

COMPLIANCE OF ENVIRONMENT CLEARANCE CONDITIONS
For Expansion of HIKAL LTD., MIDC Taloja, Maharashtra
Accorded by Ministry of Environment and Forests (I.A. Division)
F. No. J – 11011/63/ 2007- IA II (I), Government of India New Delhi,
Dt. 28th August 2007

A. SPECIFIC CONDITIONS

<p>i.) Dust collectors and venturi scrubbers shall be provided to control particulate emissions.</p>	<p>We have provided dust collectors in the packing system for the control of particulate emissions.</p> <p>Ventury scrubbers are provided for scrubbing of gas. For other process emissions and storage tank vents packed bed scrubber provided.</p> <p>Cleaning of filters is being carried out on regular basis.</p>
<p>ii.) Fugitive emissions in the work zone environment shall be periodically monitored for specific pollutants like solvents, VOC, HCl, SO₂ etc. with instruments of proper range. The flue gas emissions shall confirm to the standards prescribed by the MPCB.</p>	<p>Work place monitoring is carried out on regular basis for solvents, VOC, HCl, etc Reports are well within limit, Copies are attached.as Annexture I</p> <p>Flue gas monitoring is carried out by MoEF approved laboratory. Reports are well within limit, Copies are attached as Annexture II</p> <p>Further we have also installed OCEMS system at our boiler stack for continuous monitoring of particulate matter,SO₂ and NO_x.</p> <p>OCEMS system is connected to MPCB and CPCB servers.</p>
<p>iii) Total water requirement from MIDC supply, effluent generation shall not exceed 1162 m³/day as per the permission accorded by the MIDC. The waste water generation shall not exceed 717 m³/day and treated for primary, secondary and tertiary treatment. Treated effluent shall be sent to common effluent treatment plant (CETP) for further treatment. The quality of the treated effluent shall confirm to the standards prescribed by the MPCB/EPA Rules. Toxicity Factor – 4 (TF – 4) test shall be carried out as per the latest CPCB guidelines.</p>	<p>The water requirement from MIDC supply and Effluent generated is not exceeded than the permission granted.</p> <p>We have full-fledged Effluent Treatment Plant comprising of Primary, Secondary and Tertiary treatment and final effluent is sent to CETP for further treatment and disposal.</p> <p>ETP outlet effluent testing is ongoing as per consent parameters. Copies are attached. as Annexture III</p> <p>We are unable to identify agency engaged in analysis of Toxicity Factor – 4 test. We have requested to MPCB to guide us regarding the same.</p>

<p>iv) The solid waste shall be segregated according to its calorific content and stored separately, for treatment and disposal. ETP sludge, evaporation salts, spent carbon etc. shall be incinerated in the common incineration facility installed at TSDF at Talaja, Maharashtra and no incinerator should be installed at the project site. Used oil and batteries shall be sold to authorized recyclers.</p>	<p>Solid wastes are segregated and stored in isolated dedicated storage area.</p> <p>We are the member of Mumbai Waste Management Limited- Talaja (CHWTSDf) and presently all segregated hazardous waste is treated and disposed off scientifically at their facility. Incinerable Waste sent to CHWTSDf at Talaja only.MWML membership letter is attached as Annexure IV</p> <p>Used oil and batteries are being sold to authorized recyclers as per the PCB guidelines.</p>
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B. GENERAL CONDITIONS:

<p>i.) The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB), and the State Government</p>	<p>We are complying with all the MPCB and state Government norms and in future also will comply in the same way.</p>
<p>ii) No further expansion or modifications in the plant should be carried out without prior approval of Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance, a fresh reference shall be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures reqd., if any.</p>	<p>No Expansion or modification will be carried out without prior approval of Ministry of Environment and Forests.</p> <p>We have not modified or expanded plant after above mentioned clearance.</p>
<p>iii) The gaseous emissions (SO₂, NO_x, HC, HCl and Cl₂) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p>	<p>Gaseous emissions like SO₂, NO_x,Cl₂ and Particulate matter are monitored on monthly basis from MoEF approved laboratory.</p> <p>Further we have also installed OCEMS system at our boiler stack for continuous monitoring of particulate matter,SO₂ and NO_x.</p> <p>OCEMS system is connected to MPCB and CPCB servers.</p> <p>We are complying all the standards prescribed by the concerned authorities from time to time. Utmost care will be taken in future also in order to avoid any deviations.</p>

<p>iv) The process emissions (SO₂ and HCl) shall be scrubbed by caustic or wet scrubber from all the stacks. Vents from scrubbers and condensers shall be periodically monitored and maintained as per the best practicable technology. The VOC emissions generated due to use of organic chemicals from various reactors shall be controlled by installing chilled water and chilled brine condenser system to condensate the organic vapors to recycle and reuse in the process.</p>	<p>Stacks with Process emissions (SO₂ and HCl) are connected to caustic / wet scrubber. Vents from scrubbers and condensers are monitored on monthly basis through MoEF approved Laboratory and found meeting stipulated norms.</p> <p>Organic vapors are condensed and recycled to the process by using chilled brine & chilled water condensers.</p>
<p>v) Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the MPCB. Regular monitoring shall be carried out for relevant parameters.</p>	<p>Quality of influent and effluent is analyzed for relevant parameters regularly in our full-fledged laboratory for the effective operation effluent treatment plant.</p> <p>We have also attached OCEMS system at our ETP outlet for continuous monitoring of pH, COD, BOD, TSS.</p> <p>OCEMS system is connected to MPCB and CPCB servers.</p>
<p>vi) As per Charter on Corporate Responsibility on Environment Protection the bio-assay test shall be replaced by Toxicity Factor test method developed by CPCB.</p>	<p>We are unable to identify agency engaged in analysis of Toxicity Factor – 4 test. We have requested to MPCB to guide us regarding the same.</p>
<p>vii) All the solvent recovery condensers should be cooled with low temperature brine to reduce solvent loss to the environment. Spent solvent shall be recovered as far as possible & recovery shall not be less than 95%. All venting equipments shall have vapour recovery system. Reactors shall be provided with mechanical seal to handle the odorous chemicals. Actions shall be taken to reduce the air emissions in the work zone environment as far as possible.</p>	<p>A solvent recovery system is provided to reduce the solvent loss to less than 5 per cent and all venting equipment's are connected to the vapor recovery system.</p> <p>Reactors & pumps are provided with mechanical seals to reduce the odorous chemicals.</p> <p>Chemicals are handled in closed system to minimize exposure to person as well as release to the environment.</p>
<p>viii) Green belt of adequate width and density should be developed in 33% of the total project area to mitigate the effect of fugitive emissions all-round the plant in consultation with the local DFO as per the CPCB guidelines.</p>	<p>Green belt has been developed in project site to the best extent possible to mitigate the effect of fugitive emissions</p>

ix) The company shall undertake water harvesting measures to recharge the ground water as well as reduce consumption of fresh water.	Water conservation measures such as rain water harvesting is carried out to reduce consumption of fresh water..
x) As proposed Rs.100 lakhs and Rs.33 lakhs earmarked towards the capital cost and recurring cost for the environmental pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for all conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhopal. The funds shall not be diverted for any other purposes.	Approx. Rs. 10 Cr. Has been earmarked as recurring cost for environmental pollution control measures to implement conditions stipulated by MoEF as well as state Government.This fund is be exclusively used for environmental pollution control measures.
xi) The company shall undertake eco development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to the MPCB within three months of receipt of this letter of approval.	Eco development measures including community welfare measures in the project area for the overall improvement of the environment are being implemented under CSR activity.
xii) The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approval of Chief Inspector of Factories, Chief Inspector of Explosives and Fire Safety Inspectorate etc. must be obtained.	We have always been complying with the rules and regulations of Manufacture, Storage, and Import of Hazardous Chemicals Rules 2000. Approvals from authorities such as Inspector of Factories, Chief Inspector of Explosives, and Fire Safety Inspectorate are obtained.
xiii) The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2000. Authorization from the MPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	We have obtained requisite consent & authorization from MPCB and complying with the H.W. (management, handling & trans-boundary movement) rules 2016. Form- 4, 5 and Form 10 etc. are maintained /submitted regularly. We are member of MWML- Taloja which CHWSTDF. All hazardous waste is being disposed off scientifically.

<p>xiv) Multiple safety systems shall be provided in reaction vessel handling flammable solvent or in which pressurized operations are carried out and hazard analysis of all operations shall be carried out. All the safety measures mentioned in the Factory Act shall be strictly adopted. Safety audit of the plant by a qualified safety engineer shall be carried out at least once in two years.</p>	<p>HAZOP and hazard analysis studies were carried out. Safety measures mentioned in the Factory act are implemented strictly and safety audit are carried out once in two years by a State Govt. approved Safety engineers as per the statutory requirements.</p>
<p>xv) The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of noise generation. The ambient noise level shall conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>Noise levels are kept within standards by implementing good engineering practices and acoustic enclosures to DG sets</p> <p>Presently workplace monitoring are carried out for noise levels in and along the periphery of the plant. and noise levels are within prescribed limits.</p> <p>Noise level monitoring reports are attached as Annexure V</p>
<p>xvi) Occupational health surveillance program shall be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre shall be strengthened and medical records of each employee should be maintained separately.</p>	<p>Six monthly medical examination is being carried out for persons handling hazardous chemicals apart from annual medical examination of all the employees of the plant.</p> <p>Company has provided Occupational health center with qualified medical officer and male nurses round the clock. Medical records are maintained, and trends are monitored.</p>
<p>xvii) A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out Environment Management and monitoring functions.</p>	<p>Environment Management Cell is functional backed by full-fledged laboratory facilities at the site to carry out Environment management and monitoring functions..</p>
<p>xviii) The project proponent shall also comply with all the environmental protection measures and safeguards recommendation in the EIA/EMP report</p>	<p>All environmental protection measures and safeguards recommendations in EIA / EMP report are complied with.</p>

<p>xix) The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office at Bhopal / MPCB / CPCB. A six monthly compliance status report should be submitted to monitoring agencies.</p>	<p>Six monthly compliance reports is submitted to the Ministry's Regional Office at Nagpur at regular intervals. Last report submitted in the month of June 24</p> <p>This practice will be followed in future also.</p>
<p>xx) The project proponent should advertise in at least two local news papers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Maharashtra Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. The advertisement shall be made within 7 days from the date and issue of the clearance letter and copy of the same shall be forwarded to Ministry's Regional Office at Bhopal.</p>	<p>This has already been complied with. The environmental clearance was advertised in two local newspapers viz. Free Press (English) and Nav Shakti (Marathi) language, on 3rd September 2007.</p>
<p>xxi) The project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project.</p>	<p>Financial closure done on 31st Dec 2009.</p>

Hikal Workplace Monitoring					
Month	Jun-24			Date :10.06.24 to 17.06.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 - First second floor & Hypo area	2	ACGIH	ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016	NIOSH	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
	ETP/PTP — 6.0mts.			ND	
Acetone	Storage tank T-802 A & B.(During unloading)	250	NIOSH	ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
	MPP			ND	
Benzene	Phase-2 0mt.	0.5	ACGIH	ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
	Storage tank T - 808 .			ND	
				ND	
Chlorine	Tonner unloading pad.	0.5	ACGIH	ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
				ND	
Aniline	Tanker unloading pad & storage tank (T806)	2	ACGIH	ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001, T4005 and T4006 area.	10	ACGIH	ND	

