Bharat RASAYAN LIMITED

WORKS : UNIT-I: 2KM Stone, Madina-Mokhra Road, Village Mokhra, Distt. Rohtak (Haryana)-124022, Ph.: 01257-260755/756/757 • Fax: 260758

To,

Date:13.11.2024

Advisor,
Ministry of Environment, Forest & Climate Change
Northern Regional Office
Bays No. 24-25, Sector 31-A
Dakshin Marg, Chandigarh-160030

Reference: **Environmental Clearance No. J-11011/253/2015-IA-II(I) dated 15/11/2023**

Sub: Submission of Point-wise six-monthly compliance report for the period of April-2024 to September-2024 to be submitted in December-2024 of Environmental/Safeguards Conditions stipulated in Environmental Clearance (EC) letter of the Product Mix Expansion of existing products, Pesticides unit production capacity (4260 TPA to 4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd.

Dear Sir,

With reference to the submission of Point wise six-monthly compliance report for the period of April-2024 to September-2024 to be submitted in December-2024 of Environmental/Safeguards Conditions stipulated in obtained Environmental Clearance vide Letter No. J-11011/253/2015-IA-II(I) dated 15/11/2023 for the Expansion of existing products (production capacity - 4260 TPA to 4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd.

In this regard, as per the conditions laid down in the Environmental Clearance Letter, we are hereby submitting point wise six-monthly compliance report for the period April-2024 to September-2024 to be submitted in December-2024 along with all the requisite annexures as per the guidelines of Ministry of Environment, Forest & Climate Change.

Thank You.
Yours Faithfully,

For BHARAT RASAYAN LTD.

(Authorised Signatory)

Copy to:

(i) **The Chairman, Haryana State Pollution Control Board, C-11, Sec-2, Panchkula, Haryana.**

(ii) **Member Secretary, State Environment Impact Assessment Authority, Bays No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana.**

(iii) **Additional Director, Central Pollution Control Board, BSNL Exchange, Sector-49C, Chandigarh, Haryana-1600047**

SIX-MONTHLY COMPLIANCE REPORT OF STIPULATED ENVIRONMENTAL CLEARANCE CONDITIONS

Period of Compliance

(April-2024 to September-2024)

Product Mix Expansion of existing Pesticides Unit (Production capacity- 4260 TPA to 4260 TPA), and By-products (23541.05 TPA to 23427.02 TPA)

(Environmental Clearance Letter No.
J-11011/253/2015-IA-II(I) dated 15/11/2023)
at
Plot Nos. 77, 331, 280/1, 258,
216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhara Road, Village Mokhra,
Tehsil Meham, Dist. Rohtak, Haryana

By

M/s Bharat Rasayan Ltd.

M/s Perfact Solutions

(Environment Consultant)

5th Floor, NN Mall, Mangalam Palace, Sector-3, Rohini, New Delhi

Ph No. 011- 49281360

December- 2024

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CHAPTER-I: PURPOSE OF THE REPORT

As per the "Sub Para (ii)" of "Para 10" of EIA Notification 2006, it is stated that "It shall be mandatory for the project management to submit half-yearly compliance reports in respect of the stipulated prior environmental clearance conditions/safeguards in soft copies to the regulatory authority concerned, by June and December of each calendar year" and as per compliance of condition mentioned in Environment Clearance Letter Six monthly compliance reports should be submitted to the Haryana State Pollution Control Board and Regional Office, MOEF, GOI, Northern Region, Chandigarh.

It is mandatory to submit a Six-Monthly Compliance Report to show the status & compliance of all the Conditions mentioned in the Environment Clearance Letter, along with monitoring of various Environmental Parameters (as per CPCB Norms).

The regulatory authorities, in this case, are Haryana State Pollution Control Board, Regional Office-MoEF (Chandigarh), and State Environment Impact Assessment Authority, Haryana.

Based on the Environmental Clearance Conditions mentioned in the EC Letter, a Compliance Report is prepared by the Perfact Solutions on behalf of Project Proponent; details of which are present in Chapter – "Compliance Report".

Methodology for Preparation of Report is as follows:

1. Study of EC Letter & Related Documents,
2. Site Visits by a representative/team of Environment Consultant,,
3. Monitoring of Environment Parameters, viz. Ambient Air, Drinking Water, Ambient Noise, Soil, ETP Inlet & Outlet, STP inlet & Outlet, DG Stacks, and Boiler Stacks.
4. Analysis of Samples collected during Monitoring,
5. Interpretation of Monitoring Results,
6. Compliance Report, explaining the entire Environmental Clearance conditions in the EC Letter and providing details w.r.t. each condition/ guideline.

CHAPTER II: INTRODUCTION

The proposed project is a Existing Pesticides unit (production capacity-4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd. owned Environmental Clearance vide letter No J-11011/253/2015-IA-II(I) dated 15.11.2023 under EIA Notification 2006 and its subsequent amendments.

Particulars	Details of Project
Name of the project	Expansion of Existing Pesticides Unit
Developed by	M/s Bharat Rasayan Ltd.
Site address	Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana
Environment Clearance Letter No.	J-11011/253/2015-IA-II(I) dated 15.11.2023
Period of Compliance	April-2024 to September-2024 to be submitted in December-2024
Consent to establish	Consent to Establish has been granted from HSPCB vide consent No. HSPCB/CONSENT/:313100923ROHCTE31330011 dated-17.01.2023 valid up to 16.01.2028. **(Annexure-II)**
Consent to Operate	Consent to Operate has been granted from HSPCB vide consent No. HSPCB/Consent/ : 313100924ROHCTO48518049 dated 22.02.2024 valid up to 30.09.2025. **(Annexure-III)**
Project Status	Operational

PROJECT DETAILS

The proposed project will have the following salient features:

<table>
<tr><th>S No</th><th>Particulars</th><th>Details</th></tr>
<tr><td>1.</td><td>Details of the Project</td><td>Expansion of Pesticides Technical Manufacturing Unit</td></tr>
<tr><td>2.</td><td>Latitude and Longitude of the project site</td><td>28.90959496385243,76.43079645568805
28.91172068990458,76.43354157980241</td></tr>
<tr><td>3.</td><td>Land Requirement (in Ha) of the project or activity</td><td><table><tr><td>Nature of Land involved</td><td>Area in Ha.</td></tr><tr><td>Non-Forest Land (A)</td><td>4.4517</td></tr><tr><td>Forest Land (B)</td><td>0</td></tr><tr><td>Total Land (A+B)</td><td>4.4517</td></tr></table></td></tr>
<tr><td>4.</td><td>Project Cost (in lacs)</td><td>5500</td></tr>
<tr><td>5.</td><td>EMP Cost (in lacs)</td><td>1277</td></tr>
</table>

DETAILS OF PRODUCTS & BY-PRODUCTS

Name of the product /By-product	Product/ By-product	Existing	Proposed	Total	Unit	Mode of Transport/ Transmission
Alphacypermethrin Technical	Product	100	-80	20	Tons per Annum (TPA)	Road
Bifenthrin Technical	Product	120	430	550	Tons per Annum (TPA)	Road
Cypermethrin Technical	Product	350	-330	20	Tons per Annum (TPA)	Road
Fenvalarate Technical	Product	300	200	500	Tons per Annum (TPA)	Road
Fipronil Tech.	Product	100	-50	50	Tons per	Road

					Annum (TPA)	
Lambda Cyhalothrin Tech.	Product	300	250	550	Tons per Annum (TPA)	Road
Permethrin Tech.	Product	100	-80	20	Tons per Annum (TPA)	Road
Thaimexotham Tech	Product	300	-300	0	Tons per Annum (TPA)	Road
Diafenthiroun Tech.	Product	150	-150	0	Tons per Annum (TPA)	Road
Fluxametamide	Product	0	100	100	Tons per Annum (TPA)	Road
Quinoxyfen Tech	Product	0	100	100	Tons per Annum (TPA)	Road
Clodinafop Tech.	Product	100	-100	0	Tons per Annu (TPA)	Road
Propanil Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Pyrazosulfuron Tech	Product	20	-20	0	Tons per Annum (TPA)	Road
Imaizethapyre Tech.	Product	25	-25	0	Tons per Annum (TPA)	Road
Safener	Product	30	-30	0	Tons per Annum (TPA)	Road
Tebuconazole Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Difenconazole Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Myclobutanil	Product	15	-15	0	Tons per Annum (TPA)	Road
Methaphenoxybenzaldehyde	Product	1800	-500	1300	Tons per Annum (TPA)	Road
Parachlorophenyl Isopropyl Acetic acid	Product	200	0	200	Tons per Annum (TPA)	Road
Meta bromo Benzaldehyde	Product	0	20	20	Tons per Annum (TPA)	Road
Parachlorbenzylcyanide	Product	100	0	100	Tons per	Road

					Annum (TPA)	
4-Acetly-2-Methy Benzamide	Product	0	100	100	Tons per Annum (TPA)	Road
3,5-Dichloro-2,2,2-Trifluoro Acetophenone	Product	0	150	150	Tons per Annum (TPA)	Road
Parachlorophenyl Acetic acid	Product	0	340	340	Tons per Annum (TPA)	Road
Meta phenoxy Banzal Acetal	Product	0	130	130	Tons per Annum (TPA)	Road
Pilot plant	Product	0	10	10	Tons per Annum (TPA)	Road
Alum	By-Product	9536.4	-498.16	9038.24	Tons per Annum (TPA)	Road
Pot. chloride	By-Product	5036.5	-471.43	4565.07	Tons per Annum (TPA)	Road
Spent Acid	By-Product	824.95	361.37	1186.32	Tons per Annum (TPA)	Road
Hydrochloric Acid 28 %	By-Product	2255	-75.6	2179.4	Tons per Annum (TPA)	Road
Sodium Sulphite	By-Product	1402.9	898.15	2301.05	Tons per Annum (TPA)	Road
Potassium Bromide Soln.	By-Product	3726.7	-382.06	3344.64	Tons per Annum (TPA)	Road
Sodium Bromide Soln.	By-Product	758.6	53.7	812.300	Tons per Annum (TPA)	Road

CHAPTER III: POINT – WISE STATUS OF COMPLIANCES FOR GRANTED ENVIRONMENTAL CLEARANCE CONDITIONS

<table>
<tr><th colspan="3">Part A – Specific Conditions</th></tr>
<tr><th>S. No.</th><th>Environmental Conditions/Safeguards</th><th>Compliances</th></tr>
<tr><td>i)</td><td>The PP shall maintain greenbelt over an area of at least 16068.65 m2 (36.10%). The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.</td><td>The unit has a green area of 16,068.65 square meters (36.10% of the total plot area). Green is well maintained and they are also increasing the green area planted, so many new plants inside the plant and a new park has also been developed inside the plant.The green area is well maintained and has been planted with Arjun tree, Neem, Shisham, Ficus, and Papri, as well as other trees, herbs, and shrubs.(Annexure-XII)
<table>
<tr><th>S.No.</th><th>Scientific Name</th><th>Common Name</th></tr>
<tr><td>1.</td><td>Syzygium cumini</td><td>Jamun</td></tr>
<tr><td>2.</td><td>Azadirachta indica</td><td>Neem</td></tr>
<tr><td>3.</td><td>Dalbergia sissoo</td><td>Shisham</td></tr>
<tr><td>4.</td><td>Eucalyptus spp.</td><td>Blue gum</td></tr>
<tr><td>5.</td><td>Ficus benghalensis</td><td>Banyan tree</td></tr>
<tr><td>6.</td><td>Terminalia arjuna</td><td>Arjun tree</td></tr>
<tr><td>7.</td><td>Polyalthia longifolia</td><td>False Ashoa</td></tr>
<tr><td>8.</td><td>Pithecellobium dulce</td><td>Tamarind</td></tr>
<tr><td>9.</td><td>Morus alba</td><td>White Mulberry</td></tr>
<tr><td>10</td><td>Holoptelea integrifolia</td><td>Papri</td></tr>
</table></td></tr>
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<table>
<tr>
<td></td>
<td></td>
<td>
<table>
<tr><td>11</td><td>Casuarina equisetifolia</td><td>Whistling Tree</td></tr>
<tr><td>12</td><td>Cascabela thevetia</td><td>Kaner</td></tr>
<tr><td>13</td><td>Bougainvillea</td><td>Paperflower</td></tr>
<tr><td>14</td><td>Dalbergia sissoo</td><td>Shisham</td></tr>
<tr><td>15</td><td>Pithecellobium dulce</td><td>Tamarind</td></tr>
<tr><td>16</td><td>Holoptelea integrifolia</td><td>Papri</td></tr>
<tr><td>17</td><td>Cascabela thevetia</td><td>Kaner</td></tr>
<tr><td>18</td><td>Ficus Carcia</td><td>Ficus</td></tr>
</table>

Survival percentage of trees and plants was 80%.
The budget earmarked for the landscaping/plantation has been spent Rs. 0.25 Crore for existing plantation.
We have submitted an audited statement along with proof of activities to the Regional Office of MoEF&CC before 1st July of 2024.
</td>
</tr>
<tr>
<td>ii)</td>
<td>A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/ specialisation in the project area) equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage VP operations- Environment cell- Health and safety cell- Manager EHS- dy. Manager EHS- Supervisor- Helper- Medical officer- safety officer supervisor. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards</td>
<td>An Integrated Environmental Management Cell having qualified persons with Environmental Science/Environmental Engineering/ specialisation in the project has been provided with full-fledged laboratory facilities to carry out the Environmental Management and Monitoring functions and We have management system to ensure the quality of environment, occupational, Health and safety legislative & Other requirements, conserve natural resources and minimise wastes. Copy of the EMP/EHS had been submitted with the last compliance Report (June-2024).</td>
</tr>
</table>

	the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	The annual amount of Rs. 1,88,67,281/- spent on the engagement of qualified personnel in EMC. We have submitted an audited statement along with proof of activities to the Regional Office of MoEF&CC before 1st July of 2024.
iii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is 12.77 Crores (Capital cost) and 9.78 Cr per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	We are complying with all the environmental protection measures and safeguards as proposed and submitted to the Ministry. We conduct HAZOP/HAZEN by engaging third party consultants; We do take the recommendations of the experts and get those recommendations implemented in addition to the provisions made in the EIA/EMP in respect of environmental management and risk mitigation measures related to the project.- The audited statement along with proof of implementation of activities proposed under the EMP including photographs of the implemented activities such as the installation of DG sets (750 kVA, 03 nos), Bag filters, and the Online ambient monitoring system, all with geo-location, date, and time has been enclosed.
iv)	The total water requirement shall not exceed 318 KLD, out of which, 235 KLD shall be freshwater requirement from ground water source and 83 KLD shall be treated water requirement (50 KLD from ETP & 33 KLD from STP). The PP shall ensure that water supply should not be exceed the permissible limit as mentioned in the letter and fresh water from ground water shall be withdrawn only after obtaining requisite permission from CGWA. The PP shall submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st	At present water requirement is 271.41 KLD and we ensure that the total water requirement will not exceed 318 KLD in future. It is being complied at present. Further, We have submitted renewal application for CGWA permission and same is under progress for the approval from Haryana Water Resource Authority. Copy of the same is enclosed as **Annexure-VII** Noted.

	July of every year for the activities carried out during the previous year	
v)	Biomass / LPG shall be used as a fuel in the Boiler and TFH.	Biomass and LPG is being used as Fuel in the Boiler and TFH. All existing boilers are connected with APCS (multi cyclone separator with ESP) and TFH attached with a bag filter.
vi)	The total trade effluent from the production activities shall increase from 49.61 KLD to 53 KLD which shall be treated in ETP. 53 KLD trade effluent shall be treated in effluent treatment plant of capacity 100 KLD comprising of neutralization, evaporation, biological treatment, filtration, RO plant to achieve 100% treated water reuse in process. Sewage of about 35 KLD shall be sent to the STP and treated water from STP of about 33 KLD shall be used for gardening. 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises.	At present since the production is made in batch mode depending upon the market demands, and more often the effluent is more of the same COD and TDS range , the entire effluent is collected and sent to an ETP of 100 KLD followed by MEE of 100 KLD and followed by an RO unit. Treated effluent is recycled and reused. And we ensure that we will comply with the condition after expansion of production capacity in future as well.
vii)	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	We are not manufacturing any banned chemicals.
viii)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted.
ix)	The project proponent shall comply with the environment norms for Pesticide Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 446 (E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986.	We are complying with the environment norms for Pesticide Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 446 (E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986.

x)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	All necessary precautions are being taken to avoid accidents and an action plan already implemented for existing protection capacity for avoiding any Explosion in process/ storage areas, any Fire/ Explosion in boiler area and avoiding Chemical Leakage/Chemical spillage/ release. We have already implemented the onsite/offsite emergency plan.
xi)	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.	The volatile organic compounds (VOCs)/Fugitive emissions are being controlled by installed two stage scrubbers. Noted regular monitoring of VOCs is being carried out. **Fugitive Emission Control measure:** ● All solvent containing vessels & tanks are equipped with condensers connected to Chilled water and Brine solution for effective control of solvent/ VOC emissions. ● Reactors/ connections are provided with mechanical seals. ● Solvent handling pumps are provided with mechanical seals. ● Solvents are transferred in a closed line and added in the vessel by side wall wetting. It ensures no vapour generation during transfer operation. ● The traces of vapour generated in the vessel are sent to the scrubber.
xii)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	Noted.
xiii)	The occupational health centre for surveillance	We are doing health surveillance of workers

	of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	as per factory Act/Insecticide Act twice in a year by 3rd party agencies. Relevant records are maintained. Safety audit have also been conducted during this period.
xiv)	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	Regular training conducted of all employees regarding safety and health aspects for handling chemicals. And Action plan for mitigation measures has been properly implemented based on the safety and risk assessment studies. Conducted training Details enclosed as **Annexure-XIV.** Safety audit have also been conducted during this period.
xv)	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.	Fire fighting arrangement provided with fire hydrant and fire extinguisher and -HSD storage D in underground MS Tank at inflammable RM storage area and separate storage areas have been provided for liquid and solid (powder) products and hazardous and non- hazardous solid waste.
xvi)	The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	The solvent management is being carried out as follows: (a) Reactor has been connected to the condenser system. (b) Reactors/ connections are provided with mechanical seals. And Solvent handling pumps are provided with mechanical seals. (C) Solvents are transferred in a closed line and added in the vessel by side wall wetting. It ensures no vapour generation during transfer operation. The traces of vapour generated in the vessel are sent to the scrubber.
xvii)	The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to	Implemented waste minimization strategies as much as possible include recycling solid waste (e.g., scrap iron, wooden pallets, fiber drums), treating liquid waste in a wastewater plant with a 'Zero Liquid Discharge' system, reusing by-products like

	minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.	spent acid to reduce raw material consumption, and responsibly managing hazardous waste (e.g., used oil) through recycling or authorized disposal facilities. Our approach follows environmental best practices, emphasizing reduction, recycling, and reuse for sustainable waste management.
B	**Standard Conditions**	
S. No	**Environmental Conditions/Safeguards**	**Compliances**
i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and agreed. If any expansion is proposed further prior permission will be taken.
ii)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	We have obtained a licence to import and store petroleum licence No. P/HQ/HN/15/329(P1886) valid up to 31.12.2026. We have obtained authorization under Hazardous and Other Wastes(Management & Transboundary Movement) Rules, 2016 vide id No. : HWM/ROH/2024/27065815 dated 10.04.2024 which is valid upto 30.09.2025, Copy of the same is enclosed as **Annexure-VIII**
iii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	We are using energy efficient equipment and LED based bulb, tube lights. An energy audit has also been conducted during this period.

iv)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	To reduce Ambient Noise level the following measures has been adopted adopted-: ● Existing DG set has been bought acoustically enclosed & placed inside an acoustically treated room as per CPCB guidelines and the same will be followed for the proposed DG set. ● Noise generating units like machinery area, canteen etc. are well insulated with enclosed doors. Earmuffs are being used while in high noise areas. ● Maintenance of vehicles and machinery is being done in a sustainable manner to ensure best performance and less loss. ● Vehicle during shift changes is being regulated by allowing exits in a phased manner. ● The green belt helps in reducing noise levels in the complex as a result of attenuation of noise generated due to plant operations and transportation. The ambient noise levels are being conformed to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
v)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We are actively engaged in corporate social responsibility by renovating government school infrastructure, providing computers for education, supporting local healthcare services, and contributing to the development of green belts and recreation parks. These initiatives reflect our commitment to socio-economic development in the surrounding area.

vi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	We have earmarked funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated.
vii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	A copy of EC has been sent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body.
viii)	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Six-monthly compliance reports have been regularly submitted to the concerned department and on the Parivesh portal for the previously obtained environmental clearance. Similarly, for the obtained expansion environmental clearance, these reports will be submitted on the Parivesh portal. The reports will include the status of compliance with the stipulated Environmental Clearance conditions, including the results of monitored data. These submissions will be made to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB, and SPCB. Noted.
ix)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned 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	The Environmental Statement for each financial year ending 31st March in Form-V as is mandated is being submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. **(Annexure-X)**

	of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.	
x)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.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.	Complied with the requirement. Advertisement copy has already been submitted along with the initial compliance report.
xi)	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.	We have already complied.
xii)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.
C	**Additional Conditions**	
S. No	**Environmental Conditions/Safeguards**	**Compliances**
i)	Two stage Scrubbers shall be provided to control process emissions viz. HCl, HBr, Cl2 and SO2. The scrubbing media shall be reclaimed or sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.	We have provided two stage scrubbers with a water-packed bed absorption tower followed by a caustic venturi scrubber to control process emissions viz. HCl, HBr, Cl_2 and SO_2, The scrubbing media is reclaimed or sent to effluent treatment plant (ETP) for treatment and efficiency of scrubber is being monitored regularly and

		maintained properly. At no time, the emission levels shall go beyond the prescribed standards. Copy of test report is enclosed as **Annexure-XV**
ii)	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.	Noted.

ANNEXURE- I
COPY OF ENVIRONMENTAL CLEARANCE GRANTED

File No: J-11011/253/2015-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **15/11/2023**

To,

SHRI. KAMLESHWAR PRASAD UNIYAL
M/s BHARAT RASAYAN LIMITED
2 KM STONE, MADINA MOKHRA ROAD, VILLAGE-MOKHRA, TEHSIL-MAHAM, DISTT. ROHTAK, HARYANA-124022
kpuniyal@bharatgroup.co.in

Subject: **Proposed change in the product mix of the Existing Pesticides unit (production capacity-4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhara Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd. - Consideration of EC-Reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/HR/IND3/440553/2023 dated for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A2002HR5281857N
(ii) File No.	J-11011/253/2015-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(b) Pesticides industry and pesticide specific intermediates (excluding formulations)
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Expansion of Pesticides Technical Manufacturing Unit
(viii) Name of Company/Organization	BHARAT RASAYAN LIMITED BRL
(ix) Location of Project (District, State)	ROHTAK, HARYANA
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the Expert Appraisal Committee (EAC) Industry-III under the provision of EIA notification 2006 and its subsequent amendments.
2. The above-mentioned proposal has been considered by Expert Appraisal Committee (EAC) Industry-III in 64th EAC meeting held on 13th September, 2023. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above or through the following web link https://parivesh.nic.in//utildoc/11562883_1695301455967.pdf.
3. The brief about configuration of products and byproducts as submitted by the Project Proponent in Form-1 (Part A, B and C)/ EIA & EMP Reports / presented during Expert Appraisal Committee (EAC) Industry-III are annexed to this EC as Annexure (1).
4. TheExpert Appraisal Committee (EAC) Industry-III in 64th EAC meeting held on 13th September, 2023 , based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.
5. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the Expert Appraisal Committee hereby accords Environment Clearance to the instant proposal of **M/s Bharat Rasayan Ltd.** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)
6. The Ministry reserves the right to stipulate additional conditions, if found necessary.
7. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
8. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
9. Validity of EC is upto Ten years from the date of issuance of this EC. Validity of EC becomes perpetual subject to the start of production operations by the project or activity on or before the validity period. In case the project proponent fails to start the production operations within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment.
10. General Instructions:

    (a) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.
    (b) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
    (c) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
    (d) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during perational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
    (e) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
    (f) The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data /

information/monitoring reports.

(g) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

11. This issues with the approval of the Competent Authority

Copy To

1. The Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana.
2. Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional, Office, Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh — 160030
3. Additional Chief Secretary, Directorate Environment & Climate Change Haryana, Govt. of Haryana, 2nd Floor, Bays No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana-134117
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District **Rohtak**, Haryana
7. Guard File/Monitoring File/Website/Record File

Annexure 1

Specific EC Conditions for (Pesticides Industry And Pesticide Specific Intermediates (Excluding Formulations))

1. Specific Conditions

S. No	EC Conditions
1.1	1. The PP shall maintain greenbelt over an area of at least 16068.65 m^2 (36.10%). The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 2. A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage VP operations- Environment cell- Health and safety cell- Mnager EHS- dy. Manager EHS- Supervisior- Helper- Medical officer- safety officer- supervisior. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 3. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is 12.77 Crores (Capital cost) and 9.78 Cr per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before &

S. No	EC Conditions
	after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. 4. The total water requirement shall not exceed 318 KLD, out of which, 235 KLD shall be freshwater requirement from ground water source and 83 KLD shall be treated water requirement (50 KLD from ETP & 33 KLD from STP). The PP shall ensure that water supply should not be exceed the permissible limit as mentioned in the letter and fresh water from ground water shall be withdrawn only after obtaining requisite permission from CGWA. The PP shall submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year. 5. Biomass / LPG shall be used as a fuel in the Boiler and TFH. 6. The total trade effluent from the production activities shall increase from 49.61 KLD to 53 KLD which shall be treated in ETP. 53 KLD trade effluent shall be treated in effluent treatment plant of capacity 100 KLD comprising of neutralization, evaporation, biological treatment, filtration, RO plant to achieve 100% treated water reuse in process. Sewage of about 35 KLD shall be sent to the STP and treated water from STP of about 33KLD shall be used for gardening. 'Zero' effluent discharge shall be adopted and no effluent will be discharged outside the premises. 7. No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard. 8. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard. 9. The project proponent shall comply with the environment norms for Pesticide Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 446 (E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986. 10. All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. 11. The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out. 12. The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report. 13. The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection. 14. Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies. 15. 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. 16. The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be

S. No	EC Conditions
	connected with vent condensers with chilled brine circulation. 17. The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

Standard EC Conditions for (Pesticides industry and pesticide specific intermediates (excluding formulations))

1.

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.6	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.
1.7	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom

S. No	EC Conditions
	suggestions/ representations, if any, were received while processing the proposal.
1.8	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
1.9	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned 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 respective Integrated Regional Office of MoEF&CC by e-mail.
1.10	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.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.
1.11	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.
1.12	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

Additional EC Conditions

(i) Two stage Scrubbers shall be provided to control process emissions viz. HCl, HBr, Cl2 and SO2,. The scrubbing media shall be reclaimed or sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.

