



Inventys Research Company Pvt. Ltd.

Design, Build and Operate Dedicated or Shared Manufacturing and Research Facilities for API, Speciality Chemicals, Advance Intermediates, Cosmetics and Perfumes.

Ref. No.: IRCPL/MoEF&CC/24-25/015

Date: 15/04/2024

To,
The Addl. Principal Chief Conservator of Forest(C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ) Ground Floor,
East Wing, New Secretariat Building,
Civil Line,
NAGPUR – 440 001 (MH)

Sub.: Half Yearly Compliance Report of Environmental Clearance (1st October 2023 – 31st March 2024)

Ref.: Govt. of Maharashtra Environmental Clearance No. SEAC-2013/CR-395/TC-2 dtd 9th March ,2016.

Dear Sir,

As per Environmental Clearance under reference, we are operating a chemical manufacturing unit at Plot No. K-38, MIDC Butibori, Dist- Nagpur, Maharashtra.

We are submitting herewith six-monthly Compliance Report of the Environmental Clearance for the period from 1st October 2023 to 31st March 2024 by email in respect of compliance of the stipulated prior environmental clearance terms and conditions.

We assure you of taking every feasible step towards preservation of environment.

Thanking you,

Yours faithfully,

For, INVENTYS RESEARCH COMPANY PVT. LTD.

A handwritten signature in blue ink, appearing to read "Shrinivas Holennavar", is written over a horizontal line.

Shrinivas Holennavar
(DGM Works)

Encl.: As above

Cc submitted to:

1. The Member Secretary, SEIAA, Maharashtra
2. The Scientist 'E' & In charge, CPCB, Pune
3. The Member Secretary, MPCB, Mumbai.
4. The Regional Officer, MPCB, Nagpur.



Environmental Compliance Report
for
the period from
1st October 2023 to 31st March 2024

of

**M/s. INVENTYS RESEARCH COMPANY PVT. LTD.,
Plot No. - K-38, MIDC Butibori,
Dist- Nagpur (MS)**

submitted to

Ministry of Environment, Forest and Climate Change
Regional Office (WCZ), Ground Floor, East Wing
New Secretariat Building, Civil Line,
Nagpur – 440001 (MH)



1.0 PREAMBLE

Inventys Research Company Pvt. Ltd. is operating a chemical manufacturing unit at Plot No. K-38, MIDC Butibori, Dist- Nagpur, Maharashtra.

Environment Clearance No. SEAC-2013/CR-395/TC-2 dtd. 9th March, 2016 is granted to the unit to manufacture various chemicals.

2.0 COMPLIANCE STATUS

The conditions stipulated in Govt. of Maharashtra Environmental Clearance are followed scrupulously. Compliance is reported hereunder for the period from 1st April 2023 to 30th September 2023 in serial order of Environmental Clearance Letter as delineated below:

Sr. No.	Terms & Conditions	Compliance Status
i.	No additional land shall be used/acquired for any activity of the project without obtaining proper permission.	No additional land is acquired for the expansion project.
ii.	This environmental clearance is issued subject to implementation of online air monitoring facility equipment.	The online air monitoring equipment to the boiler will be provided in the expansion project.
iii.	Project proponent to provide 6 m internal roads within the site.	Internal roads of 6 m are provided within the site.
iv.	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in vulnerable areas of the plant shall be ensured.	For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distance in vulnerable areas of the plant is carried out as and when required.
v.	Regular monitoring of the air quality including SPM & SO ₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Regular monitoring of the air quality including SPM & SO ₂ levels both in work zone and ambient air is carried out in and around the plant and records are maintained. The location of monitoring stations and frequency of monitoring is decided in consultation with Maharashtra Pollution Control Board (MPCB) & reports are submitted accordingly to MPCB. The copy of analysis reports of air quality in work zone & ambient air are enclosed herewith as Enclosure -1
vi.	Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	Necessary arrangements are made for adequate safety and ventilation arrangement.
vii.	Proper Housekeeping programs shall be implemented.	Proper Housekeeping program is regularly implemented in the plant.

viii	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	In the event of the failure of any pollution control system provided to the equipment, the particular equipment is immediately put out of operation and standby equipment are taken into operation. Existing practice is continued in the expansion project.
ix	A Stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable)	A stack of adequate height based on DG set capacity is provided for control and dispersion of pollutant from DG set. The analysis reports of the DG stack emissions of the existing unit are enclosed herewith as Enclosure-2 .
x	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	A detailed scheme for rainwater harvesting is prepared and implemented to recharge ground water. The rain water harvesting system is available in site layout as Enclosure-3
xi	Arrangement shall be made that effluent and storm water does not get mixed.	Arrangement is made in the plant such that effluent and storm water does not get mixed.
xii	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	In the unit, water requirement is fulfilled from MIDC through surface water source. Ground water is not used in the unit and treated effluent is sent to CETP Butibori. The analysis reports of the water in use at the unit are enclosed herewith as Enclosure-4 .
xiii	Leq of noise level shall be maintained as per standards. For people working the high noise area requisite personal protective equipment like earplugs etc. shall be provided	Leq of noise level is maintained as per standards. For people working in the high noise area personal protective equipment like earplugs etc. are provided. The analysis reports of the workplace noise levels at the unit are enclosed herewith as Enclosure-5 .
xiv	The overall noise levels in and around the plant shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.	The overall noise levels in and around the plant is 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 are confirmed to the standards prescribed under Environment (Protection) Act, 1986 Rules 1989.

		The reports of the ambient noise level are enclosed herewith Enclosure -6.
xv	Green belt shall be developed & maintained around the plant periphery, green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO, Agriculture Dept.	Green belt is developed & maintained around the plant periphery, green belt development is carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO, Agriculture Dept. The list of plants is enclosed herewith Enclosure-7
xvi	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Adequate safety measures are provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices are also installed at strategic places for early detection and warning. The list of leak detectors installed are enclosed herewith Enclosure-8
xvii	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Occupational health surveillance of the workers is done on a regular basis and records are maintained as per Factories Act. Annual Health checkup is done on yearly basis.
xviii	The company shall make the arrangements for protection of possible fire hazards during manufacturing process in material handling.	The company have made the arrangements for protection of possible fire hazards during manufacturing process in material handling like fire hydrant system, sprinkler system, fire extinguishers, hose reels etc. throughout the plants premises. List is enclosed herewith as Enclosure-9
xix	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 (amended). Authorization from MPCB shall be obtained for Collections / treatment / storage / disposal of hazardous wastes.	The project authorities are strictly complying with the rules and regulations with regard to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management & Handling) Rules, 2003 (amended). Authorization from MPCB is obtained for collections / treatment / storage / disposal of hazardous wastes.
xx	The company shall undertake following waste minimization measures:	
	a. Metering of quantities of active ingredients to minimize waste.	Metering of quantities of active ingredients to minimize waste is carried out. Level indicators, weighing balance, etc. are used.
	b. Reuse of by-products from the process as raw materials or as raw material substitutes in other process.	Reuse of by-products from the process as raw materials or as raw material substitutes in other process is carried out.
	c. Maximizing recoveries.	Maximizing recoveries are carried out through close monitoring during distillation process.
	d. Use of automated material transfer system to minimize spillage.	Use of automated material transfer system to minimize spillage is carried out.

	e. Use of “Closed Feed” system into batch reactors.	Use of “Closed Feed” system into batch reactors is carried out.
xxi	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes, improvement required, if any, in the on-site management plan shall be ensured.	Regular mock drills for the on-site emergency management plan is carried out. Implementation of changes, improvement required in the on-site management plan is ensured.
xxii	A separate Environment Management Cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environment Management Cell with qualified staff shall is set up in the plant and it carries out stipulated environmental safeguards.
xxiii	Transportation of ash will be through close containers and all measures should be taken to prevent spilling of the ash	Ash generated from the boiler of the unit is disposed and transportation is carried out through close trucks and all measures are taken to prevent spilling of the ash
xxiv	Separate silos will be provided for collecting and storing bottom ash and fly ash.	Biomass is burnt in the boiler as fuel and ash handling arrangement is provided in the plant.
xxv	Separate fund shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	Separate fund is allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These costs are included as part of the project cost. The funds earmarked for the environment protection measures are not diverted for other purposes and year-wise expenditure is reported in six monthly compliance report herewith as Enclosure-10
xxvi	The project management shall advertise at least in two local newspapers widely circulated in the region around the project. One of which shall be in the Marathi language of the local concerned within seven days of issue of this letter informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at website at http://envismaharashtra.gov.in .	We have advertised in two local newspapers widely circulated in the region around the project, one of which is in the Marathi language of the local concerned. The advertisement was published on 19th April 2016 in Tarun Bharat and Lokmat Times.
xxvii	Project management should submit half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard& soft copies to the MPCB & this department on 1st June & 1st December of each calendar year	We are submitting half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copy for the period from 1 st October 2023 to 31 st March 2024 of this year.