Checked By:  Verified By: 

MSDS-Material Safety Data Sheet.
 ACGIH-The American Conference of Governmental Industrial Hygienists.
 NIOSH-National Institute for Occupational Safety and Health
 ND-Not Detected

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-307/04/2024-25	Date of Reporting 25/04/2024
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SAMPLING DETAILS

01) Location of Sampling	Solvent Tanker Unloading ABC Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	17/04/2024	
05) Time of Sampling & Sampling Duration	09:00 AM to 11:00AM (60 Minutes)	
06) Date of Received in Lab	18/04/2024	
07) Analysis Start Date	18/04/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/54
	Calibration Date	Calibration On: 06/07/2023, Due On: 06/07/2024

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (09:00 am)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (09:30 am)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (10:00 am)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (10:30 am)	mg/m ³	ND	NS	G.C. (FID)Method

UOM – Unit of Measurement, NS – Not Specified, ND – Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ☎ 9970429991 / 7745069991

Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

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SAMPLING DETAILS

01) Location of Sampling	Acid Alkali Tanker Unloading Area
02) Sampling Procedure	IS 5182 (Part 1):2006
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
04) Date of Sampling	17/04/2024
05) Time of Sampling & Sampling Duration	11:00 AM to 13:00 PM (60 Minutes)
06) Date of Received in Lab	18/04/2024
07) Analysis Start Date	18/04/2024
08) Instrument Details	Make/Model No. AshaEnviro
	Serial No. EELRC/EQ/HS/54
	Calibration Date Calibration On: 06/07/2023, Due On: 06/07/2024

RESULTS

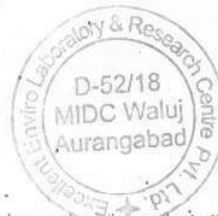
Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (11:00 am)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (11:30 am)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (12:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (12:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

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WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., F - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-309/04/2024-25	Date of Reporting 25/04/2024
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SAMPLING DETAILS

01) Location of Sampling	Near Fencing Solvont Drum Shade Area
02) Sampling Procedure	IS 5182 (Part 1):2006
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
04) Date of Sampling	17/04/2024
05) Time of Sampling & Sampling Duration	13:00 PM to 15:00 PM (60 Minutes)
06) Date of Received in Lab	18/04/2024
07) Analysis Start Date	18/04/2024
08) Instrument Details	Make/Model No. AshaEnviro
	Serial No. EELRC/EQ/HS/54
	Calibration Date Calibration On: 06/07/2023, Due On: 06/07/2024

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (13:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (13:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (14:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (14:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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SAMPLING DETAILS

01) Location of Sampling	MPP Tank Unbading Area
02) Sampling Procedure	IS 5182 (Part 1):2006
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
04) Date of Sampling	17/04/2024
05) Time of Sampling & Sampling Duration	15:00 PM to 17:00 PM (60 Minutes)
06) Date of Received in Lab	18/04/2024
07) Analysis Start Date	18/04/2024
08) Instrument Details	Make/Model No. AshaEnviro
	Serial No. EELRC/EQ/HS/54
	Calibration Date Calibration On: 06/07/2023, Due On: 06/07/2024

RESULTS

Sl. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (15:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (15:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (16:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (16:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM – Unit of Measurement, NS – Not Specified, ND – Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ☎ 9970429991/ 7745069991

Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991

Email : punesales@excellentenviro.com

Certifications : ISO 9001:2015 ☎ ISO 14001:2015 ☎ ISO 45001:2018

Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-311/04/2024-25	Date of Reporting 25/04/2024
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SAMPLING DETAILS

01) Location of Sampling	Near Operation Building Area
02) Sampling Procedure	IS 5182 (Part 1):2006
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
04) Date of Sampling	17/04/2024
05) Time of Sampling & Sampling Duration	17:00 PM to 19:00-PM (60 Minutes)
06) Date of Received in Lab	18/04/2024
07) Analysis Start Date	18/04/2024
08) Instrument Details	Make/Model No. AshaEnviro
	Serial No. EELRC/EQ/HS/54
	Calibration Date Calibration On: 06/07/2023, Due On: 06/07/2024

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (17:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (17:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (18:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (18:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID Date of Reporting	EEL/ABD/WP-33/07/2024-25 15/07/2024
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SAMPLING DETAILS

01) Location of Sampling	Solvent Tanker Unloading ABC Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	07/07/2024	
05) Time of Sampling & Sampling Duration	10:00 AM to 12:00 PM (120 Minutes)	
06) Date of Received in Lab	08/07/2024	
07) Analysis Start Date	08/07/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/74
	Calibration Date	Calibration On: 06/07/2024, Due On: 05/07/2025

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (10:00 am)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (10:30 am)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (11:00 am)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (11:30 am)	mg/m ³	ND	NS	G.C. (FID)Method

UOM – Unit of Measurement, NS – Not Specified, ND – Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Email : punesales@excellentenviro.com

Certification : ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

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Format No. EELRC/LAB/E/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-34/07/2024-25	Date of Reporting 15/07/2024
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SAMPLING DETAILS

01) Location of Sampling	Acid Alkali Tanker Unloading Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	07/07/2024	
05) Time of Sampling & Sampling Duration	12:00 PM to 14:00 PM (120 Minutes)	
06) Date of Received in Lab	08/07/2024	
07) Analysis Start Date	08/07/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/74
	Calibration Date	Calibration On: 06/07/2024, Due On: 05/07/2025

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (12:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (12:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (13:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (13:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhanamashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-35/07/2024-25	Date of Reporting 15/07/2024
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SAMPLING DETAILS

01) Location of Sampling	Near Fencing Solvent Drum Shade Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	07/07/2024	
05) Time of Sampling & Sampling Duration	14:00 PM to 16:00 PM (120 Minutes)	
06) Date of Received in Lab	08/07/2024	
07) Analysis Start Date	08/07/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/74
	Calibration Date	Calibration On: 06/07/2024, Due On: 05/07/2025

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (14:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (14:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (15:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (15:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhaminashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-36/07/2024-25	Date of Reporting 15/07/2024
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SAMPLING DETAILS

01) Location of Sampling	MPP Tank Unloading Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	07/07/2024	
05) Time of Sampling & Sampling Duration	16:00 PM to 18:00 PM (120 Minutes)	
06) Date of Received in Lab	08/07/2024	
07) Analysis Start Date	08/07/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/74
	Calibration Date	Calibration On: 06/07/2024, Due On: 05/07/2025

RESULTS

Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (16:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (16:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (17:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (17:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method

UOM - Unit of Measurement, NS - Not Specified, ND - Not Detected.

Remark: - Results are within the Factories act 1948.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/073-7.8

WORKPLACE AIR MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/WP-37/07/2024-25	Date of Reporting 15/07/2024
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SAMPLING DETAILS

01) Location of Sampling	Near Operation Building Area	
02) Sampling Procedure	IS 5182 (Part 1):2006	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.	
04) Date of Sampling	07/07/2024	
05) Time of Sampling & Sampling Duration	18:00 PM to 20:00 PM (120 Minutes)	
06) Date of Received in Lab	08/07/2024	
07) Analysis Start Date	08/07/2024	
08) Instrument Details	Make/Model No.	AshaEnviro
	Serial No.	EELRC/EQ/HS/74
	Calibration Date	Calibration On: 06/07/2024, Due On: 05/07/2025

RESULTS

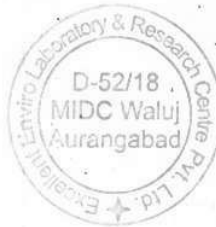
Sr. No.	Parameter	UOM	Result	Limits as per Factories Act 1948	Standard Method
1	Total VOC (18:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
2	Total VOC (18:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method
3	Total VOC (19:00 pm)	mg/m ³	ND	NS	G.C. (FID)Method
4	Total VOC (19:30 pm)	mg/m ³	ND	NS	G.C. (FID)Method


UOM – Unit of Measurement, NS – Not Specified, ND – Not Detected.

Remark:- Results are within the Factories act 1948.

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Email : punesales@excellentenviro.com

Certifications : ♦ ISO 9001: 2015 ♦ ISO 14001 : 2015 ♦ ISO 45001: 2018


Website : www.eelab.in/ www.excellentenviro.com


Month	Jun-24			Date :10.06.24 to 17.06.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 - First,second floor & Hypo area	2	ACGIH	ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016	NIOSH	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
	ETP/PTP --- 6.0mts.			ND	
Acetone	Storage tank T-802 A & B.(During unloading)	250	NIOSH	ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
	MPP			ND	
Benzene	Phase-2 0mt.	0.5	ACGIH	ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
	Storage tank T - 808 .			ND	
Chlorine	Tonner unloading pad.	0.5	ACGIH	ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
Aniline	Tanker unloading pad & storage tank (T806)	2	ACGIH	ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By-  Verified By- 

MSDS-Material Safety Data Sheet.
 ACGIH-The American Conference of Governmental Industrial Hygienists.
 NIOSH-National Institute for Occupational Safety and Health
 ND-Not Detected

Month	Jul-24		Date :22.07.24 to 27.07.24		
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 - First,second floor & Hypo area	2	ACGIH	ND	
Formaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016	NIOSH	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
	ETP/PTP --- 6.0mts.			ND	
Acetone	Storage tank T-802 A & B.(During unloading)	250	NIOSH	ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
	MPP			ND	
Benzene	Phase-2 0mt.	0.5	ACGIH	ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
	Storage tank T - 808 .			ND	
Chlorine	Tonner unloading pad.	0.5	ACGIH	ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
Aniline	Tanker unloading pad & storage tank (T806)	2	ACGIH	ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By- 

Verified By- 

MSDS-Material Safety Data Sheet.
 ACGIH-The American Conference of Governmental Industrial Hygienists.
 NIOSH-National Institute for Occupational Safety and Health
 ND-Not Detected

Workplace Monitoring

Month		Aug-24		Date :26.08.24 to 31.08.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH/FA	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 -First,second floor & Hypo area	2	ACGIH	ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016 / 1	NIOSH / The Factory Act 1948(second schedule Sec.41F)	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH & The Factory Act 1948 (second schedule Sec.41F)	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
	ETP/PTP -- 6.0mts.			ND	
Acetone	Storage tank T-802 A & B.(During unloading)	250	NIOSH	ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
Benzene	Phase-2 0mt.	0.5	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
	Storage tank T - 808 .			ND	
Chlorine	Tonner unloading pad.	0.5 / 1	ACGIH / The Factory Act 1948(second schedule Sec.41F)	ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
Aniline	Tanker unloading pad & storage tank (T806)	2	ACGIH & The Factory Act (second schedule Sec.41F)	ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH/FA	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By-  Verified By- 

MSDS-Material Safety Data Sheet.
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 NIOSH-National Institute for Occupational Safety and Health
 FA-The Factory act 1948,Sec.41F
 *ND-Not Detected

