party's Ref No.

Booking Date

: 17/10/2022

Period of Testing : 17/10/2022To 27/10/2022

Reporting Date

27/10/2022

Sample Description

: Ground Water Sample

Type of Industry

: Pesticide Manufacturing

Date of sampling

S.N. Parameter's

: 16/10/2022

Date of receipt of sample

: 17/10/2022

Environmental Condition

Sampling Reference Protocol

: Temp. 29°C & Humidity 49%

Unit's

: IS 1622:1981

Sample Name

: Ground Water Sample

Sample quantity

: 5 Ltr. + 250 ml in sterilized bottle

Sample Location

: Rasoi Village

Purpose of analysis

: Monitoring

Permissible Limit's

Sampling Done by

Acceptable Limit's

: By our Lab. Representative

Method of Analysis

REFERENCE TO PROTOCOL: IS 10500:2012(Amend No. 4 Nov. 2021)

TEST RESULTS

Results

ľ	114. Falailletel 3		71000110			
[.1	Discipline - Chemical , Group -Water					
1	Organoleptic and Physical Parameter'	<u>s</u>	100 21100 200			
1	Colour (Hazen)	•	1.0	5 Max.	15 Man.	IS 3025 (P-4)-2021
2	Odour	•	Agreeable	Agreeable	Agreeable	IS 3025 (P-5)-2018
3	На	•	7.88	6.5-8.5	No Relaxation	IS 3025 (P-11)-1983
4	Turbidity (NTU)	•	<1.0	1 Max.	5 Max.	IS 3025 (P-10)-1984
3	Total Dissolved Solids (TDS)	mg/l	910.0	500 Max.	2000 Max.	IS 3025 (P-16)-1984
G	eneral parameters Concerning Subst	ances undes	irable in excessive amo	<u>unts</u>		
1	Total Ammonia (as N)	mg/l	BLQ(LOQ:0.2)	0.5 Max.	No Relaxation	IS 3025 (P-34)-2021
2	Calcium (as Ca)	mg/l	56.1	75 Max.	200 Max.	IS 3025 (P-40)-1991
3	Chloride (as CI)	mg/l	237.93	250 Max.	1000 Max.	IS 3025 (P-32)-1988
4	Fluoride (as F)	mg/i	0.7	1.0 Max.	1,5 Max.	APHA (4500 F)
5	Magnesium (as Mg)	mg/l	57.47	30 Max.	100.Max.	IS 3025 (P-46)-1994
5	Nitrate (as NO3)	mg/l	38.60	45 Max.	No Relaxation	IS 3025 (P-34)-2021
7	Phenolic Compounds (as C6H5OH)	mg/l	BLQ(LOQ:0,0004)	0.001 Max.	0.002 Max.	IS 3025 (P-43)-1992
3	Sulphate (as SO4)	mg/l	172.5	200 Max.	400 Max.	IS 3025 (P-24)-1986
9	Total Alkalinity (as CaCO3)	mg/l	272.0	200 Max.	600 Max.	* IS 3025 (P-23)-1986
10	Total Hardness (as CaCO3)	mg/l	376.0	200 Max.	600 Max.	IS 3025 (P-21)-2009
ols	cipline- Chemical, Group-Residue in Wat	er				
М	ETALS					
l	Aluminium (as Al)	mg/l	BLQ(LOQ:0.010)	0.03 Max.	0.2 Max.	HTH/QF/7.2/2/ICP-01,SOP NO-18
	Barium (as Ba)	mg/l	0.030	0.7 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
	Molybdenum (as Mo)	mg/l	0.004	0.07 Max	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP NO-18
	Boron (as B)	mg/l	0.115	0.5 Max.	2.4 Max.	HTH/QFX7.2/2/ICP-01,5OP NO-18

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Page No. 14



& Consultancy Services
GOVT. RECOGNISED LABORATORY

50-C, Sector 25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 8607 - 70160, 0180-3510205 (Figs.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169. Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousecs(@gmail.com, info@haryanatesthouse.net

Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/WT/221017003

ULR No.

: TC781122200002292F

Party's Ref No.

Booking Date

: 17/10/2022

Period of Testing : 17/10/2022To 27/10/2022

Reporting Date

: 27/10/2022

TEST RESULTS

-	S.N. Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
	5 Copper (as Cu)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	1,5 Max.	HTH/QF/7.2/2/ICP-01,50P
						NO-18
16	6 Iron (as Fe)	mg/l	0.445	1.0 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
- 1						NO-18
17	7 Manganese (as Mn)	mg/l	0.032	0.1 Max.	0.3 Max.	HTH/QF/7.2/2/ICP-01,SOP
1						NO-18
8	S Selenium (as Se)	mg/l	BLQ(LOQ:0.005)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
9	Silver (as Ag)	mg/l	BLQ(LOQ:0.001)	0.1 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
10	0 Zinc (as Zn)	mg/l	0.268	5.0 Max.	15 Max.	HTH/QF/7.2/2/ICP-01,5OP NO-18
1	OXIC SUBSTANCES					
1	Cadmium (as Cd)	mg/l	BLQ(LOQ;0,001)	0.003 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
1						NO-18
2	Lead (as Pb)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP NO-18
3	Mercury (as Hg)	mg/l	PLQ(LOQ:0.0005)	0.001 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
1						NO-18
4	Nickel (as Ni)	mg/l	BLQ(LOQ:0.001)	0.02 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP NO-18
5	Total Arsenic (as As)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
6	Total Chronilum (as Cr)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	No Relaxation	HTH/QF/7.2/2/ICP 01 SOP NO-18
7	Cyanide (as CN)	mg/l	BLQ(LOQ:0.02)	0,05 Max.	No Relaxation	IS 3025 (P-27) :2021
Disc	cipline - Biological , Group - Water					
Bac	cteriological Requirements					
1	Collform	Per 100 ml	Absent	Shall Not be	No Relaxation	IS:15185:2016
				Detectable		

End of Report

Shall Not be

No Relaxation

Remarks: BLQ: Below Limit of Quantification/ LOQ: Limit of Quantification.

Per 100 ml

Manendra Kumar

Sr. Microblologist (Biological)

Absent

Page No.: 2 of 2

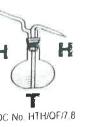
CEO, (Chemical)

IS:15185:2016

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Sample will be destroyed after 7 days for Perishable items & 30 days for non-perishable items from the date of issue of test report. The results are related to the test items only

E,coll



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GOVT. RECOGNISED LABORATORY

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Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TESTREP

ULR No.

: HTH/WT/220804007 : TC781122200001677F

Party's Ref No. : Nil

: 04/08/2022 **Booking Date**

Period of Testing : 04/08/2022To 10/08/2022

Reporting Date : 10/08/2022

Sample Description

Type of Industry

Date of sampling

: Borewell Water Sample

: Pesticide Manufacturing

: 04/08/2022

Date of receipt of sample **Environmental Condition**

Sampling Reference Protocol : IS 1622: 1981

: 04/08/2022

: Temp. 33°C & Humidity 85%

Sample Name

: Borewell Water Sample

Sample quantity

: 5 Ltr. + 250 ml in sterilized bottle

Sample Location

: Borewell Outlet : Monitoring

Purpose of analysis Sampling Done by

: By our Lab. Representative

REFERENCE TO PROTOCOL: IS 10500:2012(Amend No. 4 Nov. 2021)