xxviii	A copy of the clearance letter shall be sent by the proponent to concerned Municipal Corporation and the local NGO, if any, from whom suggestions /representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	We are consented to condition.
xxix	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	We are consented to condition. The MPCB display board is located near main gate and enclosed herewith as Enclosure-11 .
xxx	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	We are submitting six monthly EC compliance reports on the status of compliance of the stipulated EC conditions including results of monitored data by e- mail to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
xxxi	The environment statement for each financial year ending 31 st March in Form- V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The environmental statement for each financial year ending 31 st March 2022 in Form-V is submitted online to MPCB on 30 th September 2023. Copy of environmental statement is enclosed as Enclosure-12 .

For, INVENTYS RESEARCH COMPANY PVT. LTD.



(DGM Works)

ENCLOSURE – 1 AMBIENT AIR QUALITY STATUS



TC-12331



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862

Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Ambient Air Quality

Format No. : ELPL/QD4/TRD/7.8/AA

Report No.: ELPL/03-24/79-A	Report Date : 12-03-2024
Name & Address of the Customer: M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No. K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref: Verbal	
Sample Type : Ambient Air	Sampling Location : Near Security Main Gate
Sampling Ref Method : As Per Test Method	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/AA-79	
Avg. Ambient Temp : 27.3 °C	Prominent Wind Direction : E
Avg. Relative Humidity : 54.8 %	Average Wind Speed : 5.29 km/hr
Sampling Date : From 04-03-2024 to 05-03-2024	Sampled by : ELPL Representative
Sample Receipt Date : 06-03-2024	
Period of Analysis : From 06-03-2024 to 12-03-2024	

Results of Analysis

Sr. No.	Test Parameters	Unit	Norms*	Result	Test Method
Discipline : Chemical, Group : Atmospheric Pollution, Materials/ Products Tested : Ambient Air					
1.	Sulphur Dioxide (SO ₂)	µg/m ³	80	7.45	IS 5182 (Part 2)
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	16.4	IS 5182 (Part 6)
3.	Particulate Matter size less than 10 µm (PM ₁₀)	µg/m ³	100	51.8	IS 5182 (Part 23)
4.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	23.0	IS : 5182 (Part 24)
5.	Ozone (O ₃)	µg/m ³	100	BDL (< 20.0)	APHA- Method No.411 2 nd Edn
6.	Lead (Pb)	µg/m ³	0.5	0.03	ELPL SOP No. AAS - 10 based on IS 5182 (Part 22)
7.	Carbon Monoxide (CO)	mg/m ³	4	BDL (< 1.1)	NIOSH 6604
8.	Ammonia (NH ₃)	µg/m ³	100	BDL (< 20.0)	APHA- Method No.401 2 nd Edn
9.	Benzene (C ₆ H ₆)	µg/m ³	5	BDL (< 4.0)	IS 5182 (Part 11)
10.	Benzo [a] Pyrene (as BaP)- particulate phase only	ng/m ³	1	BDL (< 0.8)	IS 5182 (Part 12)
11.	Arsenic (As)	ng/m ³	6	BDL (< 2.0)	ELPL SOP No. AAS - 12 based on IS 5182 (Part 26)
12.	Nickel (Ni)	ng/m ³	20	BDL (< 3.5)	IS 5182 (Part 26): 2020 based SOP No. AAS-12

Note : 1. * indicates NAAQS (Govt. of India MoEF Notification No. GSR 826 CE dtd.16-11-2009 as amended).
2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.



Verified & Authorized by

(Signature)
(K.L. Jadhav)
Technical Manager

** End of the Report **



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Ambient Air Quality

Format No. : ELPL/QD4/TRD/7.8/AA

Report No.: ELPL/03-24/80-A	Report Date : 12-03-2024
Name & Address of the Customer: M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref : Verbal	
Sample Type : Ambient Air	Sampling Location : Near Boiler House
Sampling Ref Method : As Per Test Method	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/AA-80	
Avg. Ambient Temp : 27.3 °C	Prominent Wind Direction : E
Avg. Relative Humidity : 54.8 %	Average Wind Speed : 5.29 km/hr
Sampling Date : From 04-03-2024 to 05-03-2024	Sampled by : ELPL Representative
Sample Receipt Date : 06-03-2024	
Period of Analysis : From 06-03-2024 to 12-03-2024	

Results of Analysis

Sr. No.	Test Parameters	Unit	Norms*	Result	Test Method
Discipline : Chemical, Group : Atmospheric Pollution, Materials/ Products Tested : Ambient Air					
1.	Sulphur Dioxide (SO ₂)	µg/m ³	80	8.60	IS 5182 (Part 2)
2.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	15.7	IS 5182 (Part 6)
3.	Particulate Matter size less than 10 µm (PM ₁₀)	µg/m ³	100	55.2	IS 5182 (Part 23)
4.	Particulate Matter size less than 2.5 µm (PM _{2.5})	µg/m ³	60	26.5	IS : 5182 (Part 24)
5.	Ozone (O ₃)	µg/m ³	100	BDL (< 20.0)	APHA- Method No.411 2 nd Edn
6.	Lead (Pb)	µg/m ³	0.5	0.04	ELPL SOP No. AAS - 10 based on IS 5182 (Part 22)
7.	Carbon Monoxide (CO)	µg/m ³	4	BDL (< 1.1)	NIOSH 6604
8.	Ammonia (NH ₃)	µg/m ³	100	BDL (< 20.0)	APHA- Method No.401 2 nd Edn
9.	Benzene (C ₆ H ₆)	µg/m ³	5	BDL (< 4.0)	IS 5182 (Part 11)
10.	Benzo [a] Pyrene (as BaP)- particulate phase only	ng/m ³	1	BDL (< 0.8)	IS 5182 (Part 12)
11.	Arsenic (As)	ng/m ³	6	BDL (< 2.0)	ELPL SOP No. AAS - 12 based on IS 5182 (Part 26)
12.	Nickel (Ni)	ng/m ³	20	BDL (< 3.5)	IS 5182 (Part 26): 2020 based SOP No. AAS-12

Note : 1. * indicates NAAQS (Govt. of India MoEF Notification No. GSR 826 CE dtd.16-11-2009 as amended).

2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.