HFKAL		Workplace Monitoring			
Month	Sep-24			Date :15.09.24 to 20.09.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH/FA	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
Triethyl amine	Phase 3.Cascade-1area.	1	ACGIH	ND	
	Raw Material- storage area.			ND	
HCL	MPP Top floor-Tox cabin	2	ACGIH	ND	
	T804 (Unloading Phase 3 -First,second floor & Hypo area			ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016 / 1	NIOSH / The Factory Act 1948(second schedule Sec.41F)	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH & The Factory Act 1948 (second schedule Sec.41F)	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
Acetone	ETP/PTP -- 6.0mts.	250	NIOSH	ND	
	Storage tank T-802 A & B.(During unloading)			ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
Benzene	12mts.	0.5	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	MPP			ND	
	Phase-2 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
Chlorine	Extract benzene tank V - 504 area.	0.5 / 1	ACGIH / The Factory Act 1948(second schedule Sec.41F)	ND	
	Storage tank T - 808 .			ND	
	Tonner unloading pad.			ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
Aniline	MCA plant 12 mts.	2	ACGIH & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
	Tanker unloading pad & storage tank (T806)			ND	
CS2	Phase 3.Amidine reactor area.	10	MSDS & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Tanker unloading pad & storage tank.			ND	
DMF	Phase 1 ADTC reactor and MPP-reactor R3101	10	ACGIH	ND	
	MPP 3rd Floor			ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
Acetic Acid	MPP Tank Farm (During unloading)	10	ACGIH	ND	
	MPP Packing			ND	
Mono Chloro Benzene	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By- *[Signature]* Verified By- *[Signature]*

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 *ND-Not Detected

HFKAL		Workplace Monitoring			
Month	Oct-24			Date :15.10.24 to 20.10.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH/FA	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 -First,second floor & Hypo area	2	ACGIH	ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016 / 1	NIOSH / The Factory Act 1948(second schedule Sec.41F)	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH & The Factory Act 1948 (second schedule Sec.41F)	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
Acetone	ETP/PTP --- 6.0mts.	250	NIOSH	ND	
	Storage tank T-802 A & B.(During unloading)			ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
Benzene	MPP	0.5	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-2 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
Chlorine	Storage tank T - 808 .	0.5 / 1	ACGIH / The Factory Act 1948(second schedule Sec.41F)	ND	
	Tonner unloading pad.			ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
Aniline	Emergency scrubber and AHCL area.	2	ACGIH & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Tanker unloading pad & storage tank (T806)			ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By- 

Verified By- 

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 *ND-Not Detected

HICAL		Workplace Monitoring			
Month	Nov-24			Date :15.11.24 to 20.11.24	
Chemical	Area	TLV ppm	Standard	Actual	Remarks
			MSDS/ACGIH/NIOSH/FA	Level ppm	
O-Xylene	T807 and T4010 (Recovery)	100	ACGIH	ND	
Methanol	Storage tank T822 & T801 (During unloading)	200	ACGIH	ND	
	Storage tank T-4009 (Recovery)			ND	
	Phase 3.Cascade-1area.			ND	
Triethyl amine	Raw Material- storage area.	1	ACGIH	ND	
	MPP Top floor-Tox cabin			ND	
HCL	T804 (Unloading Phase 3 -First,second floor & Hypo area	2	ACGIH	ND	
Fomaldehyde	MPP-Storage Tank T6401 (During unloading)	0.016 / 1	NIOSH / The Factory Act 1948(second schedule Sec.41F)	ND	
Toluene	Storage tank T823 (During unloading),T4012 & T4013(Recovery)	100	NIOSH & The Factory Act 1948 (second schedule Sec.41F)	ND	
Ammonia-aq. 25%	MPP-G- floor During IBC unloading	25	ACGIH	ND	
Ammonia	Storage tank T- 811.	25	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-1.ADTC reactors area 12mts.			ND	
	Phase-2. Ammonia evaporator area. 0 mt.			ND	
	Phase-3. 18% ammonia - Water mixture area 6 mts.			ND	
	Tanker unloading pad.			ND	
	Utility Area			ND	
	ETP/PTP — 6.0mts.			ND	
Acetone	Storage tank T-802 A & B.(During unloading)	250	NIOSH	ND	
	MCA Plant 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
Benzene	MPP	0.5	ACGIH & The Factory Act 1948(second schedule Sec.41F)	ND	
	Phase-2 0mt.			ND	
	6mts.			ND	
	12mts.			ND	
	Extract benzene tank V - 504 area.			ND	
Chlorine	Storage tank T - 808 .	0.5 / 1	ACGIH / The Factory Act 1948(second schedule Sec.41F)	ND	
	Tonner unloading pad.			ND	
	Chlorine Tonner storage shed.			ND	
	Chlorine evaporator shed.			ND	
	MCA plant 12 mts.			ND	
	Hypo Reactor R670			ND	
	Emergency scrubber and AHCL area.			ND	
Aniline	Tanker unloading pad & storage tank (T806)	2	ACGIH & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Phase 3.Amidine reactor area.			ND	
CS2	Tanker unloading pad & storage tank.	10	MSDS & The Factory Act 1948 (second schedule Sec.41F)	ND	
	Phase 1 ADTC reactor and MPP-reactor R3101			ND	
DMF	MPP 3rd Floor	10	ACGIH	ND	
	MPP 2nd Floor			ND	
	MPP 1st Floor			ND	
	MPP Tank Farm (During unloading)			ND	
	MPP Packing			ND	
Acetic Acid	T-826 -Tankfarm area.(During unloading)	10	ACGIH	ND	
Mono Chloro Benzene	T-4001,T4005 and T4006 area.	10	ACGIH	ND	

Checked By- 

Verified By- 

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 NIOSH-National Institute for Occupational Safety and Health
 FA-The Factory act 1948,Sec.41F
 *ND-Not Detected

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
 Master in Water & Waste Water Treatment, Monitoring,
 Testing & Environmental Compliance

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/S-21/06/2024-25 26/06/2024
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SAMPLING DETAILS

01) Location of Sampling	S - 1 DG Set 1500 KVA	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1 x no. SO ₂ : 30 ml x 1 no. (Plastic Bottle) NO _x : 30 ml x 1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	12:00 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	6.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	384 K	
14) Differential Pressure	1.2mmWC	
15) Velocity	4.08m/sec	
16) Diameter of Stack	0.1524 meter	
17) Stack Area	0.01824 m ²	
18) Gas Volume	207.908Nm ³ /hr	
19) Fuel Used	Diesel	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	FELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

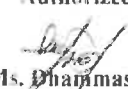
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	65.7	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	0.93	<160	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	0.34	-	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM) & Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

 (Mr. Prashant Patil)
 (Dy. Quality Manager)

Authorized Signatory

 (Ms. Dhanamashila Narwade)
 (Dy. Technical Manager)

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- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory. EELRCPL

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

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE - D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879, 9970429991 / 7745069991
 Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com
 MUMBAI OFFICE - Dhawalgiri Co-op. Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thane Naka, Panvel - 410 206 ☎ 08652671991
 Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com
 PUNE OFFICE - 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune - 411019 ☎ 7447439991
 Email : punesales@excellentenviro.com
 Website : www.eelrcpl.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-21/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 1 DG Set 1500 KVA	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	12:00 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	6.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	384 K	
14) Differential Pressure	1.2mmWC	
15) Velocity	4.08m/sec	
16) Diameter of Stack	0.1524 meter	
17) Stack Area	0.01824 m ²	
18) Gas Volume	207.908Nm ³ /hr	
19) Fuel Used	Diesel	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	65.7	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	0.93	<160	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	0.34	-	IS 11255 (Part 7):2005

UOM – Unit of Measurement

Remark- Total Particulate Matter (TPM) & Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhanamashila Narwade)
(Dy. Technical Manager)

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

Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ☎ 9970429991/ 7745069991

Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op. Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaiesales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991

Email : punesales@excellentenviro.com

Certification : ISO 9001: 2015 ISO 14001 : 2015 ISO 45001: 2018

Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-22/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	12:35PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	445 K	
14) Differential Pressure	3.5mmWC	
15) Velocity	7.49 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	31906.349Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	65.0	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	41.8	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	39.5	<50	IS 11255 (Part 7):2005

UOM – Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

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Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

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Certification : ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018

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Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-23/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 5 Ventilation Blower - Plant - 1 (BLW - 201)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	01:10 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	27.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	301 K	
14) Differential Pressure	1.3mmWC	
15) Velocity	3.75 m/sec	
16) Diameter of Stack	0.53 meter	
17) Stack Area	0.2206 m ²	
18) Gas Volume	2948.418Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
I	Total Particulate Matter (TPM)	mg/Nm ³	25.1	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-24/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 6 Acid Scrubber (C - 502)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	01:45 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	310K	
14) Differential Pressure	1.8mmWC	
15) Velocity	4.48m/sec	
16) Diameter of Stack	0.45 meter	
17) Stack Area	0.15904 m ²	
18) Gas Volume	2465.707 Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Acid Mist	mg/Nm ³	1.9	<20	-

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhampashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-25/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 7 Vent Sorb Blower Plant - 2 (BLW - 501)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	02:20 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	299 K	
14) Differential Pressure	1.4mmWC	
15) Velocity	3.88 m/sec	
16) Diameter of Stack	0.1meter	
17) Stack Area	0.007854 m ²	
18) Gas Volume	109.338Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	29.6	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-26/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 8 Vent Sorb Blower Plant - 3 (BLW - 605)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	02:55 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height	13.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	316 K	
14) Differential Pressure	1.6mmWC	
15) Velocity	4.27 m/sec	
16) Diameter of Stack	0.334 meter	
17) Stack Area	0.08762 m ²	
18) Gas Volume	1270.173Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	CS ₂	mg/Nm ³	<0.01	--	IS 11255 (Part-4)
2	Organic Concentrations	mg/Nm ³	2.1	<100	GC

UOM - Unit of Measurement.

Remark- Organic Concentrations result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-27/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 10 Emergency Chlorine Blower	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	03:30 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	17.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	307 K	
14) Differential Pressure	1.2mmWC	
15) Velocity	3.64 m/sec	
16) Diameter of Stack	0.85 meter	
17) Stack Area	0.5675 m ²	
18) Gas Volume	7218.511Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Chlorine (Cl ₂)	mg/Nm ³	0.9	<5.0	IS 5182 (Part - 19)

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-28/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 11 Ammonia Scrubber (C - 1203)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	04:05 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	20.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	314 K	
14) Differential Pressure	1.5mmWC	
15) Velocity	4.12 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.019635 m ²	
18) Gas Volume	276.386Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

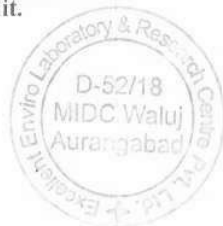
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Ammonia (NH ₃)	mg/Nm ³	17.1	<50.0	IS 11255 (Part - 6)

UOM - Unit of Measurement.