(ii) PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	Expansion of Pesticides Technical Manufacturing Unit
b.	Latitude and Longitude of the project site	28.90959496385243,76.43079645568805 28.91172068990458,76.43354157980241
c.	Land Requirement (in Ha) of the project or activity	**Nature of Land involved** / **Area in Ha** Non-Forest Land (A) / 44.517 Forest Land (B) / 0 Total Land (A+B) / 44.517
d.	Date of Public Consultation	Public consultation for the project was held on
e.	Rehabilitation and Resettlement (R&R) involvement	NO
f.	Project Cost (in lacs)	5200
g.	EMP Cost (in lacs)	1247
h.	Employment Details	

Details of Products & By-products

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Alphacypermethrin Technical	Product	100	-80	20	Tons per Annum (TPA)	Road
Bifenthrin Technical	Product	120	430	550	Tons per Annum (TPA)	Road
Cypermethrin Technical	Product	350	-330	20	Tons per Annum (TPA)	Road
Fenvalarate Technical	Product	300	200	500	Tons per Annum (TPA)	Road
Fipronil Tech.	Product	100	-50	50	Tons per Annum (TPA)	Road
Lambda Cyhalothrin Tech.	Product	300	250	550	Tons per Annum	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
					(TPA)	
Permethrin Tech.	Product	100	-80	20	Tons per Annum (TPA)	Road
Thaimexotham Tech	Product	300	-300	0	Tons per Annum (TPA)	Road
Diafenthiroun Tech.	Product	150	-150	0	Tons per Annum (TPA)	Road
Fluxametamide	Product	0	100	100	Tons per Annum (TPA)	Road
Quinoxyfen Tech	Product	0	100	100	Tons per Annum (TPA)	Road
Clodinafop Tech.	Product	100	-100	0	Tons per Annum (TPA)	Road
Propanil Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Pyrazosulfuron Tech	Product	20	-20	0	Tons per Annum (TPA)	Road
Imaizethapyre Tech.	Product	25	-25	0	Tons per Annum (TPA)	Road
Safener	Product	30	-30	0	Tons per Annum (TPA)	Road
Tebuconazole Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Difenconazole Tech.	Product	50	-50	0	Tons per Annum (TPA)	Road
Myclobutanil	Product	15	-15	0	Tons per Annum (TPA)	Road
Methaphenoxybenzaldehyde	Product	1800	-500	1300	Tons per Annum (TPA)	Road
Parachlorophenyl Isopropyl Acetic acid	Product	200	0	200	Tons per Annum (TPA)	Road
Parachlorbenzylcyanide	Product	100	0	100	Tons per Annum (TPA)	Road

Name of the product /By-product	Product / By-product	Existing	Proposed	Total	Unit	Mode of Transport / Transmission
Parachlorophenyl Acetic acid	Product	0	20	20	Tons per Annum (TPA)	Road
Meta phenoxy Banzal Acetal	Product	0	130	130	Tons per Annum (TPA)	Road
Pilot plant	Product	0	10	10	Tons per Annum (TPA)	Road
Alum	By-Product	9536.4	-498.16	9038.24	Tons per Annum (TPA)	Road
Pot. chloride	By-Product	5036.5	-471.43	4565.07	Tons per Annum (TPA)	Road
Spent Acid	By-Product	824.95	361.37	1186.3200000000002	Tons per Annum (TPA)	Road
Hydrochloric Acid 28 %	By-Product	2255	-75.6	2179.4	Tons per Annum (TPA)	Road
Sodium Sulphite	By-Product	1402.9	898.15	2301.05	Tons per Annum (TPA)	Road
Potassium Bromide Soln.	By-Product	3726.7	-382.06	3344.64	Tons per Annum (TPA)	Road
Sodium Bromide Soln.	By-Product	758.6	53.7	812.3000000000001	Tons per Annum (TPA)	Road
4-Acetly-2-Methy Benzamide	Product	0	100	100	Tons per Annum (TPA)	Road
3,5-Dichloro-2,2,2-Trifluoro Acetophenone	Product	0	150	150	Tons per Annum (TPA)	Road
Meta bromo Benzaldehyde	Product	0	20	20	Tons per Annum (TPA)	Road

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(IA DIVISION-INDUSTRY-3 SECTOR)
*****

Dated: 21.09.2023

MINUTES OF THE 64th EXPERT APPRAISAL COMMITTEE (INDUSTRY-3 SECTOR) MEETING HELD ON 13th SEPTEMBER, 2023

Venue: Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 through Video Conferencing (VC)

Time: 10:30 AM onwards

(i) Opening Remarks by the Chairman

Prof. (Dr.) A.B. Pandit, Chairman welcomed the Committee members and opened the EAC meeting for further deliberations.

(ii) Details of Agenda items by the Member Secretary

The Member Secretary apprised the Committee about the details of Agenda items to be discussed during this Expert Appraisal Committee (EAC) meeting.

(iii) Confirmation of Minutes of the 63rd EAC Meeting.

The EAC noted that the final minutes of the above meeting were issued after incorporating the comments offered by the members and approved by the Chairman. The EAC confirmed the MoM.

Agenda No. 64.1

Proposed Pesticides Intermediates & Specialty Chemicals manufacturing unit with Production Capacity of 100 MT/Month located at Plot No. C-157, Saykha Industrial Estate, Taluka -Vagra, District -Bharuch, Gujarat by M/s. Niyam Organic - Reconsideration of Environmental Clearance

[Proposal No. IA/GJ/IND3/435715/2023; File No. IA-J-11011/45/2022-IA-II(I)]

1. The proposal is for Environmental Clearance for the Proposed Pesticides Intermediates & Specialty Chemicals manufacturing unit with production capacity of 100 MT/Month located at Plot No. C-157, Saykha Industrial Estate, Taluka -Vagra, District -Bharuch, Gujarat by M/s. Niyam Organic.

specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be fire proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

(xix) The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.

(xx) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

Agenda No. 64.2

Proposed change in the product mix of the Existing Pesticides unit (production capacity-4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhara Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd.- Consideration of Environmental Clearance

[Proposal No. IA/HR/IND3/440553/2023; File No. J-11011/253/2015-IA-II(I)]

1. The proposal is for the grant of Environmental Clearance to the Proposed change in the product mix of the Existing Pesticides unit (production capacity-4260 TPA) and By-Products (23541.05 TPA to 23427.02 TPA) located at Plot Nos. 77, 331, 280/1, 258, 216, 250, 310 & 70 at 2 KM Stone, Madina-Mokhara Road, Village Mokhra, Tehsil Meham, Dist. Rohtak, Haryana by M/s Bharat Rasayan Ltd.

2. The project/activity is covered under Category 'A' of Item 5(b) **Pesticides industry and pesticide specific intermediates,** of Schedule of EIA Notification, 2006 (as amended) as the project is located outside the industrial area.

3. The PP applied for Environment Clearance in Common Application Form under clause 7 (ii) as per OM dated 11th April 2022 and submitted EIA/EMP Report and other documents. The PP reported that it is an **Expansion case**. The proposal is placed in 64th EAC Meeting held on 13th September, 2023 wherein the Project Proponent and an accredited Consultant, M/s. Perfact Enviro Solutions Pvt. Ltd (NABET Accreditation Number - NABET/EIA/2225/RA0284, valid till 21.11.2025], made a detailed presentation on the salient features of the project and informed the following:

4. The PP reported that the existing land area is 44517.65 m^2. No additional land will be required for proposed expansion and no R& R is involved in the Project. The details of products and by–products are as follows:

S. No.	Products	CAS No.	Existing Capacity (TPA)	Proposed Capacity (TPA)	Total after Expansion (TPA)	Transportation on by Road/ Sea
Insecticide						
1	Alphacypermethrin Technical	67375-30-8	100	-80	20	Road
2	Bifenthrin Technical	82657-4-3.	120	430	550	Road
3	Cypermethrin Technical	52315-07-8	350	-330	20	Road
4	Fenvalerate Technical	51630-58-1	300	200	500	Road
5	Fipronil Tech.	120068-37-3	100	-50	50	Road
6	Lambda Cyhalothrin Tech.	91465-08-6	300	250	550	Road
7	Permethrin Tech.	52645-53-1	100	-80	20	Road
8	Thaimexotham Tech	153719-23-4	300	-300	0	Road
9	Thaimexotham Tech	80060-09-9	150	-150	0	Road
10	Fluxametamide	928783-29-3	0	100	100	Road
11	Quinoxyfen Tech	124495-18-7	0	100	100	Road
Herbicide						
12	Clodinafop Tech.	105512-06-9	100	-100	0	Road
13	Propanil Tech.	709-98-8	50	-50	0	Road
14	Pyrazosulfuron Tech	93697-74-6	20	-20	0	Road
15	Imazethapyr Tech.	81335-77-5	25	-25	0	Road

16	Safener	98730-04-2	30	-30	0	Road
Fungicide						
17	Tebuconazole Tech	107534-96-3	50	-50	0	Road
18	Difenoconazole Tech	119446-68-3	50	-50	0	Road
19	Myclobutanil	88671-89-0	15	-15	0	Road
Intermediates						
20	Methaphenoxybenzaldehyde	39515-51-0	1800	-500	1300	Road
21	Parachlorophenol Isopropyl Acetic acid	876-27-7	200	0	200	Road
22	Parachlor Benzyl Cyanide	140-53-4	100	0	100	Road
23	AMBAD	1095275-06-1	0	100	100	Road
24	DECAP	130336-16-2	0	150	150	Road
25	Parachlorophenyl Acetic acid	1878-66-6	0	340	340	Road
26	Metabromo Benzaldehyde	3132-99-8	0	20	20	Road
27	Meta phenoxy Benzyl Acetal	13826-35-2	0	130	130	Road
28	Pilot plant	-	0	10	10	Road
	Total		**4260**	**0**	**4260**	
By -products						
29	Alum	7784-24-9	9536.4	-498.16	9038.24	Road
30	Pot. chloride	7447-40-7	5036.5	-471.43	4565.07	Road
31	Spent Acid	7664-93-9	824.95	361.37	1186.32	Road
32	Hydrochloric Acid 28 %	7647-01-0	2255	-75.60	2179.40	Road
33	Sodium Sulphite	7757-83-7	1402.9	898.15	2301.05	Road
34	Potassium Bromide Soln.	7758-02-3	3726.7	-382.06	3344.64	Road

35	Sodium Bromide Soln.	7647-15-6	758.6	53.70	812.30	Road
	Total		**23541.05**	**-114.03**	**23427.02**	

5. The PP reported that there is no violation case as per the Notification No. S.O.804(E) dated 14.03.2017 and no direction is issued under E(P) Act/Air Act/Water Act.

6. The PP reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, etc. within 10 km distance from the project site. Panoli Lake is at a distance of 1.85 km in S direction from the project site. The PP reported that one Schedule-I species i.e Pavo cristatus (Peafowl) were observed in the 10 km radius from the proposed project for which conservation plan has been prepared and submitted to Deputy Conservator of Forests on 4.9.2023.

7. The PP reported that earlier EC was granted by the Ministry videF.No. IA-J-11011/253/2015-IA-II(I) dated 31st May 2018 with total existing capacity for product -4260.00 TPA & for by product -23541.05 TPA. Later an amendment in EC was granted vide F.No. IA-J-11011/253/2015-IA-II(I) dated 22nd March 2019 for manufacturing of bio pesticides at least @10% of the total production. The project has already been granted Consent to Operate (CTO) Vide letter no. 313100923ROHCTO32981173 by HSPCB dated 10/02/2023 valid upto 30/09/2025.

8. The PP has obtained CCR to the existing EC from IRO Chandigarh vide letter dated 13.6.2023. Action taken report for the partially complied conditions has been submitted vide letter dated 23.6.2023.

9. The PP reported that **Ambient air quality** results for primary pollutants and specific pollutants as under show that the quality of air in the study area conforms to the NAAQS, 2009 except in case of PM_{10} and $PM_{2.5}$ due to anthropogenic activities like farming, lack of surviving trees in the buffer zone and nearby roads. Core Zone:- PM_{10} ranges from 69.76 µg/m^3 to 123.71 µg/m^3, $PM_{2.5}$ ranges from 38.95 µg/m^3 to 63.99 µg/m^3, SO_2 ranges from 6.66 µg/ m^3 to 11.07 µg/ m^3, NOx ranges from 19.45 µg/ m^3 to 31.5 µg/ m^3, CO ranges from 0.45 mg/ m^3 to 0.69 mg/m^3, VOC ranges from 0.45 mg/m^3 to 1.95 mg/m^3, THC ranges from 2.89 mg/ m^3 to 4.42 mg/ m^3. Buffer Zone: - PM_{10} ranges from 71.86 µg/ m^3 to 143.55 µg/m^3, $PM_{2.5}$ ranges from 65.91 µg/ m^3 to 78.71 µg/ m^3, SO_2 ranges from 7.26 µg/ m^3 to 13.58 µg/ m^3, NOx ranges from 20.03 µg/m^3 to 36.55 µg/m^3, CO ranges from 0.44 mg/m^3 to 0.80 mg/m^3, VOC ranges from 1.31 mg/m^3 to 2.08 mg/m^3, THC ranges from 3.15 mg/m^3 to 5.44 mg/m^3. **Noise** - Noise Monitoring was carried out at 8 locations and the results showed that core zone Leq values ranged from 62.6 dB(A) to 63.4 dB(B) for the day time and 56.7 dB(A) to 57.6 dB(A) for the Night time. Whereas, Buffer Zone: 53.7 dB(A) to 69.7 dB(A) for the day time and 44.2 dB(A) to 60.2 dB(A). for the Night time. It may be concluded that ambient noise level during day time at the proposed project site varies from 62.6 dB (A) to 63.4 dB (A) which are within the day time standard limit of Industrial area ~ 75 dB (A). During night the noise level at the project site ranges from 56.7 dB (A) to 57.6 dB (A) which are within

the night time standard limit of Industrial area 70.0 dB (A) and in Buffer zone is slightly higher than the limit due to residential activity and vehicular activity.

10. **Ground water -** Ground water Quality Monitoring was carried out at 8 locations; **Core Zone data shows that** all the parameters (Color, odor,Turbidity, pH Value, Temperature, Conductivity, TDS, Chloride, Fluoride, Total Hardness, Ca, Mg, SO_4, Na, K, TSS, Alkalinity, Nitrate Nitrogen are within the drinking water standards and quality in buffer zone shows range of primary characteristics as pH: 6.7-7.8, Total Hardness: 232- 440 mg/l, Chlorides: 83.97-656 mg/l, TDS: 496-2272 mg/l. Surface water Quality Monitoring was carried out at 5 locations and **Buffer Zone: pH:** 7.3-7.7 **; DO:** 4.2-5.6 **mg/l and BOD:** 6.4-25.9 **mg/l, COD:** 24-112 **mg/l. Surface water**- The Surface water quality of the surface water sampling locations Mokhra Pond, Lakhan Majra, Meham drain, Podn Near Bahu Akbarpur, Pond near Madina are meeting the criteria defined by class "C" as per CPCB water quality criteria for designated best use. Whereas, the Surface water quality of the surface water sampling locations Mokhra Pond 1.91 km S and Meham Drain 3.57 km ESE are meeting the criteria defined by class "C" i.e. Drinking water sources after conventional treatment and disinfection as per CPCB water quality criteria for designated best use. **Soil Quality Monitoring** was carried out at 7 locations and the analysis showed that Core Zone samples had Texture- [Sand% (4.0), Silt % (21.2), Clay % (74.7)], Organic Matter-1.2 %, Available Nitrogen (mg/kg)- 105.0, Available Potassium (mg/kg)- 47.9, Available Phosphorus (mg/kg)- 18.2. Whereas, the Buffer Zone: Texture- [Sand% (2.8-6.0), Silt % (43.5-50.6), Clay % (46.1-54.0)], Organic Matter-0.3-0.9 %, Available Nitrogen (mg/kg)- 81.2-267.4, Available Potassium (mg/kg)- 29.8-234.6, Available Phosphorus (mg/kg)- 10.6-24.2.

11. The PP reported that there is no change in the total/ freshwater requirement due to the proposed product mix change. The total water requirement is 318 KLD, out of which, 235 KLD is freshwater requirement and 83 KLD is treated water requirement (50 KLD from ETP & 33 KLD from STP). Out of 235 KLD fresh water, 100 KLD will be used for WTP wherein the rejects of 40 KLD will be used for Process water requirement and permeate of 60 KLD shall be used for boiler makeup water requirement. 35 KLD of freshwater shall be used for domestic requirements, 33 KLD for cooling tower, 30 KLD for Process/ Washing and 37 KLD for gardening purposes. Treated water from STP of about 33KLD shall also be used in gardening purpose i.e. total 70 KLD for gardening and green area maintenance. Process water of about 39 KLD shall be consumed in the production of byproducts like Potassium Chloride, Sodium sulphite, Alum and Spent acid. The total trade effluent from the production activities shall increase from 49.61 KLD to 53 KLD which shall be treated in ETP. Sewage water from domestic activities of about 35 KLD shall be sent to the STP. 53 KLD trade effluent shall be treated in effluent treatment plant of capacity 100 KLD comprising of neutralization, evaporation, biological treatment, filtration, RO plant to achieve 100% treated water reuse in process.

12. The Power requirement shall increase from 1760 kVA to 2200 kVA which will be sourced from Uttar Haryana Bijli Vitran Nigam Limited (UHBVNL). DG sets complying to CPCB IV+ shall be installed 3no.s x 750 kVA with acoustic enclosures in place of 1x 1250 kVA

and 1x275 kVA in compliance with rules in NCR region, these shall be operated only as standby during power failure with stack height of 30 m.

13. **Details of Process Emissions Generation and their Management:**

Emission from Utilities							
Stack No.	**Existing**	**Proposed**	**After Proposed product mix change**	**APCS (With media applicable)**	**Stack geometry and fuel Gas characteristics**		
					Height of Stack (m)	**Stack Dia (m)**	**Pollutant and its emissions standard**
1	Boiler 8 TPH & 5 TPH	0	Boiler 8 TPH & 5 TPH	Multi-Cyclone Separator with ESP	30 30	1.0 0.75	PM- 150 mg/Nm^3 SO_2- 100 mg/Nm^3 NO_X- 50 mg/Nm^3
2	TFH (2 x 2 Lac KCal/Hr and 1 x 6 Lac Kcal/hr)	0	TFH (2 x 2 Lac KCal/Hr and 1 x 6 Lac Kcal/hr)	Bag Filter	30	0.75	PM- 150 mg/Nm^3 SO_2- 100 mg/Nm^3 NO_X- 50 mg/Nm^3
3	DG Set- 1x 1250,kVA 1x 275 kVA	3 x 750 kVA (CPCB IV+)	3 x 750 kVA (old shall be discarded)	-	30	1.0	PM- 150 mg/Nm^3 SO_2- 100 mg/Nm^3 NO_X- 50 mg/Nm^3

Note- Biomass / LPG shall be used as a fuel in the Boiler and TFH.

Stack Name	**Stack Attached to**	**Diameter (cm)**	**Height of stack from ground (m)**	**Velocity (m/s)**	**Type of Emission**	**APCS (with media if applicable)**	**Specifications**
Process Vent – I	MPB product	6.3	17	1.73	HCl	HCl Scrubber	Scrubber I- Two stage water packed bed absorption tower followed by caustic venturi scrubber.
Process Vent – II	MPB product	6.3	17	2.6	HBr	HBr Scrubber	

Process Vent - III	Fenvalarate	6.3	17	1.69	Cl_2	Cl_2 Scrubber	Scrubber II - Two stage water packed bed absorption tower followed by caustic venturi scrubber
Process Vent - IV	Lamda Cyalo.	6.3	17	3.03	SO_2	SO_2 Scrubber	Scrubber III - Two stage bed absorption tower (HCl and Water) followed by caustic venturi scrubber

14. **Details of Solid Waste/Hazardous Waste Generation and its Management.**

Category	Type of Waste	Unit	Existing	Proposed	Total after expansion	Disposal / Management
Biodegradable	Organic Waste	TPA	15.00	832.00	847.00	Will be sent to authorized vendor/ onsite composting
Non-Biodegradable	Recyclable Waste (paper, wood, glass, Office paper waste ,etc)	TPA	10.00	555.00	565.00	Will be sent to approved recyclers
	Total	**TPA**	**25.00**	**1387**	**1412.00**	

Hazardous Waste

S.No.	Waste	Category (as per HWM Rules,2016)	Unit	(Existing)	(Proposed)	(Total After PMC in TPA)	Disposal
				Quantity of generation	Quantity of generation	Quantity of generation	

1	Sludge containing calcium sulfate sodium chloride, Lime sodium sulphite, and Potassium chloride etc	35.3	TPA	1,630.00	+63.9	1,693.9	CHWTSDF
2	ATFD sludge from ETP + Sodium Sulphite Bi product	35.3	TPA	448.86	+308.71	757.57	CHWTSDF
3	ATFD sludge from ETP + Potassium Chloride Bi product	35.3	TPA	1437.6	-444.1	993.50	CHWTSDF
4	Process Waste or residue (Mainly polymerized organic chemical	29.1	TPA	523.00	-2	521.00	CHWTSDF
5	Date-expired and off-specification pesticides	29.3	TPA	0	10	10	CHWTSDF/Coprocess site
6	Spent solvents	29.4	TPA	0	100	100	CHWTSDF
7	Spent catalysts	29.5	TPA	0	20	20	Sell to Authorised recycler
8	Spent acids	29.6	TPA	0	330	330	Sale as By-Product/

							CHWTSDF
9	Cotton contaminated with organic chemical	33.2	TPA	2.00	0	2.00	CHWTSDF
10	Activated Carbon	36.2	TPA	3.00	0.00	3.00	CHWTSDF
11	Used Oil	5.1	TPA	2.50	0.00	2.50	Recycler
12	HPDE and Ms drums	33.1	TPA	220.00	0.5	220.5	Recycler
13	Inert Insulation Material	29.1	TPA	4.00	0.2	4.20	CHWTSDF

Non Hazardous Waste (Process)

Type of waste	Unit	Existing	Proposed	Total after expansion	Treatment / Disposal
Boiler Ash	MT/year	500	700	1200	CHWTSDF

15. The Budget earmarked towards the Environmental Management Plan (EMP) is Rs**. 12.77** Crores (Capital) and recurring cost Rs**. 9.78 Crore per annum** towards Environment Management plan. Industry will propose **Rs. 50 Lakhs** towards CER cost after expansion for school renovation, park development within the next 5 years

16. Green belt/greenery has been developed over an area of 16068.65 m^2 (36.10%) which will remain unchanged under this proposal. A total No. of 6233 trees comprising of *Eucalyptus Hybrida, Holoptelea integrifolia, Azadirachta indica, Ficus religiosa, Ficus benghalensis etc*. has been already developed. This green area also complies with the requirement of minimum 2500 tree/ ha of green area.

17. The PP proposed to set up an Environment Management Cell (EMC) to engage Director- VP operations- Environment cell- Health and safety cell- Mnager EHS- dy. Manager EHS- Supervisior- Helper- Medical officer- safety officer- supervisior- Helper for the functioning of EMC.

18. The PP reported that the Public Hearing is exempted as per OM F. No-IA3-22/10/2022-IA-III [E 177258] dated 11th April 2022, as the proposed expansion is under 7(ii)a clause.

19. The PP reported that the Carbon footprint (Climate Change Potential) is the single biggest contributor to the Total Impact associated with the project, and hence it needs to be reduced to reach the optimised scenario. During the peak operations, the total CO_2 emissions will be 5094 MT eq. CO_2 /annum which is equivalent to 1.20 MT CO_2 eq / MT Production.Through

development of a green belt having 5000 trees, there will be natural sequestration of CO_2 emissions which leads to savings of 10,138 2 MT eq. CO_2 /annum.

20. The PP submitted the Onsite and Offsite disaster management plan in their EIA report.

21. The estimated project cost is **Rs.50 Crores** and the estimated project cost after expansion is **INR 52** Crores and the proposed expansion shall not require additional investment because this is only a change in product mix cum expansion without change in any plant and machinery etc. After expansion 145 additional manpower shall be employed across the different skill sets, hence after the change in product mix the total no of manpower is expected to be **650** Nos**.**

22. **Deliberations by the EAC**

The EAC, constituted under the provisions of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given an undertaking with the effect that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

It was informed to the EAC that the para 7(ii) of the EIA Notification, 2006, inter-alia, mentions that *all applications seeking prior environmental clearance for expansion with increase in the production capacity beyond the capacity for which prior environmental clearance has been granted under this notification or with increase in either lease area or production capacity in the case of mining projects or for the modernisation of an existing unit with increase in the total production capacity beyond the threshold limit prescribed in the Schedule to this notification through change in process and or technology or involving a change in the product –mix shall be made in Form I and they shall be considered by the concerned Expert Appraisal Committee or State Level Expert Appraisal Committee within sixty days, who will decide on the due diligence necessary including preparation of Environment Impact Assessment and public consultations and the application shall be appraised accordingly for grant of environmental clearance.*

The EAC deliberated on the proposal of PP and accepted the request to consider the proposal under para 7 (ii) of the EIA Notification, 2006 under change of product mix as the capacity remains unchanged for proposed product and reduces for by-product and there is no requirement for obtaining fresh TOR etc. The project proponent has prepared the Environmental Impact Assessment Report for the proposed change of product mix. The

Committee deliberated on the report and the pollution mitigation measures considered for the proposed project.

The EAC inter-alia, deliberated on the Greenbelt development plan, Certified compliance report and its action taken report and EAC found these to be satisfactory.

The EAC deliberated the Onsite and Offsite Emergency plans and various mitigation measures to be proposed during implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Expert Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

The EAC is of the view that recommendation of EAC and grant of environmental clearance by regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

23. The EAC, after detailed deliberations, **recommended the project for the grant of environmental clearance, subject to the compliance of the terms and conditions as under, and general terms and conditions in Annexure-I**: -

i) The PP shall maintain greenbelt over an area of at least 16068.65 m^2 (36.10%). The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.

ii) A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. PP shall engage VP operations- Environment cell- Health and safety cell- Mnager EHS- dy. Manager EHS- Supervisior- Helper- Medical officer- safety officer-supervisior. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually

submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.

iii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is ₹ 12.77 Crores (Capital cost) and ₹ 9.78 Cr per annum (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.

iv) The total water requirement shall not exceed 318 KLD, out of which, 235 KLD shall be freshwater requirement and 83 KLD shall be treated water requirement (50 KLD from ETP & 33 KLD from STP). The PP shall ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawn only after obtaining requisite permission from Concerned Authority. The PP shall submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.

v) Biomass / LPG shall be used as a fuel in the Boiler and TFH.

vi) The total trade effluent from the production activities shall increase from 49.61 KLD to 53 KLD which shall be treated in ETP. 53 KLD trade effluent shall be treated in effluent treatment plant of capacity 100 KLD comprising of neutralization, evaporation, biological treatment, filtration, RO plant to achieve 100% treated water reuse in process. Sewage of about 35 KLD shall be sent to the STP and treated water from STP of about 33KLD shall be used for gardening.

vii) No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.

viii) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.

ix) The project proponent shall comply with the environment norms for 'synthetic organic chemicals' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608 (E), dated 21st July, 2010 under the provisions of the Environment (Protection) Rules, 1986.

x) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.

xi) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.

xii) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.

xiii) The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

xiv) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.

xv) 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.

xvi) The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.

xvii) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

Agenda No.64.3

Manufacturing of technical grade pesticides in existing premises (Non EC- chemicals unit) with the production capacity of 10500 MTPA located at Khasra No.

Annexure-III

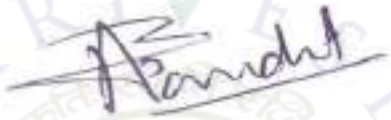
List of the Expert Appraisal Committee (Industry-3) members participated during Video Conferencing (VC) meeting

S. No.	Name of Member	Designation
1.	**Prof. (Dr.) A.B. Pandit** Vice Chancellor, Institute of Chemical Technology, Mumbai, Sir JC Bose Fellow, Government of India Email: ab.pandit@ictmumbai.edu.in	Chairman
2.	**Prof. (Dr.) S. N. Upadhyay** Research Professor (Hon.), Department of Chemical Engineering & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi E-mail: snupadhyay.che@iitbhu.ac.in	Member
3.	**Dr. Ashok Kumar Saxena, IFS** Bunglow No. 38, Sector-8A, Gandhinagar, Gujarat – 382008 E-mail: ashoksaxena1159@gmail.com	Member
4.	**Dr. Suresh Panwar** House No.4, Gayateri Green Society, NH 58 Bypass,Kankerkhera, Meerut, Uttar Pradesh Email-spcppri@gmail.com	Member
5.	**Shri Tukaram M Karne** "SHREYAS ORNATE" F-1, 95-Tulasibagwale Colony, Sahakarnagar-2, PUNE: 411 009, Maharashtra E-mail: tmkarne@gmail.com	Member
6.	**Shri Dinabandhu Gouda** Additional Director, DH IPC-I, Room No. 309A, Third Floor, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 110032 E-mail: dinabandhu.cpcb@nic.in	Member
7.	**Shri Sanjay Bisht** Scientist 'E', Room No. 517, Office of the Director General of Meteorology, Indian Meteorological Department, Musam Bhawan, Lodhi Road, New Delhi -110003 E-mail: sanjay.bist@imd.gov.in	Member

8.	**Dr. M. Ramesh** Scientist 'E' Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Room No. V-203, Vayu Wing, Jor Bagh Road, New Delhi-110003 Tel. 011-20819338 E-mail: ramesh.motipalli@nic.in	Member Secretary

***

MOM approved by



(Prof. Aniruddha B. Pandit)
Chairman

***

ANNEXURE- II
COPY OF CONSENT TO ESTABLISH

HARYANA STATE POLLUTION CONTROL BOARD

SCF No. 42 & 43, Shopping Centre,Sector-6, Huda, Bahadurgarh Ph. 01276-243077 (O) Email:- hspcbrobdh@gmail.com

Website: www.hrocmms.nic.in E-Mail - hspcbho@gmail.com

Telephone No.: 0172-2577870-73

No. HSPCB/Consent/ : 313100923ROHCTE31330011 **Dated:17/01/2023**

To.