Verified & Authorized by

(K.L. Jadhav)
Technical Manager

** End of the Report **

ENCLOSURE – 2

STACK ANALYSIS REPORT



TC-12331



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni

Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862

Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

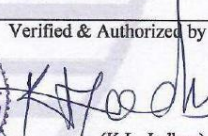
Test Report

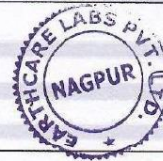
Stack Emission Quality

Format No. : ELPL/QD4/TRD/7.8/S

Report No. : ELPL/03-24/07-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Stack Emission	Sampling Location : D.G.Set 500 KVA
Sampling Ref Method : As Per Test Method	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/S-07	
Sampling Date : 05-03-2024	Sampled By: ELPL, Representative
Sample Receipt Date : 06-03-2024	
Stack Height : 3.50 mtr above enclosure	Temperature of Flue Gas : 110 °C
Stack Diameter at Port : 0.30 mtr	Velocity of Flue Gas : 8.69 m/sec
Type of Fuel : Diesel	Flow Rate of Flue Gas : 1668.46 Nm ³ /hr
Period of Analysis : From 06-03-2024 to 12-03-2024	

Results of Analysis

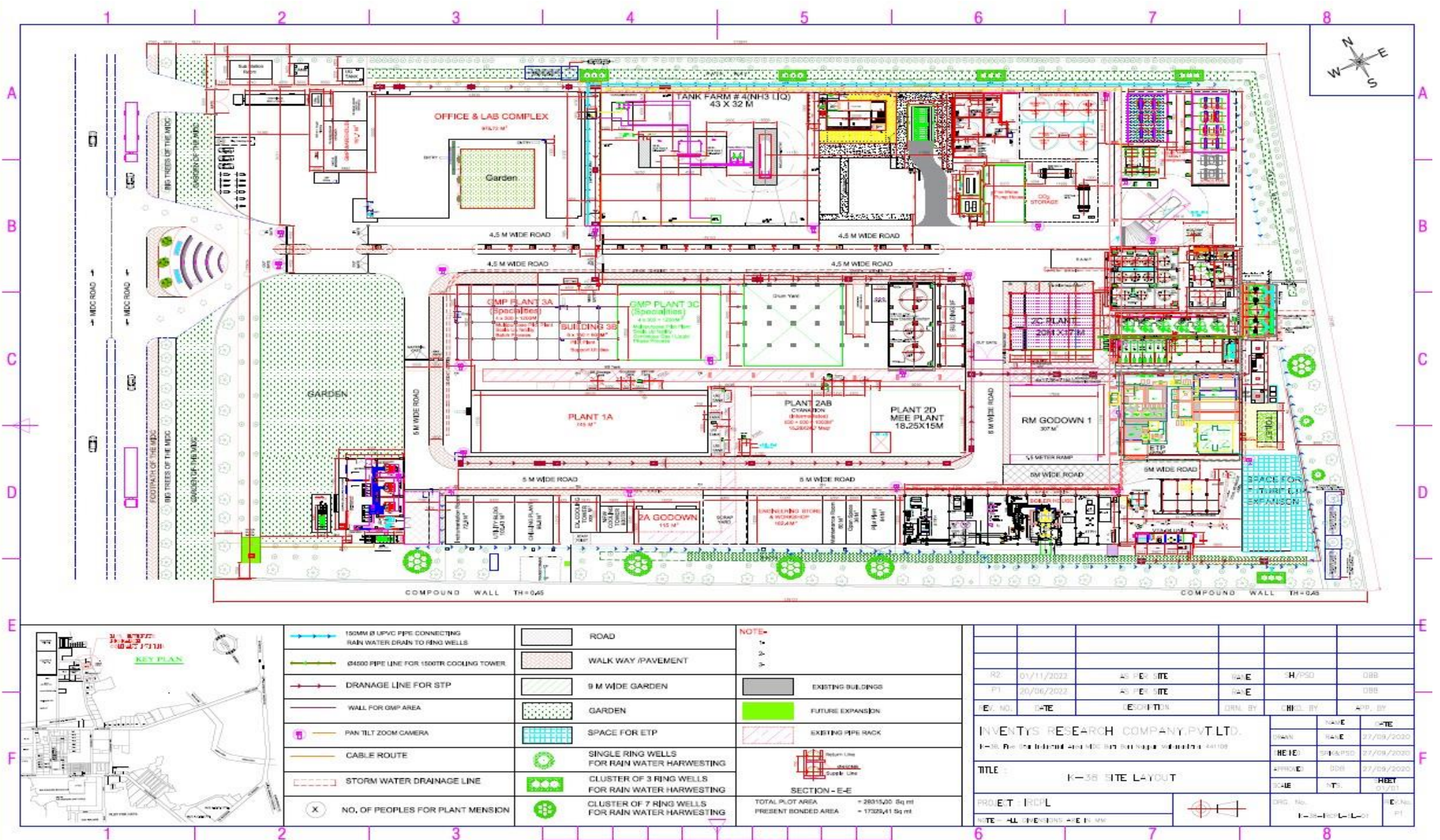
Sr. No.	Test Parameters	Unit	Norm*	Result	Test Method
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Stack Emission					
1.	Particulate Matter	mg/Nm ³	100	54.5	IS 11255 (Part 1)
2.	Sulphur Dioxide (as SO ₂)	mg/Nm ³	--	63.2	IS 11255 (Part 2)
3.	Sulphur Dioxide (as SO ₂)	kg/day	16	2.53	IS 11255 (Part 2)
Note : 1. * Consent No. Format 1.0/CC/UAN No. 0000121034/CR/2303000461 Dtd. 06-03-2023. 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced Partially or fully without prior approval of ELPL.					
					Verified & Authorized by  (K.L. Jadhav) Technical Manager



** End of the Report **

ENCLOSURE - 3

RAIN WATER HARVESTING LAYOUT



	150MM Ø UPVC PIPE CONNECTING RAIN WATER DRAIN TO RING WELLS		ROAD
	Ø400 PIPE LINE FOR 1500TR COOLING TOWER		WALK WAY /PAVEMENT
	DRAINAGE LINE FOR STP		9 M WIDE GARDEN
	WALL FOR GMP AREA		GARDEN
	PAN/TILT ZOOM CAMERA		SPACE FOR ETP
	CABLE ROUTE		SINGLE RING WELLS FOR RAIN WATER HARVESTING
	STORM WATER DRAINAGE LINE		CLUSTER OF 3 RING WELLS FOR RAIN WATER HARVESTING
	NO. OF PEOPLES FOR PLANT MENSION		CLUSTER OF 7 RING WELLS FOR RAIN WATER HARVESTING

NOTE-	
1. EXISTING BUILDINGS	
2. FUTURE EXPANSION	
3. EXISTING PIPE RACK	
	SECTION - E-E
TOTAL PLOT AREA = 28915.00 Sq mt	
PRESENT BONDED AREA = 17325.41 Sq mt	

R2	01/11/2022	AS PER SITE	RAJE	H/PSD	DBB
P1	05/06/2022	AS PER SITE	RAJE	DBB	DBB
E. NO.	DATE	DESCRIPTION	DRW. BY	CHK. BY	APP. BY
INVENTYS RESEARCH COMPANY PVT LTD.					
F-10, Phase-3, Industrial Area, MIDC, Sector-10, Noida, Uttar Pradesh - 201301					
TITLE: K-38 SITE LAYOUT					
PROJECT: IRCP/L					
NOTE - ALL DIMENSIONS ARE IN MM					

ENCLOSURE -4
WATER QUALITY



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

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Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report
Water Quality

Format No. : ELPL/QD4/TRD/7.8/W

Report No. : ELPL/03-24/07-A	Report Date : 12-03-2024
Name & Address of the Customer: M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Drinking Water	Sampling Location : Drinking Water from Tap Near Canteen
Sampling Ref Method : IS 3025 (Part 1): 1987 RA 2019	Environmental Condition : Sunny (during sampling)
Sample Inward No: : ELPL/Mar-24/55/14/W-07	
Sampling Date : 05-03-2024	Sampled By: ELPL Representative
Sample Receipt Date : 05-03-2024	
Period of Analysis : From 06-03-2024 to 12-03-2024	

Results of Analysis

Sr. No.	Test Parameters	Unit	Norms*	Result	Test Method
Discipline : Chemical, Group : Water & Residues in water, Materials/ Products Tested : Drinking Water					
1	Colour	Hazen Units	5/15	1.0	IS 3025 (Part 4)
2	Odour	--	Agreeable	Agreeable	IS 3025 (Part 6)
3	pH value	---	6.5 to 8.5	7.72	IS 3025 (Part 11)
4	Taste	---	Agreeable	Agreeable	IS 3025 (Part 8)
5	Turbidity	NTU	1/5	0.14	IS 3025 (Part 10)
6	Total Dissolved Solids	mg/l	500/2000	326.0	IS 3025 (Part 16)
7	Aluminium (as Al)	mg/l	0.03/0.2	0.03	ELPL SOP No. BTS-2/Issue No.01/ Jan - 20
8	Boron (as B)	mg/l	0.5/1.0	BDL (< 0.06)	ELPL SOP No. BTM-1 based on IS 3025 (Part 2)
9	Calcium (as Ca)	mg/l	75/200	35.2	IS 3025 (Part 40)
10	Chloride (as Cl)	mg/l	250/1000	30.9	IS 3025 (Part 32)
11	Copper (as Cu)	mg/l	0.05/1.5	BDL (< 0.01)	ELPL SOP No. BTM-6 based on IS 3025 (Part 2)
12	Fluoride (as F)	mg/l	1.0/1.5	BDL (< 0.2)	IS 3025 (Part 60)
13	Free Residual Chlorine	mg/l	0.2/1.0	BDL (< 0.1)	IS 3025 (Part 26)
14	Iron (as Fe)	mg/l	1.0	BDL (< 0.05)	ELPL SOP No. BTM-7 based on IS 3025 (Part 2)



