JUBILANT INGREVIA

JVL/EHS/ENV/2024/257 **September 25, 2024**

To,
The Member Secretary
UP Pollution Control Board,
TC – 12 V, Vibhuti Khand,
Gomti Nagar,
Lucknow – 226010, U.P.

Subject: Environmental Statement (Form-V) for Jubilant Ingrevia Limited, Gajraula, Amroha, U.P.

Dear Sir,

We are submitting herewith the Environmental Statement in Form-V for FY 2023-24 as per Rule-14 of Environment Protection Act, 1986 for M/s Jubilant Ingrevia Limited, Gajraula.

We assure you of our commitment for the compliance of statutory requirements all the times.

Thanking you,
Yours faithfully,
For **Jubilant Ingrevia Limited,**

(Authorized Signatory)
Vinod Jha
Vice President & Site Head

Enclosures: As mentioned above

CC: 1) Chief Environmental Officer, Circle-7, UPPCB, Lucknow (U.P)
CC: 2) Regional Officer, UP Pollution Control Board, Bijnor, (U.P.)
CC: 3) MoEF & CC, Regional Office (Central Zone), Lucknow

A Jubilant Bhartia Company

OUR VALUES

INSPIRE CONFIDENCE · ALWAYS STRETCH · NURTURE INNOVATION · EXCELLENT QUALITY

Jubilant Ingrevia Limited
Bhartiagram, Gajraula
Distt. Amroha - 244 223, UP, India
Tel: +91 5924 252351, 252353-60
www.jubilantingrevia.com

Corporate Office:
1-A, Sector 16-A,
Noida-201 301, UP, India
Tel: +91 120 4361000
Fax: +91 120 4234895-96

Regd Office:
Bhartiagram, Gajraula
Distt. Amroha - 244 223
Uttar Pradesh, India
CIN : U24299UP2019PLC122657

Disclosure: *All information provided/submitted herewith is commercial confidential data/information, trade secrets and/or intellectual property(s) etc. of the Company or its group Companies. The Company humbly requests you to treat the data/information submitted herewith as "Strictly Confidential", and not to provide/disclose/share any data/information to any third person/party as the same is exempted from disclosure under Section 8 of the Right to Information Act, 2005 ("RTI Act"). In the event of any person makes any application to you seeking any information about the Company, the Company requests you to please issue a prior written notice to the Company along with reasonable opportunity of representation to the Company as envisaged under Section 11(1) of the RTI Act. No disclosure of any data/information can be made to any third person/party without Company's consent under the provisions of the RTI Act.*

Form V
(See Rule 14)

Environmental Statement for the financial year ending on 31st March 2024

Part A

Name & address of the owner/occupier of the industry operation or process	Mr. Vinod Jha Vice President and Unit Head Jubilant Ingrevia Limited, Bhartiagram,Gajraula, District- Amroha (UP)
Production Capacity- Units	Enclosed as **Annexure-1**
Year of Establishment	1982
Date of Last Environment Statement submitted	September 7, 2023

Part B

Water and Raw material Consumption

i. Water Consumption in m^3/day

Descrpition	Avg. Quantity (m^3/Day)
Process	2978
Cooling	1268
Domestic	558

Name of the products	Process Water Consumption per Unit of product (M^3/MT)	
	During previous Financial year (2022-23)	During current Financial year (2023-24)
Ethyl Alcohol	6.63	Not manufactured
Carbon Dioxide	11.09	Not manufactured
Acetaldehyde	2.62	1.62
Acetic Acid	Not manufactured	Not manufactured
Acetic Anhydride	3.63	3.28
Pyridine & Picoline – 1 & 2	0.13	0.10
Cyanopyridine	-	-
Formaldehyde	0.23	0.35*

*Increased due to lower production

ii. Raw Material Consumption

Name of Raw material	Name of Products	Consumption of Raw Material per unit of Output (MT/MT)	
		During previous Financial year (2022-23)	During current Financial year (2023-24)
Molasses	**Alcohol (KBL)**	4.44	Not manufactured
Alcohol	**Acetaldehyde**	1.09	1.15
Ethyl Alcohol	**Ethyl Acetate**	0.72	Not manufactured
Methanol	**Formaldehyde**	0.42	0.43
Ammonia	**Pyridine and Picoline 1&2**	0.41	0.38
Ammonia	**3 Cyano pyridine**	0.45	0.45
Ammonia	**4 Cyano pyridine**	0.57	Not manufactured

Part C

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

Pollutants	Unit	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	% of variation from prescribed standards with reasons
Water	Distillery Unit	Not Applicable as Unit is ZLD	Effluent treated through Biomethanation followed by RO. The reject from RO sent for further concentration in MEE and finally utilized for composting / Incineration. Permeate from RO plant and Condensate from MEE utilized back in process and cooling tower make up. **No discharge from Distillery Unit and complete Zero Liquid Discharge status is being maintained.**	Well within prescribed norms of UPPCB
	Chemical Unit I	Not Applicable as Unit is ZLD	Effluent treated in CETP followed by CTRO. Permeate of RO utilised in cooling tower makeup and reject used for coal dust suppression. **No discharge and complete Zero Liquid Discharge status is being maintained.**	
	Chemical Unit II	Not Applicable as Unit is ZLD	**Organic effluent** : Concentrated in MEEs and incinerated in Liquid waste incinerators. **Inorganic effluent** : Dried through ATFD (Agitated Thin Film Dryers) or Spray dryer and dried solids disposed in captive SLF. **No discharge and complete Zero Liquid Discharge status is being maintained.**	
	Power plant	Not Applicable as Unit is ZLD	Utility effluent from WTP and Cooling towers treated in RO and reject is utilized for wet ash handling system/Dust Supression. Clear permeate utilized back for make up in cooling towers. **No discharge and complete Zero Liquid Discharge status is being maintained.**	

Pollutants	Unit	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	% of variation from prescribed standards with reasons
Air emission	FBC Boiler 90 TPH-I + 90 TPH-II (Stack common)		SPM - 39.13 mg/Nm3 (Average value for FY 23-24 stack monitoring)	Well within prescribed norms of UPPCB
	Liquid Waste Incinerator I		SPM - 36.57 mg/Nm3 (Average value for FY 23-24 stack monitoring)	
	Liquid Waste Incinerator II		SPM - 40.00 mg/Nm3 (Average value for FY 23-24 stack monitoring)	
	Thermal Oxidizer -I		SPM - 35.38 mg/Nm3 (Average value for FY 23-24 stack monitoring)	
	Thermal Oxidizer -II		SPM - 38.25 mg/Nm3 (Average value for FY 23-24 stack monitoring)	

Part D

Hazardous Wastes

[As specified under Hazardous Waste (Management and Handling) Rules, 2016]