TEST RESULTS

S.N	Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
.Dis	scipline - Chemical , Group -Water					
Or	ganoleptic and Physical Paramete	r <u>'s</u>		701 10 11 3 1930	2	
1	Colour (Hazen)	100	1.0	5 Max.	15 Max.	IS 3025 (P-4)-2021
2	Odour	·	Agreeable	Agreeable	Agreeable	IS 3025 (P-5)-2018
3	рН	340	6.63	6.5-8.5	No Relaxation	IS 3025 (P-11)-1983
4	Turbidity (NTU)	(40)	<1.0'	1 Max.	5 Max.	IS 3025 (P-10)-1984
5	Total Dissolved Solids (TDS)	mg/l	2358.0	500 Max.	2000 Max.	IS 3025 (P-16)-1984
Gei	neral parameters Concerning Subs	tances undes	irable in excessive amo	unts		
l	Total Ammonia (as N)	mg/l	BLQ(LOQ:0.2)	0.5 Max.	No Relaxation	IS 3025 (P-34)-2021
2	Calcium (as Ca)	mg/l	100.2	75 Max.	200 Max.	IS 3025 (P-40)-1991
3	Chloride (as CI)	mg/l	589.82	250 Max.	1000 Max.	IS 3025 (P-32)-1988
	Fluoride (as F)	mg/l	0.96	1.0 Max.	1.5 Max.	APHA (4500 F)
	Magnesium (as Mg)	mg/l	165.58	30 Max.	100.Max.	IS 3025 (P-46)-1994
	Nitrate (as NO3)	mg/l	51.0	45 Max.	No Relaxation	IS 3025 (P-34)-2021
	Phenolic Compounds (as C6H5OH)	mg/l	BLQ(LOQ:0.0004)	0.001 Max.	0,002 Max.	IS 3025 (P-43)-1992
	Sulphate (as 5O4)	mg/l	137.8	200 Max.	400 Max,	IS 3025 (P-24)-1986
	Total Alkalinity (as CaCO3)	mg/i	425.0	200 Max.	600 Max.	IS 3025 (P-23)-1986
0	Total Hardness (as CaCO3)	mg/l	930.0	200 Max.	600 Max.	IS 3025 (P-21)-2009
[sc]	pline- Chemical, Group-Residue in Wa	ater				
1EI	ALS					
	Aluminium (as Al)	mg/l	BLQ(LOQ:0.010)	0.03 Max.	0.2 Max.	HTH/QF/7.2/2/ICP-01,SOF
						NO-18
-	Barlum (as Ba)	mg/l	0.040	0.7 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,50F
						NO-18
1	volybdenum (as Mo)	mg/l	0.003	0.07 Max	No Relaxation	HTH/QF/7.2/2/ICP-01,50P
						NO-18
e	Boron (as B)	mg/l	0.234	0.5 Max.	2,4 Max.	HTH/QPX7.2/2/ICP-01,50P
		4.			8	WO-18
C	opper (as Cu)	mg/l	0.001	0.05 Max.	1.5 Max.	HTH/OF 22/2/ICP-01,50P



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(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

: HTH/WT/220804007

ULR No.

: TC781122200001677F

Party's Ref No.

: Nil

Booking Date

: 04/08/2022

Period of Testing : 04/08/2022To 10/08/2022

Reporting Date

: 10/08/2022

TEST RESULTS

S	.N. Parameter's	Unit's	Results	Acceptable Limit's	Permissible Limit's	Method of Analysis
S						NO-18
6	Iron (as Fe)	mg/l	0.311	1.0 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP
1						NO-18
7	Manganese (as Mn)	mg/l	0.005	0.1 Max.	0.3 Max.	HTH/QF/7.2/2/ICP-01,5QP NO-18
8	Selenium (as Se)	mg/l	0.006	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
9	Silver (as Ag)	mg/l	BLQ(LOQ:0.001)	0.1 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
10	Zinc (as Zn)	mg/l	BLQ(LOQ:0.05)	5.0 Max.	15 Max.	HTH/QF/7.2/2/ICP-01,SOP NO-18
I	OXIC SUBSTANCES					
1	Cadmlum (as Cd)	mg/l	BLQ(LOQ:0.001)	0.003 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
2	Lead (as Pb)	mg/l	BLQ(LOQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
3	Mercury (as Hg)	mg/l	BLQ(LOQ:0.0005)	0.001 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
4	Nickel (as Ni)	mg/l	BLQ(LOQ:0.001)	0.02 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
5	Total Arsenic (as As)	mg/l	BLQ(LQQ:0.001)	0.01 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,SOP NO-18
6	Total Chromlum (as Cr)	mg/l	BLQ(LOQ:0.001)	0.05 Max.	No Relaxation	HTH/QF/7.2/2/ICP-01,5OP NO-18
7	Cyanide (as CN)	mg/l	BLQ(LOQ:0.02)	0.05 Max.	No Relaxation	IS 3025 (P-27) :2021
Disc	ipline - Bilogical , Group - Water		E2			
Bac	teriological Requirements					
1	Coliform	Per 100 mi	Absent	Shall Not be	No Relaxation	IS:15185:2016
				Detectable		
2	E.coli	Per 100 ml	Absent	Shall Not be	No Relaxation	IS:15185:2016
				Detectable (and down	

End of Report

Remarks: BLQ: Below limit of Quantification / LQQ: Limit of Quantification

Nao Jyoti Gupta

H.O.D. (Biological)

Sr. Manager (Env.)



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TEST REPORT

Report No.

: HTH/EP/220804005

ULR No.

: TC781122100004496F

Party's Ref No.

: Nil

Booking Date

: 04/08/2022

Period of Testing : 04/08/2022To 09/08/2022

Reporting Date

: 09/08/2022

Sample Description	 Effluent Water Sample (ETP-Outlet)
	Emache water sample (Ell outlet)

Type of Industry

Pesticide manufacturing

Sample type

Effluent Water Sample (ETP-Outlet)

Date of sampling

04/08/2022

Date of receipt of sample

04/08/2022

Sample Location

ETP-Outlet

Sample quantity

2 Ltr.

Purpose of analysis

Monitoring

Sample collected/ supplied by

By our Lab. Representative

TEST RESULTS

-			201 11000010		
S.1	N. Tost Parameters	Unit	Result	Limit as per EP Act. 1986 (Inland Surface Water)	Test Method
Dis	cipline : Chemical, Group : Waste Water				
1	Odour		Odourless	**	IS 3025 (Part 5): 2018
2	Н	•	6.83	5.5 - 9.0	IS 3025 (Part 11): 1993
3	Total Suspended Solids	mg/L	4.0	100 Max	IS 3025 (Part 17): 1984
1	Chemical Oxygen Demand(COD)	mg/L	25.0	250 Max	IS 3025 (Part 58): 2006
5	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	6.0	30 Max	IS 3025 (Part 44): 1993
5	Oil & Grease	mg/L	BLQ(LOQ 0.5)	10 Max	IS 3025 (Part 39): 2021

End of Report

Remarks: BLQ: Below limit of Quantification / LOQ: Limit of Quantification









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EST REPORT

Report No.

: HTH/EP/220804004

ULR No.

TC781122100004495F

Party's Ref No.

Mil

Booking Date

: 04/08/2022

Period of Testing

£ 04/08/2022To 09/08/2022

Reporting Date

: 09/08/2022

Sample Description

Effluent Water Sample (ETP-Inlet)

Type of Industry

Pesticide manufacturing

Sample type

Effluent Water Sample (ETP-Inlet)

Date of sampling

04/00/0000

Date of sampling

04/08/2022

Date of receipt of sample

04/08/2022

Sample Location

ETP-Inlet

Sample quantity

2 Ltr.

Durana a Sanahari

Z LU.

Purpose of analysis

Monitoring

Sample collected/ supplied by

By our Lab. Representative

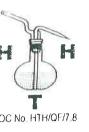
TEST RESULTS

s.	N. Test Parameters	Unit	Result	Test Method
Di	scipline : Chemical, Group : Waste Water			
1	Odour		Mild	IS 3025 (Part 5): 2018
2	pH		9.66	IS 3025 (Part 11): 1993
3	Total Suspended Solids	mg/L	62.0	IS 3025 (Part 17): 1984
1	Chemical Oxygen Demand(COD)	mg/L	200.0	IS 3025 (Part 58): 2006
5	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	36.0	IS 3025 (Part 44): 1993
ŝ	Oil & Grease	mg/L	5.3	IS 3025 (Part 39): 2021

End of Report

Md. Assay A San Ar Manager (Lav)





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TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/EP/220806038

ULR No.

: TC781122100004528F

Party's Ref No.

Booking Date

: 06/08/2022

Period of Testing : 06/08/2022To 11/08/2022

Reporting Date

: 11/08/2022

Sample Description: Noise Level Monitoring- DG Noise

Type of Industry

: Pesticides Industry

Sample Location

: DG 380 KVA

Instrument used

Sound Level Meter (HTH 1172)

Instrument Calibration Status

: Calibrated (upto 12.01.2023)

Date of measurement

: 05/08/2022

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

OBSERVATION

S.N.	Point of Measurement	1	11	111	IV	V	VI
Disch	oline – Chemical, Group – Atmospheric Pollution -						
ı	1.0 m Away from DG Set (Acoustic Encloser Open)	101.2	99.8	100.9	102,3	98.2	97.6
!	1.0 m Away from DG Set (Acoustic Encloser Closed)	72.9	71.8	70.9	73.9	74.2	69.9

TEST RESULTS

S.N. Point of Measurement	Noise Level (dB "A")				
Forte of Measurement	Lmin	Lmax	Leq		
1 1.0 m Away from DG Set (Acoustic Encloser Open)	97.6	102.3	100.3		
2 1.0 m Away from DG Set (Acoustic Encloser Closed)	69.9	74.2	72.5		
Insertion Loss	(0)	,	27.8*		

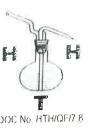
End of Report

Remarks: At the time of measurement DG Sets were in operation.

