



By Email/Web-Portal  
April 30, 2024

To,

Ministry of Environment, Forest and Climate Change,  
Integrated Regional Office, A-Wing- 407 & 409,  
Aranya Bhawan, Near CH-3 Circle, Sector 10A,  
Gandhinagar, Gujarat – 382010;  
Email: [iro.gandhingr-mefcc@gov.in](mailto:iro.gandhingr-mefcc@gov.in), [rowz.bpl-mef@nic.in](mailto:rowz.bpl-mef@nic.in)

Sub.: Tata Chemicals Limited, Mithapur (Gujarat)- Half Yearly Compliance Status Report for  
the Environmental Clearance (F. No. J-11011/140/2016.IA-II(I) dated July 05, 2019)

Madam/Sir,

We are here with enclosing half Yearly (October 2023 to March 2024) status report for the  
above referred Environmental Clearance.

Thanking you  
Yours sincerely,

For Tata Chemicals Limited

Sanjeev Jain  
AGM-EMS

Copy to:

1. The Regional Officer, Gujarat Pollution Control Board,  
Sardar Patel Bhavan, Rameshwar Nagar, Jamnagar – 361 008  
Email: [ro-gpcb-jamn@gujarat.gov.in](mailto:ro-gpcb-jamn@gujarat.gov.in)
2. The Regional Director, Central Pollution Control Board,  
Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura  
Vadodara -390 023 Email: [ec-rdw.cpcb@gov.in](mailto:ec-rdw.cpcb@gov.in)
3. Copy of compliance Report upload on MoEFCC-Parivesh and TCL portal

Enclosed: As above

**TATA CHEMICALS LIMITED**

Mithapur 361 345 District Devbhoomi Dwarka Gujarat  
Tel + 91 (02892) 665991 / 2 / 3 / 4 Fax + 91 (02892) 223361 [www.tatachemicals.com](http://www.tatachemicals.com)  
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001  
CIN : L24239MH1939PLC002893



By Email/Web-Portal

April 30, 2024

To,

Ministry of Environment, Forest and Climate Change,  
Integrated Regional Office, A-Wing- 407 & 409,  
Aranya Bhawan, Near CH-3 Circle, Sector 10A,  
Gandhinagar, Gujarat – 382010;  
Email: [iro.gandhingr-mefcc@gov.in](mailto:iro.gandhingr-mefcc@gov.in), [rowz.bpl-mef@nic.in](mailto:rowz.bpl-mef@nic.in)

Sub.: Tata Chemicals Limited, Mithapur (Gujarat)- Half Yearly Compliance Status Report for  
the Environmental Clearance (F. No. J-11011/66/1999.IA-II(I) dated June 18, 2019)

Madam/Sir,

We are here with enclosing half Yearly (October 2023 to March 2024) status report for the  
above referred Environmental Clearance.

Thanking you  
Yours sincerely,

For Tata Chemicals Limited

Sanjeev Jain  
AGM-EMS

Copy to:

1. The Regional Officer, Gujarat Pollution Control Board,  
Sardar Patel Bhavan, Rameshwar Nagar, Jamnagar – 361 008  
Email: [ro-gpcb-jamn@gujarat.gov.in](mailto:ro-gpcb-jamn@gujarat.gov.in)
2. The Regional Director, Central Pollution Control Board,  
Parivesh Bhawan, Opp. VMC Ward Office No. 10, Subhanpura  
Vadodara -390 023 Email: [ec-rdw.cpcb@gov.in](mailto:ec-rdw.cpcb@gov.in)
4. Copy of compliance Report upload on MoEFCC-Parivesh and TCL portal

Enclosed: As above

**TATA CHEMICALS LIMITED**

Mithapur 361 345 District Devbhoomi Dwarka Gujarat  
Tel + 91 (02892) 665991 / 2 / 3 / 4 Fax + 91 (02892) 223361 [www.tatachemicals.com](http://www.tatachemicals.com)  
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001  
CIN : L24239MH1939PLC002893

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

S.No.	Compliance of terms and Conditions	Compliance Status (Oct-23 to Mar'2024)
9.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for <b>Expansion of Soda Ash Plant from 1091000 TPA to 1316000 TPA and Captive Power Plant from 85 MW to 125 MW by M/s Tata Chemicals Ltd</b> at villages Mithapur and Surajkaradi, Taluka Dwarka, District Devbhumi Dwarka (Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-	
(a)	The environmental clearance shall be subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife, as applicable.	No notified area falls in existing plant premises wherein expansion is being done; hence clearance from the standing committee of the National Board for Wildlife is not applicable. However, the treated waste water discharge system is passing through notified Marine Sanctuary for which NBWL clearance has been obtained vide letter no. WLP/32/B/1813-18/2017-18 dated 01.06.2017.
(b)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	Company has obtained Consent to Establish from Gujarat Pollution Control Board for expansion capacity vide consent no. 85533 dated 19.06.2017. Consent to Operate has been obtained from Gujarat Pollution Control Board vide consent no. AWH - 129468 dated 04.10.2023 (valid up to 11.08.2027).
(C)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Company has obtained Authorization as per Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 from Gujarat Pollution Control Board vide CCA order no. AWH - 129468 dated 04.10.2023 (valid up to 11.08.2027).
(d)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	National Emission Standards for Organic Chemicals Manufacturing Industry are not applicable; as the proposed expansion is in Soda Ash (Inorganic Industry) production capacity & Captive Co-generation thermal power plant. Company has submitted clarification letter to MoEFCC, New Delhi vide TCL letter No. A/WG/294-A/2019 dated 12.07.2019.
(e)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	To control source emissions, adequate air pollution control equipment's have been installed and for control of fugitive emissions, Bag filters have been provided at transfer points.

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

( f )	Total existing water requirement from Sea is 276000 cum/day. No additional fresh water/Sea water shall be required for proposed expansion.	Total water requirement from sea is well within 276000 M3/day. No additional fresh/sea water is required for expansion project beyond this granted capacity.
( g )	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Process Effluent/ wastewater is conveyed through closed pipelines (from filtration plant to settling ponds). Final treated waste water is mixed with spent sea water and discharged into Sea as per prescribed norms. The storm water from the premises is collected and discharged through separate spent sea water conveyance system.
( h )	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	Hazardous Chemicals are stored in tanks in designated area. Safety and Fire management system is in place.
( i )	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF	Not applicable as the manufacturing process (Inorganic) of Soda Ash does not generate organic residue and spent carbon. Effluent solids from Soda ash manufacturing process are filtered and utilised in Cement plant and construction of bunds in settling ponds and greenbelt development. Company has submitted clarification vide TCL letter No A/WG/294-A/2019 dated 12.07.2019.
( j )	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	The company is complying with the rules & guidelines under Manufacture, Storage and Import of hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals is being done as per the Motor Vehicle Act (MVA), 1989.
( k )	Fly ash should be stored separately as per CPCB guidelines so that it may not adversely affect the air quality. Direct exposure of workers to fly ash & dust should be avoided.	Fly Ash is stored in Silos and handled pneumatically; so, there is no direct exposure of workers to fly ash & dust. However, workers working in fly ash loading/handling area are provided with PPE's. Fly ash is transported in Closed Bulker/ covered vehicles for utilisation in cement plant and supply to brick manufacturers.
( l )	The company shall undertake waste minimization measures as below:-	Company has implemented integrated waste management practices for utilisation of waste in cement manufacturing. Following practices are in
( i )	Metering and control of quantities of active ingredients to minimize waste.	