Hazrdous Waste Details (MT)			
Hazardous Waste	**Plant Name/Product**	**Type of waste**	**During Current FY(2023-24)**
From Process	AC2O	Dopp kettle residue	8.090
	EA 1/2/3	Dopp kettle residue	0.000
	Acetic acid & Derivative	Spent catalyst / Solids	0.000
	Acetic acid & Derivative	Dopp kettle residue	0.000
	Diketene & Derivatives	Residue waste	68.992
		Tarry waste/residual mass	0.000
	Cyano Pyridines,	Kettle Distillation residue	94.437
	Pyridine & Picoline & Derivative	Spent catalyst from Pyridine	74.358
	Fine Chemical / Solvent Recovery Plant Section	Distt. Residue	1395.887
	Fine Chemical / Pyridine	Waste charcoal / Spent Carbon	0.000
	QC/Kilo /R&D lab waste	Discarded chemicals	0.989
	From all sections of plant	Tank sludge	0.000
	From all sections of plant	Contaminated Polythene / drum/packing material	90.420
	Wastes utilized as PPE or generated during maintenances	Used PPEs , Hand gloves and Cotton etc used during maintenance of equipments	0.170
	Degradation/ contamination of products due to break down or process equipment failure or other reasons.	Contaminated / Off specification products	8.782
	Discarded insulation material Used Glass wool	Contaminated and used themocol generated after changing the insulation.	0.000
		Contaminated and used glass wool generated after changing the insulation.	0.000
	Pyridine derivatives	Distillation Residue	0.000
	Inorganic raffinate	Effluent from Pyridine derivatives and Fine chemicals.	13152.830
	Organic Raffinate effluent (High TDS and High COD)	Effluent from Pyridine derivatives and Fine chemicals.	39579.720
	Tarry waste	Tarry residue generated from coal	0.000
	Pyridine	Pyridine residue	2984.570
	Pyridine Derivatives	Spent solvent	513.164
	Utilities	waste/ Used oil	5.818
	Fine Chemical section	Spent catalyst	0.000
	Formaldehyde	Spent catalyst	0.000
	E-waste	E-waste Scrap	0.000

	Glass and plastic bottles utilized for sampling in lab Utilities	Discarded sampling / Reagent bottles	4.890
	Spent Caustic lye	Spent Caustic lye generated from fine chemical plant	1506.590
	LSHS (Low sulphure heavy stock) Oil Sludge.	LSHS (Low sulphure heavy stock) Oil Sludge generated from DG	148.472
	Utility (DM Plant) and Power plant	Spent resin	0.000
	Acetic Anhydride, Acetaldehyde, Acetic Acid & Derivatives Manufacturing Plant	Dilute Acetic Acid (In-house generated and waste procured from external source as per CPCB SOP under Rule 9)	0.000
	Fine Chemical Section	Spent Dilute Sulphuric Acid generated from plant	0.000
	Fine Chemical section	NaBr /KBr/HBr /NH4Br Solution etc. or salt	0.000
	Spent Dilute Acetic Acid	Spent Dilute Acetic Acid genrated from fine chemical plant	199.45
	Drum Decontamination section	Contaminated Empty Barrels/Containers/Drums	0.000
	Distillery / Pyridine	Exhausted sieves	0.000
	CO2 Plant	PPM & Scrubber sludge	0.000
	R&D / QC	Lab waste	0.000
	Pyridine derivatives	Spent Catalyst	0.000
	Miscellaneous waste	Asbestos Gasket and other asbestos containing materials	0.000
	SPVA	Catalyst waste from ATFE condenser	0.000
	SPVA & WOOD FINISH	Asbestos Gasket and other asbestos containing materials	0.000
	Sulphuric acid	Spent Catalyst	0.000
	Fertilizer	Asbestos Gasket and other asbestos containing materials	0.000
From Pollution Control Facilities	CTRO	Silica Sludge	27.210
	CETP	Chemical Sludge from drying beds/ Sludge Dewatering Unit	42.870
	Incinerator	Incineration Ash	0.000
	Spray Dryer/ ATFD Salt	Spray dried solids/ ATFD Salt	2348.19

Part E

Solid Wastes

Solid Waste	Total Quantity Disposed (MT)	
	During last financial year (2022-23)	During current financial year (2023-24)
Fly Ash	95880	86179

Part F

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

Plant Name/Product	Type of waste	Disposal Method
AC2O	Dopp kettle residue	Captive incineration / Co-incineration / Co processing at authorized agency / Incineration at common waste incineration facility
EA 1/2/3	Dopp kettle residue	
Acetic acid & Derivative	Spent catalyst / Solids	
Acetic acid & Derivative	Dopp kettle residue	
Diketene & Derivatives	Residue waste	
Cyano Pyridines,	Tarry waste/residual mass	
Pyridine & Picoline & Derivative	Kettle Distillation residue	
Fine Chemical / Solvent Recovery Plant Section	Spent catalyst from Pyridine	
Fine Chemical / Pyridine	Distt. Residue	
QC/Kilo /R&D lab waste	Waste charcoal / Spent Carbon	
From all sections of plant	Discarded chemicals	
From all sections of plant	Tank sludge	
Wastes utilized as PPE or generated during maintenances	Contaminated Polythene / drum/packing material	Incineration at common waste incineration facility
Degradation/ contamination of products due to break down or process equipment failure or other reasons.	Used PPEs , Hand gloves and Cotton etc used during maintenance of equipments	Incineration at common waste incineration facility
Discarded insulation material Used Glass wool	Contaminated / Off specification products	Incineration at common waste incineration facility or to be disposed in common / Captive SLF.
Pyridine derivatives	Contaminated and used themocol generated after changing the insulation.	To be send for incineration at common waste incineration facility / captive incineration.
Inorganic raffinate	Contaminated and used glass wool generated after changing the insulation.	Captive incineration(spray drying) /MEE/ATFD/ Co incineration / Co processing at authorized agency / Incineration at common waste incineration facility.
Organic Raffinate effluent (High TDS and High COD)	Distillation Residue	Co-processing in Cement Plant / Captive Incineration
Tarry waste	Effluent from Pyridine derivatives and Fine chemicals.	Disposal to end user/ Incineration/TSDF/Any other method suggested by SPCB/CPCB
Pyridine	Effluent from Pyridine derivatives and Fine chemicals.	Used in-house as support fuel in incinerators
Pyridine Derivatives	Spent solvent	Sold to authorized reprocessor / recycler/ Buyer.
Utilities	waste/ Used oil	Sold to authorized reprocessor / recycler/ Buyer.
Fine Chemical section	Spent catalyst	Sold to authorized reprocessor / recycler/ Buyer.
Formaldehyde	Spent catalyst	Exported for regeneration of metals.

