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JUBILANT INGREVIA

JVL/EHS/ENV/2023/242

September 07, 2023

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 2022-23 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,**

Pravesh

(Authorized Signatory)
Amit Pandey
(Cluster Head 1- Utilities & Engineering)

Ro Copy Received
26/9/2023
क्षेत्रीय कार्यालय
एच0पी0 प्रदूषण नियन्त्रण
महर्षि दयानन्द नगर, निकट सैन
चक्कर रोड, बिजनौर-246

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

Jubilant Ingrevia Limited
Bhartiagram, Gajraula
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www.jubilantingrevia.com

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Tel: +91 120 4361000
Fax: +91 120 4234895-96

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

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Form V
(See Rule 14)

Environmental Statement for the financial year ending on 31st March 2023

Part A

Name & address of the owner/occupier of the industry operation or process	Amit Pandey Cluster Head 1- Utilities & Engineering 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	**May 24, 2022**

Part B

Water and Raw material Consumption

i. **Water Consumption in M^3/day**

Descrpition	Avg. Quantity (M^3/Day)
Process	3264
Cooling	2190
Domestic	1024

Name of the products	Process Water Consumption per Unit of product (M^3/MT)	
	During previous Financial year (2021-22)	During current Financial year (2022-23)
Ethyl Alcohol	4.07	6.63*
Carbon Dioxide	12.42*	11.09
Acetaldehyde	2.70	2.62
Acetic Acid	Not manufactured	Not manufactured
Acetic Anhydride	3.28	3.63*
Pyridine & Picoline – 1 & 2	0.13	0.13
Cyanopyridine	-	-
Formaldehyde	0.23	0.23

*Incresed 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 (2021-22)	During current Financial year (2022-23)
Molasses	Alcohol (KBL)	4.44	4.28
Alcohol	Acetaldehyde	1.09	1.15
Ethyl Alcohol	Ethyl Acetate	0.72	-
Methanol	Formaldehyde	0.42	0.43
Ammonia	Pyridine and Picoline 1&2	0.41	0.41
Ammonia	3 Cyano pyridine	0.45	0.42
Ammonia	4 Cyano pyridine	0.57	0.60

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 further concentrated in MEE and finally utilized for composting / Incineration. Permeate from RO plant and Condensate from MEE is utilized back in process and cooling tower make up. **No discharge from Distillery Unit and 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 ETP followed by RO. Permeate of RO utilised in cooling tower makeup and reject used for coal dust suppression. **No discharge and 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 Zero Liquid Discharge status is being maintained.**	
	Power plant	Not Applicable as Unit is ZLD	Utility effluent from WTP and Cooling towers blowdown are treated in RO. The RO reject is utilized for wet ash handling system/Dust Supression. Clear permeate is utilized as make up in cooling towers. **No discharge and 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 - 38.66 mg/Nm3 (Average value for FY 22-23 stack monitoring)		Well within prescribed norms of UPPCB
	Liquid Waste Incinerator I	SPM - 37.75 mg/Nm3 (Average value for FY 22-23 stack monitoring)		
	Liquid Waste Incinerator II	SPM - 36.75 mg/Nm3 (Average value for FY 22-23 stack monitoring)		
	Liquid Waste Incinerators III	SPM - 33.50 mg/Nm3 (Average value for FY 22-23 stack monitoring)		
	Thermal Oxidizer -I	SPM - 35.88 mg/Nm3 (Average value for FY 22-23 stack monitoring)		
	Thermal Oxidizer -II	SPM - 36.45 mg/Nm3 (Average value for FY 22-23 stack monitoring)		

	Slop Fired Boiler	SPM - 37 mg/Nm3 (Average value for FY 22-23 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(2022-23)**
From Process	AC2O	Dopp kettle residue	41.87
	EA 1/2/3	Dopp kettle residue	0
	Acetic acid & Derivative	Spent catalyst / Solids	3.1
	Acetic acid & Derivative	Dopp kettle residue	0
	Diketene & Derivatives	Residue waste	0
		Tarry waste/residual mass	0
	Cyano Pyridines,	Kettle Distillation residue	1.042
	Pyridine & Picoline & Derivative	Spent catalyst from Pyridine	55.713
	Fine Chemical / Solvent Recovery Plant Section	Distt. Residue	913.223
	Fine Chemical / Pyridine	Waste charcoal / Spent Carbon	0
	QC/Kilo /R&D lab waste	Discarded chemicals	0.69
	From all sections of plant	Tank sludge	0
	From all sections of plant	Contaminated Polythene / drum/packing material	87.96
	Wastes utilized as PPE or generated during maintenances	Used PPEs , Hand gloves and Cotton etc used during maintenance of equipments	0.07
	Degradation/ contamination of products due to break down or process equipment failure or other reasons.	Contaminated / Off specification products	3.522
	Discarded insulation material Used Glass wool	Contaminated and used themocol generated after changing the insulation.	0
		Contaminated and used glass wool generated after changing the insulation.	0
	Pyridine derivatives	Distillation Residue	0
	Inorganic raffinate	Effluent from Pyridine derivatives and Fine chemicals.	10739.58
	Organic Raffinate effluent (High TDS and High COD)	Effluent from Pyridine derivatives and Fine chemicals.	59330.38
	Tarry waste	Tarry residue generated from coal	0
	Pyridine	Pyridine residue	6069