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	place for waste minimisation: 1. Metering & Control of quantities 2. Reuse of undersize limestone, Effluent Solids and Fly ash 3. Automated filling system- Fly ash handling 4. Closed Feed system- Coal Charging system & Soda Ash manufacturing 5. Ammonia still process- Recovery of ammonia and recycle into same process
(iii)	Use of automated filling to minimize spillage.	
(iv)	Use of Close Feed system into batch reactors.	
(v)	Venting equipment through vapour recovery system.	
(vi)	Use of high pressure hoses for equipment clearing to reduce wastewater generation	
(m)	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Greenbelt has been developed as per Environment Management Plan (EMP) given in EIA report.

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(n)	All the commitments made to the public during public hearing/consultation shall be satisfactorily implemented.	Tata Chemicals Society for Rural Development has been working for CSR activities. TCSRDS Programmes: A. Building Economic Capital Farm Based Livelihood (Unnati): 1) Agriculture Development 2) Livestock Management 3) Centre For Sustainable Agriculture & Farm Excellence (C-SAFE) Non-Farm Based Livelihood a) Skill Training Programme (Badte Kadam) b) Cluster & Rural Enterprise Development Programme c) Okhai Centre For Empowerment B. Ensuring Environmental Integrity Natural Resource Management 1) Watershed Development and Water Management (Jal Dhan) 2) Soil and Land Improvement 3) Waste Management 4) Biodiversity Conservation Centre for Sustainable Conservation Action for the Protection of the Ecosystems of the Seas (C-SCAPES) C. Enablers for Sustainable Development 1) Education (Shiksha Maitree) 2) Health & Nutrition 3) Drinking Water & Sanitation D. Building Social Capital 1) Women Empowerment 2) Community-Based Organisations (CBOs) 3) Institution Building 4) Reducing Inequality Of Marginalised Communities Through Armative Action E. Employee Volunteering Annual Report of TCSRDS is published with details on project implementation.
(o)	At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	0.25 % of the total project cost has been allocated towards Corporate Environment Responsibility (CER) and plan with item-wise details along with time bound action plan and submitted to MoEFCC, New Delhi along with EIA/EMP report. Details of the expenditures are published in TCSRDS annual reports.

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(p)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Emission limits and the stack height are in conformity with the prescribed norms. Acoustic enclosures are provided for controlling the noise pollution. However, D.G. Sets are only for emergency start up.
(q)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Fire prevention and control System is in place as a part of Emergency Plan.
(r)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	TCL has established procedures and formats as per ISO 45001:2018 for occupational health management system (QSW-730-GEN-11). Pre-employment, periodic and exit medical examination is being conducted for employees & contractors. Employees involved in hazardous area are medically tested once in six months in compliance to Rule 68 (R) legal requirement under Gujarat Factories Rule, 1963. TCL has Full-fledged Occupational Health center having qualified medical officer and staff. Ambulance van available for round the clock basis with the dedicated driver.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system has been installed as per CPCB guidelines. The system is connected to CPCB and GPCB server.
9.1	The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-	
(i)	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.	The Company adheres to the stipulations made by GPCB.

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No further Expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	AAQ monitoring is conducted in locations selected as per CPCB guidelines (by NABL Lab) and in consultation with the GPCB. 1. Manual Ambient Air Quality Monitoring Stations. 2. Continuous Ambient Air Quality Monitoring Stations It has been ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	Ambient air quality is monitored for prescribed parameters and National Ambient Air Quality Standards.
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Ambient Noise Levels around the plant area conform to the prescribed standards. Adequate noise control measures are provided.
(vi)	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.	Company has existing rainwater harvesting facilities in township area.
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Company has established process for training on Safety & health aspects of chemicals handling and periodical medical examinations are conducted as per schedule.



**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(viii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	Company is complying with the environmental management program (EIA/EMP).
(ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	Tata Chemicals Society for Rural Development is working for CSR activities.
(x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is equipped with full-fledged laboratory facilities and conducts the Environmental Monitoring for the prescribed parameters.
(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Company has earmarked sufficient funds to implement the environment management program.
(xii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Copies of environment clearance has been submitted to Okha Nagarpalika, Taluka Development Officer and District Development Officer vide letter no A/WG/278/2019 dated 04.07.2019.
(xiii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company	Six- monthly compliance report is submitted along with results of monitored data.

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

(xiv)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.	Environment Statement (Form-V) is submitted to the GPCB and copy of the same is uploaded on Company's Web portal. Copy of the Form-V and status of compliance of environmental clearance conditions are being submitted to Regional offices of MoEF&CC by e-mail.
(xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Advertisement has been published in News Papers. Copies of the advertisements have been submitted to the Ministry.

TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: October 2023							
Sr. No	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	25.10.2023	25	44
		Boiler-2 (CEHP2)	SO2	600		146	37
		Boiler-3 (B&W)	NOx	600		159	210
2	RCC 2	Boiler-4 (IBIL)	PM	100	25.10.2023	39	64
			SO2	600		98	40
			NOx	600		73	181
3	RCC 3	Boiler -5 (HPB3)	PM	100	25.10.2023	52	44
			SO2	600		348	139
			NOx	600		224	14
3	RCC 3	Boiler -6 (HPB4)	PM	100	25.10.2023	72	13
			SO2	600		383	138
			NOx	600		272	39
5	1	HCL Furnace	HCl	20	25.10.2023	1.4	0.7
6	2	Chlorine Plant	Chlorine	9	25.10.2023	BDL	0.6
7	3	Bromine Plant	Bromine NCP 1	2	25.10.2023	0.9	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	26.10.2023	8	11
			SO2	100		7	0.2
			NOx	1000		384	620
9	5	Cement Plant Coal Mill Old	PM	30	26.10.2023	2	3
			SO2	100		BDL	0.0
			NOx	1000		BDL	26
10	6	Cement Plant Coal Mill New	PM	30	26.10.2023	1	10
			SO2	100		BDL	1.6
			NOx	1000		BDL	112
15	7	Alkali Bypass	PM	30	26.10.2023	6	9
13	8	Dryer Crusher	PM	30	26.10.2023	3	3
14	9	Cooler	PM	30	26.10.2023	1	4
11	10	Cement Mill	PM	30	-	-	4
12	11	Cement Packer-1	PM	30	26.10.2023	3	5
		Cement Packer-2	PM	30	26.10.2023	3	4
16	12	Drying unit of Monohydrate	PM	150	25.10.2023	85	-

BDL - Below Detectable Limit

NIO- Not in Operation

- Monthly Report- October 2023 Uploaded in XGN on 18/12/2023 17:43:40 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine. IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR**

**AMBIENT AIR QUALITY MONITORING REPORT (NABL Lab)**

MONTH: October 2023

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)	Cl <sub>2</sub> (µg/m3)	Ammonia (µg/m3)	HCl (µg/m3)	CO (µg/m3)
1	Sewage Treatment Plant	25.10.2023	38	18	9	13	-	-	-	-
2	Padli Substation (Nursery)	25.10.2023	49	14	8	14	-	-	-	-
4	Effluent Analyser at Final Discharge Point	26.10.2023	45	20	8	14	-	-	-	-