* As per EPA 1986, Insertion loss should be 25 dB (A) (min.) on acoustic enclosure and acoustic treatment for stationary DG Sets.

Review by

Sr. Manager (Env.)



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TEST REPORT Report No.

: HTH/EP/220806035

ULR No.

: TC781122100004539F

Party's Ref No.

: NII

Booking Date

: 06/08/2022

Period of Testing : 06/08/2022To 16/08/2022

Reporting Date

: 16/08/2022

Sample Description: Ambient Air Quality Monitoring

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 04/08/2022 (10:00 Hrs) to 05/08/2022 (10:00 Hrs)

Sample Location

: Near ETP Area Gate No.5

Instrument used

RDS Model APM- 460 (Sr. No. 2493 DTB 2019)

Instrument Calibration Status

Calibrated (upto 08.04.2023)

Purpose of analysis

Monitoring

Sample collected/supplied by

: By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.) Total volume of air sampled 1.25 m3/min

3. Period of sampling

: 1800.00 m3 : 24 Hrs

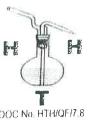
s.n.	Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Disc	ipline - Chemical, Group - Atmospheric Pollution				
1	Particulate Matter (PM10)	μg/ m3	83.44	100 max	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM 2.5)	µg/ m3	42.50	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	μg/ m3	16.42	80 max	IS 5182 (Part-2): 2001
4	Nitrogen Dioxide (NO2)	μg/ m3	36.27	80 max	IS 5182 (Part-6): 2006
5	Ammonia (NH3)	μg/ m3	44.72	400 max	IS 5182 (Part-25) : 2018
6	Ozone (O3)	μg/ m3	21.93	100 max	IS 5182 (Part-9) : 1974
7	Carbon Monoxide (CO)	mg/m3	0,344	4 max	IS 5182 (Part-10) : 1999
В	Benzene (C6H6)	μ g / m3	BLQ(LOQ:0.52)	5 max 🔻	IS 5182 (Part-11) : 2006
9	Benzo - Pyrene (BaP)	ng/ m3	BLQ(LOQ:0.1)	1 max	IS 5182 (Part-12) : 2004
10 1	Lead (Pb)	μg/ m3	BLQ(LOQ:0.02)	1 max	IS 5182 (Part-22) : 2004
11 /	Nickel (NI)	ng/m3	BLQ(LOQ:2)	20 max	HTH/QF/7.2/2/ICP-01 SOP No 17
.2 /	Arsenic (As)	ng/ m3	BLQ(LOQ:1)	6 max	HTH/QF/7.P/2/ICP-01 SOP No 17

End of Report

Remarks: Standard limits are as per CPCB notification Nov. 2009

BLQ: Below limit of Quantification / LOQ: Limit of Quantification

Sr. Manager (Env.)



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50-C. Sector 25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Issued To:

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(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TEST RE PORT

: HTH/EP/220806036

ULR No.

: TC781122100004540F

Party's Ref No.

: Nil

Booking Date

: 06/08/2022

Reporting Date

: 16/08/2022

Sample Description: Ambient Air Quality Monitoring

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 04/08/2022 (10:00 Hrs) to 05/08/2022 (10:00 Hrs)

Sample Location

: Near Boiler Area

instrument used

: RDS Model APM- 460 (Sr. No. 2494 DTB 2019)

Instrument Calibration Status

: Calibrated (upto 08.04.2023)

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab, Representative

A. Observations:

1. Sampling flow rate (Avg.) 2. Total volume of air sampled

1.21 m3/min : 1735,20 m3

3. Period of sampling

: 24 Hrs

S.N	· Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Dis	cipline - Chemical, Group - Atmospheric Pollution				
1	Particulate Matter (PM10)	μg/ m3	88.29	100 max	(S 5182 (Part-23) : 2006
2	Particulate Matter (PM 2.5)	μg/ m3	46.67	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	μg/ m3	19.19	80 max	IS 5182 (Part-2) : 2001
4	Nitrogen Dioxide (NO2)	$\mu g/m3$	37.49	80 max	IS 5182 (Part-G): 2006
5	Ammonia (NH3)	μg/ m3	45.09	400 max	IS 5182 (Part-25) : 2018
6	Ozone (O3)	μg/ m3	22.30	100 max	IS 5182 (Part-9) : 1974
7	Carbon Monoxide (CO)	mg/m3	0.458	4 max	IS 5182 (Part-10) : 1999
В	Benzene (C6H6)	μg/ m3	BLQ(LOQ:0.52)	5 max	IS 5182 (Part-11) : 2006
9	Benzo - Pyrene (BaP)	ng/ m3	BLQ(LOQ:0.1)	1 max	IS 5182 (Part-12) : 2004
10	Lead (Pb)	μg/ m3	BLQ(LOQ:0.02)	1 max	IS 5182 (Part-22) : 2004
1	Nickel (NI)	ng/m3	BLQ(LOQ:2)	20 max	HTH/QF/7.2/2/ICP-01 SOP No 17
.2	Arsenic (As)	ng/ m3	BLQ(LOQ:1)	6 max	HTH/QF/7.2/2/ICP-01 SOP No 17

End of Report

Remarks: Standard limits are as per CPCB notification Nov. 2009

BLQ: Below limit of Quantification / LOQ: Limit of Quantification



Sr. Manager (Env.)

Page No.: 1 of 1

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TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit- Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/EP/221017020

ULR No.

: TC781122100005985F

Party's Ref No.

: NII

Booking Date

17/10/2022

Period of Testing 17/10/2022To 20/10/2022

Reporting Date

20/10/2022

Sample Description: Ambient Air Quality Monitoring

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 15/10/2022 (10:00 Hrs) to 16/10/2022 (10:00 Hrs)

Sample Location

: Near Village Nathupura

Instrument used

RDS Model APM- 460 BL (Sr. No. 3045 DTD 2017)

Instrument Callbration Status

: Calibrated (upto 06.07.2023)

Purpose of analysis

: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)

: 1,22 m3/min

2. Total volume of air sampled

: 1610.40 m/3

3. Period of sampling

: 24 Hrs

S.N.	Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Disc	ipline - Chemical, Group - Atmospheric Pollution				
1	Particulate Matter (PM10)	μg/ m3	80.66	100 max	IS 5182 (Part-23) : 2006
2.	Particulate Matter (PM 2.5)	μg/ m3	38.18	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	μg/ m3	15.45	80 max	IS 5182 (Partie2): 2001
l	Nitrogen Dioxlde (NO2)	μg/ m3	38.25	80 max	IS 5182 (Part-6): 2006
	Ammonia (NH3)	μg/ m3	47.57	400 max	IS 5182 (Part-25) : 2018
	Ozone (O3)	μg/ m3	21.87	100 max	IS 5182 (Part-9): 1974
	Carbon Monoxide (CO)	mg/ m3	0.229	4 max	IS 5182 (Part-10) . 1999
	Benzene (C6H6)	μg/ m3	BLQ (LOQ-0.52)	5 max	IS 5182 (Part-11): 2006
	Benzo - Pyrene (BaP)	ng/ m3	BLQ (LOQ-0.1)	1 max	IS 5182 (Part-12) : 2004
)	Lead (Pb)	$\mu g/m3$	BLQ (LOQ-0.02)	1 max	IS 5182 (Part-22): 2004
. 1	Nickel (NI)	ng/m3	BLQ (LOQ;2)	20 max	HTH/QF/7.2/2/ICP-01 SOP No 17
2 /	Arsenic (As)	ng/m3	BLQ (LOQ:1)	6 max	HTH/QF/7.2/2/ICP-01 SOP No 17

End of Report

- Remarks: Standard limits are as per CPCB notification Nov. 2009

BLQ : Below limit of Quantification / LOQ : Limit of Quantification

Sr. Manager (Env.)

Page No.: 1 of 1

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3. Sample will be destroyed after 7 days for Perishable items & 30 days for non-perishable items from the date of issue of test report



& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C. Sector-25 Part-II, HUDA, PANIPAT-132 103 (DR.)

Contact (OH) 86077-70160-0180-3810205 (Env.) 86077-70164, (BM) 86077-70166, (Lood) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net

Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No.

: HTH/EP/221017021

ULR No.

* TC781122100005986F

Party's Ref No.