	Pyridine Derivatives	Spent solvent	325.14
	Utilities	waste/ Used oil	14.378
	Fine Chemical section	Spent catalyst	0
	Formaldehyde	Spent catalyst	18
	E-waste	E-waste Scrap	0
	Glass and plastic bottles utilized for sampling in lab Utilities	Discarded sampling / Reagent bottles	1.32
	Spent Caustic lye	Spent Caustic lye generated from fine chemical plant	1597.48
	LSHS (Low sulphure heavy stock) Oil Sludge.	LSHS (Low sulphure heavy stock) Oil Sludge generated from DG	51.874
	Utility (DM Plant) and Power plant	Spent resin	0
	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
	Fine Chemical Section	Spent Dilute Sulphuric Acid generated from plant	0
	Fine Chemical section	NaBr /KBr/HBr /NH4Br Solution etc. or salt	42.152
	Spent Dilute Acetic Acid	Spent Dilute Acetic Acid genrated from fine chemical plant	0
	Drum Decontamination section	Contaminated Empty Barrels/Containers/Drums	0
	Distillery / Pyridine	Exhausted sieves	0
	CO2 Plant	PPM & Scrubber sludge	0.559
	R&D / QC	Lab waste	0
	Pyridine derivatives	Spent Catalyst	0
	Miscellaneous waste	Asbestos Gasket and other asbestos containing materials	0
	SPVA	Catalyst waste from ATFE condenser	0
	SPVA & WOOD FINISH	Asbestos Gasket and other asbestos containing materials	0
	Sulphuric acid	Spent Catalyst	0
	Fertilizer	Asbestos Gasket and other asbestos containing materials	0
From Pollution Control Facilities	CTRO	Silica Sludge	53.5
	CETP	Chemical Sludge from drying beds/ Sludge Dewatering Unit	52.48
	Incinerator	Incineration Ash	0
	Spray Dryer/ ATFD Salt	Spray dried solids/ ATFD Salt	2010.345

Part E

Solid Wastes

Solid Waste	Total Quantity Disposed (MT)	
	During last financial year (2021-22)	During current financial year (2022-23)
Fly Ash	115460	108806

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	Utilisation as per SOP released by CPCB under Rule 9

	from external source as per CPCB SOP 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 2022-23.

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-2022-23		
#	Details	Avg (M^3/Day)
1	Utilization of Condensate	1268
3	Utilization of MEE - 1 & 2 Condensate	477
5	Utilization Distillery MEE CPU Permeate	381

6	Utilization of treated sewage water in Horticulture	236
7	Utilization of Distillery RO-II permeate in process	146
8	Utilization of ETP RO Permeate in process	245
9	Utilization of CTRO Permeate in process	689
Total		3442

Effluent Reduction:

- Recycling of Raffinate in Process in 3CP plant
- Reduction of DMA Effluent from Process in FC-4 plant
- Recycling of acetic acid from Acetic anhydride scrubber in DD Plant
- Recycling of Ammonia in to process from off gas which was earlier incinerated in Thermal oxidizer of P&P2 Plant

Waste Reduction:

- Reduction of Residue from process by recovering valuable product i.e 3,5 Lutidine & JSLV-1 in P&P1

Energy Conservation:

- Scale ban system for Cooling Tower.
- WHRB installation in P&P-1 in R-5.

Air Pollution Management

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

- **Odour Management**

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.

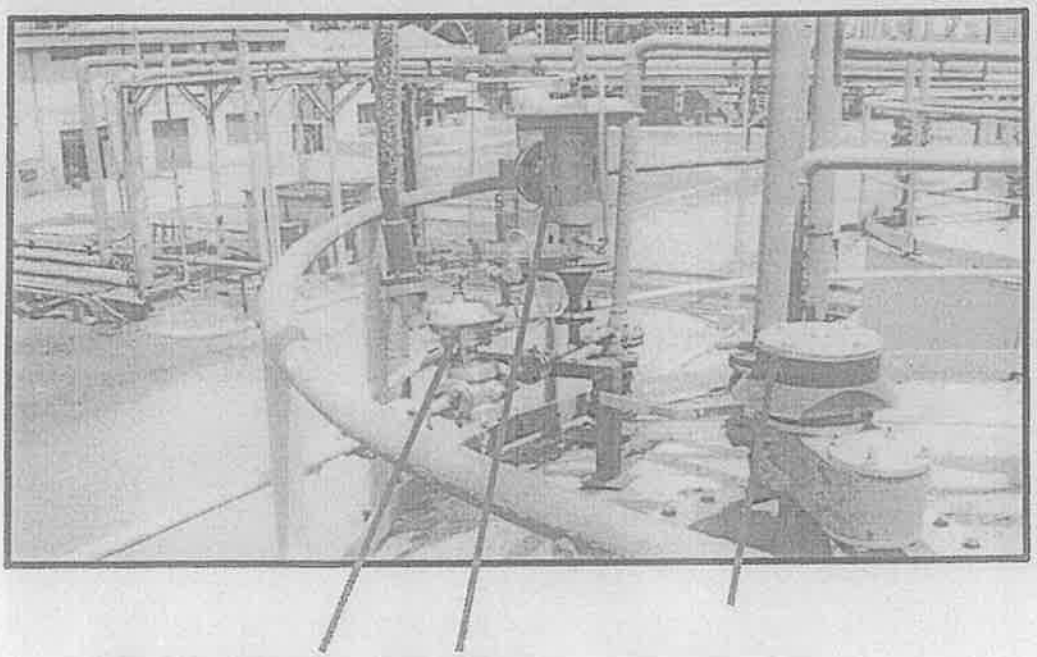
e) Fugitive emissions

- 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

Chiller to reduce the emission so as to reduce vent losses from the tank



PRV for Nitrogen 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.