TC-12331

**EARTHCARE LABS PRIVATE LIMITED****Environmental Laboratory & Consultancy Organization**

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C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni

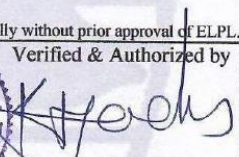
Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862

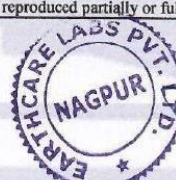
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Format No. : ELPL/QD4/TRD/7.8/W

Report No. : ELPL/03-24/07-A		Report Date : 12-03-2024			
Sr. No.	Test Parameters	Unit	Norms*	Result	Test Method
15.	Magnesium (as Mg)	mg/l	30/100	16.1	IS 3025 (Part 46)
16.	Manganese (as Mn)	mg/l	0.1/0.13	0.01	ELPL SOP No. BTS-4 based on IS 3025 (Part 2)
17.	Selenium (as Se)	mg/l	0.01	BDL (< 0.01)	ELPL SOP No. BTS-5 based on IS 3025 (Part 2)
18.	Sulphate (as SO ₄)	mg/l	200/400	22.4	APHA-23 rd Ed. 4500-SO ₄ ²⁻ E
19.	Total Alkalinity (as CaCO ₃)	mg/l	200/600	126.3	IS 3025 (Part 23)
20.	Total Hardness (as CaCO ₃)	mg/l	200/600	154.0	IS 3025 (Part 21)
21.	Zinc (as Zn)	mg/l	5/15	0.13	ELPL SOP No. BTM-15 based on IS 3025 (Part 2)
22.	Lead (as Pb)	mg/l	0.01	BDL (< 0.01)	ELPL SOP No. BTM-8 based on IS 3025 (Part 2)
23.	Nickel (as Ni)	mg/l	0.02	BDL (< 0.02)	ELPL SOP No. BTM-11 based on IS 3025 (Part 2)
24.	Total Arsenic (as As)	mg/l	0.01	BDL (< 0.01)	ELPL SOP No. BTS-1 based on IS 3025 (Part 2)
25.	Total Chromium (as Cr)	mg/l	0.05	BDL (< 0.01)	ELPL SOP No. BTM-4 based on IS 3025 (Part 2)

Note : 1. * indicates IS 10500 : 2012 RA 2012 Drinking Water - Specification as Requirement (Acceptable Limit) / Permissible Limit in the Absence of Alternate Sources meeting Acceptable Limit
2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully without prior approval of ELPL.

Verified & Authorized by

(K.L. Jadhav)
Technical Manager



** End of the Report **



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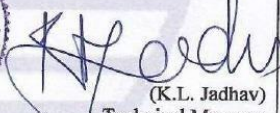
C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Water Quality

Format No. : ELPL/QD4/TRD/7.8/W

Report No. : ELPL/03-24/07-B	Report Date : 12-03-2024
Name & Address of the Customer: M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Drinking Water Sampling Ref Method : IS 3025 (Part 1): 1987 RA 2019 Sample Inward No: : ELPL/Mar-24/42/14/W-07	Sampling Location : Drinking Water from Tap Near Canteen Environmental Condition : Sunny (during sampling)
Sampling Date : 05-03-2024 Sample Receipt Date : 05-03-2024	Sampled By: ELPL Representative
Period of Analysis : From 06-03-2024 to 12-03-2024	

Results of Analysis

Sr. No.	Test Parameters	Unit	Norms*	Result	Test Method
Discipline : Chemical, Group : Water & residues in water, Materials/ Products Tested : Drinking Water					
1.	Ammonical Nitrogen (as N)	mg/l	0.5	0.38	IS 3025 (Part 34): 1988 RA 2019 (Clause 2.3)
2.	Anionic Detergents (as MBAS)	mg/l	0.2/1.0	BDL (< 0.1)	IS 13428 (Annex K) : 2005 RA 2019
3.	Nitrate (as NO ₃)	mg/l	45	0.73	APHA -23 rd Ed. -4500 (NO ₃ -) (B)
4.	Phenolic Compounds or Phenol (as C ₆ H ₅ OH)	mg/l	0.001/0.002	BDL (< 0.001)	IS 3025 (Part 43): 1992 RA 2019
5.	Sulphide (as H ₂ S)	mg/l	0.05	BDL (< 0.04)	IS 3025 (Part 29):2003 RA 2019
Note : 1. * indicates IS 10500 : 2012 RA 2012 Drinking Water - Specification as Requirement (Acceptable Limit) / Permissible Limit in the Absence of Alternate Sources meeting Acceptable Limit 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully without prior approval of ELPL.					
					Verified & Authorized by  (K.L. Jadhav) Technical Manager

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ENCLOSURE – 5
WORKPLACE NOISE QUALITY



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Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862


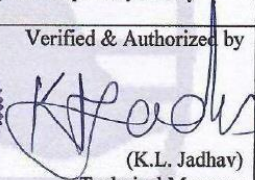
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report
Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/08-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Near Utility Section
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-08	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	72.3
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87, Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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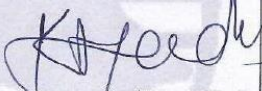
C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/09-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside Boiler Area
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-09	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	70.7
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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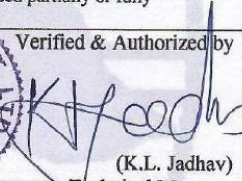
C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/10-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 2-A Plant Ground Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-23/55/30/WN-10	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	62.8
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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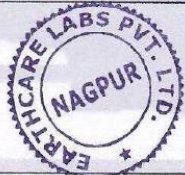
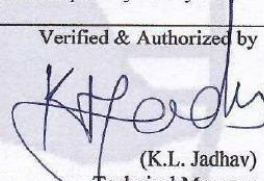
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Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/11-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 2-A Plant First Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-11	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	68.2
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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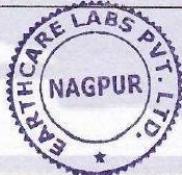

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Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/12-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 1-A Plant Ground Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-12	
Sampling Date : 05-03-2024	Sampled by : LPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	65.8
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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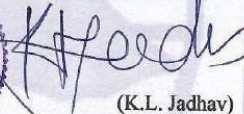
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Email: earthcare2000@gmail.com, **Website:** www.earthcarenagpur.com

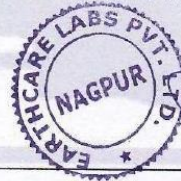
Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/13-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 1-A Plant First Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-13	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	66.6
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/14-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 3-A Plant Ground Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-14	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	60.6
Note : 1. * Model Factories Rules (MPR 120) Part II. Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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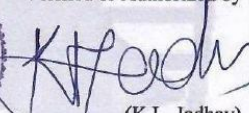
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Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/15-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Hydrogenation Plant
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-15	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	60.0
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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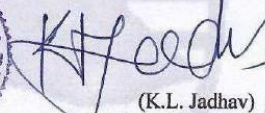
C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/16-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location : Inside 2C Plant 1 st Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-16	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	62.7
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL..		
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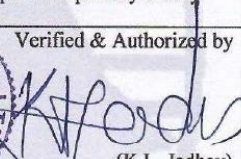
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Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/17-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside Compressor House
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-17	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	78.9
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
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** End of the Report **



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Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862

Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

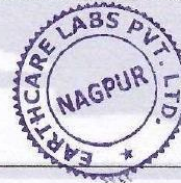
**Test Report
Workplace Noise Quality**

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/18-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside 2c Plant 2 nd Floor
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-18	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	64.7
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87, Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
		Verified & Authorized by  (K.L. Jadhav) Technical Manager