E-waste	E-waste Scrap	Sold to authorized recycler.
Glass and plastic bottles utilized for sampling in lab Utilities	Discarded sampling / Reagent bottles	Disposal in scrap after decontamination
Spent Caustic lye	Spent Caustic lye generated from fine chemical plant	Disposal to end user/ authorized buyer
LSHS (Low sulphure heavy stock) Oil Sludge.	LSHS (Low sulphure heavy stock) Oil Sludge generated from DG	Disposal to end user/ authorized buyer and TSDF
Utility (DM Plant) and Power plant	Spent resin	Utilisation for energy recovery in Captive Boilers per CPCB SOP under Rule 9.
Acetic Anhydride, Acetaldehyde, Acetic Acid & Derivatives Manufacturing Plant	Dilute Acetic Acid (In-house generated and waste procured from external source as per CPCB SOP under Rule 9)	Utilisation as per SOP released by CPCB under Rule 9
Fine Chemical Section	Spent Dilute Sulphuric Acid generated from plant	Disposal to end user/ authorized buyer
Fine Chemical section	NaBr /KBr/HBr /NH4Br Solution etc. or salt	Disposal to end user/ authorized buyer/Utilisation as per SOP released by CPCB under Rule 9
Spent Dilute Acetic Acid	Spent Dilute Acetic Acid genrated from fine chemical plant	Disposal to end user/ authorized buyer
Drum Decontamination section	Contaminated Empty Barrels/Containers/Drums	Decontamination at existing Drum Decontamination facility and sale to end user
Utility (DM Plant) and Power plant	Spent resin	Utilisation for energy recovery in Captive Boilers per CPCB SOP under Rule 9.
Acetic Anhydride, Acetaldehyde, Acetic Acid & Derivatives Manufacturing Plant	Dilute Acetic Acid (In-house generated and waste procured from external source as per CPCB SOP under Rule 9)	Utilisation as per SOP released by CPCB under Rule 9
Fine Chemical Section	Spent Dilute Sulphuric Acid generated from plant	Disposal to end user/ authorized buyer
Fine Chemical section	NaBr /KBr/HBr /NH4Br Solution etc. or salt	Disposal to end user/ authorized buyer/Utilisation as per SOP released by CPCB under Rule 9
Spent Dilute Acetic Acid	Spent Dilute Acetic Acid genrated from fine chemical plant	Disposal to end user/ authorized buyer
Incinerator	Incineration Ash	Captive SLF/ TSDF
Distillery / Pyridine	Exhausted sieves	
Spray Dryer/ ATFD Salt	Spray dried solids/ ATFD Salt	
CO2 Plant	PPM & Scrubber sludge	
CTRO	Silica Sludge	
CETP	Chemical Sludge from drying beds/ Sludge Dewatering Unit	
R&D / QC	Lab waste	
Pyridine derivatives	Spent Catalyst	
Miscellaneous waste	Asbestos Gasket and other asbestos containing materials	
SPVA	Catalyst waste from ATFE condenser	
SPVA & WOOD FINISH	Asbestos Gasket and other asbestos containing materials	
Sulphuric acid	Spent Catalyst	
Fertilizer	Asbestos Gasket and other asbestos containing materials	
Fly Ash		Sold to cement industry and partly disposed to land reclamation/ash pond.

Part G

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

Water conservation and reduction in Effluent during FY 2023-24.

The following actions are some of the significant steps taken during past years for conservation of raw water and reduction of effluent:

Recycling water during FY 2023-24		
Sr. No.	**Details**	**Avg (M^3/Day)**
1	Utilization of Condensate of PHE -1&2 by recycling	828.53
2	Utilization of MEE - 1 & 2 Condensate	360.48
3	Utilization MEE CPU Permeate Recycling	0
4	Utilization of treated sewage water in Horticulture	302.17
5	Utilization of RO-II permeate in process	79.18
6	Utilization of CETP Permeate in process	166.11
7	Utilization of CTRO Permeate in process	541.12
Total		2277.59

During FY 2023-24 following initiatives were taken for environment protection through reduction in norms and indirectly reducing environment load and cost of production.

Sr. No.	Major Environmental Initiatives
1	The capacity of the Agitated Thin Film Dryer (ATFD) for effluent treatment has been enhanced by 28.6%.
2	The installation of a Waste Heat Recovery Boiler (WHRB) for reactor 6 in Pyridine and Picoline-1 plant generates steam through heat recovery at a rate of 2.3 MT/hour, resulting in decrease in fuel consumption.
3	The installation of water ring vacuum pump in MEE-I and MEE-II has replaced steam jet ejectors, resulting in a reduced demand for steam by 19.70% & 23.6% respectively and consequently less fuel consumption.
4	Successful installation of dry vacuum pump in FC-1 & FC-3 has led to reduction of steam and effluent norms.
5	One transformer has been replaced in the Electrostatic Precipitators (ESP) of both the 90 TPH-1 and 90 TPH-2 boilers to improve the reduction percentage of particulate matter (PM) in the flue gas.

Air Pollution Management

Jubilant Ingrevia Limited has taken following measures for controlling the air pollution:

- **Odour Management**

There will not be any specific source of air emission however, because of the nature of raw materials and processes involved, there are potential for various types of air emission from the process equipment mainly vents of the reactors and storage tanks. Depending on the type and nature of emission, the following approach has been adopted for minimising odour emissions from the proposed plant:

a) Major Odourous Vents

Pyridine recovery vents are connected to 2 No's Thermal oxidizer where the vent gasses are incinerated. The flue gasses are then passed through a Waste Heat Recovery Boiler is then wherein steam is generated to the tune of 4 TPH.

b) Other Odourous vents

Minimise emission by nitrogen blanketing / chilled water condenser/ scrubbing system in Pyridine storage tanks. (Effluent generated from scrubber will be recycled in the process)

c) Mildly Odourous vents

Provision for demister / knock out pots / chilled water condenser / scrubbing system in the vents. (Effluent generated from scrubber will be recycled in the process).

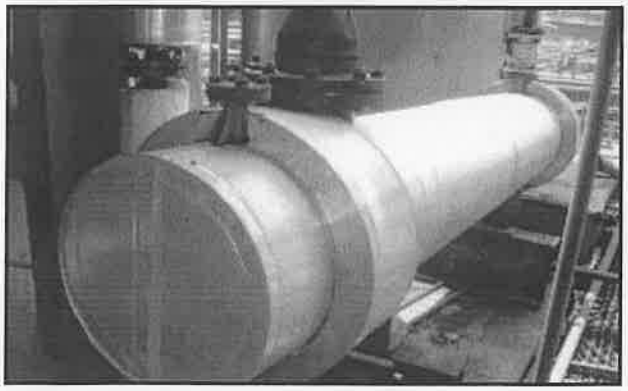
d) Mildly odourous tanks vents

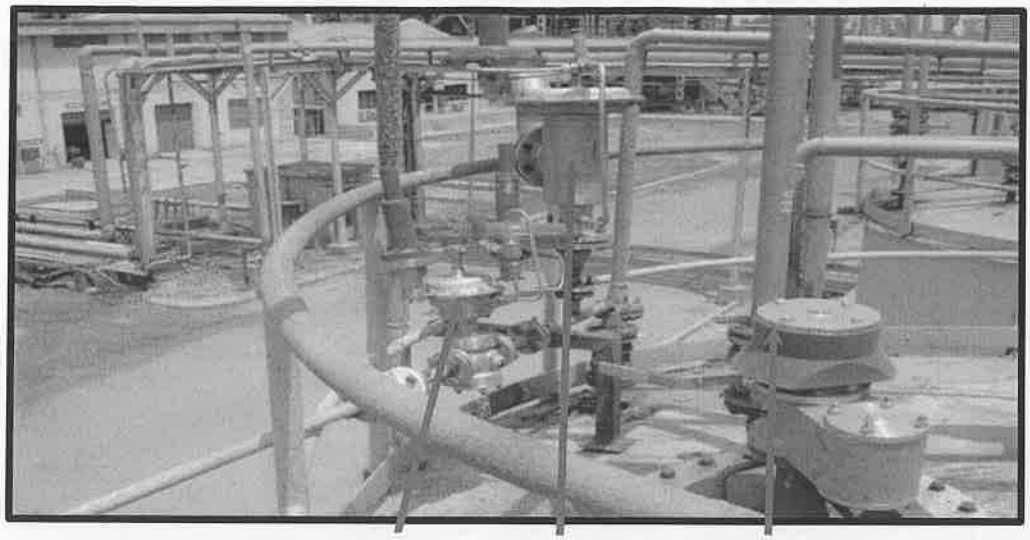
Provision for breather valves / condensers.