CO_2 emission from fermentation house

JVL has installed CO_2 recovery plant where CO_2 emitted during fermentation is collected, washed, purified and made suitable for food grade consumption.

The CO_2 collected and washed with water and potassium permanganate and compressed. The CO_2 is further treated with activated carbon to avoid major odour. The unique feature of CO_2 recovery plant is distillation of liquid CO_2 so as to remove the traces of impurities and make it suitable for food grade. It may be noted that JVL is major supplier of CO_2 to M/s Coca Cola and Pepsi in Northern India.

We have also installed Continuous Online Emission Monitoring System for 24x7 hrs monitoring.

In additions to this VOC detector has been installed at main gate to detect VOC levels in ambient air.

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 meeting 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 ash pond 3.6 lac cubic meter is closed and is being rehabilitated with green belt for which plantation has been undertaken. The 2nd ashpond of 3.5 lac cubic meter is used to store the ash generated during emergency when Flyash despatches are stopped due to administrative directions or lack of demand from cement plants.

Part H

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

During FY 2022-23 following initiatives were taken for environment protection through reduction in norms and indirectly reducing environment load.

Sr. No.	Major Environmental Initiatives
1	Replacement of High cost fuel (HSD) to low cost fuel (LSHS) in FC & Lutidine furnace
2	Steam reduction through digitalization
3	Energy Efficient lighting in AI- Ph-3, PP-II, HCHO-II, ACH-7 & CDFP Plant
4	Utilization of biomass (mustard briquette) in AFCB up to 10%
5	Steam norm reduction in AC20-II

Part I

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

1. Greenbelt development Program:

An afforestation programme at Jubilant Ingrevia Limited is an on going continual activity to provide green cover in and around company area to "Freshen Up" the surrounding environment.

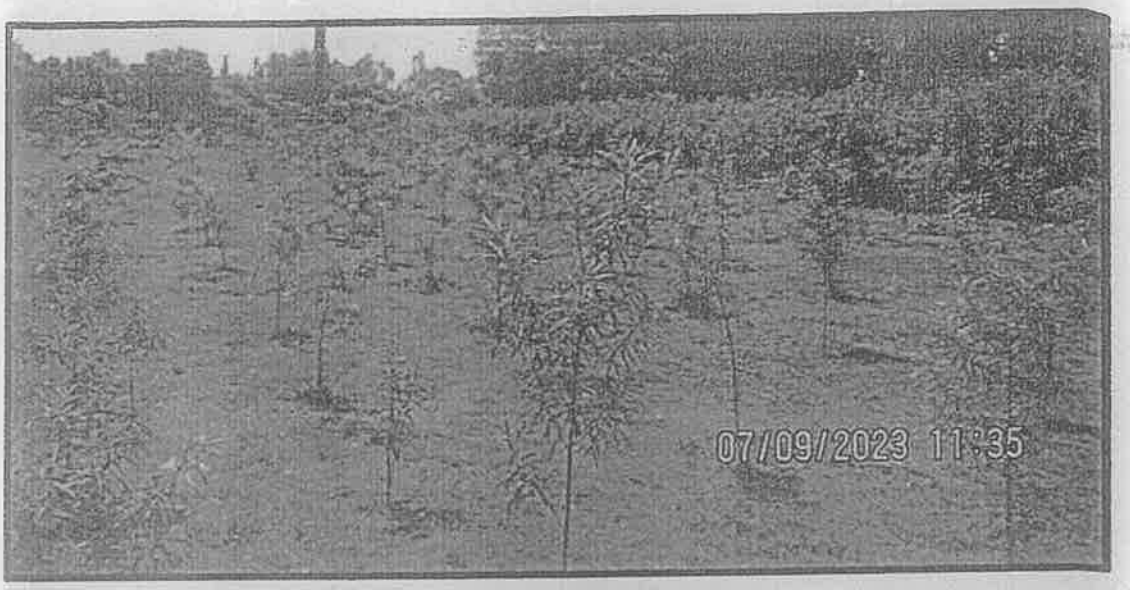
Saplings are planted every year are growing into trees, providing a canopy of Thick foliage all around the plant. Plant species include :