**** End of the Report ****



TC-12331

**EARTHCARE LABS PRIVATE LIMITED****Environmental Laboratory & Consultancy Organization**

(MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni

Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862



Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

**Test Report
Workplace Noise Quality**

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/19-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: Inside ETP Plant
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-19	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	67.8
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
		Verified & Authorized by  (K.L. Jadhav) Technical Manager

**** End of the Report ****



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

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C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur - 440 015, Tel & Fax: (0712) 2251470, Cell: 9766816862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Test Report Workplace Noise Quality

Format No. : ELPL/QD4/TRD/7.8/WN

Report No.: ELPL/03-24/20-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Workplace Noise	Sampling Location: D.G. Set Area
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/WN-20	
Sampling Date : 05-03-2024	Sampled by : ELPL Representative

Results of Measurements

Parameter	Norms*	Hourly Average
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Workplace Noise		
Sound Pressure Level Lp dB(A)	85	75.9
Note : 1. * Model Factories Rules (MFR 120) Part II, Schedule XXIV , Section 87 , Factories Act 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
		Verified & Authorized by  (K.L. Jadhav) Technical Manager

** End of the Report **

**ENCLOSURE -6
AMBIENT NOISE QUALITY STATUS**



EARTHCARE LABS PRIVATE LIMITED

Environmental Laboratory & Consultancy Organization

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

**Test Report
Ambient Noise Quality**

Format No. : ELPL/QD4/TRD/7.8/AN

Report No.: ELPL/03-24/09-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Ambient Noise	Sampling Location : Near Security Main Gate
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/AN-09	
Sampling Date : 04-03-2024	Sampled by : ELPL Representative
Location (Type) : Industrial / Commercial / Residential / Silence	

Results of Measurements

Test Parameter	During Day Time (Hrly Avg)	During Night Time (Hrly Avg)
Discipline : Chemical, Group : Atmospheric Pollution , Materials/ Products Tested : Ambient Noise		
Equivalent Sound Level Leq dB(A)	61.5	49.1
Norms*	Industrial Area	70
	Commercial Area	55
	Residential Area	45
	Silence Zone	40
Note : 1. *Indicates Rule 4 of Noise Pollution (Regulation & Control) Amendment Rules,2000 (S.O. 1046 (E) dtd 22-11-2000 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
		Verified & Authorized by (K.L. Jadhav) Technical Manager

** End of the Report **



TC-12331

**EARTHCARE LABS PRIVATE LIMITED****Environmental Laboratory & Consultancy Organization**

(NABL QCI Accredited, MoEF&CC Recognized, ISO 9001, ISO 14001 & OHSAS 45001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni

Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862


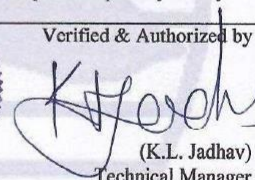
Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

**Test Report
Ambient Noise Quality**

Format No. : ELPL/QD4/TRD/7.8/AN

Report No.: ELPL/03-24/10-A	Report Date : 12-03-2024
Name & Address of the Customer : M/s. INVENTYS RESEARCH CO. PVT. LTD., Plot No. K-38, MIDC, Butibori, Dist.- Nagpur.	
Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019	
Sample Type : Ambient Noise	Sampling Location : Near Boiler House
Sampling Ref Method : IS 9989	Environmental Condition : Sunny (during sampling)
Sample Inward No. : ELPL/Mar-24/55/30/AN-10	
Sampling Date : 04-03-2024	Sampled by : ELPL Representative
Location (Type) : Industrial / Commercial / Residential / Silence	

Results of Measurements

Test Parameter	During Day Time (Hrly Avg)	During Night Time (Hrly Avg)
Discipline : Chemical, Group : Atmospheric Pollution, Materials/ Products Tested : Ambient Noise		
Equivalent Sound Level Leq dB(A)	62.5	52.2
Norms*	Industrial Area	75
	Commercial Area	65
	Residential Area	55
	Silence Zone	50
Note : 1. *indicates Rule 4 of Noise Pollution (Regulation & Control) Amendment Rules,2000 (S.O. 1046 (E) dtd 22-11-2000 2. Test results relates to sample collected & tested only for the selected parameters. It shall not be reproduced partially or fully Without prior approval of ELPL.		
		Verified & Authorized by  (K.L. Jadhav) Technical Manager

**** End of the Report ****

ENCLOSURE – 7
LIST OF PLANTS (GREEN BELT)

INVENTYS RESEARCH COMPANY PVT. LTD.									
K-38, Five Star MIDC Area, Butibori, Nagpur									
LIST OF TREES/SHRUBS									
Sr. No.	Name of tree /shrub	East	West	South	North	Drums	Outside gate	Other areas	Total
A	Trees								
1	African Tulip	1	0	1	0	0	0	0	2
2	Almond	0	0	1	0	0	0	0	1
3	Amla / Indian Gooseberry	0	3	0	0	0	0	0	3
4	Amrud / Guava	2	11	4	6	0	0	1	24
5	Anar / Pomegranate	0	12	0	0	0	0	0	12
6	Anjeer / Fig	0	1	0	0	0	0	0	1
7	Apple	0	5	3	0	0	0	0	8
8	Apta /Bauhinia racemosa	2	1	1	0	0	1	0	5
9	Arandi/ Ricinus communis	0	0	1	0	0	0	0	1
10	Australian tree	0	15	0	0	1	1	0	17
11	Bahava	1	0	2	0	0	0	0	3
12	Banana	0	1	0	0	0	0	0	1
13	Bass wood	2	0	0	0	0	0	0	2
14	Bel Patra / Aegle Marmelos	0	2	0	1	0	0	0	3
15	Ber Fruit/ Ziziphus mauritiana	0	1	0	0	0	0	0	1
16	Champa / Plumeria	3	15	2	1	3	6	9	39
17	Chandan / Indian Sandalwood	0	1	0	0	0	0	0	1
18	Cherry	0	1	0	0	0	0	0	1
19	Chikoo	1	12	5	13	0	0	0	31
20	Coconut	0	3	1	0	0	0	0	4
21	Dodonaea Viscosa / Hopbush	0	0	0	7	0	0	0	7
22	Drumstick Tree / Moringa Oleifera	1	1	0	0	0	0	0	2
23	Fanas / Jackfruit	0	2	0	0	0	0	0	2
24	Ficus	1	0	1	0	2	0	0	4
25	Gogan	2	0	0	0	0	0	0	2
26	Gulmohar / Royal Poinciana	0	2	3	24	1	0	0	30
27	Idimbu / Sour orange	0	0	0	1	0	0	0	1
28	Jamun / Java Plum	0	1	0	0	0	0	0	1
29	Kadu Neem /Azadirachta indica	25	5	10	27	0	0	19	86
30	Karanji / Millettia pinnata	1	0	2	2	0	0	1	6
31	Katambar/Audumbar	0	0	2	31	0	0	0	33
32	Kroton	0	0	0	0	1	0	0	1
33	Lemon / Citrus limon	0	16	2	0	0	0	0	18
34	Lichi	2	4	0	0	0	0	0	6
35	Mango / Mangifera indica	1	24	0	6	0	1	0	32
36	Manila Tamrind	1	0	0	0	0	0	0	1
37	Moha	1	0	0	0	0	0	0	1
38	Mosambi / Sweet lemon	0	7	1	1	0	0	0	9
39	Nilgiri / Eucalyptus	92	0	1	0	0	0	0	93
40	Orange / Citrus X sinensis	0	13	0	3	0	0	0	16
41	Palas	1	0	0	1	0	0	0	2
42	Papaya	0	2	0	0	0	0	0	2
43	Peepal / bodhi tree	0	1	1	0	1	0	3	6
44	Ramphal/ Annona reticulata	0	3	1	0	0	0	0	4
45	Rubber	1	0	0	2	1	0	0	4
46	Saptaparni / Alstonia scholaris	3	18	2	0	0	0	0	23
47	Sheesham / Dalbergia sissoo	1	0	0	0	0	0	0	1
48	Shendur	1	0	1	0	1	0	0	3
49	Sitaphal / Custard apple	1	5	2	6	0	0	0	14
50	Son Chafa	0	0	0	0	0	0	2	2
51	Star gooseberry (Phyllanthus acidus)	0	1	0	0	0	0	0	1
52	Subabul /Leucaena leucocephala	2	0	0	0	0	0	0	2

INVENTYS RESEARCH COMPANY PVT. LTD.