BDL= Below detectable limit

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bungalow	Oct-23	42	18	0.5	8.0
2	CAAQMS - Malara Green Cap	Oct-23	52	26	1.0	5.9

**TATA CHEMICALS LIMITED, MITHAPUR**

**EFFLUENT ANALYSIS REPORT  
MONTH: October 2023**

**Final Treated Waste Water**

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
27.10.2023	188	0.73	8.2	30	BDL	10	-	Pass
Online Analyser (Monthly Avg)	72	-	7.7	27	-	-	1,71,720	-

BDL= Below detectable limit

**STP FINAL OUTLET**

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
27.10.2023	7.7	7.1	26.3	220	1,213	0

TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: November 2023							
Sr.No.	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	17.10.2023	23	46
		Boiler-2 (CEHP2)	SO2	600		86	101
		Boiler-3 (B&W)	NOx	600		186	478
2	RCC 2	Boiler-4 (IBIL)	PM	100	18.10.2023	60	52
			SO2	600		116	73
			NOx	600		160	315
3	RCC 3	Boiler -5 (HPB3)	PM	100	09.11.2023	20	47
			SO2	600		11	178
			NOx	600		11	14
3	RCC 3	Boiler -6 (HPB4)	PM	100	18.10.2023	39	65
			SO2	600		166	195
			NOx	600		90	38
5	1	HCL Furnace	HCl	20	21.10.2023	2.3	0.7
6	2	Chlorine Plant	Chlorine	9	09.11.2023	0.3	0.6
7	3	Bromine Plant	Bromine NCP 1	2	09.11.2023	BDL	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	19.10.2023	4	12
			SO2	100		15	0.0
			NOx	1000		70	644
9	5	Cement Plant Coal Mill Old	PM	30	19.10.2023	4	2
			SO2	100		17	0.1
			NOx	1000		92	28
10	6	Cement Plant Coal Mill New	PM	30	20.10.2023	4	8
			SO2	100		11	0.7
			NOx	1000		90	133
15	7	Alkali Bypass	PM	30	20.10.2023	4	5
13	8	Dryer Crusher	PM	30	19.10.2023	4	6
14	9	Cooler	PM	30	20.10.2023	4	5
11	10	Cement Mill	PM	30	21.10.2023	4	3
12	11	Cement Packer-1	PM	30	22.11.2023	4	4
		Cement Packer-2	PM	30	20.10.2023	3	5
16	12	Drying unit of Monohydrate	PM	150	21.10.2023	72	-

BDL - Below Detectable Limit

NIO- Not in Operation

- Monthly Report- November 2023 Uploaded in XGN on 25/01/2024 13:55:48 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR****AMBIENT AIR QUALITY MONITORING REPORT (CAAQMS)****MONTH: November 2023**

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)
1	Sewage Treatment Plant	Nov-23	82	49	1	12
2	Padli Substation (Nursery)	Nov-23	81	52	2	10
3	Effluent Analyser at Final Discharge Point	Nov-23	58	52	1	7

BDL= Below detectable limit

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bunglow	Nov-23	83	42	0.4	8.9
2	CAAQMS - Malara Green Cap	Nov-23	87	55	1.7	8.8

**TATA CHEMICALS LIMITED, MITHAPUR**

**EFFLUENT ANALYSIS REPORT  
MONTH: November 2023**

**Final Treated Waste Water**

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
09.11.2023	44	0.56	8.09	30	BDL	10	-	Pass
Online Analyser (Monthly Avg)	53	-	7.9	25	-	-	1,85,542	-

BDL= Below detectable limit

**STP FINAL OUTLET**

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
07.11.2023	7.4	3.2	10	170	1,096	0



TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: December 2023							
Sr.No.	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	26.12.2023	44	42
		Boiler-2 (CEHP2)	SO2	600		119	84
		Boiler-3 (B&W)	NOx	600		485	450
2	RCC 2	Boiler-4 (IBIL)	PM	100	26.12.2023	38	38
			SO2	600		93	43
			NOx	600		48	74
3	RCC 3	Boiler -5 (HPB3)	PM	100	26.12.2023	49	54
			SO2	600		232	196
			NOx	600		14	16
3	RCC 3	Boiler -6 (HPB4)	PM	100	26.12.2023	65	40
			SO2	600		120	180
			NOx	600		49	37
5	1	HCL Furnace	HCl	20	26.12.2023	3.6	0.5
6	2	Chlorine Plant	Chlorine	9	26.12.2023	2.8	0.6
7	3	Bromine Plant	Bromine NCP 1	2	26.12.2023	0.9	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	27.12.2023	ND	12
			SO2	100		9	0.0
			NOx	1000		597	591
9	5	Cement Plant Coal Mill Old	PM	30	27.12.2023	ND	2
			SO2	100		ND	0.1
			NOx	1000		102	45
10	6	Cement Plant Coal Mill New	PM	30	27.12.2023	ND	9
			SO2	100		ND	1.0
			NOx	1000		334	139
15	7	Alkali Bypass	PM	30	27.12.2023	ND	5
13	8	Dryer Crusher	PM	30	27.12.2023	ND	3
14	9	Cooler	PM	30	27.12.2023	ND	4
11	10	Cement Mill	PM	30	27.12.2023	ND	1
12	11	Cement Packer-1	PM	30	27.12.2023	ND	4
		Cement Packer-2	PM	30	27.12.2023	ND	3
16	12	Drying unit of Monohydrate	PM	150	27.12.2023	16	-

ND= Not detectable as per NABL certificate

NIO- Not in Operation

- Monthly Report- December 2023 Uploaded in XGN on 24/01/2024 18:44:17 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR**

**AMBIENT AIR QUALITY MONITORING REPORT (NABL Lab)**

**MONTH: December 2023**

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)
1	Malara	25.12.2023	58	23	ND	ND
2	Effluent Analyser (Padli)	25.12.2023	64	30	ND	8
3	Director Bunglow	25.12.2023	60	26	ND	10
4	Mithamahahal	25.12.2023	72	34	ND	20

ND= Not detectable as per NABL certificate

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bunglow	Dec-23	65	34	0.6	6.2
2	CAAQMS - Malara Green Cap	Dec-23	72	35	1.3	0.7

**AMBIENT NOISE LEVEL MONITORING REPORT (NABL Lab)**

Sr. No.	LOCATION	DATE	Noise Observation	
			Day Time dB(A)	Night Time dB(A)
1	Malara	26.12.2023	55.7	53.2
2	Effluent Analyser (Padli)	26.12.2023	61.3	53.6
3	Director Bunglow	26.12.2023	54.2	51.6
4	Mithamahahal	26.12.2023	56.4	52.4

## TATA CHEMICALS LIMITED, MITHAPUR

EFFLUENT ANALYSIS REPORT  
MONTH: December 2023

## Final Treated Waste Water

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
26.12.2023	37	2.8	8.57	29.8	ND	5	-	Pass
Online Analyser (Monthly Avg)	49	-	8.3	22	-	-	1,76,190	-

BDL= Below detectable limit

## STP FINAL OUTLET

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
07.12.2023	7.3	3.0	8	158	1,097	0

TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: January 2024							
Sr.No.	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	23.01.2024	61	43
		Boiler-2 (CEHP2)	SO2	600		104	94
		Boiler-3 (B&W)	NOx	600		457	443
2	RCC 2	Boiler-4 (IBIL)	PM	100	23.01.2024	65	46
			SO2	600		71	147
			NOx	600		78	267
3	RCC 3	Boiler -5 (HPB3)	PM	100	23.01.2024	22	46
			SO2	600		396	248
			NOx	600		247	11
3	RCC 3	Boiler -6 (HPB4)	PM	100	23.01.2024	30	33
			SO2	600		384	95
			NOx	600		23	19
5	1	HCL Furnace	HCl	20	23.01.2024	4.1	0.5
6	2	Chlorine Plant	Chlorine	9	23.01.2024	3.6	1.0
7	3	Bromine Plant	Bromine NCP 1	2	23.01.2024	0.9	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	22.01.2024	16	11
			SO2	100		7	0.0
			NOx	1000		541	359
9	5	Cement Plant Coal Mill Old	PM	30	22.01.2024	ND	2
			SO2	100		ND	0.0
			NOx	1000		98	32
10	6	Cement Plant Coal Mill New	PM	30	22.01.2024	ND	8
			SO2	100		ND	1.0
			NOx	1000		306	111
15	7	Alkali Bypass	PM	30	22.01.2024	ND	4
13	8	Dryer Crusher	PM	30	22.01.2024	ND	2
14	9	Cooler	PM	30	22.01.2024	ND	3
11	10	Cement Mill	PM	30	22.01.2024	ND	1
12	11	Cement Packer-1	PM	30	22.01.2024	ND	5
		Cement Packer-2	PM	30	22.01.2024	ND	2
16	12	Drying unit of Monohydrate	PM	150	25.01.2024	39	-

ND= Not detectable as per NABL certificate

NIO- Not in Operation

- Monthly Report- January 2024 Uploaded in XGN on 21/02/2024 18:22:18 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR**

**AMBIENT AIR QUALITY MONITORING REPORT (NABL Lab)**

**MONTH: January 2024**

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)
1	Malara	22.01.2024	68	37	ND	7
2	Effluent Analyser (Padli)	22.01.2024	60	28	ND	10
3	Director Bunglow	22.01.2024	48	23	ND	12
4	Mithamahahal	22.01.2024	55	30	ND	17

ND= Not detectable as per NABL certificate

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bunglow	Jan-24	42	26	1.2	6.0
2	CAAQMS - Malara Green Cap	Jan-24	63	18	1.8	2.0

**AMBIENT NOISE LEVEL MONITORING REPORT (NABL Lab)**

Sr. No.	LOCATION	DATE	Noise Observation	
			Day Time dB(A)	Night Time dB(A)
1	Malara	26.12.2023	55.7	53.2
2	Effluent Analyser (Padli)	26.12.2023	61.3	53.6
3	Director Bunglow	26.12.2023	54.2	51.6
4	Mithamahahal	26.12.2023	56.4	52.4

**TATA CHEMICALS LIMITED, MITHAPUR**

**EFFLUENT ANALYSIS REPORT  
MONTH: January 2024**

**Final Treated Waste Water**

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
23.01.2024	76	2.4	8.12	29.6	ND	4	-	Pass
Online Analyser (Monthly Avg)	48	-	8.1	21	-	-	1,49,056	-

BDL= Below detectable limit

**STP FINAL OUTLET**

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
13.01.2024	7.6	3.1	14	100	1,010	0

TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: February 2024							
Sr.No.	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	28.02.2024	56	44
		Boiler-2 (CEHP2)	SO2	600		181	68
		Boiler-3 (B&W)	NOx	600		466	358
2	RCC 2	Boiler-4 (IBIL)	PM	100	28.02.2024	51	42
			SO2	600		101	66
			NOx	600		75	185
3	RCC 3	Boiler –5 (HPB3)	PM	100	28.02.2024	34	39
			SO2	600		203	193
			NOx	600		53	16
3	RCC 3	Boiler –6 (HPB4)	PM	100	28.02.2024	30	46
			SO2	600		430	198
			NOx	600		46	38
5	1	HCL Furnace	HCl	20	29.02.2024	3.6	0.615
6	2	Chlorine Plant	Chlorine	9	29.02.2024	4.2	0.620
7	3	Bromine Plant	Bromine NCP 1	2	29.02.2024	0.8	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	29.02.2024	15	11
			SO2	100		7	0.0
			NOx	1000		451	493
9	5	Cement Plant Coal Mill Old	PM	30	-	-	2
			SO2	100		-	0.0
			NOx	1000		-	53
10	6	Cement Plant Coal Mill New	PM	30	29.02.2024	ND	8
			SO2	100		6	0.6
			NOx	1000		315	228
15	7	Alkali Bypass	PM	30	29.02.2024	ND	5
13	8	Dryer Crusher	PM	30	-	-	2
14	9	Cooler	PM	30	12.02.2024	ND	5
11	10	Cement Mill	PM	30	06.02.2024	ND	6
12	11	Cement Packer-1	PM	30	29.02.2024	14	4
		Cement Packer-2	PM	30	29.02.2024	11	1
16	12	Drying unit of Monohydrate	PM	150	-	-	-

ND= Not detectable as per NABL certificate

NIO= Not in Operation

- Monthly Report- February 2024 Uploaded in XGN on 28/03/2024 16:05:49 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR**

**AMBIENT AIR QUALITY MONITORING REPORT (NABL Lab)**

**MONTH: February 2024**

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)
1	Malara	28.02.2024	74	27	8	9
2	Effluent Analyser (Padli)	28.02.2024	64	25	6	13
3	Director Bunglow	28.02.2024	56	19	8	16
4	Mithamahahal	28.02.2024	78	30	9	19

ND= Not detectable as per NABL certificate

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bunglow	Feb-24	39	13	2.6	5.4
2	CAAQMS - Malara Green Cap	Feb-24	59	17	2.2	10.2

**AMBIENT NOISE LEVEL MONITORING REPORT (NABL Lab)**

Sr. No.	LOCATION	DATE	Noise Observation	
			Day Time dB(A)	Night Time dB(A)
1	Malara	26.12.2023	55.7	53.2
2	Effluent Analyser (Padli)	26.12.2023	61.3	53.6
3	Director Bunglow	26.12.2023	54.2	51.6
4	Mithamahahal	26.12.2023	56.4	52.4



**TATA CHEMICALS LIMITED, MITHAPUR**

**EFFLUENT ANALYSIS REPORT  
MONTH: February 2024**

**Final Treated Waste Water**

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
29-02-2024	71	2.18	7.86	30.1	Not Detected	3	-	Pass
Online Analyser (Monthly Avg)	69	-	7.8	23	-	-	1,73,881	-

BDL= Below detectable limit

**STP FINAL OUTLET**

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
13.02.2024	7.5	3.6	12	110	897	0

- Monthly Report- February 2024 Uploaded in XGN on 28/03/2024 16:05:49 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