Remark- Ammonia (NH₃) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Client's Name & Address	Sample ID.	EEL/ABD/S-29/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 12 Bag Filter Blower (BLW - 601)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	04:40 PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	305 K	
14) Differential Pressure	1.3mmWC	
15) Velocity	3.78 m/sec	
16) Diameter of Stack	0.315 meter	
17) Stack Area	0.07793 m ²	
18) Gas Volume	1036.133Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	41.0	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

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Email : punesales@excellentenviro.com

Certification : ISO 9001 : 2015 ☎ ISO 14001 : 2015 ☎ ISO 45001 : 2018

Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-30/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	27/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 13 Bag Filter Blower (BLW - 602)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	19/06/2024	
07) Time of Sampling & Sampling Duration	11:00 AM (30 min)	
08) Date of Received in Lab	20/06/2024	
09) Analysis Start Date	20/06/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	313 K	
14) Differential Pressure	1.7mmWC	
15) Velocity	4.38 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	736.956Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

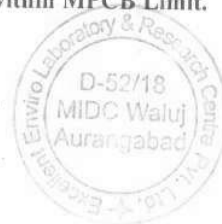
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	43.0	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-31/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	27/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 14 Bag Filter Blower (BLW - 603)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	19/06/2024	
07) Time of Sampling & Sampling Duration	11:35AM (30 min)	
08) Date of Received in Lab	20/06/2024	
09) Analysis Start Date	20/06/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	309 K	
14) Differential Pressure	1.4mmWC	
15) Velocity	3.95 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	673.209Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

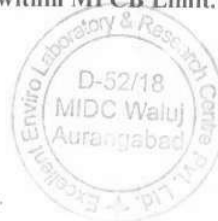
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	37.0	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. A. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-04/07/2024-25	Date of Reporting 09/07/2024
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SAMPLING DETAILS

01) Location of Sampling	S - 1 DG Set 1500 KVA	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	11:00 AM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	6.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	381 K	
14) Differential Pressure	1.3mmWC	
15) Velocity	4.22m/sec	
16) Diameter of Stack	0.1524 meter	
17) Stack Area	0.01824 m ²	
18) Gas Volume	216.736Nm ³ /hr	
19) Fuel Used	Diesel	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	61.4	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	1.37	<160	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	0.69	-	IS 11255 (Part 7):2005

UOM - Unit of Measurement

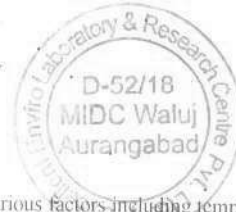
Remark- Total Particulate Matter (TPM) & Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)



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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-05/07/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	11:35AM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	442 K	
14) Differential Pressure	3.1mmWC	
15) Velocity	7.03 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	30150.073Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	62.6.0	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	43.5	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	34.8	<50	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-06/07/2024-25
Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 5 Ventilation Blower - Plant - 1 (BLW - 201)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	12:10 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	27.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	304 K	
14) Differential Pressure	1.4mmWC	
15) Velocity	3.92 m/sec	
16) Diameter of Stack	0.53 meter	
17) Stack Area	0.2206 m ²	
18) Gas Volume	3051.664Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

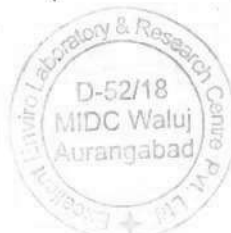
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	21.9	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-07/07/2024-25
Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 6 Acid Scrubber (C - 502)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	12:45 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	307K	
14) Differential Pressure	1.9mmWC	
15) Velocity	4.58m/sec	
16) Diameter of Stack	0.45 meter	
17) Stack Area	0.15904 m ²	
18) Gas Volume	254.438Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Acid Mist	mg/Nm ³	2.3	<20	-

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhannashila Narwade)
(Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-08/07/2024-25
M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S-7 Vent Sorb Blower Plant - 2 (BLW - 501)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1x1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	01:20 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	295 K	
14) Differential Pressure	1.6mmWC	
15) Velocity	4.12 m/sec	
16) Diameter of Stack	0.1meter	
17) Stack Area	0.007854 m ²	
18) Gas Volume	117.675Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	24.6	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 | 9970429991/ 7745069991

Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 | 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 | 7447439991

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-09/07/2024-25
	Date of Reporting 09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S-8 Vent Sorb. Blower Plant - 3 (BLW - 605)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	01:55 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height	13.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	312K	
14) Differential Pressure	1.7mmWC	
15) Velocity	4.37 m/sec	
16) Diameter of Stack	0.334 meter	
17) Stack Area	0.08762 m ²	
18) Gas Volume	1316.585Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

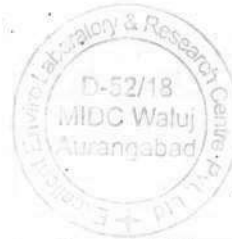
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	CS ₂	mg/Nm ³	<0.01	--	IS 11255 (Part-4)
2	Organic Concentrations	mg/Nm ³	2.6	<100	GC

UOM - Unit of Measurement.

Remark- Organic Concentrations result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 & 9970429991/ 7745069991

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MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building-No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 & 08652671991

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-10/07/2024-25
Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 10 Emergency Chlorine Blower	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	02:30 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	17.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	304 K	
14) Differential Pressure	1.1mmWC	
15) Velocity	3.47 m/sec	
16) Diameter of Stack	0.85 meter	
17) Stack Area	0.5675 m ²	
18) Gas Volume	6949.291Nm ³ /hr	
19) Fuel Used	---	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

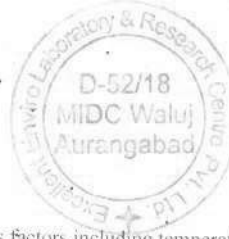
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Chlorine (Cl ₂)	mg/Nm ³	0.5	<5.0	IS 5182 (Part - 19)

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136 ☎ 0240-6641879 ☎ 9970429991/ 7745069991

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-11/07/2024-25	Date of Reporting 09/07/2024
---	---------------------------------------	---------------------------------

SAMPLING DETAILS

01) Location of Sampling	S - II Ammonia Scrubber (C - 1203)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	03:05 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	20.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	310 K	
14) Differential Pressure	1.3mmWC	
15) Velocity	3.91 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.019635 m ²	
18) Gas Volume	258.889Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

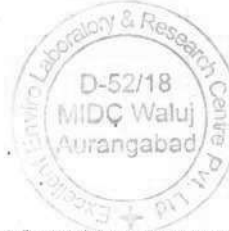
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Ammonia (NH ₃)	mg/Nm ³	15.4	<50.0	IS 11255 (Part - 6)

UOM - Unit of Measurement.

Remark- Ammonia (NH₃) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-12/07/2024-25
Date of Reporting 09/07/2024	

SAMPLING DETAILS

01) Location of Sampling	S - 12 Bag Filter Blower (BLW - 601)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	03:40 PM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	301 K	
14) Differential Pressure	1.1mmWC	
15) Velocity	3.45 m/sec	
16) Diameter of Stack	0.315 meter	
17) Stack Area	0.07793 m ²	
18) Gas Volume	958.244Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	36.3	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

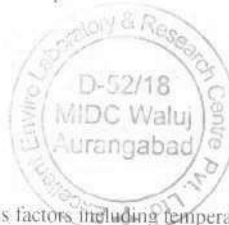
Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



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Master in "Water & Waste Water Treatment, Monitoring,
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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-13/07/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	10/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 13 Bag Filter Blower (BLW - 602)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	02/07/2024	
07) Time of Sampling & Sampling Duration	10:30 AM (30 min)	
08) Date of Received in Lab	03/07/2024	
09) Analysis Start Date	03/07/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	309 K	
14) Differential Pressure	1.8mmWC	
15) Velocity	4.48 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	763.539Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

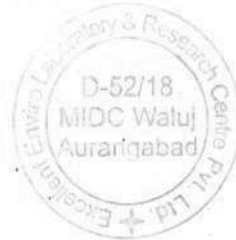
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	39.0	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-14/07/2024-25
	Date of Reporting 10/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 14 Bag Filter Blower (BLW - 603)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1x1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	02/07/2024	
07) Time of Sampling & Sampling Duration	11:05AM (30 min)	
08) Date of Received in Lab	03/07/2024	
09) Analysis Start Date	03/07/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	306 K	
14) Differential Pressure	1.3mmWC	
15) Velocity	3.79 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	652.273Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

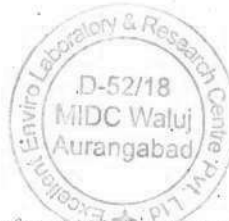
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	32.0	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
 (Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
 (Dy. Technical Manager)

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◆ Technology for sustainable development ◆

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-20/09/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	06/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 5 Ventilation Blower - Plant - 1 (BLW - 201)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×Ino.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	29/08/2024	
07) Time of Sampling & Sampling Duration	11:10 AM (30 min)	
08) Date of Received in Lab	30/08/2024	
09) Analysis Start Date	30/08/2024	
10) Material of Stack	MS	
11) Stack Height above roof	27.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	301 K	
14) Differential Pressure	1.5mmWC	
15) Velocity	4.03 m/sec	
16) Diameter of Stack	0.53 meter	
17) Stack Area	0.2206 m ²	
18) Gas Volume	3168.566Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	18.4	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

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Email : punesales@excellentenviro.com

Certification : ISO 9001:2015 & ISO 14001:2015 & ISO 45001:2018

Website : www.eelab.in / www.excellentenviro.com

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◆ Technology for sustainable development ◆

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/S-21/09/2024-25 06/09/2024
---	-------------------------------------	---

SAMPLING DETAILS

01) Location of Sampling	S - 6 Acid Scrubber (C - 502)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	29/08/2024	
07) Time of Sampling & Sampling Duration	11:45AM (30 min)	
08) Date of Received in Lab	30/08/2024	
09) Analysis Start Date	30/08/2024	
10) Material of Stack	MS	
11) Stack Height above roof	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	302 K	
14) Differential Pressure	2.0mmWC	
15) Velocity	4.67m/sec	
16) Diameter of Stack	0.45 meter	
17) Stack Area	0.15904 m ²	
18) Gas Volume	2638.366Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Acid Mist	mg/Nm ³	2.8	<20	-

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Email : punesales@excellentenviro.com

Certifications : ISO 9001 : 2015 ISO 14001 : 2015 ISO 45001 : 2018

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-04/09/2024-254
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	20/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 5 Ventilation Blower - Plant - 1 (BLW - 201)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	11:25AM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height above roof	27.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	308 K	
14) Differential Pressure	1.6mmWC	
15) Velocity	4.21 m/sec	
16) Diameter of Stack	0.53 meter	
17) Stack Area	0.2206 m ²	
18) Gas Volume	3234.861Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

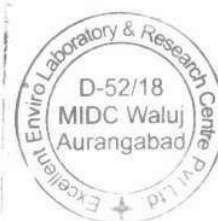
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	16.5	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-05/09/2024-254	Date of Reporting 20/09/2024
---	--	---------------------------------

SAMPLING DETAILS

01) Location of Sampling	S - 6 Acid Scrubber (C - 502)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	12:00PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height above roof	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	302 K	
14) Differential Pressure	2.0mmWC	
15) Velocity	4.67m/sec	
16) Diameter of Stack	0.45 meter	
17) Stack Area	0.15904 m ²	
18) Gas Volume	2638.366Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

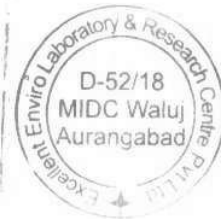
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
I	Acid Mist	mg/Nm ³	3.4	<20	-

UOM - Unit of Measurement.


Remark- Acid Mist result is within MPCB Limit.