e) Fugitive emissions

- Condenser height reduced from 33 to 24 /27 to improve cooling water circulation system in order to prevent fugitive emissions into atmosphere.
- Scrubber capacity enhanced in 4DMAP plant to prevent fugitive emission into atmosphere.
- Cold trap provided before hot well during toluene distillation to prevent toluene exposure into atmosphere.
- Bund walls to restrict occasional leakages / accidental spillages.
- State of the art double mechanical seal pumps for material transfer.

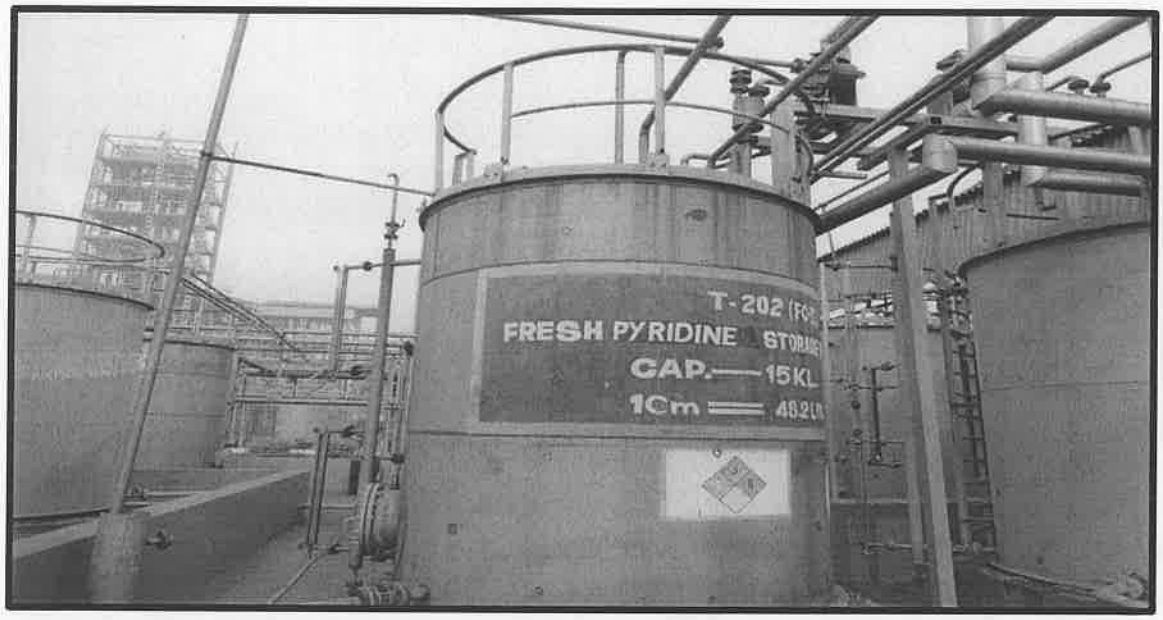
Schematics of vent chiller / condenser & nitrogen blanketing is enclosed for reference





PRV for N2 Blanketing | SRV for N2 Blanketing | Breather Valve

Nitrogen Blanketing System On Storage Tanks



Chiller attached to vent of fresh pyridine Storage tank at CPC plant.

Dust Suppression

We have developed layers of tree plantation near boundary walls.

Now as a additional effort towards dust suppression , we have installed fixed sprinkler system across the railway line during loading and unloading of coal.

In addition to above efforts, we have installed Dust extraction and Dust suppression system on coal converys.

As well as we have installed ESPs and ash silos for storage of Fly ash and running dust collector machine for sweeping of roads

Other Facilities For Pollution Control

Secured Landfill

JVL is committed for safe, systematic and scientific waste management techniques. In order to dispose the hazardous wastes such as incinerated ash and spray dried solids etc. in safe and scientific way, JVL has developed a Secured Landfill (SLF) first in U.P of capacity 11,000 MT (first cell) & 25000 MT (Second cell) for captive use . The design of the landfill is given by National Productivity Council & is as per the CPCB guidelines.

Ash Pond

The ash pond is located around 2.2 km west of the existing plant.The ash pond was developed in two phases. The first phase 3.6 lac cubic meter is closed and plantation activity is in-progess whereas the other phase of 3.5 lac cubic meter is used to store the ash generated in emergency.

Part H

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

Sr. No.	Additional Environmental Measures/Investment Proposal
1	Enhance steam condensate recovery from 85% to 90% by installing a flash jet pump and utilizing it in the boiler.
2	Decrease the use of domestic water.
3	Install an ammonia air stripper for pyridine liquid effluent to remove residual ammonia and reduce odor in the MEE and Incinerator areas.
4	Reduce power norms in Pyridine and Picoline plant 2 by replacing irrigation cooler and reaction condenser.
5	Reduce effluent generation in Pyridine and Picoline plant 2 by installing vacuum pump.
6	Reduce effluent norms in 4DMAP by installing a vacuum pump.

Part I

Any other particulars in respect of Environmental protection and abatement of pollution:

1. Greenery development Program:

An afforestation programme at Jubilant Ingrevia Limited is an on going continual activity to provide green cover in and around company area.

During FY 2023-2024, approx. 50000 saplings including species such as Neem, Guava, Mango Kadam, Sheesham, Sagwan etc were planted across 24 villages.