TATA CHEMICALS LIMITED, MITHAPUR							Online Monitoring System (Monthly Avg)
STACK EMISSIONS MONITORING REPORT							
MONTH: March 2024							
Sr.No.	Stack No.	Stack Attached To	Parameters	Permissible limits (mg/Nm <sup>3</sup> )	Date of Sampling	Results (mg/Nm <sup>3</sup> )	CEMS Result (mg/Nm <sup>3</sup> )
1	RCC-1	Boiler-1 (CEHP1)	PM	100	13.03.2024	43	43
		Boiler-2 (CEHP2)	SO2	600		374	51
		Boiler-3 (B&W)	NOx	600		505	332
2	RCC 2	Boiler-4 (IBIL)	PM	100	13.03.2024	64	43
			SO2	600		192	42
			NOx	600		135	132
3	RCC 3	Boiler -5 (HPB3)	PM	100	12.03.2024	13	41
			SO2	600		379	227
			NOx	600		21	13
3	RCC 3	Boiler -6 (HPB4)	PM	100	12.03.2024	14	44
			SO2	600		456	186
			NOx	600		54	34
4	RCC 4	Boiler -7 (HPB5)	PM	30	13.03.2024	11	7
			SO2	100		70	34
			NOx	100		50	41
5	1	HCL Furnace	HCl	20	12.03.2024	3.7	0.59
6	2	Chlorine Plant	Chlorine	9	12.03.2024	3.6	0.69
7	3	Bromine Plant	Bromine NCP 1	2	12.03.2024	0.9	-
8	4	Cement Plant Raw Mill and Kiln	PM	30	12.03.2024	ND	11
			SO2	100		13	0.3
			NOx	1000		517	637
9	5	Cement Plant Coal Mill Old	PM	30	13.03.2024	ND	2
			SO2	100		3	0.3
			NOx	1000		91	62
10	6	Cement Plant Coal Mill New	PM	30	13.03.2024	ND	9
			SO2	100		7	0.3
			NOx	1000		575	396
15	7	Alkali Bypass	PM	30	13.03.2024	ND	5
13	8	Dryer Crusher	PM	30	12.03.2024	ND	2
14	9	Cooler	PM	30	13.03.2024	ND	6
11	10	Cement Mill	PM	30	13.03.2024	ND	8
12	11	Cement Packer-1	PM	30	13.03.2024	ND	5
		Cement Packer-2	PM	30	13.03.2024	ND	1
16	12	Drying unit of Monohydrate	PM	150	16.03.2024	15	-

ND= Not detectable as per NABL certificate

NIO- Not in Operation

- Monthly Report- March 2024 Uploaded in XGN on 17/04/2024 15:54:53 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.

**TATA CHEMICALS LIMITED, MITHAPUR**

**AMBIENT AIR QUALITY MONITORING REPORT (NABL Lab)**

**MONTH: March 2024**

Sr. No.	LOCATION	DATE	PM 10 (µg/m3)	PM 2.5 (µg/m3)	Sulphur dioxide (µg/m3)	Oxides of Nitrogen (µg/m3)
1	Malara	12.03.2024	51	23	9	19
2	Effluent Analyser (Padli)	13.03.2024	77	41	7	16
3	Director Bunglow	12.03.2024	66	38	10	17
4	Mithamahahal	13.03.2024	59	27	11	23

ND= Not detectable as per NABL certificate

**CONTINUOUS AMBIENT AIR QUALITY MONITORING REPORT**

Sr. No.	Location	Date	PM10	PM2.5	SO2	NOx
1	CAAQMS - Director Bunglow	Mar-24	38	12	2.1	3.2
2	CAAQMS - Malara Green Cap	Mar-24	58	14	1.6	12.0

**AMBIENT NOISE LEVEL MONITORING REPORT (NABL Lab)**

Sr. No.	LOCATION	DATE	Noise Observation	
			Day Time dB(A)	Night Time dB(A)
1	Malara	Mar-24	54.7	49.9
2	Effluent Analyser (Padli)	Mar-24	58.2	54.1
3	Director Bunglow	Mar-24	60.4	56.5
4	Mithamahahal	Mar-24	55.1	52.3

**TATA CHEMICALS LIMITED, MITHAPUR**

**EFFLUENT ANALYSIS REPORT  
MONTH: March 2024**

**Final Treated Waste Water**

Date	Suspended Solids	Ammonical Nitrogen	pH	Temp	Oil & Grease	Color	Treated waste water Quantity	Bioassay Test
Unit	mg/l	mg/l	NIL	°C	mg/l	Pt-Co scale	M3/Day	90 % Survival of the fish after 96 hrs. in 100 % effluent
GPCB Prescribed Limit	500	5	6.5 to 9.5	Max. 40	2	100	2,40,000	
15-03-2024	62	2.31	7.87	30.5	Not Detected	4	-	Pass
Online Analyser (Monthly Avg)	43	-	8.0	25	-	-	1,82,416	-

BDL= Below detectable limit

**STP FINAL OUTLET**

Date	pH	BOD 3 days 27 °C	Suspended Solids	Fecal Coliform	Qty.of Treated STP outlet Recycled	Qty.of Treated STP outlet Disharged into Sea
Unit	-	mg/l	mg/l	MPN/ml	KLPD	KLPD
GPCB Prescribed Limit	6.5 to 9.0	30	100	1000/100	2,400	
27.03.2024	7.5	2.6	25	110	860	0

- Monthly Report- March 2024 Uploaded in XGN on 17/04/2024 15:54:53 from IP No: 172.16.31.15.

- Note: IP of machine is captured by the browser of client machine.IP is depends upon the Internet Service Provider.



**List of CSR Projects and Programs FY 2023-24 as per Schedule VII of the Companies Act 2013**

**CSR Annual Action Plan**

<b>Key Themes</b>	<b>Key Programs</b>	<b>Amount allocated (Rs. Crore)</b>
Building Economic Capital	Agriculture and Livestock Development	1.20
	Handicrafts and Cluster Development	0.50
	Skill Development	1.50
Ensuring Environmental Integrity	Natural Resources Management and Environment Conservation	3.50
Enablers for Social, Economic & Environmental Development	Health Care, Nutrition, Safe drinking water & Sanitation	1.00
	Education	2.00
Building Social Capital	Inclusive growth	1.50
Support for Infrastructure & Disaster Relief		2.50
Support for Innovation R&D and Sustainability		3.00
Others		0.80
<b>Total</b>		<b>17.50</b>

## BIODIVERSITY

### BIODIVERSITY (MITHAPUR)

PARAMETERS	UNIT	17-18	18-19	19-20	20-21	21-22	22-23	CUMULATIVE
Mangroves planted - Mithapur	Nos	20,200	60,000	28,700	60,000	65,000	0	6,60,400
Mangroves planted - Sundarbans	Nos	62,000	55,000	75,000	55,000	10,5000	2,04,000	9,82,000
Development of dry deciduous forest plot	Acres	-	-	5	10	10	7	32
Environment awareness program	Nos	-	155	155	181	146	172	-
People reached (Outreach of environment & conservation awareness program)	Nos	8,544	7,670	11,675	6,084	8,379	7,811	2,08,966
Whale shark rescued	Nos	30	20	44	34	37	44	910
Avi-fauna (bird) species recorded	Nos	84	90	83	2	10	126	126
Indigenous flora species introduced	Nos	5	5	5	5	5	5	164
Eco clubs promoted	Nos	30	40	54	56	56	30	56

## EDUCATION

### EDUCATION (MITHAPUR)

PARAMETERS	UNIT	17-18	18-19	19-20	20-21	21-22	22-23	CUMULATIVE
Schools covered (quality of education )	Nos	26	96	96	96	96	67	96
Children covered (scholarship program)	Nos	291	340	1,584	785	613	174	4521
Children covered - Science activity	Nos	-	375	-	-	2451	1899	4,725
Children covered - Competitive exam Navodaya preparation	Nos	-	-	52	50	41	126	269
Children's covered - Summer camp	Nos	-	-	141	-	43	118	302
Students covered - Career Resource Counselling	Nos	-	-	57	92	1,400	210	1,759
Total children covered	Nos	-	-	-	-	40,248	22842	63,090