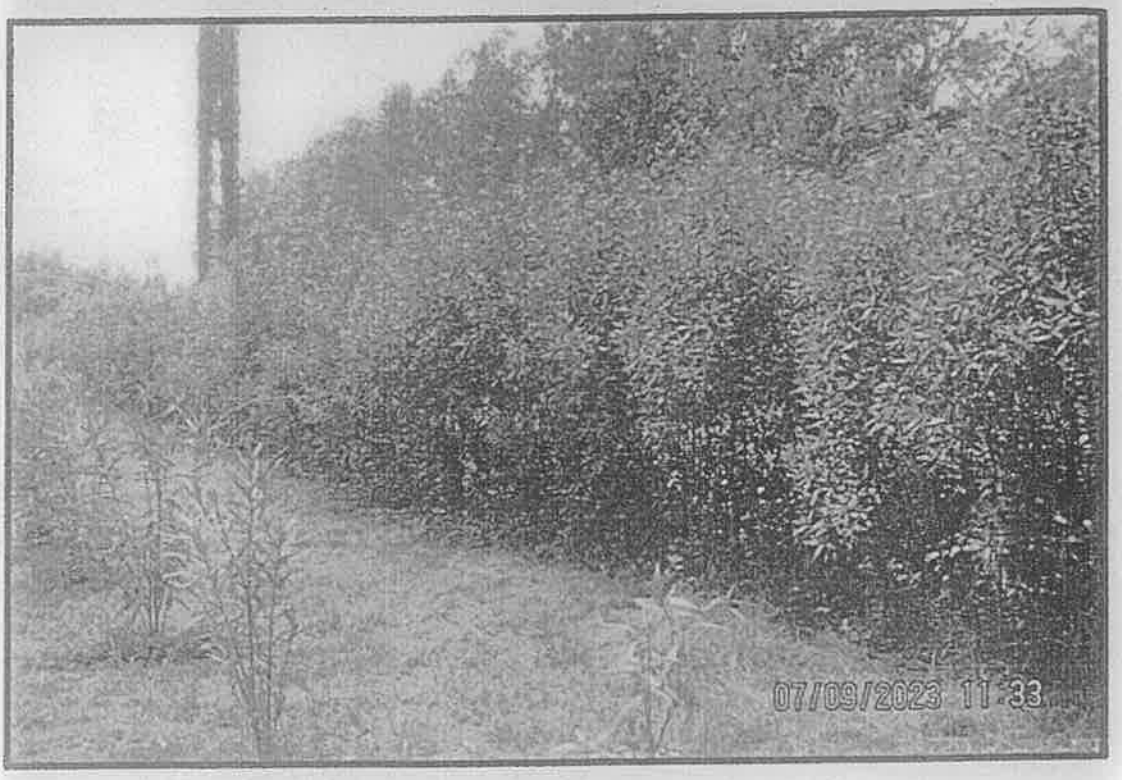
- Kaneir (Nerium oleander)
- Kadam (Neolamarckia cadamba)
- Neem (Azadirachta indica)
- Conocarpus

During FY 2022-2023, approx. 49000 saplings were planted.

Tree plantation in Premises

Trees planted at SLF area





Tree Plantation nearby railway yard

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**

Annexure -1

Approved Product List Chemical Unit – 1

S. No.	Products	Quantity (TPM)	Avg. Production 2022-23 (TPM)
1	Acetaldehyde	20550	4847.92
2	Acetic Acid & derivatives	16004.2	74.33
3	Acetic Anhydride	3250	1452.08
4	Ethyl/butyl Acetate	7452.1	1.42
5	Formaldehyde	11700	6184.25
6	Diketene Ester Derivatives	500	175.08
7	Diketene Amide Derivative	333.3	27.50
8	Diketene Arylide derivatives	500	0.00
9	Other Ketene & Diketene Derivatives	166.000	0.00

Approved Product List Chemical Unit – 2

S. No.	Products	Quantity (TPM)	Avg. Production 2022-23 (TPM)
1	Pyridine & Picoline	4092.33	3038.8
2	3 Cyano Pyridine and 4 Cyano Pyridine	568.83	103.7
	Fine Chemicals		
	MPP products		
3	Lutidine & Collidine and Derivatives	125	68.7
4	Amino Pyridine and Deriviatives	133.33	77.3
5	Piperidine and Derivatives	71.67	17.5
6	Pyridine carboxylic acids and derivatives	152.08	29.3
7	Chloro/Fluoro/Bromo/Hydroxyl Pyridine and derivatives	243.33	86.3
8	Pyrazine and derivatives	91.25	0.0
9	Vinyl Pyridines	45.63	0.0
10	Catalyst for pyridine carboxylic acids	45.63	2.3
11	Pyridine ethanol/ Aldehydes & Ketone derivatives	30.42	10.9
12	Cycloalkino pyridine & derivatives and aliphatic derivatives	2.28	0.0
13	Aromatic derivatives	12.917	0.4
14	Quinoline derivatives	1.67	0.0
15	Hydrogenated & Aliphatic Amines Derivatives	41.25	0.0
16	Pyrimidine derivative	1.67	0.0
17	Alkyl Pyridine Mixture	333.3	27.0
18	Piperidine and Derivatives (Repackaging & Trading)	166.62	0.0
19	Aliphatic derivatives	4.17	0.0
20	Per acetic acid	125	0.0
21	Sanitizer	200.00	0.0

Approved Product List Distillery Unit

S. No.	Products	Capacity	Avg. Production 2022-23
1	Ethyl Alcohol (Non-Monsoon Period)	183 KLD	23.58
2	Ethyl Alcohol (Monsoon Period -15 June to 15 September)	133 KLD	32.03

Approved Product List Power Plant

S. No.	Products	Capacity	Power Generation 2022-23
1	Power generation	37.5 MW through Steam Turbines	15.77
		10.5 MW through DG Sets	2.5

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	Afjalpur 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	Baseratana	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 Susi	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/ Mussiepur	28°56'54.24"	78°16'42.456"	5300	31005.0
78	Isapur Shumali/ Mussiepur	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 1	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	Jujhelachak	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

Community Empowerment Model

By the People for the People

Community Based facilitator

Technology

Projects

Jan Sanchetna

Creating a community based disaster mitigation plan

JUBI

Krishi Mitra

Promoting scientific farming methods for higher income

Pashu Sakhi

Livestock development & care

Paryavaran Sakhi

Environment protection & sensitisation

Swasthya Prahari

Preventive care for Mother & Child Health

JUBI

MUSKAAN FELLOWSHIP

Education

JUBILANT BHARTIA FOUNDATION

Current Projects

- Muskaan Fellowship
- Khushiyon Ki Pathshala
- -MUSKAAN PROJECT "Aiding learning for a Equitable Society"
- HP CLAP Project

New Projects

- Muskaan Kitab Ghar

- Muskaan Science Lab

Key attributes

Goal setting

Students learn the power behind purpose goal setting and expectations and how they impact our success

Time management skills

Students learn to estimate the time required to complete a task, be assertive and negotiate time.