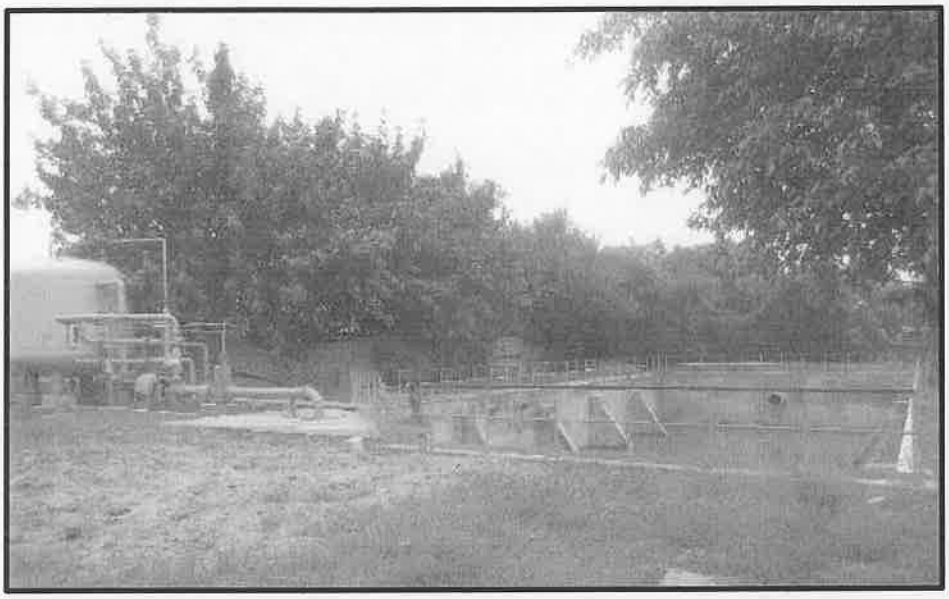
Photographs of plantation is enclosed for reference

Plantation done in FY 2023-24

2. We have adopted 195 NOs. of Village ponds by duly agreement with " Gram Panchyats" and constructed rain water recharge structure at each Pond. Being a joint ownership of ponds we are doing maintenance and cleaning of ponds in pre and post monsoon regularly. As a result, we are able to recharge rain water more than the ground water extracted for indusrial use.

   A List of adopted ponds consisting GPS location, Area of pond and recharge potential is attached as **Annexure-2**

3. A surface water run-off collection pit with a storage capacity of 700 KL was commissioned in the FY 2023-24.



Surface water run-off collection pit

4. 3 NOs of rain water harvesting structure with recharge borewell having a recharge capacity of 450 m^3/day is commissioned.

Rain water harvesting structure

Production Capacity

Annexure -1

Approved Product List as per CCA No. 185981/UPPCB/Bijnore(UPPCBRO)/CTO/both/AMROHA/2023 dated 01.09.2023
Valid Upto 31.08.2028 Jubilant Ingrevia Limited (Chemical Unit-1)

S. No.	Products	Quanity as per CCA	Avg. Production 2023-24
		(TPM)	(TPM)
1	Acetaldehyde	20550	3597
2	Acetic Acid & derivatives	16004.2	108
3	Acetic Anhydride	3250	416
4	Ethyl/butyl Acetate	7452.1	0
5	Formaldehyde	19912.5	4546
6	Diketene Ester Derivatives	500	243
7	Diketene Amide Derivative	333.3	161
8	Diketene Arylide derivatives	500	0
9	Other Ketene & Diketene Derivatives	166.700	0

Approved Product List as per CCA No. 143457/UPPCB/Bijnore(UPPCBRO)/CTO/air/JYOTIBA PHULE NAGAR/2021 dated 23.12.2021
Valid Upto 31.12.2026 Jubilant Ingrevia Limited (Distillery Unit) &
CCA No. 143472/UPPCB/Bijnore(UPPCBRO)/CTO/water/
JYOTIBA PHULE NAGAR/2021 dated dated 23.12.2021
Valid Upto 31.12.2026 Jubilant Ingrevia Limited (Distillery Unit)

Sr. No.	Products	Capacity as per CCA (KLD)	Avg. Production 2023-24 (KLD)
1	Ethyl Alcohol (Non-Monsoon Period)	183	0
2	Ethyl Alcohol (Monsoon Period 15 June to 15 September)	133	0

Approved Product List as per CCA No. 174574/UPPCB/Bijnore(UPPCBRO)/CTO/both/AMROHA/2023 dated 24.11.2023
Valid Upto 31.12.2027 Jubilant Ingrevia Limited (Power Plant)

S. No.	Products	Capacity as per CCA (MW)	Power Generation 2023-24 (MW)
1	Power generation	48	11.012

Approved Product List as per CCA No. 170084/UPPCB/Bijnore(UPPCBRO)/CTO/both/AMROHA/2022 dated 24.11.2023
Valid Upto 31.12.2027 Jubilant Ingrevia Limited (Chemical Unit-2)

S. No.	Products	Quanity as per CCA	Production 2023-24
		(TPA)	(TPA)
1	Pyridine & Picoline	90000	40072
2	3 Cyano Pyridine and 4 Cyano Pyridine	6826	2594
3	Lutidine & Collidine and Derivatives	1500	960
4	Amino Pyridine and Deriviatives	1600	786
5	Piperidine and Derivatives	860	229
6	Pyridine carboxylic acids and derivatives	1825	306
7	Chloro/Fluoro/Bromo/Hydroxyl Pyridine and derivatives	2920	368
8	Pyrazine and derivatives	1095	0
9	Vinyl Pyridines	548	0
10	Catalyst for pyridine carboxylic acids	548	25
11	Pyridine ethanol/ Aldehydes & Ketone derivatives	365.04	112
12	Cycloalkino pyridine & derivatives and aliphatic derivatives	27.36	0
13	Aromatic derivatives	155	8
14	Quinoline derivatives	20.04	0
15	Hydrogenated & Aliphatic Amines Derivatives	495	0
16	Pyrimidine derivative	20.04	0
17	Alkyl Pyridine Mixture	4000	371
18	Piperidine and Derivatives (Repackaging & Trading)	1999.44	0
19	Aliphatic derivatives	50.00	0
20	Per acetic acid	1500	0
21	Sanitizer	2400.00	0