## SUMMARY OF EXPENDITURE

PROJECT	EXPENDITURE DURING THE YEAR 2022-23 (IN LACS)			
	TCL/TCSR	AGENCIES	BENEFICIARIES	
Sustainable Resource Base & Biodiversity Initiatives	583.51	450.11	13.95	1047.57
Sustainable Livelihood Creation	299.31	41.82	3.45	344.58
Improving Quality of Life (Health Care)	39.45	42.25	0.22	81.92
Improving Quality of Life (Access to Education)	121.62	115.75	2.10	239.47
Affirmative Action for SC & ST	32.45	113.59	0.00	146.04
Relief Activity	9.84	0.00	0.00	9.84
Innovation R & D	73.20	0.00	0.00	73.20
Administrative (Office & Miscellaneous.)	63.15	0.22	0.00	63.37
<b>Total</b>	<b>1222.53</b>	<b>763.74</b>	<b>19.72</b>	<b>2005.99</b>



## SAFETY, HEALTH AND ENVIRONMENT POLICY TARGET ZERO HARM

Tata Chemicals aspires to be leader in the industry by conducting all its activities in a manner that is protective of the environment and in ensuring the health & safety of its employees, contractors, visitors and the community around which it operates. These include activities across all manufacturing locations, mines, offices, research laboratories and supply chain partners.

### To fulfill this commitment, we strive to:

- Achieve ZERO HARM by following world class standards of SHE management systems, Responsible care codes, Process safety management, Good asset management, enhancement strategies for the environmental improvements and prevention of pollution for sustainable development
- Enhance Safety, Health and Environment (SHE) awareness, competency and responsibility among all work levels of employees and associated stakeholders including contractor/transport personnel, valued customers through effective participation, consultation, communication and training to achieve ZERO HARM – Zero Harm to People, Zero Harm to Assets and Zero Harm to Environment
- Comply and endeavour to exceed with all applicable Safety, Health and Environmental laws, regulations and other requirements to set highest standards by adopting benchmark practices as part of continual improvement
- Integrate SHE considerations into business planning and decision making to give priority in implementation of SHE protection measures over economic considerations
- Embody principles of product stewardship by enhancing health, safety, environmental and social impacts of products and services across their lifecycles
- Proactively identify and mitigate our risks through risk assessment, process improvements, periodic SHE audits, investigation of all workplace & process safety incidents and illnesses
- Make SHE performance an important parameter that would govern key decisions around employee life cycle or continued business relations as applicable
- Increase stakeholder value through SHE excellence

This policy shall be periodically reviewed in order to ensure its alignment to the business and all applicable regulatory requirements and shall be communicated to all concerned and on request be made available to the public as well.

A handwritten signature in blue ink, appearing to read "R Mukundan".

**R Mukundan**  
Managing Director

**Date:** 12<sup>th</sup> May, 2022





TC-7099

**KADAM ENVIRONMENTAL CONSULTANTS**

An ISO 9001-2015 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.  
Phone : (O) 0265 - 6131000, 6131001**ENVIRONMENTAL MONITORING REPORT****LABORATORY TEST REPORT – NOISE**

REPORT NO.: OCT23/108/39 (ULR- TC709923000021363F)

**SAMPLE DETAILS**

1.	Name & Address of Client: M/s. TATA Chemicals Ltd. Mithapur okhamandal -361 345 Dist. Jamnagar Gujarat.		
2.	Sample ID: 2146728246 – 108OC23NO01	3.	Client Representative: Mr. Sanjeev Jain
4.	Sample Date: 17.10.2023	5.	Sample Collected By: Mr. Gaurang Rana
6.	Analysis commenced on: 17.10.2023	7.	Analysis Completed on: 17.10.2023
8.	Reporting Date: 02.11.2023	9.	Sampling Location: -
10.	Discipline: Chemical	13.	Sample Received Date: 17.10.2023
11.	Group: Atmospheric Pollution		
12.	Product: Ambient Noise Levels/ Source Noise Levels		

**TEST RESULTS**

S. No.	Location	Day		Night		Method
		Time	Reading dB(A)	Time	Reading dB(A)	
1	Sewage Treatment Plant	13.30 AM	51.4	22.10 PM	50.1	IS 9989: 1981
2	Padli Gate	13.50 AM	48.2	22.15 PM	45.9	IS 9989: 1981
3	Devpura	14.10 AM	53.4	22.20 PM	51.0	IS 9989: 1981
4	Padli Effluent Analyzer	14.35 AM	58.5	22.25 PM	56.6	IS 9989: 1981
<b>Remark: CPCB Limits in dB(A) Leq (Industrial Area) Day Time 75 dB(A)/Night Time 70 dB(A)</b>						
<b>Authorized By</b> <i>Sapana Amin</i>						
<b>Name : Sapana Amin</b>			<b>Designation : Lab Incharge</b>			

- NOTE : 1) Reports may be reproduced, if required, but only in full and only with written approval of the laboratory.  
2) Re analysis of sample will be done, if requested within 7 days from the date of Reporting of sample if the samples are not consumed during analysis.  
3) The results reported above relate to the sample identified under Sample Details.

-----END OF REPORT-----

**TEST REPORT FORMAT - NOISE**

DOC. NO.: LAB-FMT-087	Issue No.: 01	Revision No.: 03
Effective Date: 01.03.2021	Issue Date: 01-05-2015	Revision Date: 01.03.2021



**TEST CERTIFICATE FOR AMBIENT NOISE LEVEL MONITORING**

QF/7.8/63-EX

ULR:TC59452400000408F

Page: 1 of 1

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

Test Report No. : **PL/TCM/23/0017**

Issue Date : **12/01/2024**

Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**

**NOISE LEVEL MONITORING REPORT**

Sampling Date : **26/12/2023**  
Test Method : **IS 9876 / IS 9989**  
Sampling Location : **As per table**  
Sampling By : **Pollucon Laboratories Pvt. Ltd.**  
Protocol (purpose) : **Environmental Monitoring**

**RESULT TABLE**

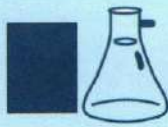
SR. NO.	NAME OF THE LOCATION	NOISE OBSERVATIONS	
		DAY TIME dB(A)	NIGHT TIME dB(A)
1	Near Malara	55.7	53.2
2	Near Mithamhal	56.4	52.4
3	Near DB	54.2	51.6
4	Near Analyser	61.3	53.6
<b>LIMIT**</b>		<b>75 dB(A)</b>	<b>70 dB(A)</b>

\*\*Limit as per the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.  
Day time shall mean from 6.00 a.m. to 10.00 p.m.  
Night time shall mean from 10.00 p.m. to 6.00 a.m.

**H. T. Shah**  
Lab. Manager

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.