M/s : BHARAT RASAYAN LIMITED
2KM STONE, MADINA MOKHRA ROAD, VILLAGE MOKHRA,
ROHTAK
124022

Sub. : Grant of consent to Establish to M/s BHARAT RASAYAN LIMITED

Please refer to your application no. 31330011 received on dated 2022-12-15 in regional office Bahadurgarh.

With reference to your above application for consent to establish,M/s BHARAT RASAYAN LIMITED is here by granted consent as per following specification/Terms and conditions.

Consent Under	AIR/WATER
Period of consent	17/01/2023 - 16/01/2028
Industry Type	Pesticides (technical) (excluding formulation)
Category	RED
Investment(In Lakh)	91.0
Total Land Area (Sq. meter)	44517.0
Total Builtup Area (Sq. meter)	16893.0
Quantity of effluent	
1. Trade	49.61 KL/Day
2. Domestic	35.0 KL/Day
Number of outlets	2.0
Mode of discharge	
1. Domestic	reuse/recycling
2. Trade	reuse/recycling
Permissible Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. OG	10 mgl
5. amonical nitrogen	50 mgl
Permissible Trade Effluent Parameters	

1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. OG	10 mgl
Number of stacks	1
Height of stack	
1. stack to boier 5 T	30 mtr
Permissible Emission parameters	
1. NOX	50 mg/m3
2. SOX	50 mg/m3
3. SPM	80 mg/m3
Capacity of boiler	
1. Boiler	5 Ton/hr
Type of Furnace	
1. na	0 0
Type of Fuel	
1. LPG	5.5 TPD

Regional Officer, Bahadurgarh

Haryana State Pollution Control Board.

Terms and conditions

1. The industry has declared that the quantity of effluent shall be 84.61 KL/Day i.e 49.61KL/Day for Trade Effluent, 0 KL/Day for Cooling, 35 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.

3. 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.

11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.

12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.

13. 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.

14. 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.

16. 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.

18. 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-leachate 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 :

1. Unit will comply the conditions mentioned in the letter dated 25-10-2019 of CPCB regarding mechanism for Environmental management in compliance of Hon'ble NGT order dated 23-08-2019 in the matter of O.A. No. 1038/2018.
2. The unit will comply with the Directions dated 27-11-2020 issued by CPCB regarding to allow only those new industrial units in NCR-Delhi, which are using cleaner fuels, namely, natural gas (PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc.
3. The unit will install online monitoring devices for effluent, air emission for consent parameters and connect the same with HSPCB and CPCB servers
4. The unit will also provide online monitoring devices for Gas leakage monitoring and compliance- VOC, Ammonia or other gases which are present in their production area along with ambient air monitoring parameters - PM10/2.5 , SO2, NOx , CO and provide the details on main gate area on the display panel.

Regional Officer, Bahadurgarh
Haryana State Pollution Control Board.

ANNEXURE – III
COPY OF CONSENT TO OPERATE

HARYANA STATE POLLUTION CONTROL BOARD

Regional Office, Haryana State Pollution Control Board Rohtak, SCO No. A-6, A-7 and A-8, First Floor, Sector- 36, Suncity Commercial Complex, Rohtak-124001".Email:- hspcbroroh@gmail.com

E-mail: hspcb@hry.nic.in

No. HSPCB/Consent/ : 313100924ROHCTO48518049 **Dated:22/02/2024**

To.

M/s :BHARAT RASAYAN LIMITED
2KM STONE, MADINA MOKHRA ROAD, VILLAGE MOKHRA,

Subject: Grant of consent to operate to M/s BHARAT RASAYAN LIMITED.

Please refer to your application no. 48518049 received on dated 2024-02-09 in regional office Rohtak.With reference to your above application for consent to operate,M/s BHARAT RASAYAN LIMITED is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	22/02/2024 - 30/09/2025
Industry Type	Pesticides (technical) (excluding formulation)
Category	RED
Investment(In Lakh)	5602.7212
Total Land Area(Sq. meter)	44517.0
Total Builtup Area(Sq. meter)	16893.0
Quantity of effluent	
1. Trade	53.0 KL/Day
2. Domestic	35.0 KL/Day
Number of outlets	2.0
Mode of discharge	
1. Domestic	Gardening/horticulture/flushing
2. Trade	recycle/reuse in cooling tower/scrubber/process
Domestic Effluent Parameters	
1. BOD	10 mg/l
2. COD	50 mg/l
3. TSS	20 mg/l
4. Oil & Grease	10 mg/l
5. faecal coliform	100 less than
6. pH	5.5 to 9.0
Trade Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l

3. TSS	100 mg/l
4. Oil & Grease	10 mg/l
5. pH	5.5-9.0
Number of stacks	7
Height of stack	
1. Boiler 8 Ton	30 Meters
2. Boiler 5 Ton and 1 Nos TFH 6 LKCAL and 2 Nos TFH 2 LKCal	30 Meters
3. DG Sets 3 Nos 750 KVA Each	30 Meters
4. Process Vent 1 Product MPB for HCl	17 Meters
5. Process Vent 2 Product MPB for HBr	17 Meters
6. Process Vent 3 Product Fenvalerate Tech for CL2	17 Meters
7. Process Vent 4 Product Lamda Cyhalothrin Tech for SO2	17 Meters
Emission parameters	
1. SPM	80 mg/m3
2. SOX	50 mg/m3
3. NOX	50 mg/m3
Product Details	
1. Alphacypermethrin Technical	0.0606 Metric Tonnes/day
2. Bifenthrin Technical	1.6667 Metric Tonnes/day
3. Cypermethrin Technical	0.0606 Metric Tonnes/day
4. Fenvalerate Technical	1.5152 Metric Tonnes/day
5. Fipronil Technical	0.1515 Metric Tonnes/day
6. Lambda Cyhalothrin Technical	1.6667 Metric Tonnes/day
7. Permethrin Technical	0.0606 Metric Tonnes/day
8. Methaphenoxy Benzaldehyde	3.9394 Metric Tonnes/day
9. Parachlorophenyl Isopropyl Acetic acid	0.6061 Metric Tonnes/day
10. Parachlor Benzyl Cyanide	0.3030 Metric Tonnes/day
11. Fluxametamide	0.3030 Metric Tonnes/day
12. Quinoxyfen Technical	0.3030 Metric Tonnes/day
13. AMBAD	0.3030 Metric Tonnes/day
14. Metabromo Benzaldehyde	0.0606 Metric Tonnes/day
15. DECAP	0.4545 Metric Tonnes/day

16. Parachlorophenyl Acetic acid	1.0303 Metric Tonnes/day
17. Meta phenoxy Banzal Acetal	0.3939 Metric Tonnes/day
18. Pilot Plant	0.0303 Metric Tonnes/day
19. Pesticide Formulation EC, WP, SL etc.	12.000 Metric Tonnes/day
20. Biopesitcide Formulation	3.2000 Metric Tonnes/day
21. Alum Solution - By Product	27.389 Metric Tonnes/day
22. Potassium Chloride - By Product	13.834 Metric Tonnes/day
23. Spent Acid - By Product	3.595 Metric Tonnes/day
24. Hydrochloric Acid 28 Per - By Product	6.604 Metric Tonnes/day
25. Sodium Sulphite - By Product	6.973 Metric Tonnes/day
26. Potassium Bromide Solution - By Product	10.135 Metric Tonnes/day
27. Sodium Bromide Solution - By Product	2.462 Metric Tonnes/day
Capacity of boiler	
1. Boiler 5 Ton LPG	5 Ton/hr
2. Boiler 8 Ton Biomass	8 Ton/hr
3. 1 no. Thermopack Biomass (6 Lakh Kcal/hr.)	600000 Kcalores/hr
4. 2 no. Thermopack LPG (2 Lakh Kcal/hr.)	200000 Kcalores/hr
Type of Furnace	
1. NA	0
Type of Fuel	
1. Diesel	0.9 KL/day
2. Biomass	45 Ton/day
3. LPG	6 Ton/Day
Raw Material Details	
3,4 dichloroaniline	0.2527 Metric Tonnes/Day
5 amino 3cyno 1(2,6 dichloro 4 trifluro methyl pehny) 1H Pyrazole	0.141 Metric Tonnes/Day
Ammonia (Ssolution 20 Per)	0.0045 Metric Tonnes/Day
Bifenthrin Alcohol	0.85 Metric Tonnes/Day
Bromine	0.506 Metric Tonnes/Day
Cypermethrin acid chloride	0.072 Metric Tonnes/Day
Cuprous chloride	0.013 Metric Tonnes/Day

Methanol	0.057 Metric Tonnes/Day
Acetic Acid	0.283 Metric Tonnes/Day
Benzaldehyde	3.05 Metric Tonnes/Day
Azobis Isobutyronitrile	0.011 Metric Tonnes/Day
Lamda Powder (seeding)	0.033 Metric Tonnes/Day
4 dimetyl amino Pyridine	0.013 Metric Tonnes/Day
Caustic Soda Flakes	0.695 Metric Tonnes/Day
Aluminium Chloride	5.55 Metric Tonnes/Day
Caustic Lye (47 Per)	4.027 Metric Tonnes/Day
Chlorine	3.73 Metric Tonnes/Day
Dimethyl Formamide (DMF)	0.015 Metric Tonnes/Day
Ethylene Dichloride (EDC)	0.431 Metric Tonnes/Day
Hexane	0.278 Metric Tonnes/Day
Hydrochloric Acid (30 Per)	4.94 Metric Tonnes/Day
Lamda cyhalothric Acid	1.042 Metric Tonnes/Day
Isopropyl Alcohol	0.077 Metric Tonnes/Day
Isopropyl Bromide	0.899 Metric Tonnes/Day
Metaphenoxy Benzaldehyde	1.605 Metric Tonnes/Day
Metaphenoxy Benzalalcohol	0.032 Metric Tonnes/Day
Monoethyl glycol	0.213 Metric Tonnes/Day
Parachloro Toulene	2.32 Metric Tonnes/Day
Paratolune sulphonic Acid (PTSA)	0.0067 Metric Tonnes/Day
Phenol	2.352 Metric Tonnes/Day
Potassium Hydroxide (KOH)	1.813 Metric Tonnes/Day
Sulphuric acid (70 Per) wash	0.076 Metric Tonnes/Day
Thionyl chloride	1.212 Metric Tonnes/Day
Soad Ash	0.589 Metric Tonnes/Day
Sodium bicarbonate (NaHCO3)	0.038 Metric Tonnes/Day
Sodium hypochlorite	0.735 Metric Tonnes/Day
Sulphuric Acid	3.434 Metric Tonnes/Day
Triethylamine (TEA)	0.045 Metric Tonnes/Day
Lambda cyhalothric acid chloride	1.15 Metric Tonnes/Day
Hydroxyl amine hydrochloride	0.065 Metric Tonnes/Day
N, N dimethyl formamide dimethyl acetal	0.119 Metric Tonnes/Day

2 Fluorotoluene	0.41 Metric Tonnes/Day
Sodium nitrite	0.275 Metric Tonnes/Day
Diethyl ethoxymethylene melonate	0.356 Metric Tonnes/Day
Tetrabutyl ammonium bromide	0.196 Metric Tonnes/Day
Sodium sulphite	0.03 Metric Tonnes/Day
Cyclohexane, Butanol, Epichlorohydrin, xylene (For Formulation)	1.00 Metric Tonnes/Day
Sodium Thiosulfate	0.0598 Metric Tonnes/Day
Sodium Cyanide	1.423 Metric Tonnes/Day
Di isopropyl amine	0.017 Metric Tonnes/Day
Toluene	0.487 Metric Tonnes/Day
Cypermethrin Technical	0.065 Metric Tonnes/Day
Triethyl benzyl Ammonium Chloride	0.028 Metric Tonnes/Day
Hydrogen peroxide 50 (Per)	0.49 Metric Tonnes/Day
Dimethyl sulfoxide	0.025 Metric Tonnes/Day
1 (3,5 dichlorophenyl) 2,2,2 trifluoroethane 1 one (DCAP)	0.197 Metric Tonnes/Day
4 Acetyl 2 methyl benzamide (AMBD)	0.14 Metric Tonnes/Day
Tetrabutyl ammonium hydroxide	0.006 Metric Tonnes/Day
1,1,3,3 Tetramethyl guanidine	0.134 Metric Tonnes/Day
1,8 diazabicyclo (5,4,0) undec 7 ene	0.041 Metric Tonnes/Day
Methoxy amine hydrochloride	0.083 Metric Tonnes/Day
Acetyl chloride	0.292 Metric Tonnes/Day
1,1 Ethanediol,1 (2 amino,5 chlorophenyl) 2 , 2 , 2 trifluorohydrochloride	0.595 Metric Tonnes/Day
Sulfuryl chloride	0.348 Metric Tonnes/Day
Hypophosphorous Acid (50 Per	0.727 Metric Tonnes/Day
Tetraglyme	0.055 Metric Tonnes/Day
Sulpholane	0.061 Metric Tonnes/Day
4 Fluoro phenol	0.121 Metric Tonnes/Day
EMULSIFIER (For Formulation)	1.10 Metric Tonnes/Day
C 9 (Solvent) (For Formulation)	10.00 Metric Tonnes/Day
Trimethyl amine hydrochloride	0.029 Metric Tonnes/Day

Triflormethane sulfinyl chloride	0.0745 Metric Tonnes/Day
Formic Acid	0.107 Metric Tonnes/Day

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

13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

1. The unit will comply the conditions mentioned in letter dated 25-10-2019 of CPCB regarding mechanism for Environmental management in compliance of Hon'ble NGT order dt. 23-08-2019 in the matter of O.A. No. 1038/2018. 2. The unit will comply with the Directions dt. 27-11-2020 issued by CPCB regarding to allow only those new industrial units in NCR-Delhi, which are using cleaner fuels, namely, natural gas(PNG/CNG), liquefied petroleum gas, bio-gas, propane, butane etc. 3. The unit will obtain EC as per policy as and when applicable. 4. The unit will use treated effluent only in reuse or horticulture & will obtain CTE expansion if unit will increase effluent quantity. 6. The unit will follow all the guidelines/norms issued from time to time by SPCB/CPCB/NGT/EPCA/CAQM.

Regional Officer, Rohtak
Haryana State Pollution Control Board.

ANNEXURE – IV
COPY OF WORKERS HEALTH SURVEILLANCE

EMP. CODE: 394

FORM XXII

(See Rule 37)

REGISTER OF PERSONS ENGAGED IN CONNECTION WITH INSECTICIDES AND THEIR PERIODICAL MEDICAL EXAMINATION FOR THE YEAR JUNE' 2024

Name MAHABIR PARSAD Age 1/18/1974 Yrs Sex M. DOJ 5/25/2009

F/Name SH.DHARM PAL Occupation MEDICAL OFFICER

Address UTTAM VIHAR, ROHTAK

Identification Mark ROUND MARK ON LT OF FACE

Details of use Personnel Protective Equipments:

(a) Protective clothing/overall: (b) Helmet/hood/hat: (c) Dust proof goggles:

(d) Rubber gloves impermeable to liquids: (e) Respiratory devices(s) (f) Boots:

MEDICAL EXAMINATION:

PAST HISTORY

Illness	Poisoning	Allergy	Exposure to pesticides (compound)	No.of years/seasons and days of exposure per year	Remarks, if any
(1)	(2)	(3)	(4)	(5)	(6)
NO	NO	NO	NO	N/A	

FAMILY HISTORY:

Allergy	Psychological disorders	Hemorrhagic disorder
(1) NO	(2) NO	(3) NO
Infertility/Sterlity	Birth defects	Cancer
(4) NO	(5) NO	(6) NO

PERSONAL HISTORY:

Smoking	Alcohol	Other addiction
(1) NO	(2) Yes, Rarely	(3) NO
Marital Status	Nos. of Children-Health status of children & any birth defect, if any	Any other health related complaint
(4) married	(5) two, Healthy	(6) NO

OBSERVATIONS:

Medical Examination	Pre-Employment examination	End 1st quarter i.e. after 3 months	After 2nd quarter after 6 months	After 3rd quarter 9 months	End of year	Remarks
Yes	Yes	Yes	Yes	Yes	Yes	

1. General Examination

(a) Height — 166 cm
(b) Weight — 69 kg
(c) Pulse rate — 72/min
(d) Blood pressure — 122/76
(e) Respiration — 18/min
(f) Anemia/Pallor]
(g) Oedema] — NO
(h) Jaundice]
(i) Skin condition]
(j) Temperature] — Normal
(k) Fatigability — NO
(l) Sweating]
(m) Sleep] — Normal
(n) Urination]

1. Gastro Intestinal

(a) Nausea]
(b) Vomiting] — NO
(c) Appetite]
(d) Taste] — Normal
(e) Pain in abdomen — NO
(f) Bowel movement — Normal
(g) Liver]
(h) Spleen] — Not Palpable

2. Cardio-respiratory

(a) Nasal Discharge]
(b) Wheeze]
(c) Cough]
(d) Expectoration] — NO
(e) Tightness of chest]
(f) Dyspnoea]
(g) Palpitation] — NO
(h) Heart — S1S2 Normal
(i) Cyanosis
(j) Tachycardia/Bradycardia] — NO

3. Neuro-muscular

(a) Headache]
(b) Dizziness]
(c) Irritability]
(d) Twitching]
(e) Tremors] — NO
(f) Convulsions]
(g) Paranesthesia]
(h) Hallucinations]
(i) Unconsciousness — NO
(j) Superficial reflexes]
(k) Deep reflexes] — Normal
(l) Coordination]

4. **Eye**

(a) Pupil
(b) Lachrymation] - Normal
(c) Double vision
(d) Blurred vision] - NO

5. **Psychological**

(a) Temperament
(b) Judgment] - Normal
(c) Nervousness - NO

6. **Kidney**

Kidney Condition - Normal

7. **Investigation**

(a) Complete Haemogram: (Hb, TRBC,TLC,DLC, Platelet, Reticulacytes count, ESR)
(b) Liver Function Tests: (Serum Bilirubin, SAP, SGOT, SGPT, Cholesterol, Total Protein and serum albumin)
(c) Kidney Function Tests: (Blood urea, Serum creatinine)
(d) Blood sugar, HbAIC
(e) * Serum cholinesterase
(f) ** Blood residue estimation (In case of Organochlorine once in a year)
(g) Urine- routine & microscopic
(h) X-ray chest (PA View): Once every year
(i) Ultrasound whole abdomen: Once every year

- Serum cholinesterage level should be measured in monthly intervals in case of organophosphorus/carbamatic group of insecticides, General remarks of the doctor in the light of the above examination.

** In organochlorine group of insecticides the blood residue estimation should be done once a year.

II. **DIAGNOSIS**

III. **ADVICE GIVEN TO**

1. **The employee**
2. **The employer:**

Signature of the Doctor

With Date and Seal

IV. **Acknowledgement to be given by**

1. **The employee**
2. **The employer:**
3. **The Licensing Officer:**

Dr. APOORV
DR. K.N. GARG
MBBS MD (Medicine)
Regd. No. HN 248
Approach Road, Rohtak

V. **Action taken by the employer on Doctor's advice:**

VI. **Certificate by the Doctor:**

Certified that M/s. ....have completed the action as per my/doctor's advice as given above and consequently the patient has shown improvement/recovered from the ailment.

Signature of the Doctor

EMP. CODE No 394

FORM NO.17
(See Rule 102)

CERTIFICATE OF FITNESS

Serial No **58** Dated: .....

I hereby certify that I have personally examined **MAHABIR PARSAD** ***S/o*** **SH.DHARM PAL** residing at UTTAM VIHAR, ROHTAK who is desirous of being employed as "**MEDICAL OFFICER**" in the M/s. Bharat Rasayan Limited and that his age, nearly as can be ascertained from my examination is **50** Years and that he is in my opinion fit for employment in M/s. Bharat Rasayan Limited.

His descriptive marks are: ***ROUND MARK ON LT OF FACE***

Signature or Left-hand thumb-Impression of person employed.

Signature of Medical Officer

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Fellowship in Echocardiography
Fellowship in Electrocardiography
Fellowship in Sports Medicine
Diploma in Musculoskeletal Imaging (Spain)
AFIH (Factory Medical Officer)Reg No 3826

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Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No.	012406120271	Rep. Date	29/Jun/2024 12:04PM
Name	Mr.MAHABIR PRASAD S/O DHRAM PAL 394	Age / Gender	50 YRS/MALE
Reg. Date	12/Jun/2024 03:57PM	Ref. Dr.	
Barcode	01120271	Sample Rec. dt	29/Jun/2024 12:03PM

HAEMATOLOGY

Test Name	Value	Unit	Ref. Range
Complete Haemogram; WB - EDTA			
HB(Haemglobin) METHOD :- Cyanmethemoglobin Optical	**12.9**	gm/dL	13.0 - 17.0
Reticulocyte count METHOD :- New methylene Blue Stain/ Manual	1.0	%	0.5 - 2.5
RBC (Red Blood Cell) count METHOD :- Histogram Calculation by Electrical Resistance Detection	4.77	million/cumm	3.8 - 4.8
PCV / Haematocrit METHOD :- Histogram Calculation by Electrical Resistance Detection	40.6	%	40 - 50
MCV (Mean Corpuscular Volume) METHOD :- Automated Calculated	85.1	fL	83 - 101
MCH (Mean Cell Haemoglobin) METHOD :- Automated Calculated	**27.0**	picogram	27.5 - 32.0
MCHC (Mean Cell Haemoglobin Concentration) METHOD :- Automated Calculated	31.8	g/dL	31.5 - 34.5
TLC (Total Leucocyte Count)			
Leucocytes Count METHOD :- Electrical Resistance Detection	5.15	10^3/uL	4.0 - 10.0
DLC (Differential Leucocyte Count)			
Neutrophils	64	%	40 - 80 %
Lymphocytes	29	%	20 - 40 %
Monocytes	05	%	2 - 10 %
Eosinophils	02	%	1 - 6 %
Basophils	00	%	0 - 2 %
Platelet Count			
Platelets METHOD :- Histogram Calculation by Electrical Resistance Detection	213	10^3/uL	150 - 410
Peripheral Blood Smear Examination			
Anisocytosis	Nil		Nil
Poikilocytosis	Nil		Nil
RBC Size	Normocytic		
Hypochromasia	NIL		
Polychromasia	Nil		Nil
Normoblasts	Nil		Nil
Impression:-	Normocytic normochromic picture		

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Test Name	Value	Unit	Ref. Range
INTERPRETATION			

Complete Blood Count: - The cell morphology is well preserved for 24 hrs. However after 24 - 48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.

Tashi

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Test Name	Value	Unit	Ref. Range
	HAEMATOLOGY		
RDW - CV ; WB - EDTA			
RDW - CV METHOD :- Histogram Calculation by Electrical Resistance Detection	14.3	%	11.0 - 16.0
RDW - SD; WB-EDTA			
RDW - SD METHOD :- Histogram Calculation by Electrical Resistance Detection	44.7	fL	37 - 54
ESR (Erythrocyte Sedimentation Rate) ; WB - EDTA			
ESR (Erythrocyte Sedimentation Rate) METHOD :- Wintrobe tube	11	mm/1st hr	0.0 - 15.0

Erythrocyte sedimentation Rate, Blood: - ESR is a non - specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants. The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (e.g. corticosteroids, contraceptives). It is especially low 0-1 mm in polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as Poikilocytosis, spherocytosis or sickle cells.

HbA1c (Glycosylated haemoglobin) ; WB - EBTA			
HbA1c; WB - EDTA			
HbA1c (Glycosylated haemoglobin)	4.6	%	4.0 - 5.7
Estimated average plasma Glucose	86.46	mg/dL	65 - 136

Expected Values :

Diabetes Test	Normal	Prediabetes	Diabetes
HBA1C	< 5.7	5.7 - 6.4	≥ 6.5
Fasting blood glucose, mg/dL	<100	100 - 125	>125
Oral glucose tolerance, mg/dL	<140	140 - 199	≥ 200

American Diabetic Association Diagnostic Criteria for Normal Glucose, Prediabetes, and Diabetes

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Test Name	Value	Unit	Ref. Range
BIOCHEMISTRY			
Glucose Random ; Plasma NaF			
Blood Glucose Random METHOD : Glucose Oxidase Peroxidase	88.0	mg/dl	70 - 160
Blood Urea ; Serum			
Blood Urea METHOD : Urease	23	mg/dl	19 - 43

Interpretation

SERUM BLOOD UREA NITROGEN/BUN

Causes of Increased levels

Pre renal

High protein diet, increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal, Renal Failure

Post Renal

Malignancy, Nephrolithiasis, Prostatism

Causes of decreased levels

Liver disease, SIADH.

Creatinine ; Serum

Serum Creatinine METHOD : Creatine Aminohydrase	1.0	mg/dl	0.66 - 1.25

INTERPRETATION	UNIT	REF RANGE
Male	mg/dL	0.66 - 1.25
Female	mg/dL	0.52 - 1.04

Interpretation

CREATININE

SERUM-Higher than normal level may be due to:
Blockage in the urinary tract, Kidney problems, such as kidney damage or failure, Infection, or reduced blood flow, Loss of body fluid (dehydration), Muscle problems, such as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia), or high blood pressure caused by pregnancy (preeclampsia)
Lower than normal level may be due to:
Myasthenia Gravis, Muscular dystrophy

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Barcode	01120271	**Sample Rec. dt**	05/Jul/2024 02:32PM

Test Name	Value	Unit	Ref. Range
	BIOCHEMISTRY		
Total Cholesterol ; Serum			
Total Cholesterol METHOD :- Enzymatic;	211	mg/dL	< 200.0

Interpretation	Unit	Ref.Range
Desirable	mg/dL	<200.0
Borderline	mg/dL	200 - 239
High	mg/dL	> 240.0

Interpretation:-

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease. This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

Bilirubin Direct ; Serum			
Serum Bilirubin Direct	0.10	mg/dl	0.0 - 0.3
Bilirubin Indirect ; Serum			
Serum Bilirubin Indirect	0.20	mg/dl	0.0 - 1.1

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Test Name	Value	Unit	Ref. Range
BIOCHEMISTRY			
LFT (Liver Function Test)(Serum) [DETAILED]			
Serum Bilirubin Total METHOD :- Azobilirubin/dyphylline	0.30	mg/dl	0.2 - 1.3
Serum SGOT/AST METHOD :- Kinetic with Pyridoxal 5 Phosphate	20.0	U/L	17 -59
Serum SGPT/ALT METHOD :- Kinetic with Pyridoxal 5 Phosphate	21	U/L	< 50.0
Serum total Protein METHOD :-Biuret	7.5	gm/dl	6.3 - 8.2
Serum Albumin METHOD :- Bromo Cresol Green	4.1	gm/dl	3.5 - 5.0
Serum Globulin METHOD :- Calculated	3.40	gm/dl	2.5 - 3.5
A : G ratio METHOD :- Calculated	1.21		1.1 - 2.5
Serum Alkaline Phosphatase METHOD :- Para nitrophenol phosphate	87	U/L	38 - 126

Interpretation

LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.

ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

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Test Name	Value	Unit	Ref. Range

ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget""s disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson""s disease.

GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.

Serum total protein,also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstrom's disease.Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc

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Test Name	Value	Unit	Ref. Range
	HORMONE		
Cholinesterase			
Cholinestirase	8967	U/L	4620 - 11500 U/L
CLINICAL SIGNIFICANCE			

Cholinesterase also known as acetyl-cholinesterase and is found mainly in the nerve endigns and the grey mater of brain. It hydrolyses acetycholine released at the nerve endings to meditate transmission of impulses. A similar enzyme acyl choline acylhydrose also known as pseudochlinesterse is present in the serum, brain, heart, liver and pancrease but its biological role is unknown. Cholinesterase levels in serum are useful as a test of liver function and as an indicator of possible insecticide poisoning. Among the organic phosphorous compounds that inhibit cholinesterase activity are mainy incectisides such as Parathion, Sarin and Tetraethylpyrophosphate. During poisoning the level of enzymes decreases as its activity is inhibited.

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CLINICAL PATHOLOGY

Urine routine & microscopic examination

(Automated Strip Test, Microscopy)

Test Name	Value	Unit	Ref. Range
Physical examination			
Colour	Pale yellow		Pale yellow
Transparency	Clear		Clear
Turbidity/Deposit	Nil		Nil
Chemical examination			
pH	6.0		5.0 - 7.5
Reaction (pH)	Acidic		Acidic
Specific gravity	1.020		1.016 - 1.025
Leukocyte	NIL		NIL
Blood	Absent		Absent
Proteins/ Albumin	Nil		Nil
Glucose/ Reducing Substances	NIL		NIL
Bilirubin	Negative		Negative
Urobilinogen	Not increased		Not increased
Ketones	Negative		Negative
Nitrites	Negative		Negative
Microscopic examination			
Pus Cells (Leucocytes)	1 - 2	/HPF	0 - 1
RBC	Nil	/HPF	Occasional
About 90% of the RBCs are Eumorphic at the time of Microscopic Examination.			
Epithelial cells	0 - 1	/HPF	NIL
Casts	Nil	/HPF	Nil
Crystals	Nil	/HPF	Nil
Organism	No Organism Seen		No Organism Seen
Others	Nil		Nil

URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever.