: Nil

Booking Date

: 17/10/2022

Period of Testing : 17/10/2022To 20/10/2022

Reporting Date

: 20/10/2022

Sample Description: Ambient Air Quality Monitoring

Type of Industry

: Pesticide manufacturing

Date & time of sampling

: 15/10/2022 (10:00 Hrs) to 16/10/2022 (10:00 Hrs)

Sample Location

: Near Village Rasol

Instrument used

: RDS Model APM- 460 BL (Sr. No. 2304 DTB 2018)

Instrument Calibration Status

: Calibrated (upto 08.04.2023)

Purpose of analysis

: Monitoring

Sample collected/ supplied by

By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)

: 1.19 m3/m/n

2. Total volume of air sampled

: 1577.94 m3

3. Period of sampling

: 24 Hrs

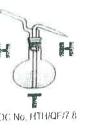
S.N.	Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Disc	ipline - Chemical, Group - Atmospheric Pollution				
1	Particulate Matter (PM10)	μg/ m3	78.14	100 max	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM 2.5)	μg/ m3	36.36	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	μg/ m3	14.29	80 max	IS 5182 (Part-2) : 2001
4	Nitragen Dioxide (NO2)	μg/ m3	32.20	80 max	IS 5182 (Part-6): 2006
5	Ammonia (NH3)	μg/ m3	43.13	400 max	IS 5182 (Part-25): 2018
6	Ozone (O3)	μg/ m3	21.45	100 max	IS 5182 (Part-9) : 1974
7	Carbon Monoxide (CO)	mg/m3	0.229	4 max	IS 5182 (Part-10) : 1999
8	Benzene (C6H6)	μg/ m3	BLQ (LOQ-0.52)	5 max	IS 5182 (Part-11) : 2006
9	Benzo - Pyrene (BaP)	ng/m3	BLQ (LOQ-0.1)	1 max	IS 5182 (Part-12) : 2004
10 1	Lead (Pb)	μg/ m3	BLQ (LOQ-0.02)	1 max	IS 5182 (Part-22): 2004
1 1	Nickel (NI)	ng/ m3	BLQ (LOQ:2)	20 max	HTH/QF/7.2/2/ICP-01 SOP No 17
2 /	Arsenic (As)	ng/ m3	BLQ (LOQ:1)	6 max	HTH/QF/7.2/2/4CP-01 SOP No 17

End of Report

Remarks: Standard limits are as per CPCB notification Nov. 2009

BLQ: Below limit of Quantification / LOQ: Limit of Quantification

Sr. Manager (Env.)



& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C, Sector 25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Confact (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net, e-mail: haryanatesthousees@gmail.com, info@haryanatesthouse.net



Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

ESTREPRORT

: HTH/EP/220806027

ULR No.

: TC781122100004571F

Party's Ref No.

: Nil

Booking Date

: 06/08/2022

Period of Testing : 06/08/2022To 13/08/2022

Reporting Date

: 13/08/2022

Sample Description

Type of Industry

Name of Plant/ Section

Date of sampling

Capacity of DG

Source of Emission

Instrument used

Instrument Calibration Status

Type of stack Type of Fuel used

Stack height (from the ground level)

Stack diameter (at the sampling point)

Sample Location Purpose of sampling

Sample collected by

A Observations

1. Stack gas temperature, ⁹C 2. Temperature at Metering point, ⁹C

3. Avg. stack gas velocity, m/sec 4. Sampling flow rate, Lt./min.

5. Period of sampling, Minutes 6. Volumetric flow rate, Nm3/Hr : Stack Emission (DG 380 KVA) : Pesticide manufacturing

: DG Section

05/08/2022 : 380 KVA

: Stack Attached to DG

Stack Sampler APM 160 (Sr.No. 88 DTL 2016)

: Calibrated (upto 24.12.2022)

: HSD : 6 meter : 6 Inch

Metal

: As per standard norms

Monitoring By our lab representative

: 231.0 : 32.0

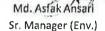
: 16.95 : 19.0

: 30.0 : 632.41

R Results

5.1	. Test Parameters	Units	Result	Standard Limit	Test Method
Dis	cipline: Chemical, Group: Atmospheric Pollution				
1	Particulate Matter (PM)	gm/kwh	0.13	0.20 Max	IS 11255 (Part-I) : 1985
2	Nitrogen Dioxide (NOx)	gm/kwh	1.04	***	HTH/QF/7.2/2/CH-02, SOP No-23
3	Carbon Monoxide (CO)	gm/kwh	0.24	3.50 Max	HTH/QF/7.2/2/CH-02, SOP No-23
4	Total Hydrocarbon (HC)	gm/kwh	0.04	-	HTH/QF/7.2/2/CH-02, SOP No-25
5	Nitrogen DloxIde + Total Hydrocarbon (NOx + HC)	gm/kwh	1.08	4.0 Max	HTH/QF/7.2/2/CH-02, SOP No-25

End of Report









Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

HARYANA TEST HOUSE

& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net. e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net



Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Report No. ULR No.

: HTH/EP/220813072

: TC781122100004740F

Party's Ref No.

: NII

Booking Date

: 13/08/2022

Period of Testing : 13/08/2022To 20/08/2022

Reporting Date

: 20/08/2022

Sample Description

: Stack Emission (Process)

Type of Industry Name of Plant/ Section : Pesticide manufacturing

Date of sampling

: Scrubber Section : 13/08/2022

Source of Emission

: Scrubber Section

Instrument used

: Stack Sampler VSS1 (Sr.No. 247 DTK 2019)

Instrument Calibration Status

Calibrated (upto 24.12.2022)

Type of Chimney

Metal HDPE42.0

Type of Fuel used

Not Specified

Stack height (from the ground level) Stack diameter (at the sampling point) : 12 meter : 150 mm

Sample Location

: As per standard norms

: Monitoring

Purpose of sampling

: By our lab representative

Sample collected by A Observations

1. Stack gas temperature, ^QC

2. Temperature at Metering point, ºC

: 37.0

3. Avg. stack gas velocity, m/sec

: 6.87 23.0

4. Sampling flow rate, Lt./min. 5. Period of sampling, Minutes

6. Volumetric flow rate, Nm3/Hr

: 30.0

31603.61

R Reculte

D L	(Caulta				
S.N	. Test Parameters	Units	Result	Standard Limit	Test Method
Dis	ci،ااراد: Chemical, Group: Atmospheric Pollution				
1	Particulate Matter (PM)	mg/Nm3	25.31	150 Mac	IS 11255 (Part-I): 1985
2	Sulphur Dioxide (SO2)	mg/Nm3	BLQ (LOQ:3.0)	::•::	HTH/QF/7.2/Z/CH-02, SOP No-23
3	Nitrogen Dioxide (NO2)	mg/Nm3	BLQ (LOQ:3.0)	1500	HTH/QF/7.2/2/CH-02, SOP No-23

End of Report

Remarks: BLQ: Below limit of Quantification / LOQ: Limit of Quantification







& Consultancy Services

GOVT RECOGNISED LABORATORY

50-C. Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.harvanatesthouse.net, e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net

Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.



Issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

TEST REPORT Report No.

: HTH/EP/220806029

ULR No. : TC781122100004573F

: Nil Party's Ref No.

Booking Date

: 06/08/2022

Period of Testing : 06/08/2022To 13/08/2022

Reporting Date

: 13/08/2022

Sample Description

Type of Industry

Name of Plant/ Section

Date of sampling

Source of Emission

Instrument used

Instrument Calibration Status

Type of Chimney

Type of Fuel used Stack height (from the ground level)

Stack diameter (at the sampling point)

Sample Location

Purpose of sampling

Sample collected by

A Observations

1. Stack gas temperature, ^QC 2. Temperature at Metering point, ºC 3. Avg. stack gas velocity, m/sec

4. Sampling flow rate, Lt./min. 5. Period of sampling, Minutes

6. Volumetric flow rate, Nm3/Hr

: Stack Emission (Incinerator)

: Pesticide manufacturing : Incinerator Section

: 05/08/2022

: Stack Attached to Incinerator

: Stack Sampler APM 160 (Sr.No. 88 DTL 2016) Calibrated (upto 24.12.2022)

: Metal : HSD

: 30 meter : 300 mm

: As per standard norms

: Monitoring

: By our lab representative

: 155.0

: 34.0

: 7.58 : 23.0

: 40.0 : 1307.47

B Results

1.2	V. Test Parameters	Units	Results	Standard Limit	Test Method
Dl	cipline: Chemical, Group: Atmospheric Pollution				
1	Particulate Matter (PM)	mg/Nm3	36.48	50 Max	IS 11255 (Part-I) : 1985
2	Sulphur Dioxide (SO2)	mg/Nm3	13.09	200 Max	HTH/QF/7.2/2/CH-02, SOP No-23
3	Nitrogen Dioxide (NO2)	mg/Nm3	142.99	400 Max	HTH/QF/7.2/2/CH-02, SOP No-23
4	Carbon Monoxide (CO)	mg/Nm3	86.54	100 Max	HTH/QF/7.2/2/CH-02, SOP No-23
5	Oxygen (O2)	%	13.90	.75	HTH/QF/7-2/2/CH-02, SOP No-23

End of Report

Remarks: Particulate Matter Corrected @11 % O2



Sr. Manager (Env.)