Attitude to failure

Students consider failure as an opportunity rather than an obstacle in their quest for a goal

Traits of a leader

Students learn the character traits of a leader, the importance of courage, taking calculated risks. They also learn how persistence, resilience and acceptance affect their performance in a positive way

Public speaking skills

Students learn ways to present their ideas in a confident, powerful and convincing way. They practice the most effective public speaking techniques and gain tools to express themselves is a very assertive and efficient way.

Creative leadership

Students learn to appreciate their own uniqueness and consider options in a creative way.

Social skills

Students learn the social skills of a leader and the importance of developing these social skills in their leadership role.

Communication skills

Students learn the power of language in communication and relationships. They learn to give and receive a feedback in a productive and empowering way and give conversation tools to avoid conflict and enhance their group relationships.

Support structure

Students understand the importance of their relationships with their families and how those relationships influence their leadership style and success.

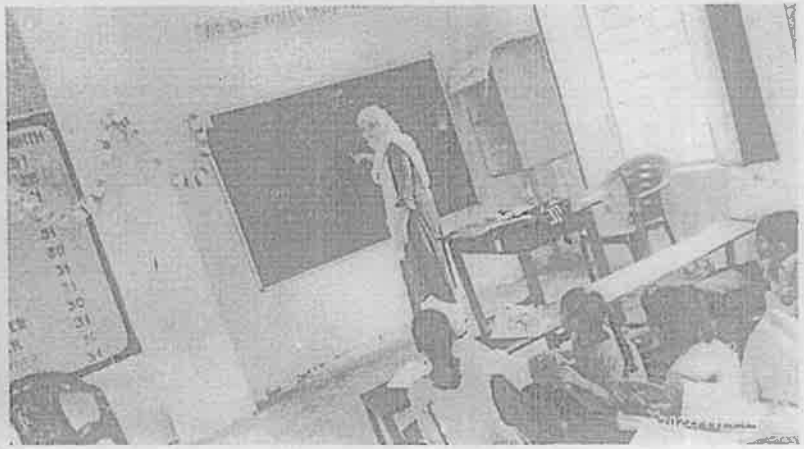
Gender Sensitization

Students understand Gender and Gender Relation,, Gender Mainstreaming, Obstacles to Gender Mainstreaming(Socially), Obstacles and features to making an organization Gender Friendly, Sexual Harassment, Remedies.

Value Education

Orienting the youth to face the outer world with the right attitude and values. Also trained them to work with children to and orient them towards values.