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

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M.B.B.S., M.D. (Pathology)
Gold Medalist

Dr. (Mrs.) Anita Narula
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Chief Consultant Pathologist & Microbiologist

स्वास्थ्य जाँच केन्द्र Leader in 'HI TECH' Diagnosis
Narula Diagnostic Centre
नरूला डायग्नोस्टिक सैंटर
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Consultant Pathologist
Regn. No. : 14797

Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992688047

Lab No.	012406120271	Rep. Date	19/Jun/2024 11:43AM
Name	Mr.MAHABIR PRASAD S/O DHRAM PAL 394	Age / Gender	50 YRS/MALE
Reg. Date	12/Jun/2024 03:57PM	Ref. Dr.	
Barcode	01120271	Sample Rec. dt	29/Jun/2024 12:03PM

Test Name	Value	Unit	Ref. Range

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus. Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia.

Note: A midstream urine specimen should be collected in a clean container. The container does not have to be sterile. Discarding the first 200 mL of early morning voided urine is recommended. Women should clean the external genitalia (cleansing front to back) before voiding to avoid contamination with secretions. These directions help ensure a "clean catch" specimen. No special preparations before collection are necessary; medications and treatments need not be stopped prior to collection.

*** End Of Report ***

Dr. (Mrs.) Tashi Narula
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Chief Consultant Pathologist & Microbiologist

Print DateTime: 05/07/2024 5:03 PM

Printed By:AKASH

केन्द्र

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NARULA DIAGNOSTIC CENTRE

Dr. Arun K. Narula
M.B.B.S., M.D. (Radio Diagnosis), D.M.R.D., F.I.A.M.S.
Chief Consultant Radiologist & Sonologist
Regn. No. : 355
Ex. President : IRIA, Haryana State

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Consultant Diagnostic & Interventional Radiologist,
Fellowship in Echocardiography
Fellow Fetal Medicine
Regn. No. : 7473

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Ex. Sr. Resident, PGIMS (Rohtak)
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Eye Checkup

It is to Certify that MR.MAHABIR PRASAD S/O DHRAM PAL(394) Age/Sex-50Yrs./Male has been examined by me today. He is physically fit.

HEIGHT	:	166.cm
WEIGHT	:	76Kg.
BLOOD PRESSURE	:	120/82mmhg. 88Pulse- beats per min.
NEAR VISION	:	
RIGHT	:	N/6
LEFT	:	N/6
FAR VISION		
RIGHT	:	6/6
LEFT	:	6/6
COLOUR	:	Within normal limits.
REFRACTION	:	RT S(0.12)CYL(0.37) LT S(0.12) CYL(0.12)

DR. APOORV NARULA

सम्पूर्ण स्वास्थ्य जाँच केन्द्र

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Lab No. :	012406120271		
Patient Name :	Mr. MAHABIR PRASAD S/O DHRAM PAL 394	Age/Sex :	50 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	12 Jun 2024

DIGITAL X-RAY CHEST PA VIEW

REPORT:

- Bony cage is normal.
- Soft tissue shadows are normal.
- Both costophrenic & cardiophrenic angles are clear.
- Heart shadow is normal in size & configuration.
- B/L hilar roots are prominent.

IMPRESSION:- B/L hilar prominence.

ADVISED: - Clinical evaluation & further investigations.

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Dr. Narender
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(Radio-Diagnosis)

Dr. Sachin
M.B.B.S., M.D.
(Radio-Diagnosis)

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Ex. Sr. Resident, PGIMS (Rohtak)
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Lab No. :	012406120271		
Patient Name :	Mr. MAHABIR PRASAD S/O DHRAM PAL 394	Age/Sex :	50 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	12 Jun 2024

ULTRASOUND OF ABDOMEN & PELVIS
(Done with 3D/ 4D Colour Doppler Ultrasound Machine)

REPORT:-

- Liver is normal in size with normal echotexture & vasculature. Intrahepatic biliary radicals are not dilated. Internal diameter of common bile duct is normal (normal is <_ 6 mm), its lumen is echofree.
- Gall bladder lumen is echofree & thickness of gall bladder wall is normal (normal is <_ 3 mm).
- Diaphragm is moving well with respiration.
- Pancreas & spleen are normal in size & echotexture.
- Both kidneys show normal size, shape, location & echotexture. Both the ureters are not dilated.
- Urinary bladder is normal & lumen is echofree.
- Prostate is normal in size with normal echotexture.
- No evidence of significant lymphadenopathy seen.
- There is no evidence of free fluid seen in peritoneal cavity.

ADVISED:- Clinical correlation & further investigations.

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(Radio-Diagnosis)

Dr. Narender
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(Radio-Diagnosis)

EMP. CODE: 731

FORM XXII

(See Rule 37)

REGISTER OF PERSONS ENGAGED IN CONNECTION WITH INSECTICIDES AND THEIR PERIODICAL MEDICAL EXAMINATION FOR THE YEAR JUNE' 2024

Name ANKIT KUMAR Age 3/23/1993 Yrs Sex M. DOJ 8/12/2013

F/Name SH.JITENDRA KUMAR Occupation SR. PRODUCTION SUPERVISOR

Address C/O SUNITA DUA, H.NO - 1185/20, W.NO - 2, GANDHI NAGAR, ROHTAK

Identification Mark MARK ON RT EYE BROW

Details of use Personnel Protective Equipments:

(a) Protective clothing/overall: (b) Helmet/hood/hat: (c) Dust proof goggles:

(d) Rubber gloves impermeable to liquids: (e) Respiratory devices(s) (f) Boots:

MEDICAL EXAMINATION:

PAST HISTORY

Illness	Poisoning	Allergy	Exposure to pesticides (compound)	No.of years/seasons and days of exposure per year	Remarks, if any
(1)	(2)	(3)	(4)	(5)	(6)
NO	NO	NO	NO	N|A	

FAMILY HISTORY:

Allergy	Psychological disorders	Hemorrhagic disorder
(1) NO	(2) NO	(3) NO
Infertility/Sterlity	Birth defects	Cancer
(4) NO	(5) NO	(6) NO

PERSONAL HISTORY:

Smoking	Alcohol	Other addiction
(1) NO	(2) NO	(3) NO
Marital Status	Nos. of Children-Health status of children & any birth defect, if any	Any other health related complaint
(4) married	(5) One, Healthy	NO (6)

OBSERVATIONS:

Medical Examination	Pre-Employment examination	End 1st quarter i.e. after 3 months	After 2nd quarter after 6 months	After 3rd quarter 9 months	End of year	Remarks
Yes.	Yes	Yes	Yes	Yes	Yes	

1. General Examination

(a) Height – 170cm
(b) Weight – 74kg
(c) Pulse rate – 88/min
(d) Blood pressure – 126/84
(e) Respiration – 18/min
(f) Anemia/Pallor
(g) Oedema
(h) Jaundice
– NO
(i) Skin condition
(j) Temperature
– Normal
(k) Fatigability – NO
(l) Sweating
(m) Sleep
(n) Urination
– Normal

1. Gastro Intestinal

(a) Nausea
(b) Vomiting
– NO
(c) Appetite
(d) Taste
– Normal
(e) Pain in abdomen – NO
(f) Bowel movement – Normal
(g) Liver
(h) Spleen
– Not Palpable

2. Cardio-respiratory

(a) Nasal Discharge
(b) Wheeze
(c) Cough
(d) Expectoration
(e) Tightness of chest
– NO
(f) Dyspnoea
(g) Palpitation
– NO
(h) Heart – S_1S_2 Normal
(i) Cyanosis
(j) Tachycardia/Bradycardia
– NO

3. Neuro-muscular

(a) Headache
(b) Dizziness
(c) Irritability
(d) Twitching
(e) Tremors
– NO
(f) Convulsions
(g) Paranesthesia
(h) Hallucinations
– NO
(i) Unconsciousness – NO
(j) Superficial reflexes
(k) Deep reflexes
(l) Coordination
– Normal

4. **Eye**
(a) Pupil] – Normal
(b) Lachrymation]
(c) Double vision] – NO
(d) Blurred vision]

5. **Psychological**
(a) Temperament] – Normal
(b) Judgment]
(c) Nervousness – NO

6. **Kidney**
Kidney Condition – Normal

7. **Investigation**
(a) Complete Haemogram: (Hb, TRBC,TLC,DLC, Platelet, Reticulacytes count, ESR)
(b) Liver Function Tests: (Serum Bilirubin, SAP, SGOT, SGPT, Cholesterol, Total Protein and serum albumin)
(c) Kidney Function Tests: (Blood urea, Serum creatinine)
(d) Blood sugar, HbAIC
(e) * Serum cholinesterase
(f) ** Blood residue estimation (In case of Organochlorine once in a year)
(g) Urine- routine & microscopic
(h) X-ray chest (PA View): Once every year
(i) Ultrasound whole abdomen: Once every year

- Serum cholinesterage level should be measured in monthly intervals in case of organophosphorus/carbamatic group of insecticides, General remarks of the doctor in the light of the above examination.

** In organochlorine group of insecticides the blood residue estimation should be done once a year.

II. **DIAGNOSIS**

III. **ADVICE GIVEN TO**
1. **The employee**
2. **The employer:**

Signature of the Doctor

With Date and Seal

DR. K.N. GAHC
MBBS MD (Medicine)
Regd. No. HN 248
Approach Road, Rahter

IV. **Acknowledgement to be given by**
1. **The employee**
2. **The employer:**
3. **The Licensing Officer:**

Dr. APOORV
M.B.B.S., M.D. (Radio-Diagnosis), L.L.B.
(Gold Medalist)
Fellow Foetal Medicine & Clinical Genetics
Fellowship in Echocardiography
Fellowship in Electrocardiography
Fellowship in Sports Medicine
Fellowship in Musculoskeletal Imaging (Spain)
AFIH (Radiology) Reg. No. 3825

V. **Action taken by the employer on Doctor's advice:**

VI. **Certificate by the Doctor:**

Certified that M/s. .....have completed the action as per my/doctor's advice as given above and consequently the patient has shown improvement/recovered from the ailment.

Signature of the Doctor

EMP. CODE No 731

FORM NO.17
(See Rule 102)

CERTIFICATE OF FITNESS

Serial No **103** Dated: .....

I hereby certify that I have personally examined **ANKIT KUMAR** ***S/o*** **SH.JITENDRA KUMAR** residing at C/O SUNITA DUA, H.NO - 1185/20, W.NO - 2, GANDHI NAGAR, ROHTAK who is desirous of being employed as **"SR. PRODUCTION SUPERVISOR"** in the M/s. Bharat Rasayan Limited and that his age, nearly as can be ascertained from my examination is 31 Years and that he is in my opinion fit for employment in M/s. Bharat Rasayan Limited. His descriptive marks are: ***MARK ON RT EYE BROW***

DR. K.N. GARG
MBBS MD (Medicine)
Regd. No. [illegible]
Approach Road, Rohtak

Signature or Left-hand thumb-Impression of person employed.

Signature of Medical Officer

Dr. APOORV
M B B S, M.D. (Radio-Diagnosis), L.L.B.
(Gold Medalist)
Fellow Fetal Medicine & Clinical Genetics
Fellowship in Echocardiography
Fellowship in Electrocardiography
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Affiliated Factory Medical Officer/Reg.No 3828

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Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No.	012406130276	**Rep. Date**	19/Jun/2024 05:39PM
Name	Mr.ANKIT KUMAR S/O JITENDRA KUMAR 731	**Age / Gender**	30 YRS/MALE
Reg. Date	13/Jun/2024 03:36PM	**Ref. Dr.**	Dr. Bharat Rasayan Limited
Barcode	01130276	**Sample Rec. dt**	19/Jun/2024 04:03PM

Test Name	Value	Unit	Ref. Range
	HAEMATOLOGY		
Complete Haemogram; WB - EDTA			
HB(Haemglobin) METHOD :- Cyanmethemoglobin Optical	12.1	gm/dL	13.0 - 17.0
Reticulocyte count METHOD :- New methylene Blue Stain/ Manual	1.1	%	0.5 - 2.5
RBC (Red Blood Cell) count METHOD :- Histogram Calculation by Electrical Resistance Detection	4.70	million/cumm	3.8 - 4.8
PCV / Haematocrit METHOD :- Histogram Calculation by Electrical Resistance Detection	37.3	%	40 - 50
MCV (Mean Corpuscular Volume) METHOD :- Automated Calculated	79.4	fL	83 - 101
MCH (Mean Cell Haemoglobin) METHOD :- Automated Calculated	25.7	picogram	27.5 - 32.0
MCHC (Mean Cell Haemoglobin Concentration) METHOD :- Automated Calculated	32.4	g/dL	31.5 - 34.5
TLC (Total Leucocyte Count)			
Leucocytes Count METHOD :- Electrical Resistance Detection	8.89	10^3/uL	4.0 - 10.0
DLC (Differential Leucocyte Count)			
Neutrophils	72	%	40 - 80 %
Lymphocytes	22	%	20 - 40 %
Monocytes	05	%	2 - 10 %
Eosinophils	01	%	1 - 6 %
Basophils	00	%	0 - 2 %
Platelet Count			
Platelets METHOD :- Histogram Calculation by Electrical Resistance Detection	152	10^3/uL	150 - 410
Peripheral Blood Smear Examination			
Anisocytosis	Mild		Nil
Poikilocytosis	Mild		Nil
RBC Size	Microcytic to normocytic		
Hypochromasia	NIL		
Polychromasia	Nil		Nil
Normoblasts	Nil		Nil
Impression:-	Microcytic to normocytic normochromic picture		

tashi

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Anita Narula

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Lab No.	012406130276	**Rep. Date**	19/Jun/2024 05:39PM
Name	**Mr.ANKIT KUMAR S/O JITENDRA KUMAR 731**	**Age / Gender**	30 YRS/MALE
Reg. Date	13/Jun/2024 03:36PM	**Ref. Dr.**	Dr. Bharat Rasayan Limited
Barcode	01T30276	**Sample Rec. dt**	19/Jun/2024 04:03PM

Test Name	Value	Unit	Ref. Range
INTERPRETATION			

Complete Blood Count: - The cell morphology is well preserved for 24 hrs. However after 24 - 48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.

Tashi

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Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992868047

Lab No.	012406130276	**Rep. Date**	20/Jun/2024 07:25PM
Name	Mr.ANKIT KUMAR S/O JITENDRA KUMAR 731	**Age / Gender**	30 YRS/MALE
Reg. Date	13/Jun/2024 03:36PM	**Ref. Dr.**	Dr. Bharat Rasayan Limited
Barcode	01130276	**Sample Rec. dt**	19/Jun/2024 04:03PM

Test Name	Value	Unit	Ref. Range
	HAEMATOLOGY		
RDW - CV ; WB - EDTA			
RDW - CV	14.3	%	11.0 - 16.0
METHOD :- Histogram Calculation by Electrical Resistance Detection			
RDW - SD; WB-EDTA			
RDW - SD	41.6	fL	37 - 54
METHOD :- Histogram Calculation by Electrical Resistance Detection			
ESR (Erythrocyte Sedimentation Rate) ; WB - EDTA			
ESR (Erythrocyte Sedimentation Rate)	11	mm/1st hr	0.0 - 15.0
METHOD :- Westrobe tube			

Erythrocyte sedimentation Rate, Blood:- ESR is a non - specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants. The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (e.g. corticosteroids, contraceptives). It is especially low 0-1 mm in polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as Poikilocytosis, spherocytosis or sickle cells.

HbA1c (Glycosylated haemoglobin) ; WB - EBTA

HbA1c: WB - EDTA			
HbA1c (Glycosylated haemoglobin)	4.9	%	4.0 - 5.7
Estimated average plasma Glucose	97.14	mg/dL	65 - 136

Expected Values :

Diabetes Test	Normal	Prediabetes	Diabetes
HBA1C	< 5.7	5.7 - 6.4	≥ 6.5
Fasting blood glucose, mg/dL	<100	100 - 125	>125
Oral glucose tolerance, mg/dL	<140	140 - 199	≥ 200

American Diabetic Association Diagnostic Criteria for Normal Glucose, Prediabetes, and Diabetes

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Test Name	Value	Unit	Ref. Range
	BIOCHEMISTRY		
Glucose Random ; Plasma NaF			
Blood Glucose Random METHOD :- Glucose Oxidase Peroxidase	87.0	mg/dl	70 - 160
Blood Urea ; Serum			
Blood Urea METHOD :- Urease	24	mg/dl	19 - 43

Interpretation
SERUM BLOOD UREA NITROGEN/BUN
Causes of Increased levels
Pre renal
High protein diet, increased protein catabolism, GI haemorrhage, Cortisol, Dehydration, CHF Renal.
Renal Failure
Post Renal
Malignancy, Nephrolithiasis, Prostatism
Causes of decreased levels
Liver disease, SIADH.

Creatinine ; Serum

Serum Creatinine METHOD :- Creatine Amidinohydrolase	0.80	mg/dl	0.66 - 1.25

INTERPRETATION	UNIT	REF RANGE
Male	mg/dL	0.66 - 1.25
Female	mg/dL	0.52 - 1.04

Interpretation
CREATININE
SERUM-Higher than normal level may be due to:
Blockage in the urinary tract, Kidney problems, such as kidney damage or failure, infection, or reduced blood flow, Loss of body fluid (dehydration), Muscle problems, such as breakdown of muscle fibers, Problems during pregnancy, such as seizures (eclampsia), or high blood pressure caused by pregnancy (preeclampsia)
Lower than normal level may be due to:
Myasthenia Gravis, Muscular dystrophy

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Test Name	Value	Unit	Ref. Range
BIOCHEMISTRY			
Total Cholesterol ; Serum			
Total Cholesterol METHOD : Enzymatic,	133	mg/dL	< 200.0

Interpretation	Unit	Ref.Range
Desirable	mg/dL	<200.0
Borderline	mg/dL	200 - 239
High	mg/dL	> 240.0

Interpretation:-

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease. This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

Bilirubin Direct ; Serum			
Serum Bilirubin Direct	0.10	mg/dl	0.0 - 0.3
Bilirubin Indirect ; Serum			
Serum Bilirubin Indirect	0.40	mg/dl	0.0 - 1.1

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Test Name	Value	Unit	Ref. Range
BIOCHEMISTRY			
LFT (Liver Function Test)(Serum) [DETAILED]			
Serum Bilirubin Total METHOD :- Azobilirubin/dyphylline	0.50	mg/dl	0.2 - 1.3
Serum SGOT/AST METHOD :- Kinetic with Pyridoxal 5 Phosphate	49	U/L	17 - 59
Serum SGPT/ALT METHOD :- Kinetic with Pyridoxal 5 Phosphate	48	U/L	< 50.0
Serum total Protein METHOD :- Biuret	7.6	gm/dl	6.3 - 8.2
Serum Albumin METHOD :- Bromo Cresol Green	4.6	gm/dl	3.5 - 5.0
Serum Globulin METHOD :- Calculated	3.00	gm/dl	2.5 - 3.5
A : G ratio METHOD :- Calculated	1.53		1.1 - 2.5
Serum Alkaline Phosphatase METHOD :- Para nitrophenyl phosphate	87	U/L	38 - 126

Interpretation

LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.

ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

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Test Name	Value	Unit	Ref. Range

ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget'''s disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson'''s disease.
GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.
Serum total protein,also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstrom's disease.Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and wasting etc

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Lab No.	012406130276	**Rep. Date**	20/Jun/2024 08:39AM
Name	**Mr.ANKIT KUMAR S/O JITENDRA KUMAR 731**	**Age / Gender**	30 YRS/MALE
Reg. Date	13/Jun/2024 03:36PM	**Ref. Dr.**	Dr. Bharat Rasayan Limited
Barcode	01130276	**Sample Rec. dt**	19/Jun/2024 04:03PM

Test Name	Value	Unit	Ref. Range
	HORMONE		
Cholinesterase			
Cholinestirase	6953.0	U/L	4620 - 11500 U/L

CLINICAL SIGNIFICANCE

Cholinesterase also known as acetyl-cholinesterase and is found mainly in the nerve endigns and the grey mater of brain. It hydrolyses acetycholine released at the nerve endings to meditate transmission of impulses. A similar enzyme acyl choline acylhydrose also known as pseudochlinesterse is present in the serum, brain, heart, liver and pancrease but its biological role is unknown. Cholinesterase levels in serum are useful as a test of liver function and as an indicator of possible insecticide poisoning. Among the organic phosphorous compounds that inhibit cholinesterase activity are mainy incectisides such as Parathion, Sarin and Tetraethylpyrophosphate. During poisoning the level of enzymes decreases as its activity is inhibited.

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Lab No.	012406130276	**Rep. Date**	19/Jun/2024 05:40PM
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Test Name	Value	Unit	Ref. Range
	CLINICAL PATHOLOGY		
Urine routine & microscopic examination			
(Automated Strip Test, Microscopy)			
Physical examination			
Colour	Pale yellow		Pale yellow
Transparency	Clear		Clear
Turbidity/Deposit	Nil		Nil
Chemical examination			
pH	6.0		5.0 - 7.5
Reaction (pH)	Acidic		Acidic
Specific gravity	1.020		1.016 - 1.025
Leukocyte	NIL		NIL
Blood	Absent		Absent
Proteins/ Albumin	Nil		Nil
Glucose/ Reducing Substances	NIL		NIL
Bilirubin	Negative		Negative
Urobilinogen	Not increased		Not increased
Ketones	Negative		Negative
Nitrites	Negative		Negative
Microscopic examination			
Pus Cells (Leucocytes)	0-1	/HPF	0 - 1
RBC	Nil	/HPF	Occasional
About 90% of the RBCs are Eumorphic at the time of Microscopic Examination.			
Epithelial cells	NIL	/HPF	NIL
Casts	Nil	/HPF	Nil
Crystals	Nil	/HPF	Nil
Organism	No Organism Seen		No Organism Seen
Others	Nil		Nil

URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications

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Barcode	01130276	**Sample Rec. dt**	19/Jun/2024 04:03PM

Test Name	Value	Unit	Ref. Range

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus. **Bilirubin:** In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia.

Note:-A midstream urine specimen should be collected in a clean container. The container does not have to be sterile. Discarding the first 200 mL of early morning voided urine is recommended. Women should clean the external genitalia (cleansing front to back) before voiding to avoid contamination with secretions. These directions help ensure a "clean catch" specimen.No special preparations before collection are necessary, medications and intercourse need not be stopped prior to collection.

*** End Of Report ***

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Date : JUNE 19, 2024

Eye Checkup

Mr.ANKIT KUMAR S/O JITENDRA KUMAR (731) Age/ Sex-30Yrs/MALE

HEIGHT	:	170.cm
WEIGHT	:	74Kg.
BLOOD PRESSURE	:	126/84mmhg. Pulse-88beats per min.
NEAR VISION	:	
RIGHT	:	N/6
LEFT	:	N/6
FAR VISION		
RIGHT	:	6/6
LEFT	:	6/6
COLOUR	:	Within normal limits.
REFRACTION		RTS(3.00)CYL(3.75) LTS(0.50)CYL(0.50)

DR. APOORV NARULA

NARULA DIAGNOSTIC CENTRE

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Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No. :	012406130276		
Patient Name :	Mr. ANKIT KUMAR S/O JITENDRA KUMAR 731	Age/Sex :	30 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	13 Jun 2024

DIGITAL X-RAY CHEST PA VIEW

REPORT:

- Bony cage is normal.
- Soft tissue shadows are normal.
- Both costophrenic & cardiophrenic angles are clear.
- Heart shadow is normal in size & configuration.
- B/L lung fields are clear.

ADVISED: - Clinical evaluation & further investigations.

Dr. A.K. Narula
M.B.B.S., M.D., D.M.R.D., F.I.A.M.S. (Radio-Diagnosis) (Chief Radiologist)

Dr. (Mrs.) Anita Narula
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Dr. (Mrs.) Isha
M.B.B.S., M.D. (Radio-Diagnosis), M.B.A. Diploma in Musculoskeletal Imaging (Spain)

Dr. Apoorv
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Dr. Arjun
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Dr. J.Pal
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Dr. Tashi
M.B.B.S., M.D. (Pathology) (Gold Medalist)

Dr. Pooja
M.B.B.S., M.D. (Radio-Diagnosis)

Dr. Deepak
M.B.B.S., M.D. (AIIMS) (Radio-Diagnosis)

Dr. Narender
M.B.B.S., M.D. (AIIMS) (Radio-Diagnosis)

सम्पूर्ण स्वास्थ्य जाँच केन्द्र

NARULA DIAGNOSTIC CENTRE

Leader in 'HI TECH' Diagnosis

Dr. Arun K. Narula
M.B.B.S., M.D., (Radio Diagnosis), D.M.R.D., F.I.A.M.S.
Chief Consultant Radiologist & Sonologist
Regn. No. : 395
Ex. President : IRIA, Haryana State

Dr. (Mrs.) Anita Narula
M.B.B.S., M.D. (Pathology), F.I.A.M.S.
Chief Consultant Pathologist & Microbiologist
Regn. No. : 2620

NABH Accredited Diagnostic Centre

Dr. Apoorv
M.B.B.S. (Gold Medalist), M.D. (Radio Diagnosis), LL.B.
Consultant Diagnostic & Interventional Radiologist,
Fellowship in Echocardiography
Fellow Fetal Medicine
Regn. No. : 7473

Dr. Isha
M.B.B.S., M.D. (Radio Diagnosis), M.B.A.
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Fellow Fetal Medicine
Ex. Sr. Resident, A.I.I.M.S. (Delhi)
Regn. No. : 10281

Dr. Arjun
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Consultant Diagnostic & Interventional Radiologist,
Fellow Fetal Medicine
Ex. Sr. Resident, PGIMER (Chandigarh)
Ex. Assistant Professor, PGIMS (Rohtak)
Regn. No. : H.N. 610759

Dr. Tashi
M.B.B.S., M.D. (Pathology), Gold Medalist
Ex. Sr. Resident, SMS Medical College, Jaipur
Ex. Sr. Resident, PGIMS (Rohtak)
Regn. No. : 14787

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Patient Name :	Mr. ANKIT KUMAR S/O JITENDRA KUMAR 731	Age/Sex :	30 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	13 Jun 2024

ULTRASOUND OF ABDOMEN & PELVIS
(Done with 3D/ 4D Colour Doppler Ultrasound Machine)

REPORT:-

- Liver is normal in size with normal echotexture & vasculature. Intrahepatic biliary radicals are not dilated. Internal diameter of common bile duct is normal (normal is <_ 6 mm), its lumen is echofree.
- Gall bladder lumen is echofree & thickness of gall bladder wall is normal (normal is <_ 3 mm).
- Diaphragm is moving well with respiration.
- Pancreas & spleen are normal in size & echotexture.
- Both kidneys show normal size, shape, location & echotexture. Both the ureters are not dilated.
- Urinary bladder is normal & lumen is echofree.
- Prostate is normal in size with normal echotexture.
- No evidence of significant lymphadenopathy seen.
- There is no evidence of free fluid seen in peritoneal cavity.

ADVISED:- Clinical correlation & further investigations.