**TEST CERTIFICATE FOR AMBIENT NOISE LEVEL MONITORING**

QF/7.8/63-EX

ULR:TC59452400003758F

Page: 1 of 1

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

Test Report No. : **PL/TCM/24/0081**

Issue Date : **27/03/2024**

Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**

**NOISE LEVEL MONITORING REPORT**

Sampling Date : **13/03/2024**  
Test Method : **IS 9876 / IS 9989**  
Sampling Location : **As per table**  
Sampling By : **Pollucon Laboratories Pvt. Ltd.**  
Protocol (purpose) : **Environmental Monitoring**

**RESULT TABLE**

SR. NO.	NAME OF THE LOCATION	NOISE OBSERVATIONS	
		DAY TIME dB(A)	NIGHT TIME dB(A)
1	Near Malara	54.7	49.9
2	Near Mithamhal	55.1	52.3
3	Near DB	60.4	56.5
4	Near Analyser	58.2	54.1
<b>LIMIT**</b>		<b>75 dB(A)</b>	<b>70 dB(A)</b>

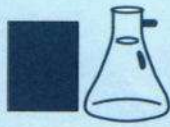
\*\*Limit as per the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.  
Day time shall mean from 6.00 a.m. to 10.00 p.m.  
Night time shall mean from 10.00 p.m. to 6.00 a.m.

**H. T. Shah  
Lab. Manager**

**Dr. Arun Bajpai  
Lab Manager (Q)**

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

TC-5945  
QF/7.8/63-WT

**ULR:TC59452400000428F**

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOO MI DWARKA,  
GUJARAT, INDIA.**

Test Report No.: **PL/TCM/23/0035**

Issue Date : **12/01/2024**

Customer's Ref.: **PO No -2110003079  
DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/35</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Bhimrana#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	7.70	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.08	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	4403	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	1274	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	7.0	IS 3025 (Part 17)
8	Total Hardness	mg/L	1020	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	224	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	86.4	IS 3025 (Part 46)

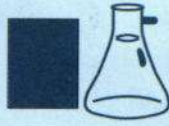
*Continue....*

**H. T. Shah**  
Lab. Manager

**Dr. Arun Baijasi**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



TC-0945

**TEST REPORT**

QF/7.8/63-WT

**ULR:TC594524000000428F**

Customer's Name and Address :

Page: 2 of 2

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

Test Report No. : **PL/TCM/23/0035**  
Issue Date : **12/01/2024**  
Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	296	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	549	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	0.162	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	84.07	IS 3025 (Part 24)
16	Sodium as Na	mg/L	11.61	SOP/INS/W/015
17	Potassium as K	mg/L	2.45	SOP/INS/W/015
18	Iron as Fe	mg/L	0.125	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

Minimum Detection Limit as per NABL certificate No TC 5945 for: Copper as Cu:0.02 mg/L, Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>3+</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L.

**H. T. Shah**  
Lab. Manager

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

QF/7.8/63-WT

ULR:TC59452400000427F

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOO MI DWARKA,  
GUJARAT, INDIA.**

Test Report No.: **PL/TCM/23/0034**

Issue Date : **12/01/2024**

Customer's Ref.: **PO No -2110003079  
DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/34</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Lalpur#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	7.73	IS 3025 (Part 11)
2	Colour	Hazen	2.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.07	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	538	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	282	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	18	IS 3025 (Part 17)
8	Total Hardness	mg/L	102	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	27.2	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	8.16	IS 3025 (Part 46)

*Continue....*

**H. T. Shah**  
Lab. Manager

**Dr. Arun Rajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat

## TEST REPORT

TC-5945

QF/7.8/63-WT

ULR:TC594524000000427F

Customer's Name and Address :

Page: 2 of 2

**TATA CHEMICALS LIMITED**  
**MITHAPUR - 361 345,**  
**DISTRICT : DEVBHOOMI DWARKA,**  
**GUJARAT, INDIA.**


Test Report No. : **PL/TCM/23/0034**  
 Issue Date : **12/01/2024**  
 Customer's Ref. : **PO No -2110003079**  
**DATED 09.12.2023**


### RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	120	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	65.97	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	Not Detected	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	11.87	IS 3025 (Part 24)
16	Sodium as Na	mg/L	34.6	SOP/INS/W/015
17	Potassium as K	mg/L	8.67	SOP/INS/W/015
18	Iron as Fe	mg/L	0.204	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

Minimum Detection Limit as per NABL certificate No TC 5945 for: Copper as Cu:0.02 mg/L, Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>+3</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L, Fluoride as Fe:0.05 mg/L.

  
**H. T. Shah**  
 Lab. Manager

  
**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● Recognition under E.P. Act 1986 MoEF/CPCB
● GPCB Approved Schedule II Auditor
● ISO 14001
● ISO 45001
● ISO 9001
● Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

TC-6948  
QF/7.8/63-WT

**ULR:TC59452400000426F**

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOO MI DWARKA,  
GUJARAT, INDIA.**

Test Report No.: **PL/TCM/23/0033**  
Issue Date : **12/01/2024**  
Customer's Ref.: **PO No -2110003079  
DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/33</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Hamusar#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	8.34	IS 3025 (Part 11)
2	Colour	Hazen	2.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.06	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	625	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	372	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part 17)
8	Total Hardness	mg/L	170	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	38	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	18	IS 3025 (Part 46)

*Continue....*

**H. T. Shah  
Lab. Manager**

**Dr. Arun Bajpai  
Lab Manager (Q)**

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat





**TEST REPORT**

TC-5946  
QF/7.8/63-WT

ULR:TC59452400000426F

Customer's Name and Address :

Page: 2 of 2

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOO MI DWARKA,  
GUJARAT, INDIA.**

Test Report No. : **PL/TCM/23/0033**  
Issue Date : **12/01/2024**  
Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	238	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	36.48	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	Not Detected	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	6.83	IS 3025 (Part 24)
16	Sodium as Na	mg/L	38.3	SOP/INS/W/015
17	Potassium as K	mg/L	9.84	SOP/INS/W/015
18	Iron as Fe	mg/L	0.169	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

Minimum Detection Limit as per NABL certificate No TC 5945 for: Total Suspended Solids:2.0 mg/L, Copper as Cu:0.02 mg/L, Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>+3</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L, Fluoride as Fe:0.05 mg/L, Ammonical Nitrogen:0.2 mg/L.

**H. T. Shah**  
Lab. Manager

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat

**TEST REPORT**

 TC-5945  
 QF/7.8/63-WT

**ULR:TC59452400000425F**

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
 MITHAPUR - 361 345,  
 DISTRICT : DEVBHOO MI DWARKA,  
 GUJARAT, INDIA.**

 Test Report No.: **PL/TCM/23/0032**


 Issue Date : **12/01/2024**

 Customer's Ref.: **PO No -2110003079  
 DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/32</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Devpara#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	8.08	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.08	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	3239	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	1608	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	8.0	IS 3025 (Part 17)
8	Total Hardness	mg/L	360	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	88	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	33.6	IS 3025 (Part 46)

*Continue....*

**H. T. Shah  
 Lab. Manager**

**Dr. Arun Bajpai  
 Lab Manager (Q)**

Note: This report is subject to terms &amp; conditions mentioned overleaf.