& Consultancy Services GOVT RECOGNISED LABORATORY

50-C, Sector-25 Part-11, HUDA, PANIPAT-132 103 (HR.)

Contact (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (HM) 86077-70166, (Pood) 86077-70169 Web Site: www.huryanatesthouse.net, e-mail haryanatesthousees@gmail.com, info@haryanatesthouse.net



Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

issued To:

Crystal Crop. Protection Ltd.,

(Unit-Technical Plant) Village & PO Nathupur, Sonepat (HR)

Report No. : HTH/M/220816001

Party's Ref No.

Booking Date

: 16/08/2022

Period of Testing : 16/08/2022To 24/08/2022

Reporting Date

: 24/08/2022

Sample Description Type of Industry

Name of Planty Section

Date of sampling Capacity of Boller

Source of Emission

Instrument used

Instrument Calibration Status

Type of stack Type of Fuel used

Stack height (from the ground level) Stack diameter (at the sampling point)

Sample Location

Purpose of sampling

Sample collected by Type of APCM

A Observations Stack gas temperature, 4C

2. Temperature at Metering point, 90 Avg. stack gas velocity, m/sec

4. Sampling flow rate, Lt/min. 5. Period of sampling, Minutes

6. Valumetric flow rate, Nm3/Hr

Stack Emission (2 TPH)

Pesticide Manufacturing **Boller Section**

16/08/2022 2 TPH

Stack attached to Boller

Stack Sampler APM 160 (SriNo, 87 DTL 2016)

Celibrated (upto 23.12.2022) Metal

Wood 30 meter : 0.55 meter

: As Per Standard Norms

: Monitoring

By our Lab. Representative Cyclone Separator

: 134.0 2 38.0

: 7.89 : 26.0 30.0

B Results

S.N.	Test Parameters	and the same of the same	Units	Result	Standard Umit	Test Method
Olscip	line: Chemical, Group: Atmosp	heric Pollution		11 10		
1 P	articulate Matter (PM)		mg/Nm3	68.56	1200 Max	IS 11255 (Part-I): 1985
2 5	ulphur Dioxide (SQZ)		mg/Nm3	18.34		HTH/QF/7.2/2/CH-02, SOP No-23
N	Itrogen Dioxide (NO2)		mg/Nm3	22.56		HTH/QF/7:2/2/CH-02, SOP No-23
1 C	arbon Dioxide (CO2)		% v/v	7.90		HTH/QF/7,2/2/CH-02, SQP No-23

**End of Report*

Remarks: Particulate Matter Corrected @ 12 % Carbon Dloxide (CO2)



Annexure-11 Copy of Latest Environmental Statement Submitted on Form - V December 2022 Compliance Report





Ισ,

The Regional Officer,

Haryana State Pollution Control Board,

Star Complex, Opp. General Hospital,

Delhi Road, Sonepat (Haryana)

Subject: Submission of Environment Statement for the year 2021-22 in Form-V.

Dear Sir,

We are submitting here with environment statement of our industry for the year 2021-22 in prescribed FORM-V along with necessary Annexure.

Hope your goodness will find everything in order.

Thanking You,

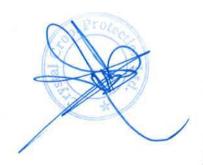
Yours Truly

FOR CRYSTAL CROP PROTECTION LTD

(Unit - Technikal Plant)

Authorized Signatory

Enclosures: Environment Statement of our industry for 2021-22 along with Annexure -1, 2,3,4,5,6



FORM» YI

(See rule 14)

Environmental Statement for the financial year ending the 31st March 2022

PART - A

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

M/s Crystal Crop Protection Ltd VPO: Nathupur, Distt: Sonipat, 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.
Clodinafop-Propargyl	89850	94600
Quizalofop-Ethyl	5650	40750
Penoxsulam	2828	2450
Pretilachlor	537350	393600
Cloquintocet mexyl	20050	52125
Bispyribac sodium		513
Tebuconazole		520

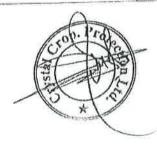
- (iv) Year of establishment 2014
- (v) Date of the last environmental statement submitted 21-09-2021

PART - B

Water and Raw Material Consumption

(1) Water consumption m3/d:

Consumed	Fresh	Recycled	Total
Process	3 M3/d	12 M3/d	15 M3/ d
Cooling	7 M3/ d	8 M3/ d	15 M31d
Domestic	2 M3/ d	**	2 M3/ d



Name of Products	Process Water Consumpti	Process Water Consumption Per Unit of Product					
	During previous Financial Year (KL/MT)	During the current Financial Year (KL/M1)					
Clodinalop-Propargyl	2.0	2.0					
Quizalotop-Ethyl	0.5	0.5					
Penoxsulam	0.5	0.5					
Pretilachlor	2	2					
Cloquintocet mexyl	2	2					
Bispyribae sodium		Ti					
Tebuconazole	***	0.875					

ii) Raw Material Consumption

Name of Raw Materials	Name of Products	Consumption of R	aw Materials Per Unit
		During the	During the
1		Previous Financial	Current Financial
		Year	Year
R-Hydroxy (Phenoxy) Propionic Acid		610 Kg/MT	610 Kg/MT
5-Chloro-2,3-difluoro		530 Kg/MT	530 Kg/MT
pyridine	Clodinafop-		
Potassium Carbonate	Propargyl	990 Kg/MT	990 Kg/MT
Propargyl Chloride		410 Kg/MT	410 Kg/MT
Dimethylformamide		750 Kg/M'I	750 Kg/M1
Methanol		450 Kg/MT	450 Kg/MT
(R)-Ethyl Hydroxy		641 Kg/MT	641 Kg/M'I
(Phenoxy) Propanoate			
2.6-Diehloro Quinoxaline	Quizalofop-Ethyl	584 Kg/MT	584 Kg/MT
Potassium Carbonate		411 Kg/MT	411 Kg/MT
Dimethylformamide	1	300 Kg/MT	300 Kg/M1
Hexane/Toluene		100 Kg/MT	100 Kg/M1
Methanol		600 Kg/MT	600 Kg/MT
Diethyl propuxy ethyl aniline	,	765 Kg/MT	765 Kg/MT
Chloro acetyl chloride	Pretilachlor	400 Kg/MT	400 Kg/M1
Sodium bicarbonate		335 Kg/MT	335 Kg/MT
2.2Difforoethoxy		700 Kg/MT	700 Kg/MT
6trifluoro methyl Ben			
5.8-Dimethoxy		300 Kg/MT	300 Kg/MT
1.2.4triazolo[1.5C]	Penoxsulam		1
Pyrimidin			
3, 5 Lutidine		400 Kg/MT	400 Kg M()



Werhaugh		Soft Nervill	of her All
Cilere 8 hydroxy		6:10 K g/M1	670 Kg/M i
valid Diffrage	Cloquintocet		
⁵ Heptano!	inexy!	430 Kg/MT	430 Kg/M1
Dimethyleformaide		500 Kg/MT	500 Kg N11
Mono-Chloro acitic acid		400 Kg/MT	400 Kg/MT
N-Hexane	-1	400 Kg/MT	400 Kg/MT
Potassium carbonate		366 Kg/MT	366 Kg/MT
Para toluene sulphuric		5 Kg/MT	5 Kg/MT
Toluene		260 Kg/MT	260 Kg/MT
2.6-di hydroxyl benzoic			398 Kg/MT
Toluene			400 Kg/MT
Di methyl formamide	Bispyribac sodium	44	580 Kg/MT
2-Methyl sulfonyl-4,-		the fire	1377.5 Kg/MT
6dimethoxy pyrimidine Potassium carbonate	-		1070 Kg/MT
A STATE OF THE PARTY OF THE PAR			380 KWM1
Hydro chloric acid Caustic soda (flakes)	4	-	260 Kg/MT
Methanol			1930 Kg/M1
1-4-ChloroPH -4dimethyl		**	961.5 Kg/MT
2pent-3one98.5% Dimethyl sufide			461 Kg/MT
Dimethyl sulphate		Annual Indiana (III)	817.3 Kg/MT
Potassium hydroxide	Tebuconazole	**	759,6 Kg/MT
Toluene	The state of the s	**	384 Kg/MT
Hydrochloric acid		1925	96.1 Kg/MT
111-1,2,4-Triazole		**	288,4 Kg/MT
N-butyl alcohol		yo	60 Kg/MT
AND THE RESIDENCE OF THE PARTY		The state in an increase of the	634 Kg/MI
'yelohexane			1 034 Kg MT