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(Radio-Diagnosis)

Dr. Deepak
M.B.B.S., M.D. (AIIMS)
(Radio-Diagnosis)

Dr. Sachin
M.B.B.S., M.D. (PGIMS Rohtak)
(Radio-Diagnosis)
Ex. Assistant professor (PGIMS Rohtak)

EMP. CODE: 745

FORM XXII

(See Rule 37)

REGISTER OF PERSONS ENGAGED IN CONNECTION WITH INSECTICIDES AND THEIR PERIODICAL MEDICAL EXAMINATION FOR THE YEAR JUNE' 2024

Name JITENDRA KUMAR RAM Age 8/10/1989 Yrs Sex M. DOJ 2/3/2014

F/Name SH.RAMKISHAN RAM Occupation SR. PRODUCTION SUPERVISOR

Address C/O KAMLESH, H.NO : 346/1, INDRA COLONY, ROHTAK

Identification Mark MOLE ON LT EAR

Details of use Personnel Protective Equipments:

(a) Protective clothing/overall: (b) Helmet/hood/hat: (c) Dust proof goggles:

(d) Rubber gloves impermeable to liquids: (e) Respiratory devices(s) (f) Boots:

MEDICAL EXAMINATION:

PAST HISTORY

Illness	Poisoning	Allergy	Exposure to pesticides (compound)	No.of years/seasons and days of exposure per year	Remarks, if any
(1)	(2)	(3)	(4)	(5)	(6)
NO	NO	NO	NO	N/A	

FAMILY HISTORY:

Allergy	Psychological disorders	Hemorrhagic disorder
(1) NO	(2) NO	NO (3)
Infertility/Sterlity	Birth defects	Cancer
(4) NO	(5) NO	(6) NO

PERSONAL HISTORY:

Smoking	Alcohol	Other addiction
(1) NO	(2) NO	(3) NO
Marital Status	Nos. of Children-Health status of children & any birth defect, if any	Any other health related complaint
(4) married	(5) three, Healthy	NO (6)

OBSERVATIONS:

Medical Examination	Pre-Employment examination	End 1st quarter i.e. after 3 months	After 2nd quarter after 6 months	After 3rd quarter 9 months	End of year	Remarks
Yes	Yes	Yes	Yes	Yes	Yes	

1. General Examination

(a) Height — 165 cm
(b) Weight — 52 kg
(c) Pulse rate — 82/min
(d) Blood pressure — 112/70
(e) Respiration — 18/min
(f) Anemia/Pallor
(g) Oedema
(h) Jaundice — NO
(i) Skin condition
(j) Temperature — Normal
(k) Fatigability — NO
(l) Sweating
(m) Sleep
(n) Urination — Normal

1. Gastro Intestinal

(a) Nausea
(b) Vomiting — NO
(c) Appetite
(d) Taste — Normal
(e) Pain in abdomen — NO
(f) Bowel movement — Normal
(g) Liver
(h) Spleen — Not Palpable

2. Cardio-respiratory

(a) Nasal Discharge
(b) Wheeze
(c) Cough
(d) Expectoration
(e) Tightness of chest — NO
(f) Dyspnoea
(g) Palpitation — NO
(h) Heart — S1S2 Normal
(i) Cyanosis
(j) Tachycardia/Bradycardia — NO

3. Neuro-muscular

(a) Headache
(b) Dizziness
(c) Irritability
(d) Twitching
(e) Tremors — NO
(f) Convulsions
(g) Paraesthesia
(h) Hallucinations
(i) Unconsciousness — NO
(j) Superficial reflexes
(k) Deep reflexes
(l) Coordination — Normal

4. **Eye**
(a) Pupil
(b) Lachrymation] - Normal
(c) Double vision
(d) Blurred vision] - NO

5. **Psychological**
(a) Temperament
(b) Judgment] - Normal
(c) Nervousness - NO

6. **Kidney**
Kidney Condition - Normal

7. **Investigation**
(a) Complete Haemogram: (Hb, TRBC,TLC,DLC, Platelet, Reticulacytes count, ESR)
(b) Liver Function Tests: (Serum Bilirubin, SAP, SGOT, SGPT, Cholesterol, Total Protein and serum albumin)
(c) Kidney Function Tests: (Blood urea, Serum creatinine)
(d) Blood sugar, HbAIC
(e) * Serum cholinesterase
(f) ** Blood residue estimation (In case of Organochlorine once in a year)
(g) Urine- routine & microscopic
(h) X-ray chest (PA View): Once every year
(i) Ultrasound whole abdomen: Once every year

- Serum cholinesterage level should be measured in monthly intervals in case of organophosphorus/carbamatic group of insecticides, General remarks of the doctor in the light of the above examination.

** In organochlorine group of insecticides the blood residue estimation should be done once a year.

II. **DIAGNOSIS**
III. **ADVICE GIVEN TO** take light diet.
1. **The employee**
2. **The employer:** Breathing Exercise

Signature of the Doctor
With Date and Seal

IV. **Acknowledgement to be given by**
1. **The employee**
2. **The employer:**
3. **The Licensing Officer:**

Dr. APOORV
M.B.B.S. M.D. (Radio-Diagnosis), L.L.B
(Gold Medalist)
Fellow Foetal Medicine & Clinical Genetics
Fellowship in Echocardiography
Fellowship in Electrocardiography
Fellowship in Sports Medicine
Fellowship in Musculoskeletal Imaging (Bos-?)
Diploma in Musculoskeletal Medical Officer/Reg No 3029

DR. K.N. GARG
MBBS MD (Medicine)
Regd. No. HN 246
Approach Road, Rohtak

V. * Action taken by the employer on Doctor's advice:
VI. **Certificate by the Doctor:**

Certified that M/s. .... have completed the action as per my/doctor's advice as given above and consequently the patient has shown improvement/recovered from the ailment.

Signature of the Doctor

EMP. CODE No 745

FORM NO.17
(See Rule 102)

CERTIFICATE OF FITNESS

Serial No **107** Dated: .....

I hereby certify that I have personally examined **JITENDRA KUMAR RAM** ***S/o*** **SH.RAMKISHAN RAM** residing at C/O KAMLESH, H.NO : 346/1, INDRA COLONY, ROHTAK who is desirous of being employed as **"SR. PRODUCTION SUPERVISOR"** in the M/s. Bharat Rasayan Limited and that his age, nearly as can be ascertained from my examination is **35** Years and that he is in my opinion fit for employment in M/s. Bharat Rasayan Limited. His descriptive marks are: ***MOLE ON LT EAR***

DR. K.N. GARG
MBBS MD (Medicine)
Regd. No HN 24
Approach Road, Rohtak

Signature or Left-hand thumb-Impression of person employed.

Signature of Medical Officer

Dr. APOORV
M.D. (Radio-Diagnosis), L.L.B.
Medicolegal
Fetal Medicine & Clinical Genetics
Echocardiography
Sports Medicine
Musculoskeletal Imaging (Spain)
Factory Medical Officer)Reg No.38229

Dr. (Mrs.) Tashi
M.B.B.S., M.D. (Pathology), Gold Medalist
Consultant Pathologist
Regn. No. : 14797

Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255259, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No.	012406130281	Rep. Date	15/Jun/2024 11:35AM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range
	HAEMATOLOGY		
Complete Haemogram; WB - EDTA			
HB(Haemglobin) METHOD - Cyanmethemoglobin Optical	14.4	gm/dL	13.0 - 17.0
Reticulocyte count METHOD - New methylene Blue Stain/ Manual	1.1	%	0.5 - 2.5
RBC (Red Blood Cell) count METHOD - Hemogram Calculation by Electrical Resistance Detection	4.18	million/cumm	3.8 - 4.8
PCV / Haematocrit METHOD - Hemogram Calculation by Electrical Resistance Detection	41.9	%	40 - 50
MCV (Mean Corpuscular Volume) METHOD - Automated Calculated	100.2	fL	83 - 101
MCH (Mean Cell Haemoglobin) METHOD - Automated Calculated	34.4	picogram	27.5 - 32.0
MCHC (Mean Cell Haemoglobin Concentration) METHOD - Automated Calculated	34.4	g/dL	31.5 - 34.5
TLC (Total Leucocyte Count)			
Leucocytes Count METHOD - Electrical Resistance Detection	6.97	10^3/uL	4.0 - 10.0
DLC (Differential Leucocyte Count)			
Neutrophils	56	%	40 - 80 %
Lymphocytes	40	%	20 - 40 %
Monocytes	03	%	2 - 10 %
Eosinophils	01	%	1 - 6 %
Basophils	00	%	0 - 2 %
Platelet Count			
Platelets METHOD - Hemogram Calculation by Electrical Resistance Detection	221	10^3/uL	150 - 410
Peripheral Blood Smear Examination			
Anisocytosis	Nil		Nil
Poikilocytosis	Nil		Nil
RBC Size	Normocytic		
Hypochromasia	NIL		
Polychromasia	Nil		Nil
Normoblasts	Nil		Nil
Impression:-	Normocytic normochromic picture		

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Dr. (Mrs.) Anita Narula
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Lab No.	012406130281	Rep. Date	15/Jun/2024 11:35AM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range
INTERPRETATION			

Complete Blood Count: - The cell morphology is well preserved for 24 hrs. However after 24 - 48 hrs a progressive increase in MCV and HCT is observed leading to a decrease in MCHC. A direct smear is recommended for an accurate differential count and for examination of RBC morphology.

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Lab No.	012406130281	**Rep. Date**	15/Jun/2024 02:14PM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	**Age / Gender**	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	**Ref. Dr.**	Dr. Bharat Rasayan Limited
Barcode	01130281	**Sample Rec. dt**	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range
	HAEMATOLOGY		
RDW - CV ; WB - EDTA			
RDW - CV	14.4	%	11.0 - 16.0
METHOD :- Histogram Calculation by Electrical Resistance Detection			
RDW - SD; WB-EDTA			
RDW - SD	53.5	fL	37 - 54
METHOD :- Histogram Calculation by Electrical Resistance Detection			
ESR (Erythrocyte Sedimentation Rate) ; WB - EDTA			
ESR (Erythrocyte Sedimentation Rate)	09	mm/1st hr	0.0 - 15.0
METHOD :- Westergreen			

Erythrocyte sedimentation Rate, Blood: - ESR is a non - specific phenomena and is clinically useful in the diagnosis and monitoring of disorders associated with an increased production of acute phase reactants. The ESR is increased in pregnancy from about the 3rd month and returns to normal by the 4th week post partum. ESR is influenced by age, sex, menstrual cycle and drugs (e.g. corticosteroids, contraceptives). It is especially low 0-1 mm in polycythaemia, hypofibrinogenemia or congestive cardiac failure and when there are abnormalities of the red cells such as Poikilocytosis, spherocytosis or sickle cells.

HbA1c (Glycosylated haemoglobin) ; WB - EBTA

HbA1c; WB - EDTA			
HbA1c (Glycosylated haemoglobin)	4.5	%	4.0 - 5.7
Estimated average plasma Glucose	82.90	mg/dL	65 - 136

Expected Values :

Diabetes Test	Normal	Prediabetes	Diabetes
HBA1C	< 5.7	5.7 - 6.4	≥ 6.5
Fasting blood glucose, mg/dL	<100	100 - 125	>125
Oral glucose tolerance, mg/dL	<140	140 - 199	≥ 200

American Diabetic Association Diagnostic Criteria for Normal Glucose, Prediabetes, and Diabetes

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Lab No.	012406130281	Rep. Date	15/Jun/2024 10:46AM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	011130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range

BIOCHEMISTRY

Total Cholesterol ; Serum

Total Cholesterol METHOD - Enzymatic	197	mg/dL	< 200.0

Interpretation	Unit	Ref.Range
Desirable	mg/dL	<200.0
Borderline	mg/dL	200 - 239
High	mg/dL	> 240.0

Interpretation:-

Serum cholesterol is a blood test that can provide valuable information for the risk of coronary artery disease. This test can help determine your risk of the build up of plaques in your arteries that can lead to narrowed or blocked arteries throughout your body (atherosclerosis). High cholesterol levels usually don't cause any signs or symptoms, so a cholesterol test is an important tool. High cholesterol levels often are a significant risk factor for heart disease and important for diagnosis of hyperlipoproteinemia, atherosclerosis, hepatic and thyroid diseases.

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Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range
BIOCHEMISTRY			
LFT (Liver Function Test) ; Serum [DETAILED]			
Liver Function Test			
Serum Bilirubin Total METHOD :- Azobilirubin/dyphylline	0.50	mg/dL	0.2 - 1.3
Serum SGOT/AST METHOD :- Kinetic with Pyridoxal 5 Phosphate	41	U/L	17 - 59
Serum SGPT/ALT METHOD :- Kinetic with Pyridoxal 5 Phosphate	40	U/L	21 - 52
Serum total Protein METHOD :-Biuret	7.9	gm/dl	6.3 - 8.2
Serum Albumin METHOD :- Bromo Cresol Green	4.7	g/dl	3.5 - 5.0
A : G ratio METHOD :- Calculated	1.47		1.1 - 2.5
Serum Alkaline Phosphatase METHOD :- Para nitrophynol phosphate	79	U/L	38 - 126

Interpretation

LIVER FUNCTION PROFILE, SERUM-LIVER FUNCTION PROFILE

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.Elevated levels results from increased bilirubin production (eg, hemolysis and ineffective erythropoiesis), decreased bilirubin excretion (eg, obstruction and hepatitis), and abnormal bilirubin metabolism (eg, hereditary and neonatal jaundice). Conjugated (direct) bilirubin is elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting into the bile ducts, tumors &Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of Hemolytic or pernicious anemia, Transfusion reaction & a common metabolic condition termed Gilbert syndrome, due to low levels of the enzyme that attaches sugar molecules to bilirubin.

AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic viral hepatitis, blockage of the bile duct, cirrhosis of the liver,liver cancer,kidney failure,hemolytic anemia,pancreatitis,hemochromatosis. AST levels may also increase after a heart attack or strenuous activity.

ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.

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Lab No.	012406130281	Rep. Date	15/Jun/2024 10:46AM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range

ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Paget'''s disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilson'''s disease.
GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.
Serum total protein,also known as total protein,is a biochemical test for measuring the total amount of protein in serum.Protein in the plasma is made up of albumin and globulin.Higher-than-normal levels may be due to:Chronic inflammation or infection,including HIV and hepatitis B or C,Multiple myeloma,Waldenstrom's disease.Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome, Protein-losing enteropathy etc.Human serum albumin is the most abundant protein in human blood plasma.It is produced in the liver.Albumin constitutes about half of the blood serum protein.Low blood albumin levels (hypoalbuminemia) can be caused by:Liver disease like cirrhosis of the liver, nephrotic syndrome,protein-losing enteropathy,Burns,hemodilution,increased vascular permeability or decreased lymphatic clearance,malnutrition and washing etc

Note: Test run by CLIA (chemilumiscence by dry biochemistry) on VITROS 5600 (Orthoclinical diagnostics, USA)

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नरूला डायग्नोस्टिक सैंटर
E 1952
lly Automated lab * Hematology / Biochemistry / Molecular Pathology * Microbiology

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Regn. No. : 14797

Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No.	012406130281	Rep. Date	16/Jun/2024 03:46PM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range
	HORMONE		
Cholinesterase			
Cholinestirase	6587	U/L	4620 - 11500 U/L

CLINICAL SIGNIFICANCE

Cholinesterase also known as acetyl-cholinesterase and is found mainly in the nerve endigns and the grey mater of brain. It hydrolyses acetycholine released at the nerve endings to meditate transmission of impulses. A similar enzyme acyl choline acylhydrose also known as pseudochlinesterse is present in the serum, brain, heart, liver and pancrease but its biological role is unknown. Cholinesterase levels in serum are useful as a test of liver function and as an indicator of possible insecticide poisoning. Among the organic phosphorous compounds that inhibit cholinesterase activity are mainy incectisides such as Parathion, Sarin and Tetraethylpyrophosphate. During poisoning the level of enzymes decreases as its activity is inhibited.

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Lab No.	012406130281	Rep. Date	15/Jun/2024 12:59PM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

CLINICAL PATHOLOGY

Urine routine & microscopic examination

(Automated Strip Test, Microscopy)

Test Name	Value	Unit	Ref. Range
Physical examination			
Colour	Pale yellow		Pale yellow
Transparency	Clear		Clear
Turbidity/Deposit	Nil		Nil
Chemical examination			
pH	6.0		5.0 - 7.5
Reaction (pH)	Acidic		Acidic
Specific gravity	1.020		1.016 - 1.025
Leukocyte	NIL		NIL
Blood	Absent		Absent
Proteins/ Albumin	Nil		Nil
Glucose/ Reducing Substances	NIL		NIL
Bilirubin	Negative		Negative
Urobilinogen	Not increased		Not increased
Ketones	Negative		Negative
Nitrites	Negative		Negative
Microscopic examination			
Pus Cells (Leucocytes)	2-4	/HPF	0 - 1
RBC	Nil	/HPF	Occasional
About 90% of the RBCs are Eumorphic at the time of Microscopic Examination.			
Epithelial cells	0-1	/HPF	NIL
Casts	Nil	/HPF	Nil
Crystals	Nil	/HPF	Nil
Organism	No Organism Seen		No Organism Seen
Others	Dead sperms (Present)		Nil

URINALYSIS-Routine urine analysis assists in screening and diagnosis of various metabolic, urological, kidney and liver disorders.

Protein: Elevated proteins can be an early sign of kidney disease. Urinary protein excretion can also be temporarily elevated by strenuous exercise, orthostatic proteinuria, dehydration, urinary tract infections and acute illness with fever.

Glucose: Uncontrolled diabetes mellitus can lead to presence of glucose in urine. Other causes include pregnancy, hormonal disturbances, liver disease and certain medications.

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Lab No.	012406130281	Rep. Date	15/Jun/2024 12:59PM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	15/Jun/2024 10:41AM

Test Name	Value	Unit	Ref. Range

Ketones: Uncontrolled diabetes mellitus can lead to presence of ketones in urine. Ketones can also be seen in starvation, frequent vomiting, pregnancy and strenuous exercise.

Blood: Occult blood can occur in urine as intact erythrocytes or haemoglobin, which can occur in various urological, nephrological and bleeding disorders.

Leukocytes: An increase in leukocytes is an indication of inflammation in urinary tract or kidneys. Most common cause is bacterial urinary tract infection.

Nitrite: Many bacteria give positive results when their number is high. Nitrite concentration during infection increases with length of time the urine specimen is retained in bladder prior to collection.

pH: The kidneys play an important role in maintaining acid base balance of the body. Conditions of the body producing acidosis/ alkalosis or ingestion of certain type of food can affect the pH of urine.

Specific gravity: Specific gravity gives an indication of how concentrated the urine is. Increased specific gravity is seen in conditions like dehydration, glycosuria and proteinuria while decreased specific gravity is seen in excessive fluid intake, renal failure and diabetes insipidus. Bilirubin: In certain liver diseases such as biliary obstruction or hepatitis, bilirubin gets excreted in urine.

Urobilinogen: Positive results are seen in liver diseases like hepatitis and cirrhosis and in cases of hemolytic anemia.

Note:- A midstream urine specimen should be collected in a clean container. The container does not have to be sterile. Discarding the first 200 mL of early morning voided urine is recommended. Women should clean the external genitalia (cleansing from to back) before voiding to avoid contamination with secretions. These directions help ensure a "clean catch" specimen.No special preparations before collection are necessary; medications and treatments need not be stopped prior to collection.

*** End Of Report ***

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Anita Narula

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Lab No.	012406130281	Rep. Date	17/Jun/2024 04:34PM
Name	Mr.JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age / Gender	35 YRS/MALE
Reg. Date	13/Jun/2024 03:41PM	Ref. Dr.	Dr. Bharat Rasayan Limited
Barcode	01130281	Sample Rec. dt	17/Jun/2024 02:20PM

Test Name	Value	Unit	Ref. Range
	BIOCHEMISTRY		
Bilirubin Direct ; Serum			
Serum Bilirubin Direct	0.10	mg/dl	0.0 - 0.3
Bilirubin Indirect ; Serum			
Serum Bilirubin Indirect	0.50	mg/dl	0.0 - 1.1

*** End Of Report ***

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NARULA DIAGNOSTIC CENTRE

Dr. Arun K. Narula
M.B.B.S., M.D. (Radio Diagnosis), D.M.R.D., F.I.A.M.S.
Chief Consultant Radiologist & Sonologist
Regn. No. : 395
Ex. President : IRIA, Haryana State

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Fellow Fetal Medicine
Regn. No. : 7473

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Fellow Fetal Medicine
Ex. Sr. Resident, A.I.I.M.S. (Delhi)
Regn. No. : 10251

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Ex. Assistant Professor, PGIMS (Rohtak)
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Ex. Sr. Resident, PGIMS (Rohtak)
Regn. No. : 14797

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Lab No. :	012406130281		
Patient Name :	Mr. JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age/Sex :	35 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	13 Jun 2024

DIGITAL X-RAY CHEST PA VIEW

REPORT:

- Bony cage is normal.
- Soft tissue shadows are normal.
- Both costophrenic & cardiophrenic angles are clear.
- Heart shadow is normal in size & configuration.
- B/L lung fields are clear.

ADVISED: - Clinical evaluation & further investigations.

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Dr. Deepak
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Dr. Narender
M.B.B.S., M.D. (AIIMS) (Radio-Diagnosis)

Dr. Sachin
M.B.B.S., M.D. (Radio-Diagnosis)

सम्पूर्ण स्वास्थ्य जाँच केन्द्र

Leader in 'HI TECH' Diagnosis

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Ex. Sr. Resident, PGIMS (Rohtak)
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Narula Diagnostic Centre LLP, Opp. HUDA Complex, Civil Road, Rohtak. Tel. : 01262-255250, 255251 Mob. : 9896344314, 9053555557, 9992888047

Lab No. :	012406130281		
Patient Name :	Mr. JITENDRA KU,MAR RAM S/O RAMKISHAN RAM 745	Age/Sex :	35 YRS/MALE
Referred By :	Dr. Bharat Rasayan Limited	Reg. Date :	13 Jun 2024

ULTRASOUND OF ABDOMEN & PELVIS
(Done with 3D/ 4D Colour Doppler Ultrasound Machine)

REPORT:-

- Liver is normal in size with normal echotexture & vasculature. Intrahepatic biliary radicals are not dilated. Internal diameter of common bile duct is normal (normal is <_ 6 mm), its lumen is echofree.
- Gall bladder lumen is echofree & thickness of gall bladder wall is normal (normal is <_ 3 mm).
- Diaphragm is moving well with respiration.
- Pancreas & spleen are normal in size & echotexture.
- Both kidneys show normal size, shape, location & echotexture. Both the ureters are not dilated.
- Urinary bladder is normal & lumen is echofree.
- Prostate is normal in size with normal echotexture.
- No evidence of significant lymphadenopathy seen.
- There is no evidence of free fluid seen in peritoneal cavity.

ADVISED:- Clinical correlation & further investigations.

Dr. A.K. Narula
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Ex. Assistant professor (PGIMS Rohtak)

ANNEXURE – V
DETAILS OF EMP COST YEAR WISE

BHARAT RASAYAN LIMITED (MOKHRA)

EMP RUNNING COST FOR THE PERIOD 01/04/2024 to 30/09/2024

Particulars	FY_2018-19	FY_2019-20	FY_2020-21	FY_2021-22	FY_2022-23	October 2023-March 2024	April-2024 to September-2024
AIR, WATER, HAZARDOUS MANAGEMENT COST	77,47,381	1,45,00,849	2,08,20,550	2,51,39,898	2,42,37,842	82,98,365	82,13,482.18
OTHERS EXPENSES	1,05,000	1,95,000	2,82,000	3,50,000	3,28,000	31,28,418	2,70,799.14
Total	78,52,381	1,46,95,849	2,11,02,550	2,54,89,898	2,45,65,842	1,14,26,783	84,84,281

ANNEXURE – VI
COPY OF HWRA PERMISSION

Government of Haryana

Haryana Water Resources Authority

Applications for Renewal of Permission to Extract Ground Water for Industrial use

Application No: HWRA/IND/R/2024/2640 (Application Received Fee Paid)

HWRA Previous NOC No: HWRA/NOC/IND/R/2023/230 Download **valid upto : 03/09/2024**

HWRA Previous Application No: HWRA/IND/R/2023/830 Download

I. **General Information:**

Application Type Category/ Type of Application:

(i)	**Name of Applicant:**	kamleshwar Parsad Uniyal	
	ID Proof Type	PAN	
	ID Proof no	AADPU0200F	
	Id Proof Document	Download	
(ii)	**Designation of Applicant:**	Director Operations	
	Authorization Letter in the name of kamleshwar Parsad Uniyal (applicant)	Download	
(iii)	**Name of Industry:**	Bharat Rasayan Limited	
(iv)	**Registration number of Industry:**	922	
(v)	**Location Details of the Industrial Unit**		
	Industrial Unit Address	2KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, District Rohtak -124022 Haryana	
	State:	Haryana	
	District:	ROHTAK	
	Tehsil:	Maham	
	Block:	MAHAM	
	Village/MC:	Mokhra Khas	
	Region:	safe	safe
(vi)	**Correspondence Address**		
	Complete Postal Address	2KM Stone, Madina-Mokhra Road, Village Mokhra, Tehsil Meham, District Rohtak -124022 Haryana	
	Mobile Number:	9050555103	
	E-Mail of Industry:	kpuniyal@bharatgroup.co.in	
(vii)	**Salient Features of the Industrial Activity:**		
	Type of Industry	Pesticides/Insecticides	
	Industry fall under	Previous: Large	New : Large
	Is Water Intensive	No	
	Purpose of Abstraction	Other Use - Existing industry in manufacturing activities	
	Groundwater utilization for	Existing Industry	
	Consent to Operate	Download	
		CTO/CTE Number : 313100924ROHCTO48518049	Issue Date : 22/02/2024
	Validity Period of Consent to Operate	From : 22 Feb 2024	To : 30 Sep 2025

Large industry/ MSME certificate/ proof		Download	
Description : Bharat Rasayan Limited is a formidable player in the agrochemical field in India.Banking on the rich experience of over forty years			
(viii) Land use details of the existing/proposed Industrial unit premises			
Ownership of the land(Enclose documents of ownership)		Download	
Latitude	Longitude	28.948473	76.430061
Location Map		Download	
Total Land area(in sq m)			44517.00
Rooftop area of buildings/sheds(in sq m)			12200.00
Road/paved area(in sq m)			4800.00
Green belt area(in sq m)			16068.00
Open Land (in sq m)			11449.00
Source of availability of surface water for Industrial use, if any	No		
Townships/villages within 2 km radius of the Industrial unit	Yes	Village Mokhra	

2) Detail of water requirement/ recycled water usage : (Please enclose flow chart of activities and requirement of water at each stage)

Flow Chart of activities and requirement of water		Download	
Water Balance Chart with water requirement at each Stage.			Download
Affidavit for Non/Partial supply of water from local government water supply agency (in case of ground water requirement less than 10 KLD)			Download
NOC/Certificate for non/ partial supply of fresh water/ treated waste from the local government water supply agency			Download
Quality of groundwater		Fresh Water	Fresh Water
Name of NABL(Under Valid Certificate)		Haryana Test House	
Upload test report of groundwater quality from NABL accredited lab		**Pre-moonsoon**	**Post-moonsoon**
		Download	Download
Whether any change in Groundwater Requirement		No	
If yes, then reason & justification for change in ground water requirement along with supporting documents, if any.			

	Existing	Revised
(i) Total water required(in m3/day)	355.00	318.00 Download
a. Ground Water required(in m3/day)	235.00	235.00
b. Recycled Water usage(in m3/day)	120.00	83.00
c. Proposed/existing water supply from any agency(in m3/day)	0.00	0.00

(ii) Breakup of Water Requirement and Usage:

	Activity	Existing Requirement (m3/day)	Revised Requirement (m3/day)	No. of Operational Days in a Year	Annual Requirement (m3/year)
a.	Industrial Activity	247.00	213.00	360	76680.00
b.	Residential / Domestic	35.00	35.00	360	12600.00
c.	Greenbelt Development / Environment Maintenance	73.00	70.00	360	25200.00
d.	Other Use	0.00	0.00		0.00
e.	Grand Total	355.00	318.00		114480.00

Source of recycled water ETP/STP

(iii) Breakup of Recycled Water Usage:

	(m3/day)	(Days)	(m3/year)
(a) Total Waste Water Generated:	88.00	360	31680.00
(b) Quantity of Treated Water Available	83.00	360	29880.00
i). Reuse in Industrial Activity:	50.00	360	18000.00
ii). Reuse in Green Belt Development:	33.00	360	11880.00
iii). Any other use	0.00	0	0.00
(c) Total Treated Water Utilized:	83.00		29880.00
(d) Quantity and mode of disposal of unutilised effluent:	0.00		

3. Details of existing and/ or proposed groundwater abstraction structures

(a) Groundwater Abstraction Structure-Existing

SNo.	Type/ Year of construction	Depth (meter)/ Diameter (mm)	Depth to water level (meters below ground level)	Discharge (m3 per hour)	Operational hours/ (day)/ days/year	Mode of lift	Horse Power of pump	Whether fitted with water meter or not
1	tube well/ 2021	18.60/ 76.00	2.00	30.00	4.00/ 360	1	10	Yes
2	tube well/ 2021	18.60/ 76.00	2.00	30.00	3.00/ 360	1	10	Yes

Source of fresh water requirement being met uptill now

Affidavit duly attested by the Applicant regarding non-existence of tubewell

4. Likely date of operation of proposed tubewell

5. Quantum of ground water recharge(m3/year) 0.00

6. Water Efficient Technology will be adopted Download

7. Valid Consent of operate issued by HSPCB(CTO) Download

8.	**Compliance Report as per format (In case of NOC issued by HWRA, fill the compliance status against the link on the portal. Take the print out of Compliance Report so generated and attach here duly signed by the applicant)**		Download View Online compliance Report
9.	**Self-water audit report as per format for 100-500 KLD. Water audit report from accredited consultant for water requirement more than 500 KLD.**		Download
10.	**Affidavit for compliance, as per format.**		Download
11.	**Impact Assessment Report prepared by the accredited consultant : Submit IAR of existing / proposed groundwater withdrawal on the groundwater regime and socio-economic impacts report. Pro-forma for the report is given in Annexure IV of HWRA Guidelines dated 10.9.21. On top of the IAR, provide the Check List + Salient features of IAR, in the prescribed formats.**		
12	**i. Any Other Document/Information**	**(RWH proposal)**	Download
	ii. Any Other Document/Information	**(Environmental clearance Copy)**	Download
	iii. Any Other Document/Information	**(Screen shot of data transfer on HWRA Portal)**	Download
13.	**I shall comply with all the terms and conditions of the Permission for renewal.**		**Yes**

Self Declaration:-

1. **I hereby declare that all the documents prescribed in the application form have been uploaded and no blank / another / irrelevant documents have been uploaded against specified documents. I am also aware that any false/ wrong submission /uploading of document will lead to rejection of my application without any notice.**

2. **I hereby certify that the contents of the above Application are true to the best of my knowledge and belief and that it conceals nothing and that no part of it is false. I understand that if any information furnished by me is found to be false, Haryana Ground Water Authority can take punitive action against me as per the extant rules. Further, I shall comply with all the terms and conditions of the permission/NOC to be granted by HWRA.**

Date:

Place:

For BHARAT RASAYAN LTD.