Reviewed By


 (Mr. Prashant Patil)
 (Dy. Quality Manager)



Authorized Signatory


 (Ms. Dhammashila Narwade)
 (Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-06/09/2024-254	Date of Reporting 20/09/2024
---	--	---------------------------------

SAMPLING DETAILS

01) Location of Sampling	S - 7 Vent Sorb Blower Plant - 2 (BLW - 501)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1 no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	12:35 PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height	25.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	297 K	
14) Differential Pressure	1.8mmWC	
15) Velocity	4.39 m/sec	
16) Diameter of Stack	0.1 meter	
17) Stack Area	0.007854 m ²	
18) Gas Volume	124.542Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	20.2	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-07/09/2024-254
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	20/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 8 Vent Sorb Blower Plant - 3 (BLW - 605)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	01:10 PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height	13.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	314K	
14) Differential Pressure	1.9mmWC	
15) Velocity	4.64 m/sec	
16) Diameter of Stack	0.334 meter	
17) Stack Area	0.08762 m ²	
18) Gas Volume	1389.026Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

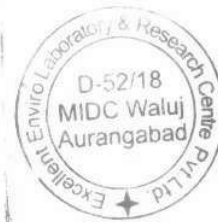
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	CS ₂	mg/Nm ³	<0.01	--	IS 11255 (Part-4)
2	Organic Concentrations	mg/Nm ³	3.9	<100	GC

UOM - Unit of Measurement.

Remark- Organic Concentrations result is within MPCB Limit.

Reviewed By


 (Mr. Prashant Patil)
 (Dy. Quality Manager)



Authorized Signatory


 (Ms. Dhamashila Narwade)
 (Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-08/09/2024-254	Date of Reporting 20/09/2024
---	--	---------------------------------

SAMPLING DETAILS

01) Location of Sampling	S - 10 Emergency Chlorine Blower	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	01:45 PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height above roof	17.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	308 K	
14) Differential Pressure	1.4mmWC	
15) Velocity	3.94 m/sec	
16) Diameter of Stack	0.85 meter	
17) Stack Area	0.5675 m ²	
18) Gas Volume	7788.075Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

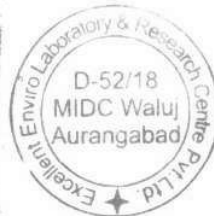
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Chlorine (Cl ₂)	mg/Nm ³	0.7	<5.0	IS 5182 (Part - 19)

UOM - Unit of Measurement.

Remark- Acid Mist result is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/S-09/09/2024-254 20/09/2024
---	---------------------------------	--

SAMPLING DETAILS

01) Location of Sampling	S - 11 Ammonia Scrubber (C - 1203)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	---	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	02:20 PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height above roof	20.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	309 K	
14) Differential Pressure	1.5mmWC	
15) Velocity	4.09 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.019635 m ²	
18) Gas Volume	278.814Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025


RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
I	Ammonia (NH ₃)	mg/Nm ³	19.6	<50.0	IS 11255 (Part - 6)

UOM - Unit of Measurement.

Remark- Ammonia (NH₃) result is within MPCB Limit.

Reviewed By


 (Mr. Prashant Patil)
 (Dy. Quality Manager)



Authorized Signatory


 (Ms. Dhamashila Narwade)
 (Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-10/09/2024-254
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	20/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 12 Bag Filter Blower (BLW - 601)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	02:55 PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	304 K	
14) Differential Pressure	1.5mmWC	
15) Velocity	4.05 m/sec	
16) Diameter of Stack	0.315 meter	
17) Stack Area	0.07793 m ²	
18) Gas Volume	1113.794Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

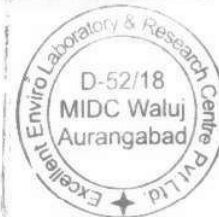
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	28.9	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

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PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991
Email : punesales@excellentenviro.com

Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".
◆ Technology for sustainable development ◆

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-11/09/2024-254
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	20/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 13 Bag Filter Blower (BLW - 602)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	03:30PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	309K	
14) Differential Pressure	2.1mmWC	
15) Velocity	4.84 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	824.895Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	41.1	<150	IS 11255(Part 1):1985

UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM)result is within MPCB Limit.

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory


(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

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◆ Technology for sustainable development ◆

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-12/09/2024-254	Date of Reporting 20/09/2024
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SAMPLING DETAILS

01) Location of Sampling	S - 14 Bag Filter Blower (BLW - 603)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1 no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	04:05PM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height	22.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	304 K	
14) Differential Pressure	1.6mmWC	
15) Velocity	4.19 m/sec	
16) Diameter of Stack	0.25 meter	
17) Stack Area	0.04909 m ²	
18) Gas Volume	725.859Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	32.3	<150	IS 11255(Part 1):1985

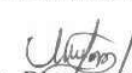
UOM - Unit of Measurement.

Remark- Total Particulate Matter (TPM) result is within MPCB Limit.

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-118/05/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	04/06/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no. SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	27/05/2024	
07) Time of Sampling & Sampling Duration	11:35AM (30 min)	
08) Date of Received in Lab	28/05/2024	
09) Analysis Start Date	28/05/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	448 K	
14) Differential Pressure	3.6mmWC	
15) Velocity	7.62 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	32242.764Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	68.0	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	39.5	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	37.9	<50	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

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Certifications : ISO 9001:2015 ☎ ISO 14001:2015 ☎ ISO 45001:2018

Website : www.eelab.in/ www.excellentenviro.com

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-22/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	26/06/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	18/06/2024	
07) Time of Sampling & Sampling Duration	12:35PM (30 min)	
08) Date of Received in Lab	19/06/2024	
09) Analysis Start Date	19/06/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	445 K	
14) Differential Pressure	3.5mmWC	
15) Velocity	7.49 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	31906.349Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	65.0	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	41.8	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	39.5	<50	IS 11255 (Part 7):2005

UOM – Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-05/07/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	09/07/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	01/07/2024	
07) Time of Sampling & Sampling Duration	11:35AM (30 min)	
08) Date of Received in Lab	02/07/2024	
09) Analysis Start Date	02/07/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	442 K	
14) Differential Pressure	3.1mmWC	
15) Velocity	7.03 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	30150.073Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/55
	Calibration Date	Calibration on:06/07/2023, Due On:06/07/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	62.6.0	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	43.5	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	34.8	<50	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/S-19/09/2024-25 06/09/2024
---	---------------------------------	---------------------------------------

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	29/08/2024	
07) Time of Sampling & Sampling Duration	10:35AM (30 min)	
08) Date of Received in Lab	30/08/2024	
09) Analysis Start Date	30/08/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	436 K	
14) Differential Pressure	2.9mmWC	
15) Velocity	6.75 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	29347.6Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	58.1	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	44.9	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	32.5	<50	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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◆ Technology for sustainable development ◆

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-03/09/2024-254
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	20/09/2024

SAMPLING DETAILS

01) Location of Sampling	S-2&S-3 Steam Boiler (B - 920 A/B)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no.SO ₂ : 30 ml ×1 no. (Plastic Bottle) NO _x : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	11/09/2024	
07) Time of Sampling & Sampling Duration	10:50AM (30 min)	
08) Date of Received in Lab	12/09/2024	
09) Analysis Start Date	12/09/2024	
10) Material of Stack	MS	
11) Stack Height above roof	40.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	431 K	
14) Differential Pressure	2.9mmWC	
15) Velocity	6.71 m/sec	
16) Diameter of Stack	1.5 meter	
17) Stack Area	1.767 m ²	
18) Gas Volume	29512.131 Nm ³ /hr	
19) Fuel Used	LSHS/Natural gas	
20) Instrument Details	Make/ Model No.	Asha Enviro&350
	Serial No.	EELRC/EQ/SK/97
	Calibration Date	Calibration on:06/07/2024, Due On:05/07/2025

RESULT

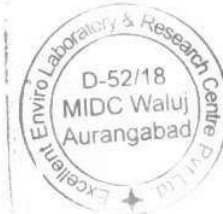
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	Total Particulate Matter (TPM)	mg/Nm ³	52.8	<150	IS 11255(Part 1):1985
2	Sulphur Dioxide (SO ₂)	Kg/day	45.5	<621	IS 11255 (Part 2):1985
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	33.7	<50	IS 11255 (Part 7):2005

UOM - Unit of Measurement

Remark- Total Particulate Matter (TPM), Nitrogen Dioxide (NO₂)&Sulphur Dioxide (SO₂) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Email : eelab@excellenenviro.com/info@excellenenviro.com/sales@excellenenviro.com

MUMBAI OFFICE : Flat No 202, OM Sai Chs, Near Garden Hotel, Swami Nityanand road, Panvel Navi Mumbai 410206. ☎ 08652671991
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Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-130/05/2024-25	Date of Reporting 05/06/2024
---	--	---------------------------------

SAMPLING DETAILS

01) Location of Sampling	S - 16 General Common Scrubber HTP - 213	
02) Sampling Procedure	IS 11255	
03) Sample Volume	--	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	28/05/2024	
07) Time of Sampling & Sampling Duration	01:10 PM (30 min)	
08) Date of Received in Lab	29/05/2024	
09) Analysis Start Date	29/05/2024	
10) Material of Stack	MS	
11) Stack Height	30.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	302 K	
14) Differential Pressure	0.98mmWC	
15) Velocity	3.27 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.0019635 m ²	
18) Gas Volume	22.81Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Ion Science & Phocheck Tiger
	Serial No.	T-110067
	Calibration Date	Calibration on: 27/09/2023, Due On: 26/09/2024

RESULT

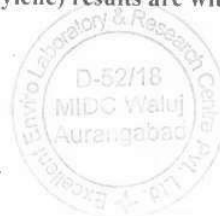
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	VOC Emission				
a.	Toulene	mg/Nm ³	12.3	<100.0	G.C. (FID) Method.
b.	Xylene	mg/Nm ³	3.7		G.C. (FID) Method.
c.	Actone	mg/Nm ³	3.1		G.C. (FID) Method.

UOM - Unit of Measurement.

Remark- VOC Emissions (Acetone, Toulene & Xylene) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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MUMBAI OFFICE : Dhawalgiri Co-op. Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

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Email : punesales@excellentedenviro.com

Certifications : ISO 9001: 2015 ☎ ISO 14001: 2015 ☎ ISO 45001: 2018

Website : www.eelab.in/ www.excellentenviro.com

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Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-33/06/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	27/06/2024

SAMPLING DETAILS

01) Location of Sampling	S - 16 General Common Scrubber HTP - 213	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	19/06/2024	
07) Time of Sampling & Sampling Duration	12:45 PM (30 min)	
08) Date of Received in Lab	20/06/2024	
09) Analysis Start Date	20/06/2024	
10) Material of Stack	MS	
11) Stack Height	30.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	298 K	
14) Differential Pressure	1.03mmWC	
15) Velocity	3.33 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.0019635 m ²	
18) Gas Volume	23.54Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Ion Science&Phocheck Tiger
	Serial No.	T-110067
	Calibration Date	Calibration on:27/09/2023, Due On:26/09/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
I	VOC Emission				
a.	Toulene	mg/Nm ³	14.8	<100.0	G.C. (FID) Method.
b.	Xylene	mg/Nm ³	3.1		G.C. (FID) Method.
c.	Actone	mg/Nm ³	2.3		G.C. (FID) Method.

UOM - Unit of Measurement.