K-38, Five Star MIDC Area, Butibori, Nagpur

LIST OF TREES/SHRUBS

Sr. No.	Name of tree /shrub	East	West	South	North	Drums	Outside gate	Other areas	Total
53	Sweet Neem /Curry Tree	0	15	2	1	0	0	0	18
54	Taman / Lagerstroemia speciosa	0	1	0	0	0	0	0	1
55	Teakwood / Tectona grandis	1	13	24	26	0	0	1	65
56	Umbar / Ficus racemosa	2	1	1	2	0	0	0	6
57	Vad / Banyan	0	2	0	0	0	1	0	3
	Total	152	221	77	161	11	10	36	668
B	Shrubs								
1	Acalypha	4	0	2	5	16	0	0	27
2	Adulsa	0	2	1	0	3	0	0	6
3	Aloevera	1	0	3	0	0	0	0	4
4	Ambi Halad	0	0	1	0	0	0	0	1
5	Areliya	0	0	1	0	0	0	0	1
6	Arka/Calotropis gigantea	1	0	0	0	0	0	1	2
7	Australian Pine / Suru	0	0	1	2	2	0	0	5
8	Betel leaf	1	0	0	0	1	0	0	2
9	Bougainvillea	1	1	1	0	1	18	0	22
10	Calendara/ Power proof	0	0	1	0	0	0	0	1
11	Chameli	0	0	0	0	1	0	0	1
12	Cinnamomum Camphora)	0	0	1	0	0	0	0	1
13	Dahlia	0	0	1	0	0	0	0	1
14	Dhopa/	0	0	0	0	1	0	0	1
15	Doodh Mogra/ Jasminum Sambac	2	0	0	0	1	0	0	3
16	Fire Bush /Hamelia	0	0	0	1	0	0	0	1
17	Gulvel	0	1	0	0	0	0	0	1
18	Haladi Kumkum/ Lantana camara	0	0	0	0	1	0	0	1
19	Heena / Lawsonia inermis	0	772	0	6	0	0	0	778
20	Insulin	0	0	1	0	0	0	0	1
21	Ixora	0	13	4	7	0	0	0	24
22	Jasmine / Oleaceae	0	2	0	0	1	0	0	3
23	Jaswand / Hibiscus	3	0	5	2	3	0	1	14
24	Kabook	0	0	1	0	0	0	0	1
25	Kaner (Nerium oleander)	3	1	1	0	1	0	0	6
26	Kapur	0	5	0	0	0	0	0	5
27	Kardai/ Cannalily	3	0	0	0	0	0	0	3
28	Karma	0	0	0	1	0	0	0	1
29	Karonda / Carissa carandas	12	2	0	0	0	0	0	14
30	Kunda / Downy Jasmine	1	4	2	0	3	0	0	10
31	Lemon Grass	0	0	1	0	0	0	0	1
32	Lily / Lilium	0	8	3	6	3	0	0	20
33	Lipstick	0	0	0	0	4	0	0	4
34	Lotus	0	0	0	0	1	0	0	1
35	Marigold	0	13	19	0	6	0	0	38
36	Mimosa Pudica/ Lajvanti	0	0	1	0	0	0	0	1
37	Mini Tagar / Crepe jasmine	1	1	2	4	1	0	0	9
38	Mint	0	0	1	0	0	0	0	1
39	Mogra / Jasminum sambac	0	6	0	0	1	1	0	8
40	Money Plant	0	0	0	0	4	0	0	4
41	Mulberry / Kalpa Vruksha	0	1	0	0	1	0	0	2
42	Munjja Grass/	0	0	1	0	0	0	0	1
43	Nagdon	0	0	1	0	0	0	0	1

INVENTYS RESEARCH COMPANY PVT. LTD.									
K-38, Five Star MIDC Area, Butibori, Nagpur									
LIST OF TREES/SHRUBS									
Sr. No.	Name of tree /shrub	East	West	South	North	Drums	Outside gate	Other areas	Total
44	Night Jasmin	0	1	0	0	1	0	1	3
45	Nishigandha / tuberose	2	30	37	0	5	0	0	74
46	Panfuti/Bryophyllum Pinnatum	0	1	2	0	0	0	0	3
47	Pangara tree	0	0	1	0	0	0	0	1
48	Parijat	0	4	1	0	0	0	0	5
49	Pippali	0	0	1	0	0	0	0	1
50	Poi/ Malabar Spinach	1	0	0	0	1	0	0	2
51	Red Ginger	0	0	1	0	0	0	0	1
52	Rohia Plant	0	0	1	0	0	0	0	1
53	Roses	0	7	0	0	0	0	6	13
54	Sadafuli / Catharanthus roseus	9	51	39	0	15	0	5	119
55	Shahan Char Blue	0	0	1	0	0	0	0	1
56	Shankpuspi	0	6	2	0	0	0	3	11
57	Shevanti/Chrysanthemum	0	200	0	0	0	0	0	200
58	Snake plant/Dracaena trifasciata	5	11	57	0	11	11	3	98
59	Ticoma	0	10	1	0	0	1	0	12
60	Tulsi /Ocimum tenuiflorum	20	54	92	0	10	0	8	184
61	Turmeric	0	0	1	0	0	0	0	1
62	Vidya / Morpankhi	0	11	0	0	2	0	0	13
	Total	70	1218	293	34	101	31	28	1775
	Grand Total	222	1439	370	195	112	41	64	2443

ENCLOSURE – 8
SUMMARY OF LEAK DETECTORS

INVENTYS RESEARCH COMPANY PVT. LTD.		
K-38, Five Star Industrial Area, MIDC, Butibori, Nagpur		
Summery of Gas Detector Sensor		
Sr.N o.	Type of Gas Sensor	Quantity
1	HCN Gas Deector	5
2	Hydrgen Gas Detector	4
3	Ammonia Gas Detector	2
	Total	11

ENCLOSURE – 9
FIRE AND SAFETY EQUIPMENTS

- **Competent Persons**
Under the Factories Act & the Maharashtra Factories Rules, 1963
- **Government of India, Accredited Safety Auditor,**
- **License Agency**
for Fire System Design Erection, Commissioning & Auditing
- **Environment Advisor,**
- **Safety Trainer**
- **Supplier safety & Fire Equipment**
- **NABL Accredited Laboratory For Material Testing**
- **Legal Services on HR & IR Matters**



M.D. Safety Consultants
Pvt. Ltd.

Office: Plot No. 9/A, Vinayak Nagar, Nr. Sant Gadge Nagar, Hingna Road,
Nagpur – 440036, Maharashtra. **Mobile:** 09881724840, 09850300765
Email: mdsafetyconsultants@gmail.com, mdsafety2011@gmail.com

List of Fire Fighting Installations and Equipments available at
Inventys Research Company Pt. Ltd.,
K-38, Five Star Industrial Area, MIDC,
Butibori Dist.: Nagpur-441108.