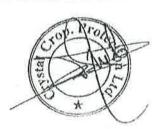
^{*}Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C

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

1) Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)
---------------	--	--

Percentage of variation from prescribed standards with leasons



at Waser	No Efficient	i .		d however FH Bis report is as	3
	discharged recycled to the process, ZLD unit	Parameter	ETP inlet result	ETP outlet result	
ì		Appearance	Light Yellow	Colorless	Within standard limits Report
		Odour	Mild	Oderless	Attached
		pH	8.47	6.95	(Annexure-1)
		COD mg/l	175.0	22.0	
		Oil&Grease	5.6	BQD(LOQ0.5)	J.
		BOD at27C	44.()	4.2	1
		3Days mg/l	74.0	8.0	
Air	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 	TSS mg/l	74.0	8.0	
The second second second	1371	100 4 204 00			= #
Boiler Stack	Volumetric flow	PM- 386.35			Within standard
	rate4466.84	SO2- 18.32			limits Report
	Nm3/Hr.	NO2- 20.70			Attached
-		CO2- 7,50 %			(Annexure-2)
Incinerator Stack	Volumetric flow	PM- 39.34 r			Within standard
	rate1412.99	SO2- 13.09 r	-		limits Report
	Nm3/Hr.	NO2- 146.75	Attached		
		CO- 79.02 m	(Annexure-3)		
	1110	02- 13.70%			
Wet Scrubber	Volumetric glow	PM- 24.56 mg	•		Within standard
	rate306.02	SO2- BLQ(LO		-	Limits Report
	Nm3/Hr.	NO2-BLQ(LO	OQ 2.0)	mg/m3	Attached (Annexure-
			·		4)
OG Set(380 KVA)	Volumetric flow	PM- 0.14 gm/			Within standard
	rate 546.97	NOx- 0.60 gm			limits Report
	Nm3/Hr.	CO- 0.11 gm/F			Attached (Annexure-
		HC- 0.04 gm/k	(wh		(5)
mbient	Sampling flow	PM10- 91.22 u	0/m2		Wielelie or o l
molen	rate 1.25m3/min	PM2.5- 49.17u			Within standard
	Tate 1.25m5/mm				limits Report
		SO2- 19.97 ug/			Attached
	1	NO2- 34.93 ug			(Annexure-6)
	1	NH3- 49.64 ug			
	1	O3- 22.56 ug/n		1	
		CO- 0.687 mg/i			
		C'6H6- BLQ(LC			
		BaP- BLQ(LOC			
		Pb- BLQ(LOQ)			
		Ni- BLQ(LOQ :			
	1	As- BLQ(LOQ	r.()) ng/r	ກຸ	
				I-	- Later Lake
			N-		Vila
			Die	_	Vilo



CRYSTAL CROP. PROTECTION LTD

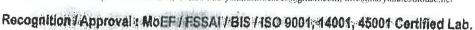
Village Nathupur, Sonepat (HR)

HARYANA TEST HOUSE

& Consultancy Services GOVT. RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164. (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net e-mail: haryanatesthousecs@gmail.com, info@haryanatesthousec.net







issued Tor

TESTREPORT

Report No. ULR No.

: HTH/EP/211228012 TC781122100000022F

Party's Ref No.

: Nil

Booking Date

: 28/12/2021

Period of Testing : 28/12/2021To 04/01/2022

Reporting Date

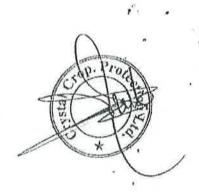
: 04/01/2022

Sample Description	:	Effluent Water Sample (ETP-Inlet)	
Type of Industry		Pesticide manufacturing	
Sample type	;	Effluent Water Sample (ETP-Inlet)	14
Date of sampling	:	28/12/2021	
Date of receipt of sample	3	28/12/2021	- 1
Sample Location	:	ETP-Inlet	
Sample quantity	:	2 Ltr.	
Purpose of analysis	:	Monitoring	(40
Sample collected/ supplied by		By our Lab. Representative	

TEST RESULTS

5.1	V. Test Parameters	Unit	Result	1	Test Method
DI:	scipline : Chemical, Group : Waste Water		***************************************		
l	Odour	*	Mild		IS 3025 (Part 5): 2018
	pl4	•	8.47		IS 3025 (Part 11) 1993 RA: 2017
	Total Suspended Sallds	mg/L	74.0		IS 3025 (Part 17) 1984 RA: 2017
	Chemical Oxygen Demand(COD)	mg/L	175.0	41	IS 3025 (Part 58) 2006 RA: 2017
	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	44.0		IS 3025 (Part 44) 1993 RA; 2019
	Oll & Grease	mg/L	5,6		IS 3025 (Part 39) 1991 RA: 2019

***End of Report'



ML Sharma

Dy. Manager (ENV.)

Page No.: 1 of 1

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Sample will be destroyed after 7 days for Perishable Items & 30 days for non-perishable items from the date of issue of test report.
The results are related to the test floors only.

DOC No HTH/QF/7.8

HARYANA TEST HOUSE

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50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.





Issued To:

CRYSTAL CROP, PROTECTION LTD

Village Nathupur, Sonepat (HR)

TEST REPORT

Report No. : HTH/EP/211228013 ULK No. : TC781122100000023F

Party's Ref No.

Booking Date : 28/12/2021

Period of Testing : 28/12/2021To 04/01/2022

Reporting Date : 04/01/2022

Sample Description

Effluent Water Sample (ETP-Outlet)

Type of Industry

Pesticide manufacturing

Sample type

Effluent Water Sample (ETP-Outlet)

Date of sampling

28/12/2021

Date of receipt of sample

28/12/2021

Sample Location

ETP-Outlet

Sample quantity

2 Ltr.

Purpose of analysis

Monitoring

Sample collected/ supplied by

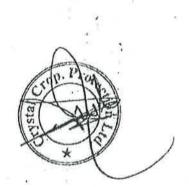
By our Lab. Representative

TEST RESULTS

		·				
5.1	N. Tust Parameters	Unit	Result		it as per EP Act, 198 land Surface Water)	
Dis	scipline : Chemical, Group : Waste Water				٠,	
1	Odour	-	Odourless	2		(\$ 3025 (Part 5); 2018
2	рН	-	6.95	65	5.5 - 9.0	IS 3025 (Part 11) 1993 RA: 2017
3	Total Suspended Solids	mg/L	8,0	,	100 Max	IS 3025 (Part 17) 1984 RA: 2017
4	Chemical Oxygen Dernand(COD)	mg/L	22.0	•	250 Max	IS 3025 (Part 58) 2006 RA: 2017
5	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	4.2		30 Max	IS 3025 (Part 44) 1993 RA: 2019
6	Oll & Grease	mg/L	BLQ(LOQ 0.5)		10 Max	IS 3025 (Part 39) 1991 RA: 2019
			where I co.	- 40 14 4		

***End of Report*

Remarks: BLQ: Below limit of Quantification / LOQ: Limit of Quantification



Dy. Manager (ENV.)

Page No. 10

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& Consultancy Services GOVT RECOGNISED LABORATORY

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Contact: (Off.) 86077-70160, 0180-3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 Web Site: www.haryanatesthouse.net e-mail: haryanatesthousecs@gmail.com, info@haryanatesthouse.net

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Issued To:

CRYSTAL CROP. PROTECTION LTD Village Nathupur, Sonepat (HR) TESTREPORT

Report No.

: HTH/EP/211229005

ULR No.

: TC781122100000014F

Party's Ref No.