Annexure-2

Details of Recharge structure constructed

S.No.	Name of Village	Latitude	Longitude	Actual Pond area, as per Khasra, m2	Recharge Potential Cum
1	Koural	28°59'08.27"	78°20'46.73"	4050	19190.9
2	Ajjalpur Loot	28°53'16.8"	78°18'17.8"	5790	28226.3
3	Lambia	28°54'19.8"	78°16'55.8"	7890	30771.0
4	Kumrala	28°50'19.4"	78°12'24.7"	5140	30069.0
5	Kuwakhera	28°55'28.5"	78°18'03.7"	40720	238212.0
6	Chuchela Kala	28°59'57.70"	78°15'41.98"	11040	64584.0
7	Sultan Ther	28°47'15.91"	78°13'04.81"	4500	13338.0
8	Jalalpur Kalan	28°50'41.29"	78°19'27.14"	5880	34398.0
9	Dhakiya Bhoor	28°53'13.01	78°15' 13.07	11490	36969.1
10	Chandarpur Khadar	28°33'39.87	78°16' 43.79	4250	10773.8
11	Chohadpur/Salarpur	78°17'03.24"	28°49'47.92"	2350	12418.6
12	Dhanori Mafi I	78°33'40.91"	28°81'44.93"	4780	27963.0
13	Moharka	28°48'19.21"	78°11'08.23"	2080	12168.0
14	Moharka	28°48'19.33"	78°11'05.12"	1880	10998.0
15	Mohraka	28°49'18.48"	78°11'16.7892"	1380	8073.0
16	Mohraka	28°48'52.56"	78°11'25.7244"	1040	6084.0
17	Shahpur Farraspura	28°50'45.09"	78°29'08.79"	13190	77161.5
18	Patai Kalsa	28°48'26.31"	78°33'41.11"	17250	100912.5
19	Haiwatpur Banjara	28°42'47.52"	78°20'1.44"	3600	21060.0
20	Haiwatpur Banjara	28°42'57.24"	78°19'26.23"	2430	14215.5
21	Daudpur Jageer	28°42'42.12"	78°20'1.38"	2630	15385.5
22	Daudpur Jageer	28°40'36.12"	78°21'8.65"	1650	9652.5
23	Daudpur Jageer	28°42'40.68"	78°19'41.5128"	14200	83070.0
24	Telipura Khalsa	28°46'7.32"	78°23'12.63"	7710	45103.5
25	Telipura Khalsa	28°46'10.56"	78°22'57.44"	10400	60840.0
26	Ghosipura	28°46'58.44"	78°22'31.84"	1900	11115.0
27	Sevda	28°39'20.16"	78°27'59.37"	6080	35568.0
28	Rajha	28°41'44.88"	78°29'10.31"	13590	79501.5
29	Ainchora Kamboh	28°41'58.20"	78°28'08.82"	4080	23868.0
30	Ainchora Kamboh	28°41'52.44"	78°28'32.88"	4330	25330.5
31	Ainchora Kamboh	28°42'22.68"	78°28'17.77"	2350	13747.5
32	Ainchora Kamboh	28°42'31.68"	78°28'28.02"	3040	17784.0
33	Nehroli	28°43'12.72"	78°28'32.99"	6070	35509.5
34	Nehroli	28°43'12.36"	78°28'32.08"	5140	30069.0
35	Nehroli	28°43'28.92"	78°28'29.7228"	10190	59611.5
36	Aitmadpur Bhatpura	28°43'18.84"	78°29'44.26"	3120	18252.0
37	Ekrotiya	28°42'12.24"	78°30'46.86"	5470	31999.5
38	Kurkawali	28°37'21.00"	78°30'15.33"	5260	30771.0
39	Kurkawali	28°37'26.76"	78°30'15.96"	4500	26325.0
40	Kurkawali	28°38'04.92"	78°30'58.89"	2750	16087.5
41	Baserataga	29°02'40.32"	78°28'18.20"	12590	73651.5
42	Tokra	28°51'48.6"	78°10'48.6588"	3400	19890.0
43	Tokra	28°51'46.8"	78°10'47.4096"	1780	10413.0
44	Manni Khera	28°38'35.16"	78°25'33.78"	5470	31999.5
45	Manni Khera	28°38'27.24"	78°26'35.60"	8370	48964.5
46	Koural	28°58'41.67"	78°20'37.65"	8410	49198.5
47	Koural	28°59'19.17"	78°20'49.68"	7450	39079.0
48	Rajehda Bahadurpur	28° 45' 42.696" N	78° 21' 30.024" E	12750	57183.8
49	Dhakka	28°41'51.13"	78°22'54.13"	6340	37089.0
50	Katai	28°48'42.87"	78°17'29.60"	8900	49114.7
51	Kuda Mafi	28°57'10.13"	78°20'47.28"	24890	117941.3
52	Agrola Kala	28°45'58.55"	78°14'10.61"	15000	87750.0
53	Aalampur	78°28'12.21"	28°79'53.11"	4080	23868.0
54	Dhanori Mafi IV	78°33'36.93"	28°81'76.02"	400	2340.0
55	Fhattepur sumali/ Chitra I	78°24'04.94"	28°89'82.10"	3760	21996.0
56	Salempur	78°24'73.15"	28°87'28.41"	3360	13979.3
57	Bhartal Sirsi	28°36'07.56"	78°30'24.55"	4250	24862.5
58	Bhartal Sirsi	28°36'01.44"	78°30'32.14"	4780	27963.0