(Authorised Signatory)

Signature of Applicant with Office Seal

(kamleshwar Parsad Uniyal)

(Director Operations)

a) Information of payment for Application Fee

Total Amount	
Mode of Payment	Online

Reference No.	Transaction No.	Date	Amount	Status
HRWA1003070216314617	ZHDF2144053030	08/07/2024	25000	Success

b) Information of payment for Tarrif Fee

Total Amount	
Mode of Payment	

ANNEXURE – VII
GRANT COPY OF HAZARDOUS WASTE AUTHORIZATION

Application no. :14802487
Industry id: 14ROH1496437
Date: 03/08/2022

Haryana State Pollution Control Board

SCF No. 42 & 43, Shopping Centre,Sector-6, Huda, Bahadurgarh Ph. 01276-243077 (O) Email:- hspcbrobdh@gmail.com

No. :HWM/ROH/2022/14802487 **DT: 03/08/2022**

To

M/s BHARAT RASAYAN LIMITED
2KM STONE, MADINA MOKHRA ROAD, VILLAGE MOKHRA,
Rohtak

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

1. Reference of application:14802487 dated: 03/08/2022
2. KAMLESHWAR PRASAD UNIYAL of BHARAT RASAYAN LIMITED is hereby granted an authorization for generation, collection, storage, transportation, reception, treatment, disposal on the premises situated at 2KM STONE, MADINA MOKHRA ROAD, VILLAGE MOKHRA,

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	Production, and formulation of pesticides including stock-piles, Date-expired and off-specification pesticides	gepil	1 T/Annum
2	Production, and formulation of pesticides including stock-piles, Process wastes/residues	gepil	523 T/Annum
3	Production, and formulation of pesticides including stock-piles, Chemical sludge containing residue pesticides	gepil	1630 T/Annum
4	Production, and formulation of pesticides including stock-piles, Chemical sludge containing residue pesticides	gepil	448.86 T/Annum
5	Production, and formulation of pesticides including stock-piles, Chemical sludge containing residue pesticides	gepil	1437.6 T/Annum

6	Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems or other applications, Used/spent oil	recycler	2.5 T/Annum
7	Handling of Hazardous chemicals and wastes, Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	recycler	200 T/Annum
8	Purification process for organic compounds/solvents, Spent carbon	gepil	3 T/Annum
9	Handling of Hazardous chemicals and wastes, Contaminated cotton rags or other cleaning materials	gepil	2 T/Annum
10	Production of asbestos or asbestos-containing materials, Asbestos-containing residues	gepil	4 T/Annum

1. The authorization shall be valid for a period of 01/04/2022 to 30/09/2027
2. The authorization is subject to the following general and specific conditions :-

(i) 1. Unit will submit agreement with GEPIL. 2. Unit will submit annual report under HWM Rules every year. 3. Unit will comply the conditions of HWM Rules.

Regional Officer Bahadurgarh
For Haryana State Pollution Control Board

Conditions of Authorization:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorised change is personnel equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of this authorization.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this 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.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
7. An application for the renewal of an authorization shall be made as laid down under these Rules.

8. Any other conditions for compliance as per the guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time.
9. Annual return shall be filed by June 30 th for the period ensuring 31 st March of the year.

Regional Officer Bahadurgarh
For Haryana State Pollution Control Board

ANNEXURE – VIII
ELECTRICITY BILL

UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED
(A Government of Haryana Undertaking)
Regd.Office:Vidyut Sadan, IP-3, Sector-14, Panchkula-134113(HR)
CIN:U40109HR1999SGC034166 | Website:www.uhbvn.org.in

Electricity Bill

Duplicate Bill

0834011000079052321810202480200059

Report Generation Date:-12-10-2024 14:14:11
Generated By:- reportus

Name: Bharat Rasayan Ltd.		**Account No: 0834011000**	**Net Payable Amount on or before Due Date (₹): 7905232.00**
Address: Mokhra,, HR, IND		Old Acct No: 211330HULS010786	Due Date: 18/10/2024
		K No: R31LS010095	Surcharge(₹): 114827.00
Circle : Rohtak	Cycle/Group: GEHB/07U	Issue Date: 10/10/2024	Gross Amount Payable After Due Date(₹): 8020059.00
Division: Sub-Urban No I Rohtak	Bill Month: OCT/2024	Bill No: 083407690790	
Sub Division: R31-Kalanaur		Net Payable Amount in words: Seventy Nine Lakh Five Thousand Two Hundred Thirty Two Rupees Only	

User Id:- reportus Generation Date:- 12-10-2024 14:14:11

Meter and Read Details (* Latest MCO is shown in case of multiple MCO in one billing cycle)

Meter No.	Meter Reading Date		Period Days	MDI	Unit	Meter Reading		M.F.	Consumed Units	Billed Units	Bill Basis	Read Rmrk	Mtr Sts
	Old	New				Old	New						
X1258980	01/09/2024	01/10/2024	30	1738.40	kVAh	2173261	2223543.5	20	1005650	1005650	OK	OK	A
X1258980	01/09/2024	01/10/2024	30	0.00	kWh	2168771.5	2218974.5	20	1004060	1004060	OK	OK	A

Time of Day (TOD) Consumption (* only kVAh TODs are displayed)

TOD	22:00-05:30	05:30-08:00	08:00-17:30	17:30-18:00	18:00-18:30	18:30-19:00	19:00-21.00	21:00-22:00
Previous	693505.5	224743.02	838286	44909	45516.5	46666.5	186187.5	93247
Current	709868.06	229827.5	857401.5	45924.5	46535	47945.5	190588	95453.51
Unit	327251.2	101689.6	382310	20310	20370	21580	88010	44130.2

Details of Meter Existing on Date of Reading

Meter No	Meter Make		MCO	Meter No	Meter Make	
				X1258980	Secure Meter Ltd.	
Meter CT Ratio	Meter PT Ratio	Meter MF	Date	Meter CT Ratio	Meter PT Ratio	Meter MF
				1/1	1/1	1
Line CT Ratio	Line PT Ratio	Over All MF	Effect On	Line CT Ratio	Line PT Ratio	Over All MF
				100/5	1/1	20

Arrears outstanding for the Financial year (₹)

Description	Previous	Current	Total (₹)
SOP Charges	0.00	0.00	0.00
F.S.A.	0.00	0.00	0.00
Surcharge	0.00	0.00	0.00
E. Duty	0.00	0.00	0.00
M. Tax	0.00	0.00	0.00
Fixed Charges	0.00	0.00	0.00
Excess Credit	0.00	-0.34	-0.34
Total Arrear	0.00	-0.34	-0.34

Latest Applicable Tariff: 6.65

Connection Details

Tariff Category	HTS
Supply Voltage(kV)	11.00 kV
Metering Voltage(kV)	11.00KV
Sanctioned Load (kW)	1600.00
Contract Demand(kVA)	2000
Peak load exemption%	20
Security Deposit	10273732.49
DOC/DOE	27/02/1991/
Meter Ownership/Read Source	Nigam Meter/ AMR CMRI

Details of charges for current cycle

Description	Amount (₹)
Fixed Charges/ReConn FC	325479.33/0.00
Energy Charges	6587572.50
Low Voltage Surcharge	0.00
Steel Furnace Surcharge	0.00
FPPAS	471906.20
TDS/TCS	-7913.15/0.00
PLE Charges	178080.00
PLV Charges	0.00
Penalty for exceeding the CD	0.00
MSC/Green Energy Premium	0.00/0.00
SL Chrg/ Concessional Tariff	0.00/0.00
Electricity Duty	100406.00
Municipal Tax / P Tax	149099.20
Total Current Cycle Charges(₹)	7913145.23

Details of Amount Payable

Description	Amount (₹)
Current Cycle Charges	7913145.23
Arrears/Outstanding Dues	-0.34
Sundry Charges/Allowances	7913.49/-15828.64
Provisional /BR Adjustment	0.00
LPS Adjustment	0.00
Adv. Security Deposit Amt*/Non Energy chrg	0.00
Net Payable Amount On Or Before Due Date(₹)	**7905232.00**
Surcharge(₹)	114827.00
Gross Amount Payable After Due Date(₹)	8020059.00

Brief details of Sundry charges /allowances

Transfer Adjustment from Over Payment ( )
Transfer Adjustment from Over Payment ( )
Transfer Adjustment (Being the amount of transfer adjustment from TDG SA)

Last Payment Details

Amount(₹)	7485472.00
Receipt No	083401118144
Receipt Date	17/09/2024
Mode of Payment	Payment via Internet

Previous Consumption Pattern

Bill month	Units (KWH)	Units (KVAH)	MDI	Status
Apr-2024	840667.4	841502.6	1534	OK
May-2024	860020	861787.4	1588	OK
Jun-2024	901260	902707.6	1648.8	OK
Jul-2024	881107.6	882440	1633.2	OK
Aug-2024	979962.4	981437.4	1629.6	OK
Sep-2024	948740	949935	1666	OK

PAN / TAN : ******4127A /

Date from which bill other than "OK" is being issued:
Reason:

DD to be drawn in favour of: SDO R31-Kalanaur , UHBVN , KALANAUR

Important Information for consumers:

Payment of this bill can be made online by logging on the Website:www.uhbvn.org.in at any time and at office counter on all working days during working hours i.e. 09:00AM to 03:00PM.

This Bill be considered as a notice under section 56 of The Electricity Act 2003. Kindly pay the bill by due date. In case of default the connection is liable to be disconnected after 15 days of due date. "This is an interest security amount and interest on this security @6.75 % shall be paid for FY 2023-24. This bill does not confer any rights of ownership on the property where this connection exists. T&C shall apply.

Address and Telephone Number(s) of the authorities relating to consumers grievances

Grievance pertaining to this bill can be lodged with	Address & Telephone number(s) of the		For all type of complaints call at:
SDO 'OP' S/Divn UHBVN - R31-Kalanaur	Consumer Grievance Redressal Forum	Ombudsman	1912 or 1800-180-1550 (Toll Fr
	Flat No.519-522, Industrial Area, Phase-II, Power Colony, Near Amartex,Panchkula (Opposite Sector-15, Panchkula).	HERC, Sec-4, Bays No. 33-36, Panchkula, Haryana Email ID : cgrf@uhbvn.org.in Contact No. - 0172-2990341, 0172-2990343 WhatsApp No:- 9815961912	1800 180 2124 (Vigilance Toll Free)

OK Kalan 14/10/24

ANNEXURE – IX
COPY OF FORM-V

Bharat
RASAYAN LIMITED

WORKS : UNIT-I: 2KM Stone, Madina-Mokhra Road, Village Mokhra,
Distt. Rohtak (Haryana)-124022, Ph.: 01257-260755/756/757 • Fax: 260758

O/C

BR/ENV/2023-2024
DATE: 02/08/2023

To,

Scientist-III (HQ)
Haryana State pollution Control Board,
C-11, Sector-6,
Panchkula - 134109

Sub: **Submission of Environmental Statement for the yr.2023-2024**

Dear Sir,

We are submitting of Environment Statement in form-V. (As per the Environment protection rule, 1986) duly filled & signed by us for the year **2023-2024**, along with the all details data annexures in separate sheets attached with this letter.

We hope you will find the above in order and acknowledge the receipts.

Thanking you,

Yours faithfully

K.P. UNIYAL
Director (Operation)

ENCL/ A/A/

Cc to: **The Regional Officer, HSPCB, Regional Office,**
Kothi No.42-43 Sec-6, Bahadurgarh (Hr.)

ENCLOSURE-1

[FORM-V]
(See rule 14)

Environmental Statement for the financial year ending the 31/03/2023

PART-A

(I) Name and address of the owner/ occupier of the industry operation or process	**Sh. K.P. Uniyal** **Bharat Rasayan Limited.** **VPO: Mokhra, Dist: Rohtak (Haryana)-124001**
(II) Industry category Primary- (STC Code) Secondary- (SIC code)	**SME**
(III) Production capacity – Units	**Annexure – I**
(IV) Year of establishment	**1989- 1990**
(V) Date of the last environmental statement submitted.	**Dated: 13/07/2022**

PART –B

Water and Raw Material Consumption

Water consumption m^3/d

Process	**69.72 m^3/day**
Cooling & boiler	**90.0 m^3/day**
Domestic & Gardening.	**75.0 m^3/day**

Name of Products (List attached)	Process water consumption per unit of product output **Annexure – II**

(i) **Raw Material Consumption**

See :- Annexures III

PART-C

Pollution discharged to environment/ unit of output

(Parameter as specified in the consent issued)

(i) Pollution	Quality of Pollutants Discharged (Mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards
a) Water	As per attached in Annexure – IV		
b) Air			

For BHARAT RASAYAN LTD.

PART-D

HAZARDOUS WASTES

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

Hazardous Waste generated	Total Qty (kg.)/day		Method of disposal
	During Previous Year-2021-2022	During Current Year-2022-2023	
a) Process			
1) Residue From Distillation	1350.878 kg /day	1328.678 kg /day	For Incinerator GEPIL, Pali, Faridabad
2) Used Oil	7.333 kg/ day	7.121 kg /day	Sold to recycler – Shiv Oil Refinery – Kheri : Sampla
3) Cotton Waste, Gland Pkg. etc.	1.000 kg/day	0.727 kg /day	For Incinerator GEPIL, Pali, Faridabad
4) Glass Wool	3.212 kg /day	10.469 kg /day	Send to GEPIL , Pali for S.St
5) Drums	23.948 Nos/day	36.851 Nos. /day	Recycled for filling residue of distillation & Send to GEPIL , Pali for Incineration or Selling to authorized persons
6) Bags	81.4939 kg/day	81.4939 kg /day	Clean & filled with lime sludge
b) From Pollution Control Activities			
1) ETP-MEE sludge from Waste Water treatment Plant	4915.878 kg /day	4363.757 kg /day	**Dispose off for land fill at GEPIL – Pali, Faridabad**
2) ATFD sludge from ETP+ Sodium sulphite Byproduct	960.788 kg /day	971.015 kg /day	**Dispose off for land fill at GEPIL – Pali, Faridabad**
3) ATFD sludge from ETP+ Potassium chloride Byproduct	3457.752 kg /day	3602.996 kg /day	**Dispose off for land fill at GEPIL – Pali, Faridabad**
2) Activated Carbon	1.0909 kg /day	4.5303 kg /day	**For Incinerator GEPIL, Pali, Faridabad**

For BHARAT RASAYAN LTD.

PART-E

Solid Waste generated	Total Qty (kg.)/day		Method of disposal
	During Previous Yr. 2021-2022	During Current Yr. 2022- 2023	
a) Process NA			
b) From Pollution Control Activities			
ASH from boiler cyclone and ESP	1029.645 kg/day	1073.68 kg /day	**Dispose off for land fill at GEPIL – Pali, Faridabad OR used for land filling for road making**

PART-F

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

The Characterization/ Composition of hazardous as well as solid wastes is given in in Form -4

Annexure - V

1- ***Waste oil send to recycler .***

2- ***Part of empty drums used for recycling in filling of hazardous material generated in plant and send to TSDF site for incineration at GEIPL Pali , Faridabad. remaining drums sold to authorized recycler after cleaning.***

3- ***ETP-MEE sludge send , ATFD sludge from MEE concentrate , from sodium sulphite by product,from potassium chloride byproduct, activated carbon, galnd packing ,Epty barrels/ bags,cotton waste, glasswool , boiler ash and process distillation residue sent to TSDF site , at GEIPL Pali , Faridabad for land fill and incineration.***

PART- G

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

a) Better Pollution control measurement & continuous process monitoring resulted in better working environment thus in turn improved productivity.

b) Continuous monitoring of scrubber to control the emissions in to the environment ,Therefore reduction in corrosive environment .This reduces painting cost and im proves the life of structure.

For BHARAT RASAYAN LTD.

(Authorised Signatory)

c) **Occupational Health and Safety Improvement:** Training is given to all staff at site.OHC managed by full time doctor and very senior physician (M.D) is visiting at site every week for review the EHS impact.

d) Lower effluent load resulted in saving of energy & treatment cost.

e) **Green Belt Development**: Developed green belt in 16068 m^2 area and last year 500 plants are also planted.

f) **Establishment of Analysis**: Qualified officers carry out analysis in fully developed laboratory. On line monitoring of effluent and boiler stack has been monitored by the competent person. Apart from the above as per guide line of HSPCB monitoring and analysis is also being carried out by approved 3rd party on quarterly basis.

PART-H

Installed Effluent Treatment Plant comprises of :-

a) Oil & Grease trap.
b) Primary treatment.
c) Floculation, Sludge Drying Bed, Centrifuge and filter press.
d) Multi Effect Evaporation (MEE) and ATFD.
e) Bio-Reactor .
f) Clarifier & tertiary treatment :
g) RO for MEE distillate water & STP treated water.
The above equipments have been operated with skilled manpower. Online monitoring of effluent/boiler stack has given a thrust to keep the environment protection under control.

The approach of reduce recycle & re-use has been adopted to control the Environment.

STP treated water again taken back to biological system for further reuse in the plant.

PART-I

Any other particulars for improving the quality of the environment.

1) Training program for doing safe operation is given to all operating staff to avoid any damage to environment.

1. Proper preventive maintenance will be ensured to maintain and ensure correct and effective, uninterrupted functioning of Scrubbers & other pollution control equipments.
2. Training to operators are being given for correct operation of Equipments for abatement of Air Pollution and also Effluent Treatment plant.
3. Training program for doing safe operation is given to all operating staff to avoid any damage to environment.

For BHARAT RASAYAN LTD.

(Authorised Signatory)

4. **Quality Management System ISO – 9001-2015, Occupational Health & Safety Management System Standards 45001:2018 & Environmental Management System ISO 14001 : 2015, keep the thrust on team to maintain the environment norms within limits.**

1. **Methods of waste Reduction**:- Continuous process improvement through in House R&D and subsequently implementation in plant through recycle the washings and for minimization of the waste.
2. Mass balance indicating raw material, products, Solid, liquid and gaseous. (Enclosed)
3. Environmental sound layout.
4. **Maintain of Ecological balance by compensatory methods**

Tree plantation

Name of species		No. of Plants.	Age of Plant
a) **TOTAL PLANT** planted	:	6000	-
b) Plan for future tree plantation:	:	500	
c) Utilization of organic waste for manure	:	Nil.	
d) Utilization of Bio- Pesticides for horticulture	:	Nil	

For BHARAT RASAYAN LTD.

(Authorised Signatory)

(Authorised Signatory)

ANNEXURE – X
COPY OF PESO CERTIFICATE

भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
हाल संख्या 502 एवं 507, लेवल-5, ब्लाक II, पुराना सी.जी.ओ. काम्प्लेक्स, एन.एच.4
फरीदाबाद- 121001
Hall No. 502 & 507, Level 5, Block B,
Old CGO Complex, NH-4,
Faridabad - 121001

E-mail : **jtccefaridabad@explosives.gov.in**
Phone/Fax No : **0129 - 2410734, 2410732**

संख्या /No. : **P/HQ/HN/15/329 (P2886)** दिनांक /Dated : **02/01/2024**

सेवा में
/To,

M/s. Bharat Rasayan Limited,
2 km stone, Madina - Mokhra road,
Vill. MOKHRA,
Rohtak,
Taluka: Maham,
District: ROHTAK,
State: Haryana
PIN: 124022

विषय /Sub : **Plot No, VILL. MOKHRA, Village Mokhra, NA, Maham, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124220** में स्थित विद्यमान पेट्रोलियम वर्ग **A,B** अधिष्ठापन में अनुज्ञप्ति सं **P/HQ/HN/15/329 (P2886)** के नवीकरण के संदर्भ में ।
Existing Petroleum Class **A,B** Installation at **Plot No, VILL. MOKHRA, Village Mokhra, NA, Maham, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124220** - Licence No. **P/HQ/HN/15/329 (P2886)** - **Renewal** regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक **OIN1504369** दिनांक **31/10/2023** का अवलोकन करें ।
Please refer to your letter No.: **OIN1504369**, dated **31/10/2023**

अनुज्ञप्ति संख्या **P/HQ/HN/15/329 (P2886)** दिनांक **18/12/2009** को दिनांक **31/12/2026** तक नवीनीकृत कर इस पत्र के साथ अग्रषित की जा रही है ।
Licence No. **P/HQ/HN/15/329 (P2886)** dated **18/12/2009** is forwarded herewith duly renewed upto **31/12/2026**.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें । अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व **Jt. Chief Controller of Explosives, North Circle, Faridabad** कार्यालय को प्रेषित करें ।
Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence **to Jt. Chief Controller of Explosives, North Circle, Faridabad, so as to reach his** office on or before the date on which Licence expires.

कृपया पावती दें।
Please acknowledge the receipt.

भवदीय /Yours faithfully,

((कुंवर पाल सिंह)
(Kunwar Pal Singh))
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
फरीदाबाद/Faridabad

Note:-This is system generated document does not require signature.

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें)
(For more information regarding status,fees and other details please visit our website: http://peso.gov.in)

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : **P/HQ/HN/15/329(P2886)** फीस रूपए (Fee Rs.) **17100**/- per year

M/s. Bharat Rasayan Limited, 2 km stone, Madina - Mokhra road, Vill. MOKHRA, Rohtak, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124022 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम **242.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या **P/HQ/HN/15/329(P2886)** तारीख **11/01/2017** जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती हैं ।

Licence is hereby granted to **M/s. Bharat Rasayan Limited, 2 km stone, Madina - Mokhra road, Vill. MOKHRA, Rohtak, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124022** valid only for the importation and storage of **242.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/HQ/HN/15/329(P2886)** dated **11/01/2017** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2026** तक प्रवृत रहेगी ।
The Licence shall remain in force till the 31st day of December **2026**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	**162.00 KL**
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	**NIL**
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	**80.00 KL**
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	**NIL**
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	**NIL**
कुल क्षमता /Total Capacity	**242.00 KL**

March 11, 1991

Chief Controller of Explosives

1). Amendment dated - 25/08/2006
2). Amendment dated - 18/12/2009

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शी में दिखाई गई हैं **Plot No: VILL. MOKHRA, Village Mokhra, NA, Maham, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124220** स्थान पर अवस्थित है तथा उसमें निम्नलिखित **Six nos. of underground tanks for Class A and three nos. of underground tanks for Class B together with connected facilities.** सम्मिलित हैं |

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at **Plot No: VILL. MOKHRA, Village Mokhra, NA, Maham, Taluka: Maham, District: ROHTAK, State: Haryana, PIN: 124220** and consists of **Six nos. of underground tanks for Class A and three nos. of underground tanks for Class B together with connected facilities.** together with connected facilities.

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Reason: Licence No. : P/HQ/HN/15/329
Location:North Circle [P2886]
Date:02-01-2024 16:19:55 PM

अनुज्ञप्ति संख्या-(Licence No.) P/HQ/HN/15/329 (P2886)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).	21/11/2008	31/12/2011	Sd/- Vinod Kumar
2).	08/11/2011	31/12/2014	Sd/- G K Pandey
3).	23/12/2014	31/12/2017	Sd/- DR SANJAY KUMAR SINGH Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Faridabad
4).	08/11/2017	31/12/2020	Sd/- R.N.Meena Jt. Chief Controller of Explosives Faridabad
5).	11/11/2020	31/12/2023	Sd/- R.N.Meena Jt. Chief Controller of Explosives Faridabad
6).	02/01/2024	31/12/2026	Kunwar Pal Singh Dy. Controller of Explosives For Jt. Chief Controller of Explosives Faridabad

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाए जाते है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमे से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

Note:-This is system generated document does not require signature.

Digitally signed by KUNWAR PAL SINGH
Reason: Licence No. : P/HQ/HN/15/329
Location:North Circle [P2886]
Date:02-01-2024 16:20:12 PM

ANNEXURE – XI
PLANTATION DETAILS

PLANTATION DETAILS

Year:- April-24 to September-24

Species Name	Common Name	No of Trees planted
Dalbergia sissoo	Shisham	10
Euclayptus sp	Blue gum	1000
Terminalia arjuna	Arjun tree	200
Pithecellobium dulce	Tamarind	250
Holoptelea integrifolia	Papri	300
Cascabela thevetia	Kaner	0
Ficus Carcia	Ficus	0
Callistamon lanceolatus	Bottle brush	100

- Survival percentage of Trees are 80 % .

ANNEXURE – XII
CSR DETAILS

CSR Activities

S.No	Social Activity	Date	Amount (Rs)
1	Development of park at village Madina, Rohtak	30.04.2024	2,00,003/-
2	Provided Wall mounted fan to community health centre Village Madina, Rohtak.	07.06.2024	12,156 /-

ANNEXURE – XIII
CONDUCTED TRAINING DETAILS OF WORKERS FOR SAFE HANDLING OF CHEMICALS

ANNEXURE-II

TRAINING ATTENDANCE RECORD

01/09/2024

Subject : filling of Hazardus chemical Date : 10/09/24

Faculty : Laxmi niwas sharma / Amit Kumar Duration : 1.5 Hrs.

Venue : Plant - ATB

Training : Type

(Tick " √ ", whichever is applicable)

(1) On Job training	[√]	(2) As per training schedule	[ ]
(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Manmohan Singh	672	Production	[signature]
02	Vibin	1098	Prodn	[signature]
03	Karanvir Singh	750	"	Karan.
04	Satya veerraju	1025	"	S.V.[signature]
05	Nakil Kumar	818	"	[signature]
06	Varun Kumar	1108	"	[signature]
07	Vimlesh Kumar	811	"	[signature]
08	Sonulal	893	"	[signature]
09	Chander Shekhar Pal	908	"	[signature]
10				

Sign. of Faculty : [signature]

Date : 10/09/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : filling of Hazardous chemical Date : 10/09/24

Faculty : Mr. Amit / Mr Karan Sikka Duration : 15 min Hrs.

Venue : Plant (A1B)

Training : Type (Tick " √ ", whichever is applicable)

(1) On Job training	[✓]	(2) As per training schedule	[ ]
(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
1.	Vishal Kumar	913	Prod^n	[signature]
2	K.S. Bisht	129	Prod^n	[signature]
3.	Umesh Kashyap	964	Prod^n	[signature]
4	Mukul	1133	"	[signature]
5.	Munish Kumar	887	"	[signature]
6.	Manmohan Singh	672	"	[signature]
7.	Pankaj Kumar	1106	"	[signature]

Sign. of Faculty : [signature]

Date : 10/09/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Ajay 01/09/2024

Subject: Filling of Hazardous chamical Date: 10/09/24

Faculty: Mr. Dayanand kumar & Mr. S.K. Jha Duration: 18 mint Hrs

Venue: Plant (A+B)

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Rahul	1023	Production	Rahul
02	Ranjeet	1018	Production	Ranjeet
03	Mithalish	1043	11	
04.	Sonu Kumar.	940	Production	
05.	Akash kumar	1061	11	
06	Not of Emp.	660	11	
07.	Dipanshu Chauhan	1093	Production	Dipanshu
08	Ann Sign	804	Production	
09	Jitendra kumar	745	Prod	

Sign. of Faculty: .....