Booking Date

: 29/12/2021

Period of Testing : 29/12/2021To 03/01/2022

Reporting Date

: 03/01/2022

Sample Description

Type of Industry

Name of Plant/ Section

Date of sampling Capacity of Boiler

Source of Emission

Instrument used

Instrument Calibration Status

Type of stack Type of Fuel used

Stack height (from the ground level)

Stack diameter (at the sampling point)

Sample Location Purpose of sampling

Sample collected by

Type of APCM A Observations

Stack gas temperature, &C 2. Temperature at Metering point, 9C

3. Avg. stack gas velocity, m/sec 4. Sampling flow rate, Lt./mln.

5. Period of sampling, Minutes

6. Volumetric flow rate, Nm3/Hr

: Stack Emission (Boller)

Pesticide manufacturing

Boiler Section 29/12/2021

2 TPH

Stack Attached to Boiler

Stack Sampler VSS1 (Sr.No. 247 DTK 2019)

Calibrated (upto 24.12.2022)

Wood

: 30 meter : 0.55 meter

: As per standard norms

: Monitoring

By our lab representative

: 130.0 : 18.0

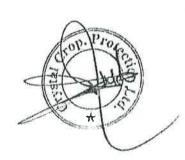
; 7.35 : 23.0

: 30.0 : 4466.84

B Results

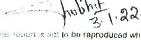
S.N. Test Parameters	Units	Result	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution				7032 (11/24)00
1 Particulate Matter (PM)	mg/n13	386.35	800 Max	IC 11707 (D. 4.1) 4000
2 Sulphur Dioxide (SO2)	mg/m3	18.32	000 1112	IS 11255 (Part-I): 1985: RA: 20
Nitrogen Dioxide (NO2)	mg/m3	20.70		HTH/QF/7.2/2/CH-02, SOP No.:
4 Carbon Dioxide (CO2)	% v/v	7.50		HTH/QF/7.2/2/CH-02, 5OP No-2
	र र	*End of Report*	**	HTH/QF/7.2/2/CH-02, SOP No-2

Remarks: Particulate Matter Corrected @ 12 % Carbon Dloxide (CO2)



ML Sharma Dy. Manager (ENV.)

Page 100: 10



& Consultancy Services

50-C. Sector-25 Part-H. HUDA, PANIPAT-132 103 (HR.)

Contact: (CH) (S60 % 20160, 0180, 3510205 (Larv.) 86072-20164. (BM) 86077-70166. (Pood) 86077-20169. Web Site: www.haryanatesthouse.net e-mail: haryanatesthouse.stepnad.com; infogeharyanatesthouse.net

Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

invest la

LERYSTAL CROP, PROTECTION LTD village Nathupur, Sonepat (HR) Report No.

: HTH/EP/210731004

ULR NO 🖑 🔼

TC781121100000903F

Party's Ref No.

Booking Date

: 31/07/2021

Period of Testing 31/07/2021To 06/08/2021

Reporting Date

06/08/2021

Sample Description

Type of Industry Name of Plant/ Section

Date of sampling

Source of Emission

instrument used

Instrument Calibration Status Type of Chimney

Type of Fuel used Stack height (from the ground level)

Stack diameter (at the sampling point) sample tocation

Purpose of sampling

Sample collected by A Observations

Stack gas temperature, PC Temperature at Metering point, 90

3. Avg. stack gas velocity, m/sec

4. Sampling flow rate, Lt./min. 5. Period of sampling, Minutes

6 Volumetric flow rate, Nm3/Hr **B** Results

Stack Emission (Incinerator)

Pesticide manufacturing

Incinerator Section 31/07/2021

Stack Attached to Incinerator

Stack Sampler VSS1 (Sr.No. 247 DTK 2019)

Calibrated (upto 28.12.2021)

Metal : HSD

30 meter : 300 mm,

: As per standard norms

Monitoring

By our lab representative

: 124.0

34.0 7.59

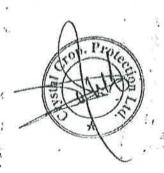
: 25.0 : 30.0

1412.99

~	11034113					
s.	N. Test Parameters		Units	Results	Standard Limit	Test Method
Di	scipline: Chemical, Group: Atmospheric Pollution					
1	Carbon Monoxide (CO)		mg/Nm3	79.02	. 100 Max	HTH/QF/7.2/2/CH-02, SOP No-23
3	Nitrogan Dioxide (NO2)		mg/Nm3	146.75	400 Max	HTH/QF/7.2/2/CH-02, SOP No-23
j	Oxygen (O2)	- 2	%	13.70		HTH/QF/7.2/2/CH-02, SOP No-23
1	Particulate Matter (PM)	19	mg/Nm3	39.34	50 Max	IS 11255 (Part-I): 1985: RA: 2019
5	Sulphur (Jioxide (SO2)		nig/Nm3	13.09	. 200 Max	HTH/QF/7.2/2/CII-02, SOP No-23

***End of Report*

Remarks: Facticulate Matter Corrected @11 % O2



- ML Sharma Dy. Manager (ENV.)

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Recognition / Approvel: MoEF / FSSA! / BIS / ISO 9001, 14001, 45001 Certified Lab.





TEST REPORT

Issued To:

CRYSTAL CROP. PROTECTION LTD

Village Nathupur, Sonepat (HR)

Report No.

: HTH/EP/211229004

ULR No.

: TC781122100000004F

Party's Ref No.

: NII

Booking Date

: 29/12/2021

Period of Testing : 29/12/2021To 03/01/2022

Reporting Date

03/01/2022

Sample Description

Type of Industry

Name of Plant/ Section

Date of sampling Source of Emission

Instrument used

Instrument Calibration Status

Type of Chimney Type of Fuel used

Stack height (from the ground level) Stack diameter (at the sampling point)

Sample Location

Purpose of sampling

Sample collected by

A Observations

1. Stack gas temperature, PC 2. Temperature at Metering point, PC Avg. stack gas velocity, m/sec

4. Sampling flow rate, Lt./min. 5. Period of sampling, Minutes

6. Volumetric flow rate, Nm3/Hr **B** Results

Stack Emission (Process)

Pesticide manufacturing Scrubber Section

29/12/2021 Scrubber Section

Stack Sampler VSS1 (Sr.No. 247 DTK 2019) Calibrated (upto 24.12.2022)

Metal HDPE42.0

: Not Specified : 12 meter

: 150 mm

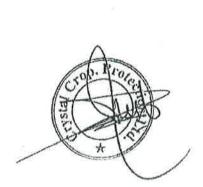
: As per standard norms : Monitoring

By our lab representative

: 30.0 : 17.0

> : 5.09 ; 21.0 : 30.0 : 306.02

S.N. Test Parameters	Units	Result	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution			· · · · · · · · · · · · · · · · · · ·	
1 Particulate Matter (PM)	mg/m3	24,56	150 Max	(C 113EE (On at 1) 100E 11
2 Sulphur Dioxide (SO2)	mg/m3	BLQ(LOQ:3.0)	230 14107	IS 11255 (Part-I): 1985: RA: 201
3 Nitrogen Dioxide (NO2)	mg/m3	BLQ(LOQ:2.0)		HTH/QF/7.2/2/CH-02, SOP No-2
		End of Report		HTH/QF/7.2/2/CH-02, SDP No-23



ML Sharma

Dy. Manager (ENV.)



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Sample will be destroyed after 7 days for Perishable Items 8-30 days for non-perishable-flows from the date of issue of test report.
The results are related to the last items only.

1667

& Consultancy Services

50-1., Sector-25 Part-II, HUDA, PANTPA'I-132 103 (HR.)

Contact (Off.) 8607 170160, 0180 3510205 (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169 With Sile www.haryanatesthouse.net. e-mail: haryanatesthousees@pmail.dem. unfogeharyanatesthouse net

Recognition / Approval: MoEF / FSSAI / BIS / ISO 9001, 14001, 45001 Certified Lab.

TEST REPORT

Issued for

CRYSTAL CROP, PROTECTION LTD

Village Nathupur, Sonepat (HR)

Report No. : HTH/EP/210731007 ULR No. : TC781121100000906F

Party's Ref No. : NII

Booking Date : 31/07/2021

Period of:Testing : 31/07/2021To 06/08/2021

Reporting Date 06/08/2021

Sample Description

Type of Industry

Dame of Plant/ Section

Date of sampling

Lapacity of 66

Source of Emission

instrument used

Instrument Calibration Status

Type of stack

Type of Fuel used

Stack height (from the ground level) Stack diameter (at the sampling point)

samele cocamon

Parpose of sampling

Sample collected by A Observations

Stack gas temperature, PC

Temperature at Metering point, 90

and stack gas velocity, m/sec

sampling flow rate, Lt./min.