Sr. No.	Particulars	Details
I	Fire Pumps	
1	Jockey Pump -1	For Sprinkler System HP-10 (7.5 KW), Head - 70 mtr. Flow Rate - 10.8 m3/hr Make - Crompton Greaves
2	Main Electric Pump-1	For Sprinkler System HP-60 (45 KW) , Head - 70 mtr. Flow Rate - 137 m3/hr Make - Crompton Greaves
3	Diesel Engine Pump-1	For Sprinkler System HP- 40.19 KW Flow Rate 137 m3/hr Make - Greaves Cotton
4	Jockey Pump -2	For Overall Plant HP- 10 (7.5 KW) Flow Rate -10.8 m3/hr Make - Kirloskar
5	Main Pump-2	For Overall Plant HP-75 (55KW) Flow Rate-171 m3/hr Make - Kirloskar
6	Diesel Engine Pump-2	For Overall Plant HP- 62.56 KW Flow Rate - 171 m3/hr Make - Kirloskar
7	Jockey Pump -3	For Ammonia Storage HP- 10(7.5 KW) Flow Rate -10.85 m3/hr Make - Kirloskar
8	Main Pump-3	For Ammonia Storage HP- 120 (90 KW) Flow Rate -273 m3/hr Make - Kirloskar
9	Diesel Engine Pump-3	For Ammonia Storage HP- 82.43 KW Flow Rate -273 m3/hr Make - Kirloskar

II	Fire Hydrant System	
1	Fire Hydrant	72 Nos.
2	RRL Hose Pipe (UL Approved)	144 Nos.
3	Fire Water Monitor	03 Nos.
4	Water Cum Foam Monitor	11 Nos.
5	Hose Reel Hose Drum	52 Nos.
6	Fire Hose Box with M S Frame	72 Nos.
III	Fire Extinguisher	
1	ABC type 6 Kg.	52 Nos.
2	ABC type 2 Kg.	08 Nos.
3	ABC type 25Kg.	1 No.
4	DCP type 9Kg.	04 Nos.
5	CO2 type 4.5Kg.	34 Nos.
6	CO2 type 6.5Kg.	03 Nos.
7	CO2 type 22.5Kg.	03 Nos.
8	Foam type 9 ltr.	19 Nos.
9	Foam type 50 ltr.	03 Nos.
10	Fire Bucket	58 Nos. (Total Stand : 17 Nos)
IV	Sprinkler System	
1	Sprinkler	1231 Nos. (Type - Pendant/Upright/HVWS/MVWS)
2	Fire alarm Panel (Addressable)	03 Nos. (3AB Plant /2C Plant/ KNCT Building).
3	Fire Alarm Panel (Conventional)	07 Nos. (Electrical Panel /MCC Panel /Biomass Storage /GMP Warehouse/RM Warehouse/Hydrogenation Panel /R&D).
4	Sprinkler Alarm System	1 No. KNCT Building
5	Sprinkler Alarm System	1 No. RM Warehouse.
6	Deluge Valve 1	150 NB Hydrogenation Plant
7	Deluge Valve 2	80 NB Hydrogen Cascade Storage Area
8	Breaching Inlet 1	1 No. Main Gate Area
9	Breaching Inlet 2	1 No. Pump House Area

Place: Nagpur

Date : 06.01.2024



Signature

M. D. Safety Consultants Private Limited,

9A Vinayak Nagar, Hingna Road Nagpur

License No. MFS/LA/RF-630

ENCLOSURE – 10
EMP/ EXPENSES WITH BREAKUP

EMP Expenses with Breakup					
Sr. No.	Component	Year wise allocation in Rs. Lakhs for the capital cost of Environmental, Health & Safety Management Plan		Year wise allocation in Rs. Lakhs for the recurring cost of Environmental, Health & Safety Management Plan	
		2022-23	2023-24	2022-23	2023-24
1	Air pollution	1.55	-	0.64	0.64
2	Water Pollution	-	-	14.38	17.54
3	Noise pollution	-	-	0.11	0.11
4	Green belt	-	-	3.69	2.31
5	Hazardous waste storage & Non-hazardous waste disposal	-	-	4.65	0.53
6	Environmental monitoring and Management	-	-	2.28	2.86
7	Energy conservation measures- Installation of Solar Panels, LED lights, Reduction of fuel consumption by using well efficient insulation to heating equipment	5.99	-	5.70	6.65
8	Rain Water Harvesting, Regular maintenance of equipment to reduce wastage of water due to leaks.	3.73	-	2.94	3.63
	Total	11.27	-	34.39	34.27

ENCLOSURE - 11
MPCB DISPLAY BOARD

INVENTYS RESEARCH COMPANY PVT. LTD. K-38, MIDC BUTIBORI, VILLAGE KIRMITI, TAL. DIST. NAGPUR - 441122.												
CONSENT TO OPERATE UNDER SECTION 26 OF THE WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974 & UNDER SECTION 21 OF THE AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981 AUTHORIZATION UNDER THE RULE 6 OF THE HAZARDOUS & OTHER WASTES (M&TM) RULES 2016.												
DATE OF UPDATE OF DISPLAY : 02/04/2024			CONTACT DETAILS : SHRIKANT KANADEY				MOBILE NO. : 096196 66336					
VALIDITY OF CONSENT : 31 JULY, 2026			E-MAIL : skanadey@inventys.in									
DETAILS OF OPERATION STATUS : OPERATIONAL/ NON-OPERATIONAL												
A. PRODUCTION DETAILS.												
NO	PRODUCTS MANUFACTURED (INCLUDING RECYCLING/UTILIZATION)	HAZARDOUS CHEMICALS USED	QUANTITY	PURPOSE	TYPE OF HAZARDOUS WASTE	CATEGORY	QUANTITY OF HAZARDOUS WASTE GENERATED	QUANTITY OF HAZARDOUS WASTE STORED	QUANTITY OF HAZARDOUS WASTE DISPOSED	MODE OF TREATMENT & DISPOSAL (PRE-PROCESSING, CP-PRO, CESSING, RECYCLING/UTILIZING, REUSE/SLE, INCINERATION ETC)		
i	P-149	AMMONIA GAS	5000 KG	INPROCESS	USED OR SPENT OIL	5.1	0	3600 KG	0	SALE TO AUTHORIZED PARTY/ RECYCLER		
ii	P-440	ACETIC ACID	10000 KG	INPROCESS	SPENT ORGANIC SOLVENT	20.2	0	0	0	SALE TO AUTHORIZED PARTY/ RECYCLER		
iii	P-452	SULPHURIC ACID	1000 KG	INPROCESS	PROCESS RESIDUE AND WASTE	28.1	0	0	0	SALE TO AUTHORIZED PARTY/ RECYCLER /CHWTSDF		
iv		HYDROCHLORIC ACID	1000 KG	INPROCESS	EMPTY BARREL/CONTAINER/LINERS	33.1	0	0	0	SALE TO AUTHORIZED PARTY/ CHWTSDF		
v		CHLORINE GAS			CHEMICAL SLUDGE FROM WASTEWATER TREATMENT	35.3	0	0.50 MT	1.16 MT	SENT TO CHWTSDF ON 28.03.2024		
vi		METHANOL	2000 KG									
vii												
viii												
B. AIR EMISSION												
NO	SOURCE OF AIR POLLUTION	TYPE OF FUEL	AIR POLLUTION CONTROL DEVICES	STACK HEIGHT IN METERS	PARAMETERS MONITORED WITH RESPECT TO AIR POLLUTION							
					P M		CO		SO ₂		NO _X	
					MONITORED DATA DT-21/12/2023	LIMITS/STANDARD PRESCRIBED BY MPCB	MONITORED DATA DT-21/12/2023	LIMITS/STANDARD PRESCRIBED BY MPCB	MONITORED DATA DT-21/12/2023	LIMITS/STANDARD PRESCRIBED BY MPCB	MONITORED DATA	LIMITS/STANDARD PRESCRIBED BY MPCB
i	BOILER-1 4 TPH	BIOMASS PELLETS	MULTI CYCLONE	27	91.1	150	NA	NA	13.4 KG/D	16.48 KG/D	NA	NA
ii	BOILER-2 10 TPH	BIOMASS PELLETS	MULTI CYCLONE	32	-	150	-	NA	-	40.32 KG/D	-	NA
iii	BOILER-3 0.5 TPH	BIOMASS PELLETS	MULTI CYCLONE	15	-	150	-	NA	-	2.016 KG/D	-	NA
iv	HOT OIL UNIT -1	BIOCOAL	SINGLE CYCLONE	17	26.7	150	NA	NA	11.3 KG/D	30 KG/D	NA	NA
v	HOT OIL UNIT -2	LSHS	STOCK	32	-	150	-	NA	-	43.2 KG/D	-	NA
vi	DG SET (250 KVA)	HSD	STOCK	3.5	-	150	-	NA	-	16 KG/D	-	NA
vii	DG SET (125 KVA)	HSD	STOCK	7.6	-	150	-	NA	-	4 KG/D	-	NA
viii												
ix												
x												
C. OCEMS CONNECTIVITY DETAILS												
i	OCEMS CONNECTIVITY DETAILS											
ii	OCEMS DATE OF INSTALLATION		12-03-2020									
iii	OCEMS OPERATIONAL STATUS		OPERATIONAL/ NON-OPERATIONAL									
D. EFFLUENT DISCHARGE (12.03.2024)												
NO	SOURCE OF EFFLUENT DISCHARGE WITH QUANTITY	TREATMENT METHOD	MODE OF DISPOSAL OF TREATMENT	EFFLUENT DISCHARGE MONITORING								
				PH		COD		BOD		TDS		OTHER
				INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	
i	PROCESS WASTE WATER	ETP-154cubM/Day	CETP	8.1	6.8	1300 Mg/L	222.0 Mg/L	-	-	2150 Mg/L	1720 Mg/L	ON 12.10.23
ii	DOMESTIC EFFLUENT	STP-50cubM/Day	GARDENING	7.0	7.2	266 Mg/L	88.0 Mg/L	-	-	758 Mg/L	750 Mg/L	
E. OCEMS CONNECTIVITY DETAILS												
i	OCEMS CONNECTIVITY DETAILS		11-10-2024									
ii	OCEMS DATE OF INSTALLATION		12-03-2020									
iii	OCEMS OPERATIONAL STATUS		OPERATIONAL/ NON-OPERATIONAL									