S.No.	Name of Village	Latitude	Longitude	Actual Pond area, as per Khasra, m2	Recharge Potential Cum
59	Bhartal Sirsi	28°36'06.12"	78°29'33.61"	4620	27027.0
60	Khagupura	28°36'23.40"	78°31'43.27"	6920	40482.0
61	Dahpa	28°38'30.60"	78°27'24.43"	8090	47326.5
62	Dahpa	28°38'28.14"	78°26'59.27"	6920	40482.0
63	Dahpa	28°38'34.80"	78°26'49.20"	3930	22990.5
64	Dahpa	28°38'48.66"	78°27'12.40"	3760	21996.0
65	Dahpa	28°38'54.44"	78°27'02.43"	2550	14917.5
66	Dahpa	28°38'48.14"	78°26'56.78"	1240	7254.0
67	Rudayan	28°30'02.90"	78°29'37.15"	7710	45103.5
68	Mehrana	28°34'44.76"N	78°27'3.09"E	3280	19188.0
69	Mehrana	28°34'9.84"N	78°28'0.11"E	1090	6376.5
70	Sujadpur	28°34'45.59"N	78°28'4.37"E	1300	7605.0
71	Sujadpur	28°34'36.12"N	78°28'9.70"E	2900	16965.0
72	Sujadpur	28°34'9.84"N	78°28'0.36"E	2830	16555.5
73	Sirsa Kumar	28°54'38.91"	78°31'50.26"	7570	44284.5
74	Imaliya	29°03'53.14"	78°17'55.95"	11630	68035.5
75	Adalpur Samdoo	29°02'26.30"	78°26'03.91"	7200	42120.0
76	Sakatpur	28°44'14.8554"	78°30'25.2354"	20240	118404.0
77	Isapur Shumali/ Musslcpur	28°56'54.24"	78°16'42.456"	5300	31005.0
78	Isapur Shumali/ Musslcpur	28°56'27.6"	78°15'44.5572"	9260	54171.0
79	Halpura	28°55'44.04"	78°19'52.9176"	6190	36211.5
80	Pheena	29°4'12"	78°21'15.3072"	4810	28138.5
81	Pheena	29°4'1.92"	78°21'19.1772"	6830	39955.5
82	Pali ki Mandaiya	28°38'54.6432"	78°29'54.9996"	9200	53820.0
83	Pali ki Mandaiya	28°38'21.9732"	78°29'38.3604"	6770	39604.5
84	Daudpur Jageer	28°42'47.52"	78°20'1.4316"	2630	15385.5
85	Jiwai	28°48'42.84"	78°35'49.8732"	6480	37908.0
86	Itala mafi	28°47'56.50"	78°38'22.15"	26400	154440.0
87	Barahi/Mohammadpur	28°40'12.85"	78°38'39.35"	45200	264420.0
88	Koural	28°58'12.56"	78°20'19.28"	9060	53001.0
89	Koural	28°58'41.55"	78°20'37.60"	17890	104656.5
90	Koural	28°58'37.33"	78°21'08.52"	9630	56335.5
91	Rahamapur Khasla	28°48'21.84"	78°18'56.55"	12830	75055.5
92	Sadarpur	28°48'16.51"	78°19'48.62"	13310	77863.5
93	Soharka	28°44'33.9"	78°14'54.5"	4700	27495.0
94	Gangeshwari	28°33'14.2"	78°16'51.4"	5950	34807.5
95	Mohammadabad	28°46'31.98"	78°09'55.62"	11700	45630.0
96	Chuchela Kala	29°00'01.03"	78°16'09.54"	6280	29757.8
97	Chuchela Kala	29°00'21.89"	78°16'41.45"	5100	29835.0
98	Neeli Kheri	29°01'44.44"	78°13'50.48"	4660	19355.3
99	Neeli Kheri	29°01'35.99"	78°13'41.66"	4050	16979.6
100	Faiyaj Nagar	28°49'33.48"	78°23'29.96"	6070	35509.5
101	Faiyaj Nagar	28°49'36.52"	78°23'42.57"	5060	23976.8
102	Katai	28°48'45.93"	78°17'27.85"	12460	59041.7
103	Katai	28°48'26.68"	78°17'12.41"	10520	61542.0
104	Jihal	28°44'35.25"	78°24'14.65"	8220	48087.0
105	Nagalia	28°52'0.87"	78°10'47.47"	10040	58734.0
106	Chandarpur Khadar	28°33'47.30"	78°17'32.86"	28530	158555.5
107	Nawada	78°15'42.13"	28°49'20.38"	4010	19001.4
108	Dhanori Mafi II	78°32'81.26"	28°81'03.53"	1170	6844.5
109	Dhanori Mafi III	78°33'34.39"	28°81'84.77"	490	2866.5
110	Fhattepur sumali/ Chitra I	78°24'66.90"	28°90'88.02"	9390	54931.5
111	Manni Khera	28°38'6.72"	78°25'55.9668"	7350	42997.5
112	Rajpura	28°41'48.48"	78°21'25.6788"	2060	12051.0
113	Tuklabad	28°45'31.68"	78°24'50.2524"	1980	11583.0
114	Asmoli	28°42'2.16"	78°31'44.8716"	4860	28431.0
115	Hasanpur	28°48'4.9968"	78°35'29.8104"	9160	53586.0
116	Hatwa	28°49'11.28"	78°30'15.0624"	1460	8541.0
117	Hatwa	28°49'14.16"	78°30'12.096"	1340	7839.0
118	Fasgari (Hatwa)	28°49'14.16"	78°30'12.1104"	1250	7312.5
119	Bhikanpur Mundha	28°47'29.76"	78°31'9.84"	3360	19656.0
120	Bhikanpur Mundha	28°47'7.8"	78°30'58.5324"	7290	42646.5
121	Bhikanpur Mundha	28°47'13.2"	78°30'58.0716"	2020	11817.0
122	Bhikanpur Mundha	28°47'13.56"	78°30'57.2364"	1300	7605.0
123	Bhikanpur Mundha	28°46'58.08"	78°30'59.472"	1630	9535.5
124	Bhikanpur Mundha	28°47'4.56"	78°30'58.3128"	6720	39312.0
125	Tikiya	28°48'30.96"	78°30'5.6376"	4050	23692.5
126	Dulepur band urf Darapur	28°45'5.2056"	78°30'21.1752"	8250	48262.5
127	Emliya	29°3'55.08"	78°17'54.5928"	10120	59202.0
128	Emliya	29°4'13.44"	78°17'42.198"	12650	74002.5

S.No.	Name of Village	Latitude	Longitude	Actual Pond area, as per Khasra, m2	Recharge Potential Cum
129	Sarakthal	29°3'24.12"	78°20'1.0824"	5310	31063.5
130	Bhudan pur Bilayat Nagar	28°49'5.16"	78°34'10.6824"	4290	25096.5
131	Dhaki	28°59'30.48"	78°36'1.6488"	12990	75991.5
132	Jamuna Khas	29°2'11.4"	78°29'20.1408"	6680	39078.0
133	Adalpur Samdoo	29°2'48.48"	78°26'20.76"	7210	42178.5
134	Haripur Milak	28°43'58.5078"	78°27'56.5344"	6960	40716.0
135	Gyanpur Sisona	28°54'52.9194"	78°19'6.7902"	16680	97578.0
136	Gyanpur Sisona	28°55'37.1994"	78°19'26.8356"	4700	27495.0
137	Gyanpur Sisona	28°55'38.2794"	78°19'54.159"	6520	38142.0
138	Gyanpur Sisona	28°55'44.0394"	78°19'52.9176"	4130	24160.5
139	Gyanpur Sisona	28°55'16.6794"	78°37'4.4538"	4500	26325.0
140	Gyanpur Sisona	28°58'50.1594"	78°24'57.7296"	6230	36445.5
141	Kathna	28°40'57.9354"	78°26'19.734"	4520	26442.0
142	Chittawali	28°42'20.0772"	77°46'15.7686"	8740	51129.0
143	Chittawali	28°41'40.5378"	77°46'3.8676"	3720	21762.0
144	Hoshangpur	28°51'47.7"	78°17'52.8"	4820	28197.0
145	Nagalia	28°52'10.9"	78°18'01.7"	5180	30303.0
146	Karanpur Mafi	28°44'23.1"	78°18'41.1"	19790	115771.5
147	Shekhpur Jakri	28° 43' 56.712" N	78° 19' 3.936" E	33570	196384.5
148	Berkhera	29°00'02.3"	78°11'49.5"	5790	33871.5
149	Sujmana	28°56'53.0"	78°10'04.0"	10800	63180.0
150	Chuchela Kala	29°00'35.55"	78°16'36.58"	5300	31005.0
151	Galsua	28°41'13.32"	78°21'53.46"	22780	133263.0
152	Bartora	28°34'16.13"	78°14'31.88"	4170	11384.1
153	Agrola Kala	28°46'10.82"	78°14'07.96"	38500	225225.0
154	Rajheda Bahadurpur	28° 45' 28.332" N	78° 20' 23.964" E	12340	72189.0
155	Rajheda Bahadurpur	28° 45' 36.216" N	78° 20' 48.66" E	17000	99450.0
156	Patai Kalsa	28°48'5.04"	78°34'28.7256"	4500	26325.0
157	Kailsa	28°52'4.44"	78°33'32.7564"	7980	46683.0
158	Kadarpur Masti	28°40'29.7624"	78°44'45.564"	6360	37206.0
159	Kadarpur Masti	28°40'48.5364"	78°44'35.7"	27680	161928.0
160	Harthala	28°42'41.04"	78°35'26.1996"	11520	67392.0
161	Harthala	28°42'20.52"	78°36'4.0032"	13470	78799.5
162	Harthala	28°42'17.64"	78°36'9.6228"	11640	68094.0
163	Harthala	28°41'1.68"	78°36'39.9996"	14410	84298.5
164	Sisota Milak	28°42'20.52"	78°36'4.0032"	8740	51129.0
165	Tanda	28°48'8.73"	78°18'8.064"	8740	51129.0
166	Karanpurmafi	28°44'23.7192"	78°18'40.932"	19790	115771.5
167	Siali Jagir	28°48'1.7352"	78°16'32.736"	7330	42880.5
168	Chakori	28°44'7.2312"	78°20'31.65"	9790	57271.5
169	Seikhpur Jhakri	28°43'58.9656"	78°19'2.82"	6640	38844.0
170	Rajheda	28°45'35.0388"	78°20'47.9904"	17000	99450.0
171	Rajheda	28°45'42.5916"	78°21'29.844"	12750	74587.5
172	Brahmawaad	28°42'14.4432"	78°21'26.928"	14000	81900.0
173	Badhraula	28°35'34.0872"	78°28'0.084"	6150	35977.5
174	Badhraula	28°35'31.8228"	78°28'0.5772"	6720	39312.0
175	Rahra	28°32'04.09"	78°18'51.1"	4290	25096.5
176	Rahra	28°31'44.41"	78°19'01.08"	11970	70024.5
177	Lakhori Jalalpur	28°35'27.9888"	78°29'37.2588"	20920	122382.0
178	Lakhori Jalalpur	28°35'7.7532"	78°30'11.7"	12750	74587.5
179	Lakhori Jalalpur	28°34'58.3896"	78°29'31.7652"	13960	81666.0
180	Lakhori Jalalpur	28°35'39.1128"	78°29'39.8112"	10800	63180.0
181	Bhatola	28°33'36.3276"	78°29'4.0524"	8090	47326.5
182	Bhatola	28°32'54.8808"	78°28'10.3296"	6560	38376.0
183	Jujhclachak	28°59'14.3376"	78°12'2.844"	10720	62712.0
184	Chandnagar	28°52'24.4596"	78°22'20.0568"	7090	41476.5
185	Chandnagar	28°52'28.29"	78°22'35.22"	7050	41242.5
186	Chandnagar	28°52'34.2984"	78°22'58.6452"	7170	41944.5
187	Chandnagar	28°52'16.8312"	78°22'44.0076"	6760	39546.0
188	Melesiya	28°57'9.3132"	78°17'19.3884"	9000	52650.0
189	Sirsa Kumar	28°54'38.91"	78°31'50.26"	7570	44284.5
190	Jiwai	28°48'42.84"	78°35'49.8732"	6480	37908.0
191	Hakampur	28°38'7.4292"	78°16'11.676"	9380	54873.0
192	Amhera	29°15'49.179"	78°17'15.1182"	6410	37498.5
193	Amhera	29°15'20.6886"	78°16'58.8102"	6450	37732.5
194	Bhadora	29°40'20.6886"	78°16'56.82"	5470	31999.5
195	Bhadora	29°41'18.6886"	78°18'50.46"	4660	27261