· Period of sampling, Minutes

6. Volumetric flow rate, Nm3/Hr

: Stack Emission (DG 380 KVA)

Pesticide manufacturing

: DG Section

: 31/07/2021

: 380 KVA

: Stack Attached to DG

: Stack Sampler VSS1 (Sr.No. 247 DTK 2019)

: Calibrated (upto 28.12,2021)

: Metal

: HSD

: 6 meter

: 6 Inch

: As per standard norms

: Monitoring

: By our lab representative

: 220.0

: 34.0

14.34

1 17.0

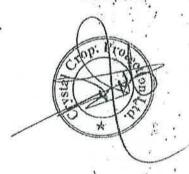
: 30.0

\$ 546.97

B Results

5.1	N. Test Parameters		Units	Result	1	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution		-		. 3	Y		
	Particulate Matter (PM)	-	gm/kwh	0.14		: 0.2 Max	IS 11255 (Part-i): 1985 : RA 201
p.	Nitrogen Dioxide (NOx)	9	gm/kwh	.0.60	300	200	HTH/QF/7.2/2/CH-02, SOP No-2
3	Carbon Monoxide (CO)		gm/kwh	0.11	10-2	3,50 Max	HTH/QF/7.2/2/CH-02, SOP No. 2
Œ	Foral Hydrocarbon (HC)	•	gm/kwh	0.04		30C	HTH/QF/7.2/2/CH-02, SOP No-2
5	Nitrogen Dioxide + Total Hydrocarbon (NOx + HC)		gm/kwh	0.64	W 10 10.	4.0 Max	HTH/QF/7.2/2/CII-02, SOP No-2

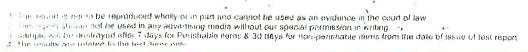
***End of Report:



ML Sharma

Dy. Manager (LNV.)





things want

HARYANA TEST HOUSE

& Consultancy Services

GOVE RECOGNISED LABORATORY

50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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TEST REPORT

Report No.

: HTH/EP/211229007

ULR No.

: TC781122100000025F

Party's Ref No.

: Nil

Booking Date

: 29/12/2021

Period of Testing : 29/12/2021To 04/01/2022

Reporting Date

: 04/01/2022

Sample Description : Ambient Air Quality Monitoring

Type of Industry

Issued To:

Pesticide manufacturing

Date & time of sampling

: 28/12/2021 (10:00 Hrs) to 29/12/2021 (10:00 Hrs)

Imple Location

: Near Gate No.5 (ETP Area)

Instrument used

: RDS Model APM- 460 BL (Sr. No. 3045 DTD 2017)

Instrument Calibration Status

CRYSTAL CROP. PROTECTION LTD

vinge Nathupur, Sonepat (HR)

: Calibrated (upto 19.07.2022)

Purpose of analysis

.: Monitoring

Sample collected/ supplied by

: By our Lab. Representative

A. Observations:

Sampling flow rate (Avg.)

.: 1.25 m3/min

Lotal volume of air sampled

: 1800.00 m3

3. Period of sampling

: '24 Hrs

N Test Parameters		Units	Result	Standard Umits (NAAQS)	Test Method
iscipline Chemical, Group - Atmos	pheric Pollution				
Particulate Matter (PM10)		μg/ m3	91.22	100 mak	IS \$182 (Part-23) : 2006 : RA: 2017
Particulate Matter (PM 2.5)		.5 μg/ m3	49.17	60 max	IS 5182 (Part-24) : 2019
Sulphur Dioxide (502)	i are	Em\gμ	19:97	80 max	IS 5182 (Part-2): 2001 : RA: 2017
Nitrogen Dioxide (NO2)	* 1 0	μg/ m3	34.93	80 max	IS \$182 (Part-6): 2006 : RA: 2017
Ammonía (NH3)		µg/ m3	49.64	400 max	IS 5182 (Part-25) : 2018
Ozone (O3)	29× 6	£т /g/ m3	22.56	100 max	IS 5182 (Part-9): 1974: RA: 2017
Carbon Monoxide (CO)		· mg/m3	0.687	4 max	IS 5182 (Part-10): 1999: RA: 2017
Benzene (C6H6)		µg/ m3	BLQ (LOQ-0.52)	5 max	IS 5182 (Part-11): 2006 : RA: 2017
Benzo - Pyrene (BaP)	880	ng/m3	BLQ (LOQ-0.1)	1 max	IS 5182 (Part-12) : 2004 : RA: 2019
tead (Pb)	Y	μg/ m3	BLQ (LOQ-0,0Z)	1 max	IS 5182 (Part-22): 2004 : RA: 2019
Nickel (NI)	3 40 40	Em/gn	BLQ (LOQ:2)	20 max	HTH/QF/7.2/2/ICP-01 SOP No 17
Arsenic (As)	, ,	rg/m3	BLQ (LOQ:1)	6 max	HTH/QF/7.2/2/ICP-01 SOP No 17
	X	*	**End of Report***		

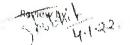
end of Report

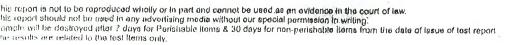
Standard limits are as per CPCB notification Nov. 2009

BLQ : Below limit of Quantification / LOQ : Limit of Quantification



ML Sharma Oy. Manager (ENV.)





PART - D

Hazardous Wastes

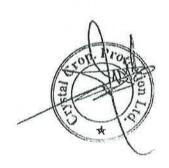
(As specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Waste	Total Quantity Disposed (Kg)			
	During the previous financial year	During the Current linancia		
 a) From Process i) Residue from Solvent Purification ii) Used Mobile Oil 	4025 Kg Incinerated 300 liter Used for lubrication of lathe machine	3900 Kg Incinerated i) 250 liter To recycler or co-processors To OM Industry		
b) From Pollution Control Facility		14		

PART - E

property to the second	Solid Wastes			
Solid Waste	Total Quantity Disposed (Kg)			
	During the Previous Financial Year	During the Current Financial Year		
a) From Process (Process Studge)	6000 Kg	16600 Kg		
b) From Pollution Control Facility (MEE Sludge)	4850 Kg	16800 Kg		
c) Incinerated Ash	50 Kg	NII		
d) Plastic Waste	Nil	Nil		
e) Cotton Waste	Nil	Nil		
f) (1) Quantity Recycled or re-utilized within the unit	Nil	Nil		
(1) Sold	Nil	Nil		
(2) Disposed	10900 Kg Given to GEPIL	33400 Kg Given to GEPIL		

PART - F



There appears in characterizations (in terms of composition of quantity) as solid waster, and indicate disposal practice adopted for both these compositions of

Candidates	Quantity	Disposal Method
zardous Wasie		
Solvent Residue	3900 Kg	Incinerated in dual Furnace incinerator
Used Cill	250 liter	i) To recycler or co-processors To OM Industry
Vaste		
Process sludge	16600 Kg	To GEPIL
M.E.E studge	16800 Kg	TO GEPIL
	zardous Wasie Solvent Residue Used Oil Vaste Process sludge	zardous Wasie Solvent Residue 3900 Kg Used Oil 250 liter Vaste Process sludge 16600 Kg

PART - G

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

PART - H

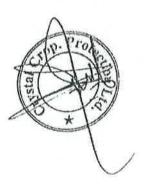
Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- 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.

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 water & chilled brine secondary condenser. Even vent of secondary condensers are connected to wet scrubber. Also we have installed excess capacities of utilities. A500 TR cooling tower & 30 TR brine chilling plant at -25 deg C



Products	Sample Size	Primary Packaging	Secondary Packaging	Transport Packaging]
1.	CF- 1837 WG	100ml, 200ml, 500ml, 1 lit	HDPE Jar	Mono carton	5 Ply Corrugated Box
2.	CI- 6102 WG	100g, 250g, 500g, 1kg	HDPE jar	Mono carton	5 Ply Corrugated Box
3.	CI- 5211 ME	100g, 250g , 500g, 1kg	HDPE jar	Mono carton	5 Ply Corrugated Box
4.	CCP-75603 WG	350g , 700g, 1.5 kg, 3.5kg	HDPE jar	Mono carton	5 Ply Corrugated Box
5.	CCP-1221 WG	100g, 250g , 500g, 1kg	HDPE jar	Mono carton	5 Ply Corrugated Box
6.	CH-24124 WG	25g, 50g, 100g, 250g, 500g, 1kg	HDPE/Co-ex jar	Mono carton	5 Ply Corrugated Box
7.	GA 2021 T	10-tab, 25-tab, 50 tabs	HDPE jar	Mono carton	5 Ply Corrugated Box
8.	CI-6121G	1kg, 2.5kg, 5kg, 10kg	Trilaminate	-	5 Ply Corrugated Box