Muskaan Fellowship - Gallery

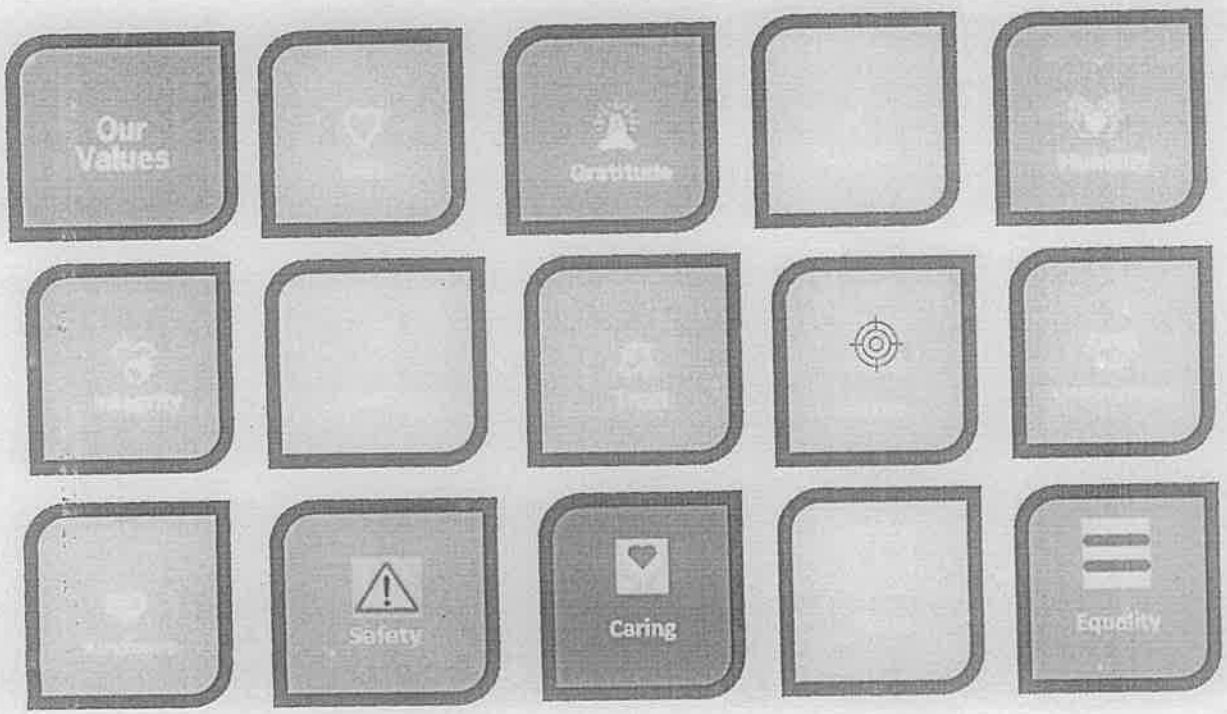


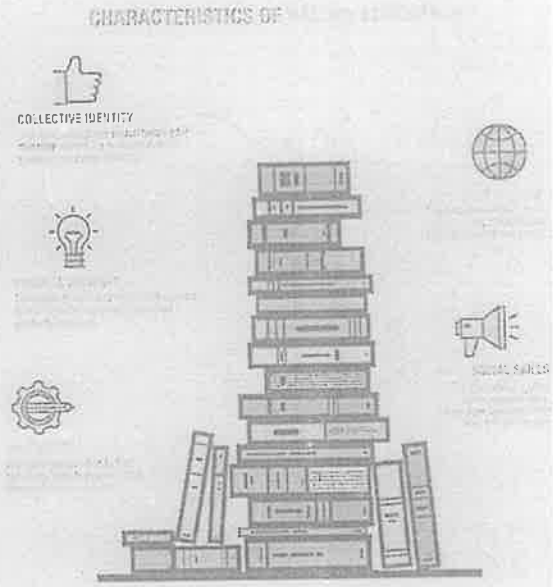
Muskaan Fellowship - Gallery

Muskaan Fellows taking sessions on KKP with the community children

Khushiyon Ki Pathshala (Life Skill Education)

- **Khushiyon Ki Pathshala** (KKP) aims at **orienting the children to face the outer world with the right attitude and values.** It is a process of overall personality development of an individual. It includes character development, personality development, citizenship development, and spiritual development. *in a fun and effective way using a creative and specialized methodology*





65 schools

7500 students will be the direct beneficiaries

65 target Teachers to be trained in TOT

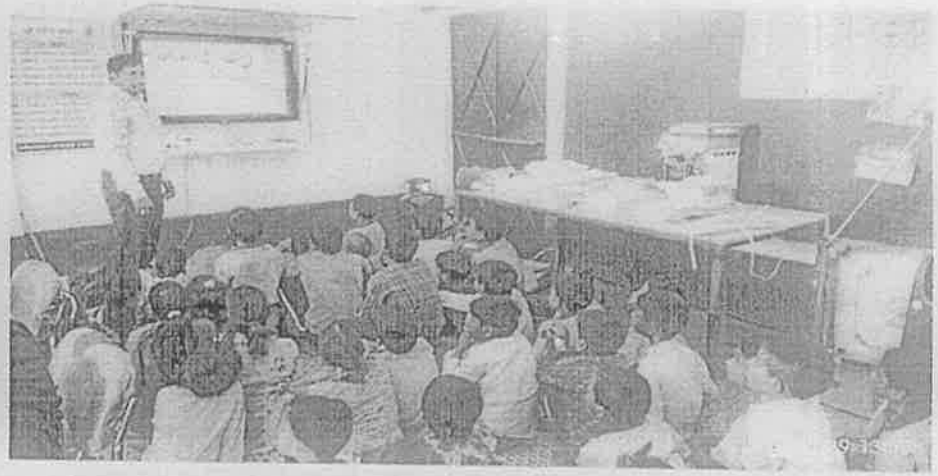
37500 people desired to be impacted indirectly