Remark- VOC Emissions (Acetone, Toulene & Xylene) results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

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

Authorized Signatory

(Ms. Dhamprashila Narwade)
(Dy. Technical Manager)

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Email : punesales@excellentenviro.com

Certifications : ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/S-16/07/2024-25
	Date of Reporting 10/07/2024

SAMPLING DETAILS

01) Location of Sampling	S - 16 General Common Scrubber HTP - 213
02) Sampling Procedure	IS 11255
03) Sample Volume	-
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd
06) Date of Sampling	02/07/2024
07) Time of Sampling & Sampling Duration	12:15 PM (30 min)
08) Date of Received in Lab	03/07/2024
09) Analysis Start Date	03/07/2024
10) Material of Stack	MS
11) Stack Height	30.0 meters
12) Type of Stack	Round
13) Flue Gas Temperature	291 K
14) Differential Pressure	1.07mmWC
15) Velocity	3.35 m/sec
16) Diameter of Stack	0.05 meter
17) Stack Area	0.0019635 m ²
18) Gas Volume	24.249Nm ³ /hr.
19) Fuel Used	--
20) Instrument Details	Make/ Model No. Ion Science & Phoccheck Tiger
	Serial No. T-110067
	Calibration Date Calibration on:27/09/2023, Due On:26/09/2024

RESULT

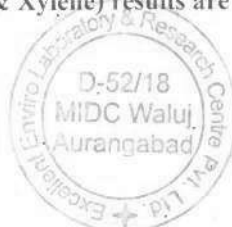
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	VOC Emission				
a.	Toulene	mg/Nm ³	16.4	<100.0	G.C. (FID) Method.
b.	Xylene	mg/Nm ³	3.3		G.C. (FID) Method.
c.	Actone	mg/Nm ³	2.1		G.C. (FID) Method.

UOM - Unit of Measurement.

Remark- VOC Emissions (Acetone, Toulene & Xylene) results are within MPCB Limit.

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

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Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : B. zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 & 7447439991

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Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".
◆ Technology for sustainable development ◆

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Sample ID.	EEL/ABD/S-30/09/2024-25
M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Date of Reporting	07/09/2024

SAMPLING DETAILS

01) Location of Sampling	S - 16 General Common Scrubber HTP - 213	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	30/08/2024	
07) Time of Sampling & Sampling Duration	12:15 PM (30 min)	
08) Date of Received in Lab	31/08/2024	
09) Analysis Start Date	31/08/2024	
10) Material of Stack	MS	
11) Stack Height	30.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	295 K	
14) Differential Pressure	1.1mmWC	
15) Velocity	3.42 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.0019635 m ²	
18) Gas Volume	24.42Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Ion Science & Phoccheck Tiger
	Serial No.	T-110067
	Calibration Date	Calibration on:27/09/2023, Due On:26/09/2024

RESULT

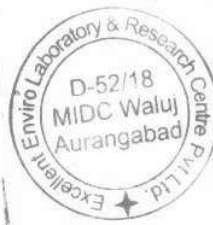
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	VOC Emission				
a.	Toulene	mg/Nm ³	19.5	<100.0	G.C. (FID) Method.
b.	Xylene	mg/Nm ³	3.9		G.C. (FID) Method.
c.	Actone	mg/Nm ³	2.4		G.C. (FID) Method.

UOM - Unit of Measurement.

Remark- VOC Emissions (Acetone, Toulene & Xylene) results are within MPCB Limit.

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory


(Ms. Dhamrashila Narwade)
(Dy. Technical Manager)

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Email : eelab@excellentsenviro.com/info@excellentsenviro.com/sales@excellentsenviro.com

MUMBAI OFFICE : Flat No 202, OM Sai Chs, Near Garden Hotel, Swami Nityanand road, Panvel Navi Mumbai 410206. ☎ 08652671991

Email : kalyani@excellentsenviro.com/ mumbaisales@excellentsenviro.com

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/S-14/09/2024-254 20/09/2024
---	---------------------------------	--

SAMPLING DETAILS

01) Location of Sampling	S - 16 General Common Scrubber HTP - 213	
02) Sampling Procedure	IS 11255	
03) Sample Volume	-	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
06) Date of Sampling	12/09/2024	
07) Time of Sampling & Sampling Duration	02:00 PM (30 min)	
08) Date of Received in Lab	13/09/2024	
09) Analysis Start Date	13/09/2024	
10) Material of Stack	MS	
11) Stack Height	30.0 meters	
12) Type of Stack	Round	
13) Flue Gas Temperature	298 K	
14) Differential Pressure	1.2mmWC	
15) Velocity	3.59 m/sec	
16) Diameter of Stack	0.05 meter	
17) Stack Area	0.0019635 m ²	
18) Gas Volume	25.376Nm ³ /hr	
19) Fuel Used	--	
20) Instrument Details	Make/ Model No.	Ion Science&Phocheck Tiger
	Serial No.	T-110067
	Calibration Date	Calibration on:27/09/2023, Due On:26/09/2024

RESULT

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	VOC Emission				
a.	Toulene	mg/Nm ³	15.5	<100.0	G.C. (FID) Method.
b.	Xylene	mg/Nm ³	3.3		G.C. (FID) Method.
c.	Actone	mg/Nm ³	2.1		G.C. (FID) Method.

UOM - Unit of Measurement.

Remark- VOC Emissions (Acetone, Toulene& Xylene)results are within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)



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Accredited by NABL vide Certificate Number TC-12362

Master in "Water & Waste Water Treatment, Monitoring, Testing & Environmental Compliance"

Format No. EELRCLABT/069-78

TEST REPORT

ULR: TC1236224000004611F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/WW-614/06/2024-25 27/06/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	19/06/2024
Date of Sample Received in Lab	20/06/2024
Analysis Start Date	20/06/2024
Analysis End Date	25/06/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.71	6.0-8.5	APHA 4500 H ⁺ (Part B)24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	128.44	≤ 250	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	28.0	≤ 100	APHA 2540 (Part D) 24 th Ed.
4	Oil & Grease(O&G)	mg/l	4.0	≤ 10.0	IS 3025 (Part 39)
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	15.90	≤ 30.0	IS 3025 (Part 44)
6	Phosphate	mg/l	1.84	≤ 5.0	APHA 4500P (Part D) 24 th Ed.

UOM - Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By

(Ms. Dhammasifila Narwade)
(Dy. Technical Manager)



Authorized Signatory

(Mr. Prashant Patil)
(Dy. Quality Manager)

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Master in "Water & Waste Water Treatment, Monitoring, Testing & Environmental Compliance".

TC-12362

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000004611F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/WW-614/06/2024-25 27/06/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	19/06/2024
Date of Sample Received in Lab	20/06/2024
Analysis Start Date	20/06/2024
Analysis End Date.	25/06/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.71	6.0-8.5	APHA 4500 H ⁺ (Part B) 24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	128.44	≤ 250	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	28.0	≤ 100	APHA 2540 (Part D) 24 th Ed.
4	Oil & Grease (O&G)	mg/l	4.0	≤ 10.0	IS 3025 (Part 39)
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	15.90	≤ 30.0	IS 3025 (Part 44)
6	Phosphate	mg/l	1.84	≤ 5.0	APHA 4500P (Part D) 24 th Ed.

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



Authorized Signatory


(Mr. Prashant Patil)
(Dy. Quality Manager)

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AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ☎ 9970429991/ 7745069991

Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991

Email : punesales@excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. EEL/ABD/WW-614/06/2024-25	Date of Reporting 27/06/2024
---	---	---------------------------------

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	19/06/2024
Date of Sample Received in Lab	20/06/2024
Analysis Start Date	20/06/2024
Analysis End Date	25/06/2024


RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	Sulphide (as S)	mg/l	0.60	≤ 2.0	APHA 4500 S ²⁻ (Part-F) 24 th Ed.
2	Phenolic Compound	mg/l	0.21	≤ 1.0	IS 3025 (Part-43)
3	Arsenic (as As)	mg/l	<0.01	≤ 0.2	IS 3025 (Part 2)
4	Mercury (as Hg)	mg/l	<0.01	≤ 0.01	IS 3025 (Part 2)
5	Cyanide (as CN)	mg/l	<0.01	≤ 0.1	IS 3025 (Part-27)

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits

Reviewed By


(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

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MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991

Email : punesales@excellentenviro.com

Certifications : ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Website : www.eelab.in / www.excellentenviro.com



TC-12362

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)

Accredited by NABL vide Certificate Number TC-12362

Master in "Water & Waste Water Treatment, Monitoring, Testing & Environmental Compliance".

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000004612F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/WW-615/06/2024-25 27/06/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	STP Outlet
Sample Volume	2 lit Plastic Can
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	19/06/2024
Date of Sample Received in Lab	20/06/2024
Analysis Start Date	20/06/2024
Analysis End Date	25/06/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.25	-	APHA 4500 H ⁺ (Part B) 24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	79.04	≤ 100	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	12.0	≤ 50	APHA 2540 (Part D) 24 th Ed.
4	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	24.40	≤ 30	IS 3025 (Part 44)

UOM - Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By


(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



Authorized Signatory


(Mr. Prashant Patil)
(Dy. Quality Manager)

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Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

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Email : punesales@excellentenviro.com



Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000005003F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/A-72/07/2024-25 09/07/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	01/07/2024
Date of Sample Received in Lab	02/07/2024
Analysis Start Date	02/07/2024
Analysis End Date	06/07/2024

RESULTS

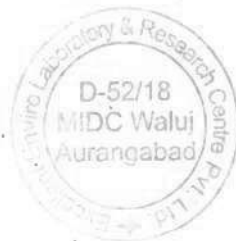
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.69	6.0-8.5	APHA 4500 H ⁺ (Part B) 24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	125.5	≤ 250	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	30.0	≤ 100	APHA 2540 (Part D) 24 th Ed.
4	Oil & Grease(O&G)	mg/l	5.0	≤ 10.0	IS 3025 (Part 39)
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	15.06	≤ 30.0	IS 3025 (Part 44)
6	Phosphate	mg/l	1.4	≤ 5.0	APHA 4500P (Part D) 24 th Ed.

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



Authorized Signatory

(Mr. Prashant Patil)
(Dy. Quality Manager)

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Excellent Enviro Laboratory & Research Center Pvt. Ltd.

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Master in "Water & Waste Water Treatment, Monitoring,
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Format No. EELRC/LAB/F/069-7.8

TEST REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/A-72/07/2024-25 09/07/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	01/07/2024
Date of Sample Received in Lab	02/07/2024
Analysis Start Date	02/07/2024
Analysis End Date	06/07/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	Sulphide (as S)	mg/l	0.69	≤ 2.0	APHA 4500 S ²⁻ (Part-F) 24 th Ed.
2	Phenolic Compound	mg/l	0.23	≤ 1.0	IS 3025 (Part-43)
3	Arsenic (as As)	mg/l	<0.01	≤ 0.2	IS 3025 (Part 2)
4	Mercury (as Hg)	mg/l	<0.01	≤ 0.01	IS 3025 (Part 2)
5	Cyanide (as CN)	mg/l	<0.01	≤ 0.1	IS 3025 (Part-27)

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits

Reviewed By

(Mr. Prashant Patil
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)



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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

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Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 | 08652671991

Email : kalyani@excellentenviro.com/ mumbaiesales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 | 7447439991



Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000005004F
EEL/ABD/A-73/07/2024-25

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting 09/07/2024
---	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	STP Outlet
Sample Volume	2 lit Plastic Can
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	01/07/2024
Date of Sample Received in Lab	02/07/2024
Analysis Start Date	02/07/2024
Analysis End Date	06/07/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.21	-	APHA 4500 H ⁺ (Part B) 24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	69.6	≤ 100	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	16.0	≤ 50	APHA 2540 (Part D) 24 th Ed.
4	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	23.2	≤ 30	IS 3025 (Part 44)

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By

(Ms. Dhanashila Narwade)
(Dy. Technical Manager)



Authorized Signatory

(Mr. Prashant Patil)
(Dy. Quality Manager)

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Accredited by NABL vide Certificate Number TC-12362

Master in "Water & Waste Water Treatment, Monitoring, Testing & Environmental Compliance".