ENCLOSURE – 12
ENVIRONMENT STATEMENT



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000061672

Submitted Date

30-09-2023

PART A

Company Information

Company Name

InventyS Research Company Pvt Ltd

Application UAN number

MPCB-CONSENT-0000121034

Address

Inventys Research Company Pvt limited

Plot no

K-38, Five Star Industrial Area MIDC Butibori

Taluka

Hingna

Village

Kirmiti

Capital Investment (In lakhs)

13031

Scale

MSI

City

NAGPUR

Pincode

441122

Person Name

Shrinivas Holenavar

Designation

DGM Works

Telephone Number

9619666335

Fax Number

0

Email

MPCB@inventys.in

Region

SRO-Nagpur II

Industry Category

Red

Industry Type

R22 Organic Chemicals manufacturing

Last Environmental statement submitted online

yes

Consent Number

Format1.0/CC/UAN
No.0000121034/CR/2303000461

Consent Issue Date

2023-03-06

Consent Valid Upto

2026-07-31

Establishment Year

2008

Date of last environment statement submitted

Aug 16 2022 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

P487

Consent Quantity

120

Actual Quantity

14.82

UOM

MT/A

P452

12

3.06

MT/A

P485

120

1.18

MT/A

P149

4320

1061.40

MT/A

P516

12

1.24

MT/A

P525

12

0.02

MT/A

P497

12

6.29

MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Recovered Acetic Acid	33.60	21.84	MT/A
Recovered Methanol/Acetone/Methylene Chloride/Toluene	51.60	47.17	MT/A
Spent Sodium Bromide Solution	532.8	32.542	MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	320.00	150.00
Domestic	50.00	41.00
All others	10.00	8.00
Total	496.00	230.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	154.8	35	CMD
Domestic Effluent	47.5	23	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
P487	1	1	
P452	35	0	
P485	29	28.85	
P149	0.82	0	
P516	4.8	0	
P497	6.5	0	

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
30%HCL	5.716	9.916	MT/A
Acetic acid	1848.78	0.00	MT/A
Acetic Anhydride	16.47	0.00	MT/A
Activated carbon	0.19	0.00	MT/A
Ammonia Gas	797.70	1.31	MT/A
Ammonium carbonate	2.27	3.92	MT/A
Ammonium chloride	0.32	0.60	MT/A
CA046 Catalyst	0.15	0.00	MT/A
Calcium Chloride	92.56	0.00	MT/A
Catalyst 1023	0.07	0.00	MT/A

Caustic Lye	31.44	59.59	MT/A
Caustic Soda Flakes	4.15	0.00	MT/A
DIPE	2.51	0.00	MT/A
Ethyl Acetate	10.80	0.00	MT/A
Fresh Toluene	2.09	0.00	MT/A
Hydrogen Gas	0.54	225.0	MT/A
Kal Kat catalyst 4061	0.36	0.18	MT/A
Liquor Ammonia	19.85	38.76	MT/A
MDC	12.93	0.00	MT/A
Methanol	30.20	7.39	MT/A
P440.RM02	32.0	54.50	MT/A
P452.RM01	12.10	0.00	MT/A
P452.RM03	11.72	0.00	MT/A
P487. RM01	3.54	5.40	MT/A
P497.S3	6.87	0.00	MT/A
P516.RM01	1.68	0.00	MT/A
P516.RM02	0.42	0.00	MT/A
P516.RM03	0.45	0.00	MT/A
PCL5	3.72	0.00	MT/A
Sodium Bicarbonate	0.17	47.65	MT/A
Sodium Bisulfite	8.75	0.00	MT/A
Sodium Cyanide	3.75	0.00	MT/A
Sodium Methoxide solution	16.50	0.00	MT/A
Sulphuric Acid 98%	649.30	20.70	MT/A
Toluene	4.82	17.20	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bio Mass	12264	6464.39	MT/A
Bio Coal	1095	127.40	MT/A
LSHS	788.40	134.61	MT/A

Part-C

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
pH	35	7.56	NA	6.0 to 8.5	NA
BOD (3 days 27°C)	35	3.85	NA	100 mg/l	NA
COD	35	149.30	NA	250 mg/l	NA
TSS	35	31.75	NA	100 mg/l	NA

Oil & Grease	35	0.2	NA	10 mg/l	NA
Ammonical Nitrogen	35	1.42	NA	50 mg/l	NA
Phenolic Compounds	35	0.50	NA	1 mg/l	NA
Total Dissolved Solids	35	1260.50	NA	2100 mg/l	NA
Mercury	35	0.00	NA	0.01 mg/l	NA
Arsenic	35	0.03	NA	0.2 mg/l	NA
Chromium (Hexavalent)	35	0.03	NA	0.1 mg/l	NA
Lead	35	0.03	NA	0.1 mg/l	NA
Cyanide	35	0.05	NA	0.1 mg/l	NA
Sulphide	35	0.04	NA	2 mg/l	NA
Phosphate	35	0.61	NA	5 mg/l	NA
Chloride	35	129.78	NA	600 mg/l	NA
Sulphate	35	300.38	NA	1000 mg/l	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
TPM for Boiler-I	7678.383	51.53	0	100 mg/Nm3	NA
SO2 Boiler-I	7678.383	6.96	0	16.48 kg/d	NA
TPM for Boiler-II	19267.283	85.73	0	100 mg/Nm3	NA
SO2 Boiler-II	19267.283	26.8	0	40.32 kg/d	NA
TPM Hot Oil Unit	6026.563	73.303	0	100 mg/Nm3	NA
SO2 Hot Oil Unit	6026.563	13.82	0	43.2 kg/d	NA
TPM for TFH	1649.553	35.93	0	100 mg/Nm3	NA
SO2 for TFH	1649.553	1.95	0	3.6 kg/d	NA
TPM for DG Set 125 KVA	421.953	35.73	0	100 mg/Nm3	NA
SO2 for DG Set 125 KVA	421.953	0.64	0	4 kg/d	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3.66	0.01	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.15	0.16	MT/A
15.2 Discarded asbestos	0.63	0	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	6.27	2.36	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Fly Ash	777.3	274	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

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.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3.66	MT/A	NA
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0.15	MT/A	NA
15.2 Discarded asbestos	0.63	MT/A	NA
35.3 Chemical sludge from waste water treatment	6.27	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	MT/A	NA

Part-G

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
-	0	0	0	0	0	0

Part-H

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacs)
Environment Monitoring and management	Environment Protection and compliance	2.28

Green Belt

Environment Management

3.68

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection ***Environmental Protection Measures*** ***Capital Investment (Lacks)***

Environment Monitoring and management

Environment Management

3.0

Green Belt

Environment Management

5.0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Trees & Shrubs Plantation in premises 2443 Nos.

Name & Designation

Shrinivas Holenavar, DGM (Works)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000061672

Submitted On:

30-09-2023