Date 10/09/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

ANNEXURE-II

TRAINING ATTENDANCE RECORD

01/09/24

Subject : Filling of Hazardous Chemical Date : 10.09.24

Faculty : Sohanbir / Narendra Singh Duration : 15 min : Hrs.

Venue : Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01.	Pramod Kumar	925	Production	
02.	Pradeep Kumar Yadav	365	Production	
03.	Rajeev Kumar	593	"	
04.	Jaspal	942	"	
05	Atul	902	"	
06	Abhishek Prajapati	1118	"	
07	Amankumar	1109	"	
08	Anuj Kumar	891	"	

Sign. of Faculty : Singh

Date : 10/09/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

Shift-- B

CONTROLLED COPY 01/09/2024

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : Filling of Hazardous Chemical Date : 10/09/24

Faculty : Mr. Satender yadav / Satyakeli Singh Duration : 15 M Hrs.

Venue : Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[ ]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
1.	Arvind Kumar	937	Production	Arvind
2.	Narder Singh	1094	Production	
3.	Sundeep	1006	Production	Sundeep
04.	Harvindra Singh	1019	Production	HSingh
05	R.SINGH	215	Production	
06	Surendra Singh	1040	Production	
07	Sumit chauhan	884	"	
08	Dhanenjay	535	production	
09	Vijay Krishna Mishra	726	Production	

Sign. of Faculty : Satyadeo

Date : 10/09/24

ANNEXURE-II

TRAINING ATTENDANCE RECORD

CONTROLLED COPY 01/09/202

Subject : Importance of MSDS Date : 11/09/2024

Faculty : Ms. Sohan Deen / Narendra Singh Duration : 15 Min Hrs.

Venue : Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ramesh Chandra	605	Production	Ramesh
02	Sohanveer	836	"	Sohan
03	Amarkumar	1100	"	Amar
04	Abhishek Prajapati	1118	"	Abhishek
05	Pradip Kamuryadav	365	"	Pradip
06	Rajeev Sharma	597	"	R
07	Rajkumar	934	"	Raja
~~08~~	~~Sundeep~~	~~1006~~	~~Production~~	~~Sundeep~~

Sign. of Faculty : Sohan

Date : 11/09/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

shift - B

CONTROLLED COPY 01/09/24

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : Importance of MSDS Date : 11.09.24

Faculty : Mr. Satender yadav / Ashutosh Sharma Duration : 15 min. Hrs.

Venue : Safty Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Brahma Nand.	0681	Production	B Anand
02	Arvind Kumar	0937	"	Anil
03	Sundeep	1006	Production	Sundeep
04	Atul	902	"	Atul
05	Deepak	1002	"	Deepak
06	Ajay Sharma	399	"	

Sign. of Faculty : Yadav

Date : 11/09/24

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : Importance of MSDS Date : 11/09/24

Faculty : VIJAY Singh / SANJAY Singh Duration : 15 minat Hrs.

Venue : Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [√]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	ASHISH	716	Prod^{n}	
02	Sushil	095	Prod^{n}	
03	Parshu Ram	0866	Production	
04	Ritik Kumar	1075	Production	R Kumar
05	Wazeeb Kumar Upadhyay	1184	"	
06	Bhopal Singh	644	Production	B. Singh
07	Actin Kumar	1005	Production	
08	Mosin	855	Prod^{n}	
09	Sunil	482	"	

Sign. of Faculty : .....

Date 11/09/2024

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Importance of MSDS Date: 11/9/24

Faculty: Aditya Sir Duration: 0.5 Hrs.

Venue: Plot A - 0 1st floor

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ritesh Kumar Mishra	711	production	
02	Pardeep Sharma	1135	Production	Pardeep
03	Arvind Kumar	1136	Production	Arvind Kumar
04	Sachin Kumar	911	"	
05	Sachin Kumar	1092	Production	
06	Satya veer	1025	"	
07	Vinod Kumar	842	"	
08	Varun Kumar	1108	"	Varun

Sign of the Faculty :

Date : 11/9/24

ANNEXURE-II

TRAINING ATTENDANCE RECORD

CONTROLLED COPY 01/04/2024

Subject : Conformance of MSDS Date : 11/09/24

Faculty : Mithilesh Singh Duration : 0.5 Hrs.

Venue : Plant-C

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [√]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Amankumar	1109	Production	Aman
02	Ramesh Chandra	605	"	Ramesh
03	Jaspal	942	"	Jaspal
04	Sumit chauhan	884	"	Sumit
05	Narendra Singh	766	Production	Singh.
06	Nirdosh kumar	1084	"	Nirdosh

Sign. of Faculty : Mithilesh Singh

Date : 11/09/2024

SOP No. : SOP/HR/002 Format No. : HR/002/F2

ANNEXURE-II

TRAINING ATTENDANCE RECORD

01/09/2024

Subject : M.S.D.S. Date : 11/05/24

Faculty : Plant A+B Duration : 15 min Hrs.

Venue : Karan Singh / Amit

Training : Type (Tick " √ ", whichever is applicable)

(1) On Job training	[√]	(2) As per training schedule	[ ]
(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
1.	Vishal Kumar	913	Prodn	
2.	Mohandeep Singh.	513	Prodn.	
3.	Ramniwas yadav	120	"	
4.	Umesh Kanbal	964	Prodn	
5	Ramjeet	1018	Production	

Sign. of Faculty : .....

Date : 11.05/24

SOP No. : SOP/HR/002 Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

A... 13/09/2023

Subject: MSDS Date: 2/9/2024

Faculty: Aditya Singh Duration: 0.5 Hrs.

Venue: Plant-C 1st floor

Training Type: (Tick "✓", whichever is applicable)

(1) On Job training	[✓]	(2) As per training schedule	[ ]
(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
1	Rammi Kant Singh	310	Production	[signature]
2	ASHISH	716	"	Ashish
3	Sunil Yadav	482	"	[signature]
4.	Vineet Kumar	941	"	[signature]
5.	Nipendra	1085	"	Nipendra
6	[illegible]	8827	"	[signature]
7	Ankul Kumar	1110	Prod"	[signature]
8	Ritik Kumar	1075	Prodn	R.Kumar
09	Naveen Kumar Sharma	484	Produ	[signature]
10	Sunjay	4935	"	[signature]
11	Bijendar	5158	"	[signature]
12.	Dharmendra	7344	"	[signature]

Sign of the Faculty : [signature]

Date : 2/9/2024

SOP No.: SOP/HR/002

Format No. : HR/002/F2-00

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Arif 01/09/2024

Subject: Caustic hazards & Precautions Date: 23/09/2024

Faculty: Aditya Sf Duration: 25 min Hrs.

Venue: Plant-A B G.F. Floor

Training Type: (Tick "√", whichever is applicable)

(1) On Job training	[√]	(2) As per training schedule	[ ]
(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO		(10) Others	[ ]

Evaluation: Written Questionnaire [ ] Oral [√]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Md Ali	660	Prodn	[signature]
02	Sobit Kumar	868	"	[signature]
03.	Amit Kr.	1074	"	[signature]
04	Mithilesh Kumar	1043	"	[signature]
05.	SACHIN MAURYA	1128	"	[signature]

Sign. of Faculty: [signature]

Date: 23/9/24

SOP No.: SOP/HR/002

Format No.: HR/002/F2-00

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : Caustic Hazards Date : 23/09/24

Faculty : Mr. Ashutosh Sharma / Narendra Singh Duration : 15 mint :Hrs.

Venue : Safety training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [√]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
1	Mosin	855	Prod^n	Mosin
2	Arjun	1079	Production	Arjun
3	Deepak Kumar.	1107	Production	DK
4	ASHISH	716	" "	Ashish
5	Brijesh. Kumar	1132	Production	Brijesh
6	Ankul kumar	1110	Prod^n	A
7	Sunil Kr Yadav	402	"	
8.	Ritik Kumar	1075	Production	R Kumar

Sign. of Faculty : Narendra Singh

Date : 23/09/24

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject : Caustic Hazards Date : 23/09/2024

Faculty : Mr. Gyanendra Singh / Lohan Beer Duration : 15 Min Hrs.

Venue : Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[√]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [√]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Amit chauhan	884	Production	
02	Parshuram	866	Production	
03	Rajkumar	934	"	Rajkumar
04	Kapil Kumar	848	Production	
05	Bhubnesh Kumar.	1131	Production	B.Kumar.
06	Pramod Kumar	925	"	

Sign. of Faculty : Lohan

Date : 23/09/2024

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Subject: Captie Hazards Date: 23/09/24

Faculty: mr. Satendra yadav / mr Satyafety Singh Duration: 15 Hrs.

Venue: Safety Training

Training : Type	(Tick " √ ", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO		(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
1	Harvinder Singh	1019	Production	H Singh
2	Aravind Kumar	937	11	Arvi
3.	Sundeep	1006	production	Sundeep
4.	Atul	902	Production	Atul
5.	Vijay Krishna Mishra	726	Production	
6.	Nardev Singh	1094	Production	

Sign. of Faculty: Satendra yadav

Date : 23/09/24

Shift C

ANNEXURE-II

TRAINING ATTENDANCE RECORD

Date: 06/09/2024

Subject: Importance of Labeling

Faculty: Karan Singh / Devendra Kumar

Duration: 1.5 m. Hrs.

Venue: Plant A+B

Training: Type

(Tick " √ ", whichever is applicable)

(1) On Job training	[√]	(2) As per training schedule	[ ]
(3) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, Motivation	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP (9) ISO	[ ]	(8) Incident based training	[ ]
		(10) Others	[ ]

Evaluation: Written Questionnaire [ ] Oral [ ]

Sr.No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Jitendra Kumar	745	Production	
2.	Ramniwas yadav	120	"	
3.	Vishal Kumar	913	"	
4.	Ravindra Singh	475	"	Ravindra
5.	Dipanshu chauhan	1093	"	Dipanshu
6.	Suraj Bhan	1125	"	
7.	Mahul Chauhan	1193	"	
8.	Anand Singh	939	Production	
9	Mithalesh Kumar	1043	"	
10	Sunil Kumar	1010	"	
11	Rahul	1075	Production	

Sign. of Faculty:

Date: 06/09/24

Annexure-II

TRAINING ATTENDANCE RECORD

CONTROLLED COPY 30/08/2024 QA

Subject: Chlorine & Bromine Handling Date: 30/08/2024

Faculty: Rahul Goxulani Duration: 30 MIN Hrs.

Venue: R. M. Store & chlorine Storage

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[✓]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP	[✓]	(6) Training on new Documentation	[ ]
	Safety, motivation, (7) Training on SOP	[✓]	(8) Incident based training	[✓]
	(9) ISO	[ ]	(10) Others	[✓]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ashok	5225	R. M. Store	Ashok
02	Rajesh	4006	"	Rajesh
03	Vinod	4943	"	Vinod
04	Pawan	4995	"	Pawan
05	Vijay	4910	"	Vijay
06	Amit	5187	"	Amit
07	Mohit	5212	"	Mohit
08	Jaipal	4996	"	Jaipal
09	Gulab	7366	"	Gulab
10	Rahul	4972	"	Rahul
11	Anil	7365	"	Anil
12	Sanjay	5095	"	Sanjay

Sign of the Faculty: Rahul

Date : 30/08/2024

Annexure-II

TRAINING ATTENDANCE RECORD

Subject : Material Handling. Date: 6/8/24

Faculty : Mithilesh Singh Duration: 05 Hrs.

Venue : AB Plant

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP Safety, motivation,	[ ]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01.	Anand Singh	0939	Production	
02	Rahul	1076	Production	
03	Mithilesh Kumar	1043	"	
04	SHUBHAM	988	"	
05	Gaurav Singh.	909	"	
06	Vishal Kumar	913	"	
07	Ujjwal Kumar	1020	"	
08	Umesh Yadav	964	"	
09	te Akash Sikdar	083	"	Akash

Sign of the Faculty : Mithilesh

Date : 6/8/24

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: How to Attend Ammonia leakage. Date: 3/8/2024

Faculty: mithilesh Singh. Duration: 0.5 Hrs.

Venue: Plant-6

Training Type: (Tick "✓", whichever is applicable)

(1) On Job training [✓]	(2) As per training schedule [ ]
(2) Training need identification [ ]	(4) Training from external agencies [ ]
(5) Training on GMP, GLP, GDP Safety, motivation, [ ]	(6) Training on new Documentation [ ]
(7) Training on SOP [ ]	(8) Incident based training [ ]
(9) ISO [ ]	(10) Others [ ]

Evaluation: Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
1.	Vijay Krishna Mishra	726	Production	[signature]
2.	Gajender Singh	121	"	[signature]
03	Ramesh Chandra	605	"	Ramesh
04	Manmohan singh	672	"	[signature]
05	Brijesh Kumar Singh	1034	"	Brijesh
06	Abhishek Bajpai	1119	"	Abhishek
07	Pradeep Kr yadav	365	"	[signature]
08	Sohanvir	836	"	[signature]

Sign of the Faculty: Mithilesh [signature]

Date: 03/08/2024

SOP No.: SOP/HR/002

Format No.: HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

CONTROLLED COPY — QA — 13/09/2023

Subject : Chemical handling Date: 7/8/23

Faculty : Aditya Singh / Mithilesh Duration: 0.5 Hrs.

Venue : A+B Plant 1st floor

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others Chemical handling	[✓]
Evaluation : Written Questionnaire		[ ]	Oral	[✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ranjeet Kumar	1018	Production	Ranj
02	Bijyesh Pal	1111	Production	Pal
03	Sunil Kumar	1010	Production	Sunil
04	Ravindra Singh	475	Production	Ravindra
05	Mithalesh Kumar	1043	"	M
6.	Vishal Kumar	913	"	VK
07	Sachin Maurya	1128	Production	Sm
08	K. S. Bisht	129	Production	KSB
09	Devendra Kumar	380	Prodn	DK

Sign of the Faculty : Aditya

Date : Aditya 13/9/23

SOP No.: SOP/HR/002 Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Chemical Powder Safety Date: 13/8/24

Faculty: Mithilesh Singh Duration: 0.5 Hrs.

Venue: On our Side

Training Type: (Tick "✓", whichever is applicable)

(1) On Job training [✓]
(2) As per training schedule [ ]
(2) Training need identification [ ]
(4) Training from external agencies [ ]
(5) Training on GMP, GLP, GDP Safety, motivation, [ ]
(6) Training on new Documentation [ ]
(7) Training on SOP [ ]
(8) Incident based training [ ]
(9) ISO [ ]
(10) Others [ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
1	Bijendra	4878	Civil	[signature]
2	Kuldeep	5156	"	KULDEEP
3	Amit	4951	"	[signature]
4	Deepak	5119	"	Deepak
5	Rajmal	3012	"	[signature]
6	Sunil	5124	"	Sunil
7	Kaushal	7387	"	[signature]
~~8~~	~~Jay Ram~~	—	—	—
8	Wazan hariyan Singh	4888	Civil	[signature]
9	Maha Singh	5176	"	mahasingh
10	B. Suresh	3247	"	[signature]
11	Anshul	4976	"	Anshul
12	Hargobind	4332	"	Hargovind
13	Amit	5224	"	Amit
14	Balmukund	NA	Insulation	Blmukand

Sign of the Faculty: Mithilesh [signature]

Date : 13/8/24

SOP No.: SOP/HR/002 Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

Subject : Chemical Powder Safety Date: 13/8/24

Faculty : Mithilesh Singh Duration: 0.5 Hrs.

Venue : Dev out side

Training Type (Tick "✓", whichever is applicable)

(1) On Job training	[✓]	(2) As per training schedule	[ ]
(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
(7) Training on SOP	[ ]	(8) Incident based training	[ ]
(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
1	Ramkawal	4873	Painter	[signature]
2	Surjeet	9482	"	[signature]
3	Takdir	4004	"	[signature]
4	Rambir	7376	"	Rambir
5	Gulab	7375	"	Gulab
6	Sagar	9502	"	Sagar
7	Parma	4998	"	[signature]
8	Devendra	4966	"	[signature]
9	Kapil	4884	"	Kapil
10	Mohit	9509	"	Mohit
11	Vipin	4876	"	Vipin
12	Sombir	5215	"	Sombir
13	Nand Jee	3066	"	[signature]

Sign of the Faculty : Mithilesh [signature]

Date : 13/8/24

SOP No.: SOP/HR/002

Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Safe handling of Chemical Date: 21/08/2014

Faculty: Aditya Pal Duration: 30 minutes.

Venue: Plant-C G.F

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ravinder	4920	Production	Ravinder
02	Deepak	5206	Production	Deepak
03	Suresh	5216	Production	Suresh
04	Rattan	4925	Production	Rattan
05	Ankit	5169	Production	Ankit
06	Sachin	5160	"	Sachin
07	Sunil	5230	"	Sunil
08	Ravinder	5195	"	Ravinder
09	Yogender	7369	"	Yogender

Sign of the Faculty:

Date: 21/08/2014

SOP No.: SOP/HR/002 Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Chemical Handling Date: 29/07/2024

Faculty: O.P Yadav Duration: 30 MIN Hrs.

Venue: R.M.S

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[✓]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP	[ ]	(6) Training on new Documentation	[ ]
	Safety, motivation, (7) Training on SOP	[✓]	(8) Incident based training	[✓]
	(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	ASHOK	5225	R.M store	Ashok
02	Vinod	4943	"	Vinod
03	Mohit	5212	"	MOHIT
04	Vijay	4910	"	Vijay
05	Pawan	4995	"	Pawan
06	Paramjeet	5186	"	Paramjeet
07	Surender	4944	"	Surender
09	Amit	5187	"	Amit
10	Nayeen	4988	"	Nayeen
11	Anil	7365	"	Anil
12	Gulab	7366	"	Gulab

Sign of the Faculty : OPY

Date : 29/07/2024

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Chemical Safety Date: 18/6/24

Faculty: Mithilesh Singh. Duration: 1.5 Hrs.

Venue: Conference Room

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[ ]	(2) As per training schedule	[✓]
	(2) Training need identification	[✓]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP	[ ]	(6) Training on new Documentation	[ ]
	Safety, motivation, (7) Training on SOP	[ ]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[ ]

Evaluation : Written Questionnaire [ ] Oral [ ]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	ABHISHEK PRAJAPATI	1118	Production	Abhishek P.
02	ABHISHEK YADAV	1119	"	Abhishek
03	Amankuman	1109	"	Aman
04	Himanshu	1122	ETP	Himanshu
05	Varun kumar	1108	Production	Varun
06	Vijay	1098	Production	Vijay
07	Vishal Rathore	1105	Production	Rathore
08	Atul	2067	"	A
09	Sachin KUMAR	1092	Production	Sachin
10	Suraj Bhan	1125	production	S
11	Deepak	687	EHS	Deepak

Sign of the Faculty: Mithilesh

Date : 18/06/2024

SOP No.: SOP/HR/002 Format No. : HR/002/F2-00

Annexure-II

TRAINING ATTENDANCE RECORD

Subject : Chlorine & Bromine Handling Date: 29/05/24

Faculty : Rahul Vaswani Duration: 30 MIN Hrs.

Venue : R. M. Store

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[ ]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[✓]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[✓]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Ramesh	5204	R M Store	
02	Manjeet	5142	〃	Manjeet
03	Paramjeet	5186	〃	Paramjeet
04	Gulab	7366	〃	Gulab
05	Surendra	4944	〃	
06	Ajay	5125	〃	Ajay
07	Rajbir	5203	〃	29/5/24
08	Anil	7365	〃	
09	Rahul	4972	〃	Rahul
10	Mohit	5211	〃	Mohit
11	Vinod	4943	〃	Vinod
12	Vijay	4910	〃	29/5/24
13	Sanjay	5205	〃	29/5/24
14	Prakash	5138	〃	Prakash
15	O.P Yadav	041	〃	
16	Amit	Driver	〃	

Sign of the Faculty : Rahul

Date : 29/05/24

Annexure-II

TRAINING ATTENDANCE RECORD

Subject: Chemical Handling Date: 29/04/24

Faculty: Rahul Goswami Duration: 30 MIN Hrs.

Venue: R. M. store

Training : Type	(Tick "✓", whichever is applicable)			
	(1) On Job training	[✓]	(2) As per training schedule	[✓]
	(2) Training need identification	[ ]	(4) Training from external agencies	[ ]
	(5) Training on GMP, GLP, GDP Safety, motivation,	[ ]	(6) Training on new Documentation	[ ]
	(7) Training on SOP	[✓]	(8) Incident based training	[ ]
	(9) ISO	[ ]	(10) Others	[✓]

Evaluation : Written Questionnaire [ ] Oral [✓]

Sr. No.	Employee's Name	Employee's Code	Department	Employee's Signature
01	Surendra	4944	R. M. store	Surendra
02	manjeet	5142	"	manjeet
03	Ajay	5125	"	Ajay.
04	Ajay	5162	"	Ajay
05	Gulab	7366	"	Gulab
06	Paramjeet	5186	"	Paramjeet
07	Vijay	4899	"	Vijay
08	Vijay	4910	"	Vijay
09	Naveen	5150	"	Naveen
10	sunni	5164	"	Sunny
11	Anil	7365	"	Anil
12	Vinod	4943	"	Vinod
13	sanjay	5095	"	Sanjay
14	Amit	Driver	"	Amit
15	O. P. Yadav	091	"	O. P. Yadav
16	Tejveer	Driver		Tejveer

Sign of the Faculty: Rahul

Date : 29/04/24

ANNEXURE – XIV
TEST REPORTS

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4057223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

DOC No. HTH/QF/7.8

TC-7811

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

TEST REPORT

Issued To:		
BHARAT RASAYAN LIMITED,	Report No.	: HTH/EP/240604024
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak	ULR No.	: TC781124100004266F
	Party's Ref No.	: Nil
	Booking Date	: 04/06/2024
	Period of Testing	: 04/06/2024To 10/06/2024
	Reporting Date	: 10/06/2024

Sample Description	: Stack Emission (Thermopack)
Type of Industry	: Agro Chemical Industry
Name of Plant/ Section	: Thermopack Section
Date of sampling	: 03/06/2024
Capacity of Boiler	: **2+2 Lac. Kcal./ Hrs & 6 Lac. Kcal./ Hrs**
Source of Emission	: Stack Attached to Thermopack & Boiler
Instrument used	: Stack Sampler VSS1 (Sr.No. 247 DTK 2019)
Instrument Calibration Status	: Calibrated (upto 17.12.2024)
Type of stack	: Metal
Type of Fuel used	: Briquettes /LPG
Stack height (from the ground level)	: 30 Meter
Stack diameter (at the sampling point)	: 1.0 Meter
Sample Location	: From the port hole
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative
Type of APCM	: Bag House

A Observations

1.	Stack gas temperature, ºC	: 131.0
2.	Temperature at Metering point, ºC	: 41.0
3.	Avg. stack gas velocity, m/sec	: 7.56
4.	Sampling flow rate, Lt./min.	: 24.0
5.	Period of sampling, Minutes	: 30.0
6.	Volumetric flow rate, Nm3/ Hr	: 15482.78

B Results

S.N.	Test Parameters	Units	Result	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	Particulate Matter (PM)	mg/Nm3	50.15	80 Max	IS 11255 (Part-I) : 1985
2	Sulphur Dioxide (SO2)	mg/Nm3	7.85	50 Max	HTH/QF/7.2/2/CH-02, SOP No-23
3	Nitrogen Dioxide (NO2)	mg/Nm3	26.34	50 Max	HTH/QF/7.2/2/CH-02, SOP No-23
4	Carbon Dioxide (CO2)	% v/v	6.10	-	HTH/QF/7.2/2/CH-02, SOP No-23

End of Report

Remarks : Standard Limit as per Commission for Air Quality Management in NCR and Adjoining Areas F.NO.A- 110018101/2021-CAQM/7267-7298,dated: 17.03.2022.

HTH LABORATORIES PVT. LTD. PANIPAT

Auth. Sign. 10/06/24

Md. Asfaq Ansari
Sr. Manager (Env.)

Review by

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

DOC No. HTH/QF/7.8

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	: **HTH/EP/240604025**
Party's Ref No.	: Nil
Booking Date	: 04/06/2024
Period of Testing	: 04/06/2024To 10/06/2024
Reporting Date	: 10/06/2024

Sample Description	: Stack Emission (Process-CL2 Scrubber)
Type of Industry	: Agro Chemical Industry
Name of Plant/ Section	: Process Stack Multi Purpose/ Plant-8
Date of sampling	: 03/06/2024
Source of Emission	: Stack Attached to CL2 Scrubber
Instrument used	: Stack Sampler APM 160 (Sr.No. 88 DTL 2016)
Instrument Calibration Status	: Calibrated (upto 17.12.2024)
Type of Chimney	: HDPE
Type of Fuel used	: Not Specified
Stack height (from the ground level)	: 17 meter
Stack diameter (at the sampling point)	: 6.3 cm
Sample Location	: From the port hole
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative

A Observations

1. Stack gas temperature, ºC	: NA
2. Temperature at Metering point, ºC	: NA
3. Avg. stack gas velocity, m/sec	: NA
4. Sampling flow rate, Lt./min.	: 2.0
5. Period of sampling, Minutes	: 30.0
6. Volumetric flow rate, Nm3/ Hr	: NS

B Results

S.N.	Test Parameters	Units	Results	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	CL2	mg/Nm3	BLQ(LOQ:0.3)	5 Max	CPCB Guidelines

End of Report

10.06.2024
Review by

Md. Wafai Ansari
Sr. Manager (Env.)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	:	**HTH/EP/240604026**
Party's Ref No.	:	Nil
Booking Date	:	04/06/2024
Period of Testing	:	04/06/2024To 10/06/2024
Reporting Date	:	10/06/2024

Sample Description	:	Stack Emission (Process-HBr Scrubber)
Type of Industry	:	Agro Chemical Industry
Name of Plant/ Section	:	Process Stack Multi Purpose/ Plant-B
Date of sampling	:	03/06/2024
Source of Emission	:	Stack Attached to HBr Scrubber
Instrument used	:	Stack Sampler APM 160 (Sr.No. 88 DTL 2016)
Instrument Calibration Status	:	Calibrated (upto 17.12.2024)
Type of Chimney	:	HDPE
Type of Fuel used	:	Not Specified
Stack height (from the ground level)	:	17 meter
Stack diameter (at the sampling point)	:	6.3 cm
Sample Location	:	From the port hole
Purpose of sampling	:	Monitoring
Sample collected by	:	By our Lab. Representative

A Observations

1. Stack gas temperature, °C	:	NA
2. Temperature at Metering point, °C	:	NA
3. Avg. stack gas velocity, m/sec	:	NA
4. Sampling flow rate, Lt./min.	:	2.0
5. Period of sampling, Minutes	:	30.0
6. Volumetric flow rate, Nm3/ Hr	:	NS

B Results

S.N.	Test Parameters	Units	Results	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	HBr	mg/Nm3	BLQ(LOQ:2.7)	5 Max	CPCB Guidelines

End of Report

Review by

Md. Arif Ansari
Sr. Manager (Env.)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	:	**HTH/EP/240604027**
Party's Ref No.	:	Nil
Booking Date	:	04/06/2024
Period of Testing	:	04/06/2024To 10/06/2024
Reporting Date	:	10/06/2024

Sample Description	:	Stack Emission (Process-HCL Scrubber)
Type of Industry	:	Agro Chemical Industry
Name of Plant/ Section	:	Process Stack Multi Purpose/ Plant-B
Date of sampling	:	03/06/2024
Source of Emission	:	Stack Attached to HCL Scrubber
Instrument used	:	Stack Sampler APM 160 (Sr.No. 88 DTL 2016)
Instrument Calibration Status	:	Calibrated (upto 17.12.2024)
Type of Chimney	:	HDPE
Type of Fuel used	:	Not Specified
Stack height (from the ground level)	:	17 meter
Stack diameter (at the sampling point)	:	6.3 cm
Sample Location	:	From the port hole
Purpose of sampling	:	Monitoring
Sample collected by	:	By our Lab. Representative

A Observations

1. Stack gas temperature, °C	:	NA
2. Temperature at Metering point, °C	:	NA
3. Avg. stack gas velocity, m/sec	:	NA
4. Sampling flow rate, Lt./min.	:	2.0
5. Period of sampling, Minutes	:	30.0
6. Volumetric flow rate, Nm3/ Hr	:	NS

B Results

S.N.	Test Parameters	Units	Results	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	Acid Mist	mg/Nm3	6.18	20 Max	EPA Method 8: 1996

End of Report

Review by

HTH LABORATORIES PVT. LTD. PANIPAT

Md. Gafar Ansari
Sr. Manager (Env.)