TC-12362

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000007202F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/WW-445/09/2024-26 19/09/2024
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SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	11/09/2024
Date of Sample Received in Lab	12/09/2024
Analysis Start Date	12/09/2024
Analysis End Date	17/09/2024

RESULTS

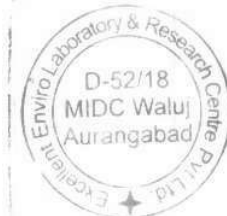
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.61	6.0-8.5	APHA 4500 H ⁺ (Part B) 24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	116.16	≤ 250	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	38.0	≤ 100	APHA 2540 (Part D) 24 th Ed.
4	Oil & Grease (O&G)	mg/l	4.0	≤ 10.0	IS 3025 (Part 39)
5	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	13.30	≤ 30.0	IS 3025 (Part 44)
6	Phosphate	mg/l	1.63	≤ 5.0	APHA 4500P (Part D) 24 th Ed.

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By

(Ms. Dhanmashila Narwade)
(Dy. Technical Manager)



Authorized Signatory

(Mr. Prashant Patil)
(Dy. Quality Manager)

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Email : eclab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Dhawalgiri Co-op, Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

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Email : mumbaisales@excellentenviro.com

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 ♦ Technology for sustainable development ♦

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. EEL/ABD/WW-445/09/2024-26	Date of Reporting 19/09/2024
---	---	---------------------------------

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	ETP Outlet
Sample Volume	2 lit Plastic Can + 1 lit Glass Bottle
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	11/09/2024
Date of Sample Received in Lab	12/09/2024
Analysis Start Date	12/09/2024
Analysis End Date	17/09/2024

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	Sulphide (as S)	mg/l	0.60	≤ 2.0	APHA 4500 S ²⁻ (Part-F) 24 th Ed.
2	Phenolic Compound	mg/l	0.31	≤ 1.0	IS 3025 (Part-43)
3	Arsenic (as As)	mg/l	<0.01	≤ 0.2	IS 3025 (Part 2)
4	Mercury (as Hg)	mg/l	<0.01	≤ 0.01	IS 3025 (Part 2)
5	Cyanide (as CN)	mg/l	<0.01	≤ 0.1	IS 3025 (Part-27)

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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Email : eelab@excellentenviro.com/info@excellentenviro.com/sales@excellentenviro.com

MUMBAI OFFICE : Flat No 202, OM Sai Chs, Near Garden Hotel, Swami Nityanand road, Panvel Navi Mumbai 410206. ☎ 08652671991

Email : kalyani@excellentenviro.com/ mumbaisales@excellentenviro.com

PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ☎ 7447439991

Email : punesales@excellentenviro.com

Website : www.eelab.in / www.excellentenviro.com



Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)

Accredited by NABL vide Certificate Number TC-12362

Master in "Water & Waste Water Treatment, Monitoring, Testing & Environmental Compliance".

TC-12362

Format No. EELRC/LAB/F/069-7.8

TEST REPORT

ULR: TC1236224000007203F

Client's Name & Address M/S. HIKAL LTD., T - 21 M. I. D. C. Area TALOJA TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/WW-446/09/2024-26 19/09/2024
---	-------------------------------------	---

SAMPLING DETAILS

Discipline	Chemical
Group	Pollution & Environment
Sample Details	STP Outlet
Sample Volume	2 lit Plastic Can
Type of Sample	Waste Water
Sampling Procedure	APHA 1060 B 24 th Edition
Sample Status	Sealed
Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd.
Date of Sampling	11/09/2024
Date of Sample Received in Lab	12/09/2024
Analysis Start Date	12/09/2024
Analysis End Date	17/09/2024

RESULTS

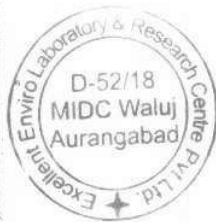
Sr. No.	Parameter	UOM	Result of Sample	MPCB Limits	Testing Method
1	pH at 25.0°C	-	7.28	-	APHA 4500 H ⁺ (Part B)24 th Ed.
2	Chemical Oxygen Demand (COD) at 150°C	mg/l	67.76	≤ 100	IS 3025 (Part-58)
3	Total Suspended Solids (TSS) at 103°C to 105°C	mg/l	14.0	≤ 50	APHA 2540 (Part D) 24 th Ed.
4	Biochemical Oxygen Demand (BOD) 3 days at 27°C	mg/l	20.30	≤ 30	IS 3025 (Part 44)

UOM – Unit of Measurement.

Remark-All above Parameters Results Are Within MPCB Limits.

Reviewed By

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)



Authorized Signatory

(Mr. Prashant Patil)
(Dy. Quality Manager)

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Page 1 of 1



Towards sustainable growth

Mumbai Waste Management Limited

Certificate

SHREE SAMARTH ENGINEERS

is a registered member of
CHW-TSDF at MIDC, Talaja
for safe & secure disposal of
Hazardous Waste.

Membership no.: MWML - HzWMHD-LOT-2373

This Certificate is valid up to

...31ST...MARCH.2025...

Onkar A. Kulkarni
Manager - MBD

Somnath Malgar
Director

Anneture V

CIN: U7100MH2010PTC147047

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring
Testing & Environmental Compliance"

Format No. EEI/RCA/AB/066-78

AMBIENT NOISE MONITORING REPORT


Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA. 410208	Sample ID. EEL/ABD/N-76/07/2024-25
Date of Reporting 16/07/2024	

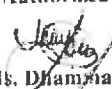
SAMPLING DETAILS	
01) Location of Sampling	Gate No. 2 (Pilot Plant)
02) Sampling Procedure	IS 4758
03) Sample Collected By	Ms. Excellent Enviro Laboratory & Research Center Pvt.Ltd.
04) Date of Sampling	08/07/2024 to 09/07/2024
05) Time of Sampling & Sampling Duration	From 11:30 AM of 08/07/2024 to 11:30 AM of 09/07/2024(24 hrs.)
06) Sampling Duration	24 hrs. Day & Night
07) Instrument Details	Serial No. EELRC/EO/SM/38
	Make KUSAM MECO
	Calibration Date Calibration On: 13/11/2023 Due On: 13/11/2024

RESULT

Sr. No.	Time	LOM	Result (Day Time)	Result (Night Time)
			≤ 75	≤ 70
1	11:30 AM	dB (A)	60.1	-
2	12:30 PM	dB (A)	61.6	-
3	13:30 PM	dB (A)	62.3	-
4	14:30 PM	dB (A)	62.7	-
5	15:30 PM	dB (A)	63.3	-
6	16:30 PM	dB (A)	63.8	-
7	17:30 PM	dB (A)	63.2	-
8	18:30 PM	dB (A)	62.9	-
9	19:30 PM	dB (A)	61.5	-
10	20:30 PM	dB (A)	64.2	-
11	21:30 PM	dB (A)	63.8	-
12	22:30 PM	dB (A)	-	56.6
13	23:30 PM	dB (A)	-	57.2
14	24:30 AM	dB (A)	-	56.4
15	01:30 AM	dB (A)	-	55.9
16	02:30 AM	dB (A)	-	57.3
17	03:30 AM	dB (A)	-	58.4
18	04:30 AM	dB (A)	-	56.8
19	05:30 AM	dB (A)	-	58.2
20	06:30 AM	dB (A)	59.7	-
21	07:30 AM	dB (A)	56.4	-
22	08:30 AM	dB (A)	57.5	-
23	09:30 AM	dB (A)	56.1	-
24	10:30 AM	dB (A)	58.4	-
	Average	dB (A)	61.09	57.10

LOM Unit of Measurement. Remark: The Noise Level is within MPCB normal Limits

Reviewed By

(Mr. Prasant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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

Review of Report
23/07/2024

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA ENVIRONMENT (PROTECTION) ACT 1986 (MOEF & GO, MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE)

REGISTERED OFFICE: D-52/18, MIDC, Waluj Chh Sambhajinagar (Aurangabad) 431 136. ☎ 0240-6641879 / 9970429991 / 7745069991

MUMBAI OFFICE: Dhawalgir Co-op. Hsg. Society Building No.1 Flar No. B-3, Near Peace Park Hotel Thana Naka Panvel 410 206 ☎ 08652671991

PUNE OFFICE: B zone 410-41, 4th floor Near Vijay Sales Pune Mumbai Road Churnwad. Pune 411019 ☎ 7447439991

Certifications: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Website: www.eelrc.com, www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/066-7.8

AMBIENT NOISE MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA. 410208	Sample ID. EEL/ABD/N-76/07/2024-25
Date of Reporting	16/07/2024

SAMPLING DETAILS

01) Location of Sampling	Gate No. 2 (Pilot Plant)	
02) Sampling Procedure	IS 4758	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt.Ltd.	
04) Date of Sampling	08/07/2024 to 09/07/2024	
05) Time of Sampling & Sampling Duration	From 11:30 AM of 08/07/2024 to 11:30 AM of 09/07/2024(24 hrs.)	
06) Sampling Duration	24 hrs. Day & Night	
07) Instrument Details	Serial No.	EELRC/EQ/SM/38
	Make	KUSAM MECO
	Calibration Date	Calibration On: 13/11/2023 Due On: 13/11/2024

RESULT

Sr. No.	Time	UOM	Result (Day Time)	Result (Night Time)
MPCB Standard Limit				
			≤ 75	≤ 70
1	11:30 AM	dB (A)	60.1	-
2	12:30 PM	dB (A)	61.6	-
3	13:30 PM	dB (A)	62.3	-
4	14:30 PM	dB (A)	62.7	-
5	15:30 PM	dB (A)	63.3	-
6	16:30 PM	dB (A)	63.8	-
7	17:30 PM	dB (A)	63.2	-
8	18:30 PM	dB (A)	62.9	-
9	19:30 PM	dB (A)	61.5	-
10	20:30 PM	dB (A)	64.2	-
11	21:30 PM	dB (A)	63.8	-
12	22:30 PM	dB (A)	-	56.6
13	23:30 PM	dB (A)	-	57.2
14	24:30 AM	dB (A)	-	56.4
15	01:30 AM	dB (A)	-	55.9
16	02:30 AM	dB (A)	-	57.3
17	03:30 AM	dB (A)	-	58.4
18	04:30 AM	dB (A)	-	56.8
19	05:30 AM	dB (A)	-	58.2
20	06:30 AM	dB (A)	59.7	-
21	07:30 AM	dB (A)	56.4	-
22	08:30 AM	dB (A)	57.5	-
23	09:30 AM	dB (A)	56.1	-
24	10:30 AM	dB (A)	58.4	-
	Average	dB (A)	61.09	57.10