CSR Activities

1. Haqdarshak: A project focussed on empowering social security

Jan Suvidha Kendra in Gajraula is run by Haqdarshak Empowerment Solutions Pvt. Ltd in association with Jubilant Bhartia Foundation (JBF). The objective of the project is to enhance and strengthen the social security by creating regular interventions in villages to raise awareness, alertness, about the current government schemes and social security provisions. Haqdarshak & JBF regularly intervenes through organizing camps and facilitating applications of the eligible candidates and members to government. Under this campaign camps are organised in Amroha villages of Bhagwanpur, Rahimpur, Yakoobpur, Shahpur, Nouner, Moharkapatti, Sihali Jageer, Rahmapur Mafi, Baseli, Kasurva, Naipura, Simthala Khanaura, Sihali Jageer, Chhapna, Matipura, Sultanther, Karmalipur.

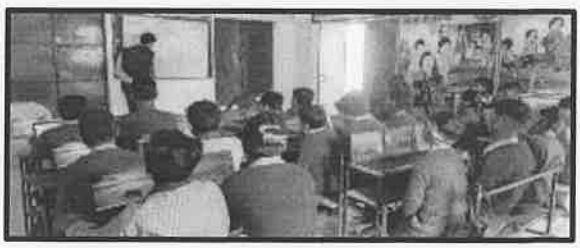
The Haqdarshak JBF team has organized training sessions for Haqdarshak agents to provide refresher training

All Scheme Camp in Bhagwanpur, Amroha

Haqdarshak Agents' Training Meet

2. HP Continued Learning Access Program (CLAP)

The HP CLAP project aims to enhance, promote, and strengthen digital literacy in rural areas of Amroha. The project operates through a vehicle equipped with 120 Chromebooks, following a planned schedule in consultation with the district education department. A computer trainer teaches the syllabus to school students. There are two well-researched syllabi for different grades. Students in grades 6-8 learn the basics of computers, computer devices, typing, file management, MS Paint, MS Word, shortcut keys and extensions, computer settings, MS Excel, and more. Students in grades 9-12, in addition to the above topics, receive a certified course through the HP Life portal focused on upskilling.



3. Muskaan Fellowship 2023-24

Project Muskaan Fellowship is a youth development initiative of Jubilant Bhartia Foundation for the overall development of youths. The youth leadership-training program focuses on sensitizing and enhancing the capacity of youth on community issues and providing them an intense experiential learning journey with experts and mentors.

The program is intended to cater to two major development goals all-round development of youth and quality education in schools. The program will emphasize on facilitating the exchange of ideas and thematic discussions, building knowledge in various fields. This program will establish meaningful relationships with these future influencers through a series of skills modules, thematic workshops, fieldwork, exchange of ideas & being a part of the youth cohort network.

Muskaan Fellowship 2023-24 cohort constitutes 35 fellows at Gajraula. First training termed as a three-day engagement by Jubilant Bhartia education coordinators, Jaya Eti Minz, and Azmat Fatima as Learning Retreat 1, was scheduled to provide workshop based engagement to impart leadership skills that will be required and facilitated to the primary and upper primary government school students in Gajraula, Uttar Pradesh was conducted. Muskaan fellows further conducted the activities to enhance confidence, and leadership skills at Composite school Gajraula.

5 Handpump Installation

To ensure, enhance, and increase the accessibility of drinkable water, Jubilant Bhartia Foundation installs hand pumps in the villages of Amroha, around the city of Gajraula. This year JBF has installed 50 hand pumps in the different villages.

6. Kisaan Ghoshti: A 200 farmers meet to discuss the sustainability project 2024.

A 200 farmers' block level meet was organised in Gajraula Uttar Pradesh to discuss and sensitize the farmers' beneficiaries about the upcoming sustainability efforts from Jubilant Bhartia Foundation.

The event was proved to be a multi stakeholder platform where JBF drew the organisational participation of agricultural experts Dr Amit Singh & Dr. Prachi Patel (Krishi Vigyan Kendra, Gajraula), Mr. Ved Prakash (B-Able), Mr. Piyush and Gurinder (Cultivate), Mr. Kaushik & B. P Singh (Gram Unnati) and was moderated by Vikash Kumar (Manager, JBF). The farmers were given a demo about the technological inventions of Cultivate, a sensor which can give a real time message and broadcast the details of the soil moisture on the registered mobile phone of the farmer. This technology directly impacts the water consumption, electricity consumption, and methane production from the fields. It reduces the electricity input cost for a farmer save on electricity bills.