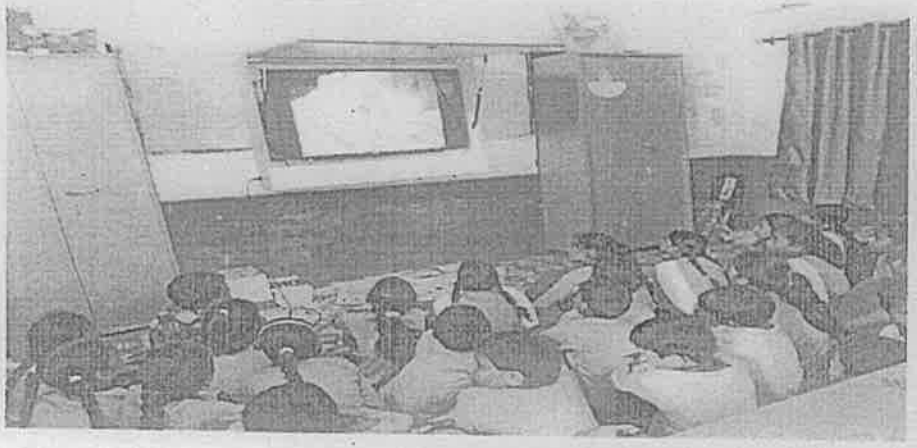
Khushiyon Ki Pathshala - Gallery

Training of Teachers under Khushiyon Ki Pathshala

Khushiyon Ki Pathshala - Gallery

E-Muskaan - Gallery



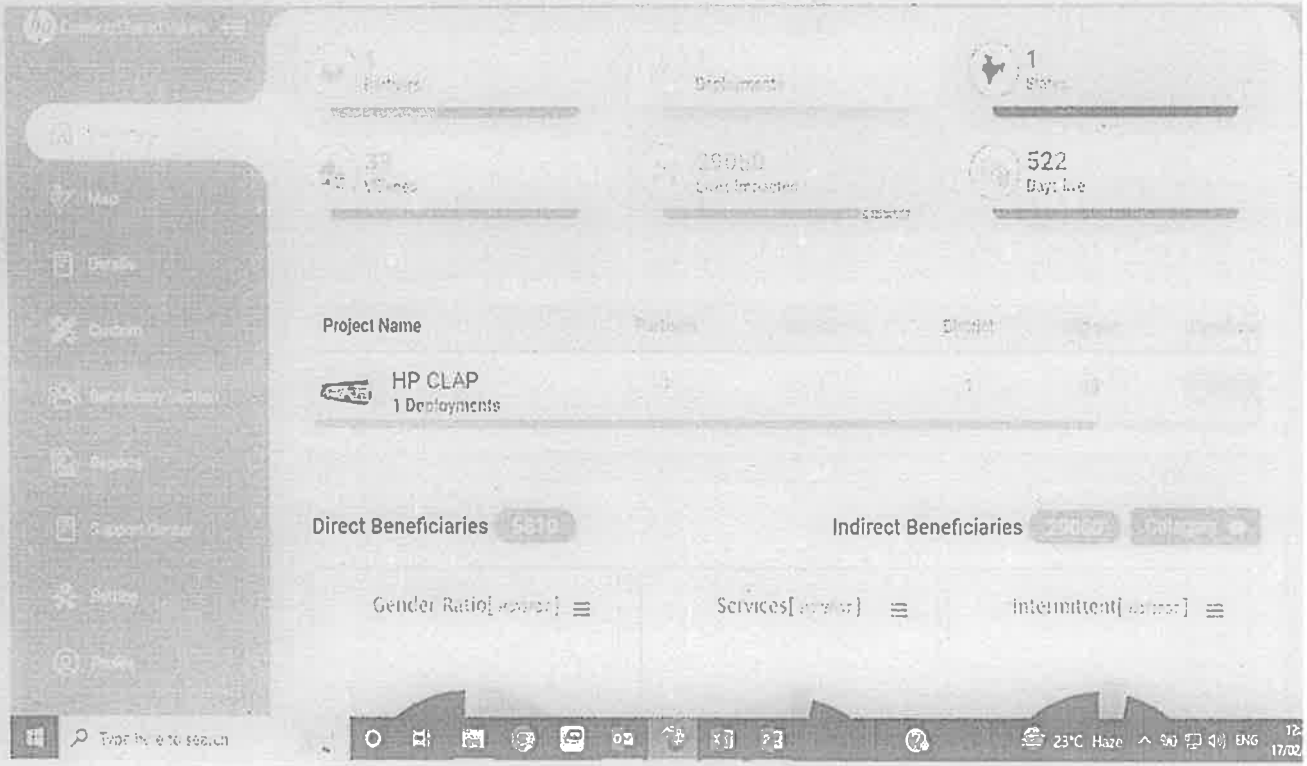


Teachers of various schools are taking session with the help of Emuskaan kit

HP CLAP (Continued Access Learning Project)

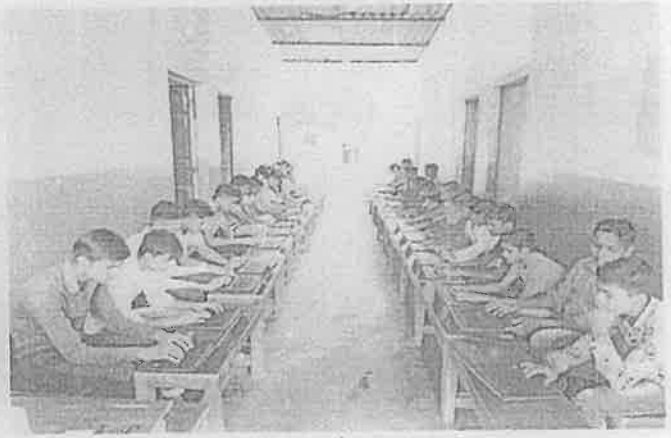
5810

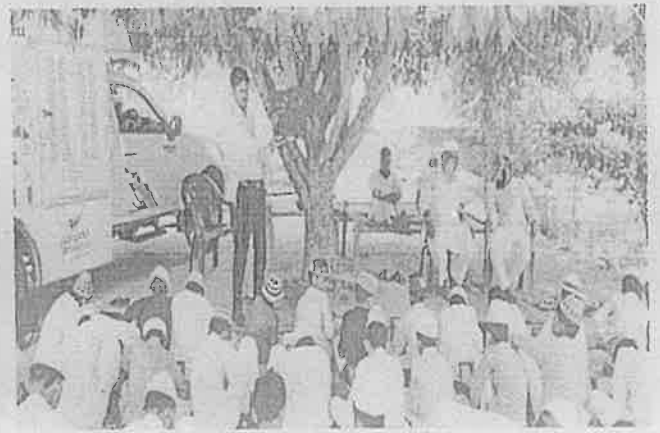
Number of Students benefitted till now



CLAP - Gallery








Promoting digital literacy among the community children and inter college of Gajraula and Hasanpur

Muskaan Kitaab Ghar : Employee Engagement Initiative

Muskaan Kitaab Ghar is a Library set up by the Jubilant employees to support 'Joy of Reading' for the students who don't have any access to books and reading material. This will act as a tool for a regular Employee volunteering activity where the employee will be engaged with the initiative throughout the year. This initiative aims to reach 100 school in 1 year.