● Recognition under E.P. Act 1986 MoEF/CPCB    ● GPCB Approved Schedule II Auditor    ● ISO 14001    ● ISO 45001    ● ISO 9001    ● Food & Drug Control Administration [FDA]-Gujarat

**TEST REPORT**

Customer's Name and Address :

Page: 2 of 2

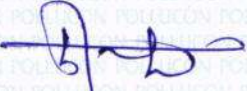
**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

 Test Report No. : **PL/TCM/23/0032**  
 Issue Date : **12/01/2024**  
 Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**
**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	264	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	651	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	0.808	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	142	IS 3025 (Part 24)
16	Sodium as Na	mg/L	322	SOP/INS/W/015
17	Potassium as K	mg/L	11.4	SOP/INS/W/015
18	Iron as Fe	mg/L	0.088	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

 Minimum Detection Limit as per NABL certificate No TC 5945 for: Copper as Cu:0.02 mg/L, Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>+3</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L, Ammonical Nitrogen:0.2 mg/L.


**H. T. Shah**  
 Lab. Manager


**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

● Recognition under E.P. Act 1986 MoEF/CPCB    ● GPCB Approved Schedule II Auditor    ● ISO 14001    ● ISO 45001    ● ISO 9001    ● Food & Drug Control Administration [FDA]-Gujarat



TC-8945

QF/7.8/63-WT

**TEST REPORT**

ULR:TC59452400000424F

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOMI DWARKA,  
GUJARAT, INDIA.**

Test Report No.: **PL/TCM/23/0031**

Issue Date : **12/01/2024**

Customer's Ref.: **PO No -2110003079  
DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/31</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Padli#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	7.45	IS 3025 (Part 11)
2	Colour	Hazen	2.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.06	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	1126	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	562	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	27	IS 3025 (Part 17)
8	Total Hardness	mg/L	188	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	52	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	13.92	IS 3025 (Part 46)

*Continue....*

**H. T. Shah  
Lab. Manager**

**Dr. Arun Bajpai  
Lab Manager (Q)**

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

TC-8945

QF/7.8/63-WT

ULR:TC59452400000424F

Customer's Name and Address :

Page: 2 of 2

**TATA CHEMICALS LIMITED**  
**MITHAPUR - 361 345,**  
**DISTRICT : DEVBHOOMI DWARKA,**  
**GUJARAT, INDIA.**

Test Report No. : **PL/TCM/23/0031**  
Issue Date : **12/01/2024**  
Customer's Ref. : **PO No -2110003079**  
**DATED 09.12.2023**

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	128	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	196	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	Not Detected	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	25.03	IS 3025 (Part 24)
16	Sodium as Na	mg/L	90.62	SOP/INS/W/015
17	Potassium as K	mg/L	12.2	SOP/INS/W/015
18	Iron as Fe	mg/L	0.176	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

Minimum Detection Limit as per NABL certificate No TC 5945 for: Copper as Cu:0.02 mg/L,Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>+3</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L, Ammonical Nitrogen:0.2 mg/L, Fluoride as Fe:0.05 mg/L.

**H. T. Shah**  
Lab. Manager

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

TC-8945  
QF/7.8/63-WT

ULR:TC59452400000423F

Page: 1 of 2

Customer's Name and Address :

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

Test Report No.: **PL/TCM/23/0030**

Issue Date : **12/01/2024**

Customer's Ref.: **PO No -2110003079  
DATED 09.12.2023**

Description of Sample : <b>Ground Water</b>	Quantity/No. of Samples : <b>05 Lit/One</b>
Date of Sampling : <b>27/12/2023</b>	Sampling Procedure : <b>As per table</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Protocol (purpose) : <b>QC</b>
Sample Receipt Date : <b>29/12/2023</b>	Lab ID : <b>TCM/2312/30</b>
Packing/ Seal : <b>Sealed</b>	Test Parameters : <b>As per table</b>
Date of Starting of Test : <b>29/12/2023</b>	Date of Completion of Test : <b>08/01/2024</b>
Identification of Sample : <b>Aarambhada#</b>	

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
1	pH	--	7.57	IS 3025 (Part 11)
2	Colour	Hazen	3.0	IS 3025 (Part 4)
3	Turbidity	NTU	0.07	APHA (23 <sup>rd</sup> Edition) 2130 B
4	Odour	--	Agreeable	IS 3025 (Part 5)
5	Conductivity	µmhos/cm	1485	IS 3025 (Part 14)
6	Total Dissolved Solids	mg/L	806	IS 3025 (Part 16)
7	Total Suspended Solids	mg/L	Not Detected	IS 3025 (Part 17)
8	Total Hardness	mg/L	380	IS 3025 (Part 21)
9	Calcium as Ca	mg/L	116	IS 3025 (Part 40)
10	Magnesium as Mg	mg/L	21.12	IS 3025 (Part 46)

*Continue....*

**H. T. Shah**  
Lab. Manager

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat



**TEST REPORT**

TC-5945  
QF/7.8/63-WT

**ULR:TC594524000000423F**

Customer's Name and Address :

Page: 2 of 2

**TATA CHEMICALS LIMITED  
MITHAPUR - 361 345,  
DISTRICT : DEVBHOOMI DWARKA,  
GUJARAT, INDIA.**

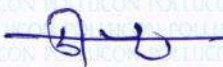
Test Report No. : **PL/TCM/23/0030**  
Issue Date : **12/01/2024**  
Customer's Ref. : **PO No -2110003079  
DATED 09.12.2023**

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULT	TEST METHOD
11	Alkalinity	mg/L	246	IS 3025 (Part 23)
12	Ammonical Nitrogen	mg/L	Not Detected	IS 3025 (Part 34)
13	Chloride as Cl	mg/L	200	IS 3025 (Part 32)
14	Fluoride as Fe	mg/L	0.338	APHA(23 <sup>rd</sup> Edition) 4500F D
15	Sulphate as SO <sub>4</sub>	mg/L	80.72	IS 3025 (Part 24)
16	Sodium as Na	mg/L	127	SOP/INS/W/015
17	Potassium as K	mg/L	10.2	SOP/INS/W/015
18	Iron as Fe	mg/L	0.179	SOP/INS/W/015
19	Copper as Cu	mg/L	Not Detected	SOP/INS/W/015
20	Manganese as Mn	mg/L	Not Detected	SOP/INS/W/015
21	Mercury as Hg	mg/L	Not Detected	SOP/INS/W/016
22	Cadmium as Cd	mg/L	Not Detected	SOP/INS/W/015
23	Arsenic as As	mg/L	Not Detected	SOP/INS/W/017
24	Lead as Pb	mg/L	Not Detected	SOP/INS/W/015
25	Chromium as Cr <sup>+3</sup>	mg/L	Not Detected	SOP/INS/W/015
26	Nickel as Ni	mg/L	Not Detected	SOP/INS/W/015
27	Vanadium as V	mg/L	Not Detected	SOP/INS/W/015
28	Zinc as Zn	mg/L	Not Detected	SOP/INS/W/015

#Detail given by Customer.

Minimum Detection Limit as per NABL certificate No TC 5945 for: Total Suspended Solids:2.0 mg/L, Copper as Cu:0.02 mg/L, Manganese as Mn:0.05 mg/L, Mercury as Hg:0.0005 mg/L, Cadmium as Cd:0.002 mg/L, Arsenic as As:0.005 mg/L, Lead as Pb:0.005 mg/L, Chromium as Cr<sup>+3</sup>:0.025 mg/L, Nickel as Ni:0.01 mg/L, Vanadium as V:0.25 mg/L, Zinc as Zn:0.05 mg/L, Ammonical Nitrogen:0.2 mg/L.

  
**H. T. Shah**  
Lab. Manager

  
**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

- Recognition under E.P. Act 1986 MoEF/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration [FDA]-Gujarat