DOC No. HTH/QF/7.8

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak

Report No.	: HTH/EP/240604028
Party's Ref No.	: Nil
Booking Date	: 04/06/2024
Period of Testing	: 04/06/2024To 10/06/2024
Reporting Date	: 10/06/2024

Sample Description	: Stack Emission (Process-SO2 Scrubber)
Type of Industry	: Agro Chemical Industry
Name of Plant/ Section	: Process Stack Multi Purpose/ Plant-B
Date of sampling	: 03/06/2024
Source of Emission	: Stack Attached to SO2 Scrubber
Instrument used	: Stack Sampler APM 160 (Sr.No. 88 DTL 2016)
Instrument Calibration Status	: Calibrated (upto 17.12.2024)
Type of Chimney	: HDPE
Type of Fuel used	: Not Specified
Stack height (from the ground level)	: 17 meter
Stack diameter (at the sampling point)	: 6.3 cm
Sample Location	: From the port hole
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative

A Observations

1. Stack gas temperature, ºC	: NA
2. Temperature at Metering point, ºC	: NA
3. Avg. stack gas velocity, m/sec	: NA
4. Sampling flow rate, Lt./min.	: 2.0
5. Period of sampling, Minutes	: 30.0
6. Volumetric flow rate, Nm3/ Hr	: NS

B Results

S.N.	Test Parameters	Units	Results	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	Sulphur Dioxide (SO2)	mg/Nm3	16.27	200 Max	HTH/QF/7.2/2/CH-02, SOP No-23

End of Report

Review by

HTH LABORATORIES PVT. LTD. PANIPAT

Authorised Signatory

Mr. Ashak Ansari

Sr. Manager (Env.)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:		
BHARAT RASAYAN LIMITED,	Report No.	: HTH/EP/240604029
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak	ULR No.	: TC781124100004268F
	Party's Ref No.	: Nil
	Booking Date	: 04/06/2024
	Period of Testing	: 04/06/2024To 10/06/2024
	Reporting Date	: 10/06/2024

Sample Description	: Stack Emission (DG 750 + 750 + 750 KVA)
Type of Industry	: Agro Chemical Industry
Name of Plant/ Section	: DG Section
Date of sampling	: 04/06/2024
Capacity of DG	: **DG 750 + 750 + 750 KVA**
Source of Emission	: Stack Attached to DG Set
Instrument used	: Stack Sampler VSS1 (Sr.No. 247 DTK 2019)
Instrument Calibration Status	: Calibrated (upto 17.12.2024)
Type of stack	: Metal
Type of Fuel used	: HSD
Stack height (from the ground level)	: 30 meter
Stack diameter (at the sampling point)	: 1 meter
Sample Location	: As Per Standard Norms
Purpose of sampling	: Monitoring
Sample collected by	: By our Lab. Representative

A Observations

1.	Stack gas temperature, ºC	: 285.0
2.	Temperature at Metering point, ºC	: 43.0
3.	Avg. stack gas velocity, m/sec	: 17.81
4.	Sampling flow rate, Lt./min.	: 19.0
5.	Period of sampling, Minutes	: 30.0
6.	Volumetric flow rate, Nm3/ Hr	: 26408.17

B Results

S.N.	Test Parameters	Units	Result	Standard Limit as per CPCB	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	Particulate Matter (PM)	mg/Nm3	41.26	50 Max	IS 11255 (Part-I) : 1985
2	Nitrogen Dioxide (NO2)	mg/Nm3	162.72	650 Max	HTH/QF/7.2/2/CH-02, SOP No-23
3	Carbon Monoxide (CO)	mg/Nm3	61.45	100 Max	HTH/QF/7.2/2/CH-02, SOP No-23
4	Oxygen (O2)	%	12.10	-	HTH/QF/7.2/2/CH-02, SOP No-23
5	Total Non-Methyl Hydro Carbon (NMHC)	mg/Nm3	26.80	100 Max	IS 5182 : Part 21 : 2001

End of Report

Remarks : PM, NO2 & CO value Corrected @ 15 % O2.
Standard Limit as per Commission for Air Quality Management in NCR and Adjoining Areas Act, 2021 F.No.A-11018/01/2021-CAQM/15322-15331 Dated; 29.09.2023.

Review by

HTH LABORATORIES PVT. LTD. PANIPAT

Md. Gafar Ansari
Sr. Manager

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak

Report No.	:	HTH/EP/240604030
ULR No.	:	TC781124100004267F
Party's Ref No.	:	Nil
Booking Date	:	04/06/2024
Period of Testing	:	04/06/2024To 10/06/2024
Reporting Date	:	10/06/2024

Sample Description	:	Stack Emission (Boiler- 8 TPH)
Type of Industry	:	Agro Chemical Industry
Name of Plant/ Section	:	Boiler Section
Date of sampling	:	03/06/2024
Capacity of Boiler	:	**8 TPH**
Source of Emission	:	Stack Attached to Boiler
Instrument used	:	Stack Sampler VSS1 (Sr.No. 247 DTK 2019)
Instrument Calibration Status	:	Calibrated (upto 17.12.2024)
Type of stack	:	Metal
Type of Fuel used	:	Biomass Briquettes
Stack height (from the ground level)	:	30 meter
Stack diameter (at the sampling point)	:	1 meter
Sample Location	:	As Per Standard Norms
Purpose of sampling	:	Monitoring
Sample collected by	:	By our Lab. Representative
Type of APCM	:	ESP

A Observations

1. Stack gas temperature, ºC	:	141.0
2. Temperature at Metering point, ºC	:	42.0
3. Avg. stack gas velocity, m/sec	:	8.14
4. Sampling flow rate, Lt./min.	:	26.0
5. Period of sampling, Minutes	:	30.0
6. Volumetric flow rate, Nm3/ Hr	:	16267.95

B Results

S.N.	Test Parameters	Units	Result	Standard Limit	Test Method
Discipline: Chemical, Group: Atmospheric Pollution					
1	Particulate Matter (PM)	mg/Nm3	69.01	80 Max	IS 11255 (Part-I) : 1985
2	Sulphur Dioxide (SO2)	mg/Nm3	5.24	50 Max	HTH/QF/7.2/2/CH-02, SOP No-23
3	Nitrogen Dioxide (NO2)	mg/Nm3	30.10	50 Max	HTH/QF/7.2/2/CH-02, SOP No-23
4	Carbon Dioxide (CO2)	% v/v	5.90	-	HTH/QF/7.2/2/CH-02, SOP No-23

End of Report

Remarks : Standard Limit as per Commission for Air Quality Management in NCR and Adjoining Areas F.NO.A- 11001810l/2021-CAQM/7267-7298,dated: 17.03.2022.

10.06.2024

Review by

HTH LABORATORIES PVT. LTD. PANIPAT

Md. Ashak Ansari

Sr. Manager

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

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Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	:	**HTH/EP/240605002**
ULR No.	:	**TC781124100004346F**
Party's Ref No.	:	Nil
Booking Date	:	05/06/2024
Period of Testing	:	05/06/2024To 12/06/2024
Reporting Date	:	12/06/2024

Sample Description	:	Effluent Water Sample (ETP-Inlet)
Type of Industry	:	Agro Chemical Industry
Sample type	:	**Effluent Water Sample (ETP-Inlet)**
Date of sampling	:	05/06/2024
Date of receipt of sample	:	05/06/2024
Sample Location	:	ETP-Inlet
Sample quantity	:	2 Ltr.
Purpose of analysis	:	Monitoring
Sample collected/ supplied by	:	By our Lab. Representative

TEST RESULTS

S.N.	Test Parameters	Unit	Result	Test Method
1	Odour	--	Foul	IS 3025 (Part 5): 2018
2	pH	--	4.86	IS 3025 (Part 11): 2022
3	Total Suspended Solids	mg/l	312.0	IS 3025 (Part 17): 2022
4	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/l	2649.0	IS 3025 (Part 44): 2022
5	Chemical Oxygen Demand(COD)	mg/l	17824.0	IS 3025 (Part 58): 2023
6	Oil & Grease	mg/l	25.3	IS 3025 (Part 39): 2021
7	Ammonical Nitrogen (as N)	mg/l	BLQ(LOQ 1.0)	IS 3025 (Part 34): 1988
8	Cyanide (as CN)	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part 27/Sec-1): 2021
9	Phenolic Compound (C6H5OH)	mg/l	0.12	IS 3025 (Part 43/Sec-1): 2022
10	Arsenic (as As)	mg/l	BLQ(LOQ:0.1)	HTH/QF/7.2/2/ICP-01, SOP No-21
11	Copper (as Cu)	mg/l	0.30	HTH/QF/7.2/2/ICP-01, SOP No-21
12	Manganese (as Mn)	mg/l	1.00	HTH/QF/7.2/2/ICP-01, SOP No-21
13	Zinc (Zn)	mg/l	0.22	HTH/QF/7.2/2/ICP-01, SOP No-21

End of Report

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

Reviewed by 12-6-24

HTH LABORATORIES PVT. LTD. PANIPAT

Auth. Sign.

Basudev Singh

T. M. (Chemical)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

DOC No. HTH/QF/7.8

TC-7811

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TEST REPORT

Issued To:		Report No.	: HTH/EP/240605003
BHARAT RASAYAN LIMITED,		ULR No.	: TC781124100004347F
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak		Party's Ref No.	: Nil
		Booking Date	: 05/06/2024
		Period of Testing	: 05/06/2024To 12/06/2024
		Reporting Date	: 12/06/2024

Sample Description	:	Effluent Water Sample (ETP-Outlet)
Type of Industry	:	Agro Chemical Industry
Sample type	:	**Effluent Water Sample (ETP-Outlet)**
Date of sampling	:	05/06/2024
Date of receipt of sample	:	05/06/2024
Sample Location	:	ETP-Outlet
Sample quantity	:	2 Ltr.
Purpose of analysis	:	Monitoring
Sample collected/ supplied by	:	By our Lab. Representative

TEST RESULTS

S.N.	Test Parameters	Unit	Result	Limit as per EP Act. 1986, Schedule-VI (Inland Surface Water)	Test Method
1	Odour	--	Odourless	--	IS 3025 (Part 5): 2018
2	pH	--	8.21	5.5 - 9.0	IS 3025 (Part 11): 2022
3	Total Suspended Solids	mg/l	40.0	100 Max.	IS 3025 (Part 17): 2022
4	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/l	16.0	30 Max.	IS 3025 (Part 44): 2022
5	Chemical Oxygen Demand(COD)	mg/l	105.0	250 Max.	IS 3025 (Part 58): 2023
6	Oil & Grease	mg/l	1.8	10 Max.	IS 3025 (Part 39): 2021
7	Ammonical Nitrogen (as N)	mg/l	12.1	50 Max.	IS 3025 (Part 34): 1988
8	Cyanide (as CN)	mg/l	BLQ(LOQ 0.01)	0.2 Max.	IS 3025 (Part 27/Sec-1): 2021
9	Phenolic Compound (C6H5OH)	mg/l	BLQ(LOQ 0.1)	1.0 Max.	IS 3025 (Part 43/Sec-1): 2022
10	Arsenic (as As)	mg/l	BLQ(LOQ:0.1)	0.2 Max.	HTH/QF/7.2/2/ICP-01, SOP No-21
11	Copper (as Cu)	mg/l	BLQ(LOQ:0.1)	3.0 Max.	HTH/QF/7.2/2/ICP-01, SOP No-21
12	Manganese (as Mn)	mg/l	BLQ(LOQ:0.1)	2.0 Max.	HTH/QF/7.2/2/ICP-01, SOP No-21
13	Zinc (Zn)	mg/l	BLQ(LOQ:0.1)	5.0 Max.	HTH/QF/7.2/2/ICP-01, SOP No-21

End of Report

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

Review by 12-6-24

HTH LABORATORIES PVT. LTD. PANIPAT 12-6-24

Balbir Dev Singh
T. M. (Chemical)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:		
BHARAT RASAYAN LIMITED,	Report No.	: HTH/EP/240605004
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak	ULR No.	: TC781124100004348F
	Party's Ref No.	: Nil
	Booking Date	: 05/06/2024
	Period of Testing	: 05/06/2024To 12/06/2024
	Reporting Date	: 12/06/2024

Sample Description	:	Sewage Water Sample (STP-Inlet)
Type of Industry	:	Agro Chemical Industry
Sample type	:	**Sewage Water Sample (STP-Inlet)**
Date of sampling	:	05/06/2024
Date of receipt of sample	:	05/06/2024
Sample Location	:	STP-Inlet
Sample quantity	:	2 Ltr.
Purpose of analysis	:	Monitoring
Sample collected/ supplied by	:	By our Lab. Representative

TEST RESULTS

S.N.	Test Parameters	Unit	Result	Test Method
1	pH	-	7.62	IS 3025 (Part 11): 2022
2	Suspended Solids	mg/L	217.0	IS 3025 (Part 17): 2022
3	Chemical Oxygen Demand(COD)	mg/L	452.0	IS 3025 (Part 58): 2023
4	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	206.0	IS 3025 (Part 44): 2022
5	Total Nitrogen (as N)	mg/L	41.07	IS 3025 (Part 34): 1988
6	Total Phosphorus (as P)	mg/L	7.8	IS 3025 (Part 31/Sec-1): 2022
7	Faecal coliform	MPN /100 ml	26000	APHA 23rd edition

End of Report

Review by

12.06.2024

Manendra Kumar
Sr. Microbiologist (Biological)

HTH LABORATORIES PVT. LTD. PANIPAT

Auth. Sign.

Bhudev Singh
T. M. (Chemical)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

DOC No. HTH/QF/7.8

TC-7811

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak

Report No.	:	**HTH/EP/240605005**
ULR No.	:	**TC781124100004349F**
Party's Ref No.	:	Nil
Booking Date	:	05/06/2024
Period of Testing	:	05/06/2024To 12/06/2024
Reporting Date	:	12/06/2024

Sample Description	:	Sewage Water Sample (STP-Outlet)
Type of Industry	:	Agro Chemical Industry
Sample type	:	**Sewage Water Sample (STP-Outlet)**
Date of sampling	:	05/06/2024
Date of receipt of sample	:	05/06/2024
Sample Location	:	STP-Outlet
Sample quantity	:	2 Ltr.
Purpose of analysis	:	Monitoring
Sample collected/ supplied by	:	By our Lab. Representative

TEST RESULTS

S.N.	Test Parameters	Unit	Result	Sewage/Effluent Discharge Standards For Sewage Treatment Plant (HSPCB)	Test Method
1	pH	-	7.70	5.5 - 9.0	IS 3025 (Part 11): 2022
2	Suspended Solids	mg/L	4.0	20 Max	IS 3025 (Part 17): 2022
3	Chemical Oxygen Demand(COD)	mg/L	38.0	50 Max	IS 3025 (Part 58): 2023
4	Biochemical Oxygen Demand (BOD) 3 Days at 27°C	mg/L	7.6	10 Max	IS 3025 (Part 44): 2022
5	Total Nitrogen (as N)	mg/L	5.6	10 Max	IS 3025 (Part 34): 1988
6	Total Phosphorus (as P)	mg/L	0.28	1 Max	IS 3025 (Part 31/Sec-1): 2022
7	Faecal coliform	MPN /100 ml	40	<100	APHA 23rd edition

End of Report

Reviewed by

12.06.2024

Manendra Kumar
Sr. Microbiologist (Biological)

HTH LABORATORIES PVT. LTD. PANIPAT

Dasudev Singh
M. (Chemical)

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	: HTH/EP/240606018
ULR No.	: TC781124100004304F
Party's Ref No.	: Nil
Booking Date	: 06/06/2024
Period of Testing	: 06/06/2024To 11/06/2024
Reporting Date	: 11/06/2024

Sample Description : Ambient Air Quality Monitoring

Type of Industry	: Agro Chemical Industry
Date & time of sampling	: 05/06/2024 (10:00 Hrs) to 06/06/2024 (10:00 Hrs)
Sample Location	: **Near Main Gate**
Instrument used	: RDS Model APM- 460 (Sr. No. 2493 DTB 2019)
Instrument Calibration Status	: Calibrated (upto 28.03.2025)
Purpose of analysis	: Monitoring
Sample collected/ supplied by	: By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)	: 1.19 m3/min
2. Total volume of air sampled	: 1726.45 m3
3. Period of sampling	: 24 Hrs

S.N.	Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Discipline - Chemical, Group - Atmospheric Pollution					
1	Particulate Matter (PM10)	µg/ m3	88.04	100 max	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM 2.5)	µg/ m3	47.84	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	µg/ m3	18.38	80 max	IS 5182 (Part-2) : 2001
4	Nitrogen Dioxide (NO2)	µg/ m3	38.75	80 max	IS 5182 (Part-6) : 2006
5	Ammonia (NH3)	µg/ m3	23.61	400 max	IS 5182 (Part-25) : 2018
6	Ozone (O3)	mg/ m3	20.74	100 max	IS 5182 (Part-9) : 1974
7	Carbon Monoxide (CO)	µg/ m3	0.687	4 max	IS 5182 (Part-10) : 1999
8	Benzene (C6H6)	ng/ m3	BLQ (LOQ-0.52)	5 max	IS 5182 (Part-11) : 2006
9	Benzo - Pyrene (BaP)	µg/ m3	BLQ (LOQ-0.1)	1 max	IS 5182 (Part-12) : 2004
10	Lead (Pb)	ng/ 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
12	Arsenic (As)		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

HTH LABORATORIES PVT. LTD. PANIPAT

Mo... Ansari
Sr. Manager (Env.)

11.06.2024
Review by

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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DOC No. HTH/QF/7.8

TC-7811

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham
Distt. Rohtak- 124022 (HR) Rohtak

Report No.	: HTH/EP/240606019
ULR No.	: TC781124100004305F
Party's Ref No.	: Nil
Booking Date	: 06/06/2024
Period of Testing	: 06/06/2024To 11/06/2024
Reporting Date	: 11/06/2024

Sample Description : Ambient Air Quality Monitoring

Type of Industry	: Agro Chemical Industry
Date & time of sampling	: 05/06/2024 (10:00 Hrs) to 06/06/2024 (10:00 Hrs)
Sample Location	: **Near ETP Area**
Instrument used	: RDS Model APM- 460 (Sr. No. 2494 DTB 2019)
Instrument Calibration Status	: Calibrated (upto 28.03.2025)
Purpose of analysis	: Monitoring
Sample collected/ supplied by	: By our Lab. Representative

A. Observations:

1. Sampling flow rate (Avg.)	: 1.11 m3/min
2. Total volume of air sampled	: 1678.05 m3
3. Period of sampling	: 24 Hrs

S.N.	Test Parameters	Units	Result	Standard Limits (NAAQS)	Test Method
Discipline - Chemical, Group - Atmospheric Pollution					
1	Particulate Matter (PM10)	µg/ m3	85.22	100 max	IS 5182 (Part-23) : 2006
2	Particulate Matter (PM 2.5)	µg/ m3	43.18	60 max	IS 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO2)	µg/ m3	15.22	80 max	IS 5182 (Part-2) : 2001
4	Nitrogen Dioxide (NO2)	µg/ m3	33.27	80 max	IS 5182 (Part-6) : 2006
5	Ammonia (NH3)	µg/ m3	20.86	400 max	IS 5182 (Part-25) : 2018
6	Ozone (O3)	µg/ m3	17.78	100 max	IS 5182 (Part-9) : 1974
7	Carbon Monoxide (CO)	mg/ m3	0.916	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	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
12	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

HTH LABORATORIES PVT. LTD.

Sr. Manager (Env.)

Review by

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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DOC No. HTH/QF/7.8

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TEST REPORT

Issued To:	
BHARAT RASAYAN LIMITED, 2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak	Report No. : HTH/EP/240606020 ULR No. : TC781124100004277F Party's Ref No. : Nil Booking Date : 06/06/2024 Period of Testing : 06/06/2024To 11/06/2024 Reporting Date : 11/06/2024

Sample Description : Noise Level Monitoring- DG Noise

Type of Industry	: Agro Chemical Industry
Sample Location	: **DG 750 KVA**
Instrument used	: Sound Level Meter (HTH/AP/12/SLM-05)
Instrument Calibration Status	: Calibrated (upto 29.01.2025)
Date of measurement	: 04/06/2024
Purpose of analysis	: Monitoring
Sample collected/ supplied by	: By our Lab. Representative

OBSERVATION

S.N.	Point of Measurement	I	II	III	IV	V	VI
Discipline – Chemical, Group – Atmospheric Pollution :							
1	1.0 m Away from DG Set (Acoustic Enclosed Open)	102.0	101.5	100.6	101.8	102.1	100.6
2	1.0 m Away from DG Set (Acoustic Enclosed Closed)	71.4	70.3	72.5	70.6	71.8	70.0

TEST RESULTS

S.N.	Point of Measurement	Noise Level (dB "A")		
		Lmin	Lmax	Leq
1	1.0 m Away from DG Set (Acoustic Enclosed Open)	100.6	102.1	101.5
2	1.0 m Away from DG Set (Acoustic Enclosed Closed)	70.0	72.5	71.2
	Insertion Loss	-	-	30.3*

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.

HTH LABORATORIES PVT. LTD. PANIPAT

Sr. Manager (Tech.)

DOC No. HTH/QF/7.8

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

Web Site : www.hthlabs.com, e-mail : haryanatesthousecs@gmail.com, testing@hthlabs.com

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TEST REPORT

Issued To:	Report No. : HTH/WT/240605008
BHARAT RASAYAN LIMITED,	ULR No. : TC781124200001232F
2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak	Party's Ref No. : Nil
	Booking Date : 05/06/2024
	Period of Testing : 05/06/2024To 12/06/2024
	Reporting Date : 12/06/2024

Sample Description	: Borewell Water Sample	Sample Name	: **Borewell Water - 1**
Type of Industry	: Agro Chemical Industry	Sample quantity	: 2 Ltr. + 250 ml in sterilized bottle
Date of sampling	: 05/06/2024		
Date of receipt of sample	: 05/06/2024	Sample Location	: Borewell -1
Environmental Condition	: Temp. 43ºC & Humidity 20%	Purpose of analysis	: Monitoring
Sampling Reference Protocol	: IS 1622 : 1981	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
.Discipline - Chemical , Group -Water						
Organoleptic and Physical Parameter's						
1	pH	--	7.93	6.5-8.5	No Relaxation	IS 3025 (P-11)-2022
2	Total Dissolved Solids (TDS)	mg/l	1966.0	500 Max.	2000 Max.	IS 3025 (P-16)-2023
3	Total Hardness (as CaCO3)	mg/l	564.0	200 Max.	600 Max.	IS 3025 (P-21)2009
4	Calcium (as Ca)	mg/l	131.5	75.0 Max.	200.0 Max.	IS 3025 (P-40)1991
5	Magnesium (as Mg)	mg/l	57.47	30.0 Max.	100.0 Max.	IS 3025 (P-46)2023
6	Chloride (as Cl)	mg/l	909.72	250 Max.	1000 Max.	IS 3025 (P-32)1988
7	Sulphate (as SO4)	mg/l	382.5	200 Max.	400 Max.	IS 3025 (P-24)sec-1 :2022
8	Nitrate (as NO3)	mg/l	23.20	45.0 Max.	No Relaxation	IS 3025 (P-34):1988
9	Fluoride (as F)	mg/l	1.10	1.0 Max.	1.5 Max.	APHA-4500 F-
10	Total Alkalinity (as CaCO3)	mg/l	340.0	200 Max.	600 Max.	IS 3025 (P-23)2023
Discipline - Biological , Group - Water						
Bacteriological Requirements						
1	Coliform	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016
2	E.coli	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016

End of Report

Remarks : Analysed parameters of water sample confirms to IS 10500:2012 Amendment No. 4, Nov.2021 specification with respect to permissible limits for the above test parameters.

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

Review by

H.O.D. (Biological)

Md. ...

Sr. Manager (Env.)

Note : 1. Test report shall not be reproduce in whole or in part and cannot be used as an evidence in the court of Law.
2. The results contained in this test report pertain only to the sample tested not for the whole lot.
3. This report is only for your guidance, and not for legal purposes, commercial decision, and for advertisement.
4. Total liability of Haryana Test House is limited to the invoiced amount only.
5. Samples will be destroyed after one month from the date of issue of test report unless otherwise specified.
6. Sample not drawn by HTH unless otherwise specified.
7. The details received from customer as its own responsibility. Lab does not confirm about it and hence does not taken any responsibility whatsoever.

HTH Laboratories Pvt. Ltd.

(Formerly Known as Haryana Test House & Consultancy Services)

Plot No. 50-C, Sector-25 Part-II, HUDA, PANIPAT-132 103 (HR.)

Contact : (Off.) 86077-70160, 0180-4067223, (Env.) 86077-70164, (BM) 86077-70166, (Food) 86077-70169

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DOC No. HTH/QF/7.8

TC-7811

An ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

TEST REPORT

Issued To:

BHARAT RASAYAN LIMITED,

2 KM Stone, Mokhra Madina Road,Vill. Mokhra, Tehsil Meham Distt. Rohtak- 124022 (HR) Rohtak

Report No.	: HTH/WT/240605009
ULR No.	: TC781124200001235F
Party's Ref No.	: Nil
Booking Date	: 05/06/2024
Period of Testing	: 05/06/2024To 12/06/2024
Reporting Date	: 12/06/2024

Sample Description	: Borewell Water Sample	Sample Name	: **Borewell Water - 2**
Type of Industry	: Agro Chemical Industry	Sample quantity	: 2 Ltr. + 250 ml in sterilized bottle
Date of sampling	: 05/06/2024		
Date of receipt of sample	: 05/06/2024	Sample Location	: Borewell -2
Environmental Condition	: Temp. 43ºC & Humidity 20%	Purpose of analysis	: Monitoring
Sampling Reference Protocol	: IS 1622 : 1981	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
.Discipline - Chemical , Group -Water						
Organoleptic and Physical Parameter's						
1	pH	--	7.92	6.5-8.5	No Relaxation	IS 3025 (P-11)-2022
2	Total Dissolved Solids (TDS)	mg/l	1986.0	500 Max.	2000 Max.	IS 3025 (P-16)-2023
3	Total Hardness (as CaCO3)	mg/l	580.0	200 Max.	600 Max.	IS 3025 (P-21)2009
4	Calcium (as Ca)	mg/l	140.3	75.0 Max.	200.0 Max.	IS 3025 (P-40)1991
5	Magnesium (as Mg)	mg/l	56.01	30.0 Max.	100.0 Max.	IS 3025 (P-46)2023
6	Chloride (as Cl)	mg/l	994.69	250 Max.	1000 Max.	IS 3025 (P-32)1988
7	Sulphate (as SO4)	mg/l	376.2	200 Max.	400 Max.	IS 3025 (P-24)sec-1 :2022
8	Nitrate (as NO3)	mg/l	25.60	45.0 Max.	No Relaxation	IS 3025 (P-34):1988
9	Fluoride (as F)	mg/l	1.06	1.0 Max.	1.5 Max.	APHA-4500 F-
10	Total Alkalinity (as CaCO3)	mg/l	350.0	200 Max.	600 Max.	IS 3025 (P-23)2023
Discipline - Biological , Group - Water						
Bacteriological Requirements						
1	Coliform	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016
2	E.coli	Per 100 ml	Absent	Shall Not be Detectable	No Relaxation	IS:15185:2016

End of Report

Remarks : Analysad parameters of water sample confirms to IS 10500:2012 Amendment No. 4, Nov.2021 specification with respect to permissible limits for the above test parameters.

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

Reviewed by 12.6.24

Nachhattar Gupta 12/6/24
H.O.D. (Biological)

HTH LABORATORIES PVT. LTD. PANIPAT

Auth. Sign.
Md. Asfaq Ansari
Sr. Manager (Env.)

ANNEXURE – XV
EMP RUNNING COST

BHARAT RASAYAN LIMITED (MOKHRA)

EMP RUNNING COST FOR THE PERIOD 01/04/2024 to 30/09/2024

Particulars	FY_2018-19	FY_2019-20	FY_2020-21	FY_2021-22	FY_2022-23	October 2023-March 2024	April-2024 to September-2024
AIR, WATER, HAZARDOUS MANAGEMENT COST	77,47,381	1,45,00,849	2,08,20,550	2,51,39,898	2,42,37,842	82,98,365	82,13,482.18
OTHERS EXPENSES	1,05,000	1,95,000	2,82,000	3,50,000	3,28,000	31,28,418	2,70,799.14
Total	78,52,381	1,46,95,849	2,11,02,550	2,54,89,898	2,45,65,842	1,14,26,783	84,84,281