UOM - Unit of Measurement. Remark: The Noise Level is within MPCB normal Limits

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

Reviewed by
Banshi
23/7/2024

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ; 9970429991 / 7745069991

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PUNE OFFICE : 'B' zone 410-41, 4th floor, Near Vijay Sales, Pune-Mumbai Road, Chinchwad, Pune- 411019 ; 7447439991

Email : punesales@excellentenviro.com

Certifications : ISO 9001: 2015 ☎ ISO 14001 : 2015 ☎ ISO 45001: 2018

Website : www.eelab.in / www.excellentenviro.com

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/066-7.8

AMBIENT NOISE MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. EEL/ABD/N-77/07/2024-25	Date of Reporting 16/07/2024
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SAMPLING DETAILS

01) Location of Sampling	Gate No. 3 (Emergency Gate)	
02) Sampling Procedure	IS 4758	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt.Ltd.	
04) Date of Sampling	08/07/2024 to 09/07/2024	
05) Time of Sampling & Sampling Duration	From 11:40 AM of 08/07/2024 to 11:40 AM of 09/07/2024(24 hrs.)	
06) Sampling Duration	24 hrs. Day & Night	
07) Instrument Details	Make	EELRC/EQ/SM/41
	Serial No.	KUSAM MECO
	Calibration Date	Calibration On: 13/11/2023 Due On: 13/11/2024

RESULT

Sr.No.	Time	Unit	Result (Day Time)		Result (Night Time)	
			MPC B Standard Limit	≤ 75	≤ 70	
1	11:40 AM	dB (A)		58.5		-
2	12:40 PM	dB (A)		59.1		-
3	13:40 PM	dB (A)		62.2		-
4	14:40 PM	dB (A)		60.4		-
5	15:40 PM	dB (A)		58.3		-
6	16:40 PM	dB (A)		57.6		-
7	17:40 PM	dB (A)		59.1		-
8	18:40 PM	dB (A)		59.5		-
9	19:40 PM	dB (A)		60.6		-
10	20:40 PM	dB (A)		61.8		-
11	21:40 PM	dB (A)		62.2		-
12	22:40 PM	dB (A)		-		58.2
13	23:40 PM	dB (A)		-		56.5
14	24:40 AM	dB (A)		-		54.7
15	01:40 AM	dB (A)		-		55.3
16	02:40 AM	dB (A)		-		55.1
17	03:40 AM	dB (A)		-		52.9
18	04:40 AM	dB (A)		-		56.7
19	05:40 AM	dB (A)		-		56.8
20	06:40 AM	dB (A)		58.2		-
21	07:40 AM	dB (A)		57.5		-
22	08:40 AM	dB (A)		57.1		-
23	09:40 AM	dB (A)		58.7		-
24	10:40 AM	dB (A)		59.2		-
	Average	dB (A)		59.37		55.77

UOM - Unit of Measurement, Remark: The Noise Level is within MPCB normal Limits

Reviewed By:

(Mr. Prashant Patil)
(Dy. Quality Manager)

Authorized Signatory

(Ms. Dharmashila Narwade)
(Dy. Technical Manager)

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Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 | 9970429991 / 7745069991

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Email : kalyani@excellentenviro.com / mumbaisales@excellentenviro.com

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Email : punesales@excellentenviro.com

Certifications : ISO 9001 : 2015 ☎ ISO 14001 : 2015 ☎ ISO 45001 : 2018

Website : www.eelab.in / www.excellentenviro.com

Reviewed by
Patil
23/07/2024

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
 Master in "Water & Waste Water Treatment, Monitoring,
 Testing & Environmental Compliance".

Format No. EELRC/LAB/F/074-7.8

WORKPLACE NOISE MONITORING REPORT

Client's Name & Address M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208	Sample ID. Date of Reporting	EEL/ABD/N-78/07/202425 16/07/2024
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SAMPLING DETAILS

01) Location of Sampling	As Listed Below in the Table	
02) Sampling Procedure	IS 4758	
03) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt. Ltd	
04) Date of Sampling	08/07/2024	
05) Sampling Time	15:00PM to 16:00 PM	
06) Instrument Details	Make/Model No.	KUSAM -MECO/KM928MK-1
	Serial No.	EELRC/EQ/NM/90
	Calibration Date	Calibration on:13/11/2023 Due On:13/11/2024

RESULTS

Sr. No.	Test Location	UOM	Average Noise Level Readings	Limit as per Maharashtra Factories Rule, 1963.
1	Phase - 1 Ground Floor Floor - 201	dB (A)	73.4	≤ 90 dB(A)
2	Phase - 2 Near Acid Scrubber Pump	dB (A)	74.9	
3	Phase - 3-G Floor Near Scrubber	dB (A)	75.5	
4	Process Compressor - K 501	dB (A)	89.1	
5	MPP Near Blower 3001 A/B	dB (A)	82.6	
6	MPP Brine Plant U-3008 A/B	dB (A)	84.4	
7	Utility Near Air Compressor 960 A	dB (A)	82.2	
8	Utility Near Air Compressor 960 E	dB (A)	88.6	
9	Utility Near Air Compressor 960 D	dB (A)	85.2	
10	Utility Near CHB 930 A	dB (A)	83.8	
11	Utility Near CHB 930 B	dB (A)	89.0	
12	Utility Near CHB 930 C	dB (A)	86.5	
13	Utility Chiller Plant 1001 A/B	dB (A)	85.8	
14	Utility Chiller Plant 1001 CHP 940	dB (A)	82.9	
15	ITP 650 Packing Room Blower	dB (A)	67.7	
16	ITP 213 Packing Room Blower	dB (A)	82.1	
17	ETP Blower Area	dB (A)	82.5	
18	Utility Near CHB 930 D	dB (A)	84.4	
19	Utility Air Compressor CHB 930 F	dB (A)	85.1	
20	Utility Chiller U-1002	dB (A)	83.7	
21	Pilot-Utility CHB 2081	dB (A)	76.6	

Remark: - Noise level is within normal limits as specified in the Maharashtra Factories Rule, 1963.

Reviewed By:

(Mr. Prashant Patil)
 (Dy. Quality Manager)

Authorized Signatory

(Ms. Dhamashila Narwade)
 (Dy. Technical Manager)

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

Reviewed by
 [Signature]
 25/07/2024



AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136 ☎ 0240-6641879 ☎ 9970429991/ 7745069991

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Email : punesales@excellentenviro.com

Certifications : ISO 9001: 2015 ISO 14001 : 2015 ISO 45001: 2018

Website : www.eelab.in/ www.excellentenviro.com

Workplace Noise Level Monitoring

Date : 17.06.2024

Time : 10:35 hrs.

Sr.No.	Area	Limit	Noise Level	Remark
1	Phase - 1 -Ground floor-Blower 201	90 db For 8:0 hours working	82	
2	Phase - 2 -Near acid scrubber pump		80	
3	Phase - 3 -G floor-Near scrubber		83	
4	Process compressor-K501		81	
5	MPP -Near blower 3001A/B		82	
6	MPP -Brine plant U3008A/B		81	
7	Utility-Near air compressor 960A		83	
8	Utility-Near air compressor 960B		82	
9	Utility-Near air compressor 960D		84	
10	Utility-Near CHB 930A		83	
11	Utility-Near CHB 930B		85	
12	Utility-Near CHB 930C		83	
13	Utility-Chiller plant 1001A/B		82	
14	Utility-Chiller plant CHP940		81	
15	Diesel generator-outside area		82	
16	HTP-650 Packing room blower		78	
17	HTP-213 Packing room blower		77	
18	ETP blower area		84	
19	Utility-Near CHB 930D		83	
20	Utility-Air Compressor CHB 930F		81	
21	Utility-Chiller U1002		83	
22	Pilot-Utility CHB2081		82	

Checked by:

verified by:

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

(Formerly known as Excellent Enviro Laboratory & Research Center)
Master in "Water & Waste Water Treatment, Monitoring,
Testing & Environmental Compliance".

Format No. EELRC/LAB/F/076-7.8

INSERTION LOSS MEASUREMENT REPORT

Client's Name & Address M/S. HIKAL LTD., T-21, M. I. D. C. Area, TALOJA, 410208	Sample ID EEL/ABD/IL -03/07/2024-25
	Date of Reporting 10/07/2024
1) Date of Measurement	01/07/2024
2) Time of Measurement	02:45 PM
3) Sample Collected By	M/s. Excellent Enviro Laboratory & Research Center Pvt.Ltd
4) Test Location	DG Set -1500 KVA (S-1)
5) Instrument Details	Serial No. KUSAM -MECO/KM928MK1
	Make EELRC/EQ/AFD/56
	Calibration Date Calibration on:06/07/2023 Due On:06/07/2024

RESULTS

Sr. No.	Sampling Location	Noise Level Measurement dB(A)		Insertion Loss dB(A)	As Per MPCB Limit
		Canopy Open	Canopy Closed		
1	East	103.3	74.2	29.1	Min. 25 dB(A)
2	West	104.1	73.9	30.2	
3	South	104.8	74.5	30.3	
4	North	105.4	74.1	31.3	
AVERAGE = 30.22 dB(A)					

Remark: Insertion Loss Level is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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

Page 1 of 1

Excellent Enviro Laboratory & Research Center Pvt. Ltd.

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 Testing & Environmental Compliance".
 ♦ Technology for sustainable development ♦

Format No. EELRC/LAB/F/076-7.8

INSERTION LOSS MEASUREMENT REPORT

Client's Name & Address		Sample ID	EEL/ABD/IL -01/09/2024-25
M/S. HIKAL LTD., T - 21, M. I. D. C. Area, TALOJA, 410208		Date of Reporting	20/09/2024
1) Date of Measurement		11/09/2024	
2) Time of Measurement		02:30 PM	
3) Sample Collected By		M/s. Excellent Enviro Laboratory & Research Center Pvt.Ltd	
4) Test Location		DG Set -1500 KVA (S-1)	
5) Instrument Details		Serial No.	KUSAM -MECO/KM928MK1
		Make	EELRC/EQ/NM/90
		Calibration Date	Calibration on:13/11/2023 Due On:13/11/2024

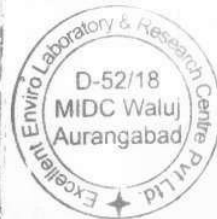
RESULTS

Sr. No.	Sampling Location 0.5 Meter Away from D.G. Set	Noise Level Measurement dB(A)		Insertion Loss dB(A)	As Per MPCB Limit
		Canopy Open	Canopy Closed		
1	East	105.6	74.1	31.5	Min. 25 dB(A)
2	West	104.3	73.5	30.8	
3	South	104.8	73.9	30.9	
4	North	103.9	74.2	29.7	
AVERAGE = 30.72 dB(A)					

Remark: Insertion Loss Level is within MPCB Limit.

Reviewed By

(Mr. Prashant Patil)
(Dy. Quality Manager)



Authorized Signatory

(Ms. Dhammashila Narwade)
(Dy. Technical Manager)

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

Page 1 of 1

AN ENVIRONMENTAL LABORATORY RECOGNISED UNDER EPA, ENVIRONMENT (PROTECTION) ACT BY (MoEF & CC) MINISTRY OF ENVIRONMENT FOREST & CLIMATE CHANGE

REGISTERED OFFICE : D-52/18, MIDC Waluj, Chh. Sambhajinagar (Aurangabad) - 431 136. ☎ 0240-6641879 ☎ 9970429991 / 7745069991
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