Goal

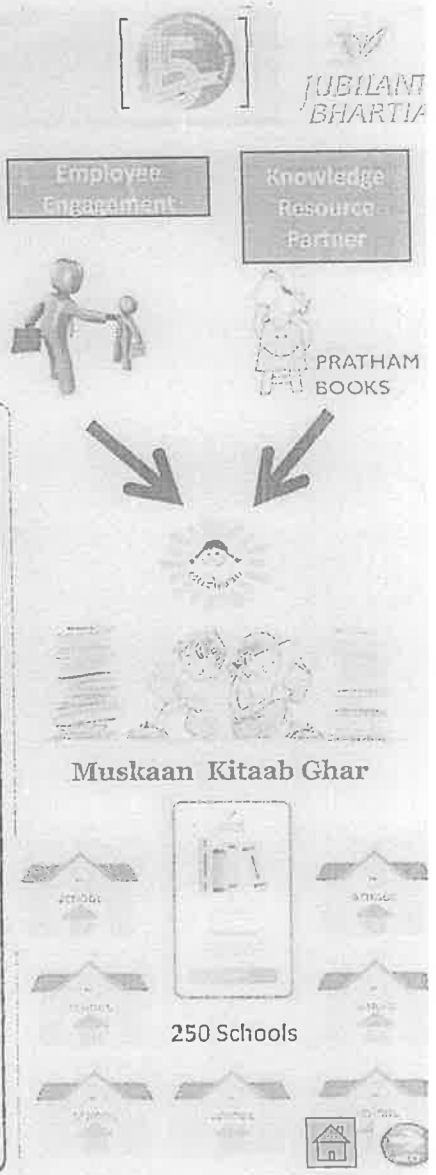
- Increasing accessibility of every child to books to improve readability, improved learning parameters and absenteeism from schools through Employee Engagement and reaching to 100 schools in the FY 2022-23

Objective

- Engaging Employees for identification of schools at their native places or at JBF locations for setting up a library.
- Sourcing or collaborating for high quality children's books in multiple Indian languages from Pratham books
- To improve accessibility issues of books for children in rural India
- Create a new paradigm for Employee engagement on educational issues

Activities

- Identification of school for setting up the library by the Employee
- Employee will donate books to the library and JBF will support an additional set of 100 books in different languages through Pratham Book.
- A library app developed by JBF will track the issuing and return of the books. The teacher of the school will use the app for this purpose.
- The employee will be able to see these updates on their app interface.
- The app data will be accessed by JBF at a centralized dashboard.
- The school and the engaged employee showing highest usage of Library by reaching out to maximum students to be rewarded.
- Activities for the children :
  - ✓ Story writing
  - ✓ Book Review
  - ✓ Storytelling
  - ✓ Book Reading sessions



Muskaan Library kit which wil be distributed in 250 Govt. Upper Primary Schools of Gajraula

Muskaan Vigyaanshala

In order to bring accessibility, affordability and availability in the rural education scenario through Science Mobile vans in villages as per a schedule to make sure that theory is aided by Practice. Once the curiosity is built, teachers will be trained to set up experiment infrastructure in school's to aid stability.

Goal

Inspire students from rural backgrounds towards science by teaching them hands-on science experiments

Objective

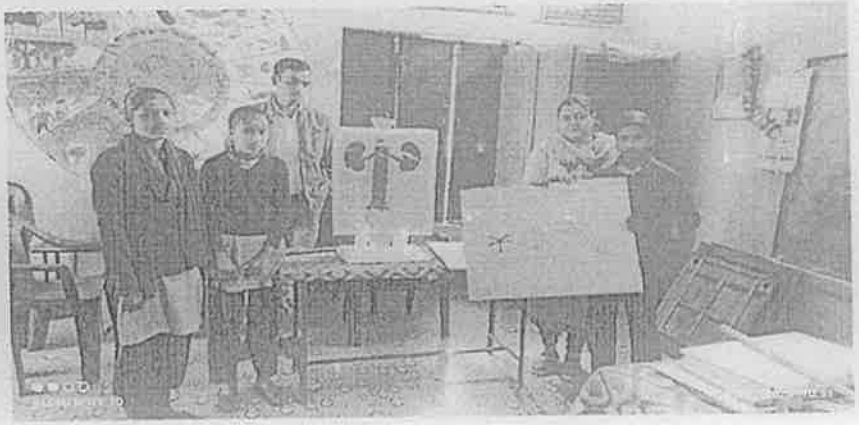
- To provide Accessibility of Scientific tools to rural students that are typically available in urban schools
- To Increase engagement of students in terms of increased curiosity, originality and team work.
- To Increase scientific awareness that leads to a scientific attitude and acumen in aid to just knowledge creation.
- To Build confidence in students in the concepts learnt in schools and their ability to interact with the subject.
- To Provide Better infrastructure of schools that the next generations can benefit from.

Activities

- Partnership with Agastya Foundation for Mobile Science Lab to generate curiosity and awareness towards science among girls
- Creation of Science labs in the schools

2100

Students from 15 schools of Gajraula are getting benefitted through MSL.



Muskaan Vigyaanshala (Mobile Science Lab) at govt. schools of Gajraula

Health

JUBILANT BHARTIA FOUNDATION

Current Projects

JUBI CARE

Mobil Eyes

COVID-19 response

New Projects

Swasthya Prahari (Malnutrition)

The Union

End TB project

Village Health Profiling

Livelihood

JUBILANT BHARTIA FOUNDATION

Current Projects

- Nayee Disha
- Jubi Farm
- Paryavaran Sakhi
- Pashu Sakhi

New Projects

- Digital Sakhi
- WeMentorship