

Ref. No: TSSEZL/ ENV/MoEF/1434/2025

Dated: 07th May' 2025

To,
Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ), A/3, Chandrasekharpur,
Bhubaneswar-751023
e-mail: roez.bsr-mef@nic.in

Sub: Submission of Half yearly compliance status report of Environment Clearance conditions for the period of October' 2024 – March' 2025 for Development of Multi Product SEZ/Industrial Park by M/s. Tata Steel Special Economic Zone at Gopalpur, Ganjam, Odisha.

Ref: Environmental clearance vide MOEF letter No: F- No. 21-136/2015-IA-III dated 20th September' 2018 and letter no F- No. 21-136/2015-IA-III dated 28th December'2018.

Dear Sir,

With reference to the subject referred above, we are hereby submitting the half yearly Environmental & CRZ Clearance compliance status report for development of multi product SEZ/Industrial Park by Tata Steel Special Economic Zone in soft format through e-mail (roez.bsr-mef@nic.in) for your kind perusal.

We look forward for your further guidance which shall certainly help us in our endeavor for further improving upon our environmental management practices.

Thanking You,

Yours faithfully,

For Tata Steel Special Economic Zone Limited



Matrudatta Barik

Sr. Manager - (Water Management & Safety, Health & Environment)

Enclosure: As above.

Copy for kind information to:

- The Member Secretary, Central Pollution Control Board, Southern Enclave, Block- 502, 5th & 6th Floor, 1582, Rajdanga Main Road, Kolkata-700101, West Bengal.
- The Member Secretary, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar – 751012.
- The Regional Officer, State Pollution Control Board, Berhampur, Ganjam, Odisha.

TATA STEEL SPECIAL ECONOMIC ZONE LTD

Half-Yearly Compliance Report

On Environmental Clearance Conditions

**((MoEF Letter Ref No: -21-136/2015-IA-III, dated 20th
September'2018 & F- No. 21-136/2015-IA-III dated 28th
December'2018)**

Period: October'2024 – March '2025

**Submitted By:
Tata Steel Special Economic Zone Ltd
M/s. Tata Steel Limited
2 B, Fortune Tower, 2nd Floor,
Chandrasekharapur
Bhubaneswar -751023
(Odisha)**

List of Annexures

Sl. No	Title of the Annexure	Annexure No.
1	Environment Monitoring Results of last Six months (October' 2024– March' 2025)	I
2	CSR Activities & expenditure details.	II



Compliance to the Environmental & CRZ Clearance Letter No: -21-136/2015-IA-III dated 20.09.2018 in respect of Development of Multi-product SEZ/Industrial Park at Gopalpur, Ganjam, Odisha by M/s Tata Steel Special Economic Zone Limited.

PART A-SPECIFIC CONDITIONS:

I. Construction Phase

Sl	Specific Condition	Compliance Status (October '2024 – March'2025)
(i)	The project proponent shall ensure that the project is in consonance with the new Coastal Zone Management Plan prepared by the State Government under the provisions of CRZ Notification, 2011.	The project has been approved based on the new coastal zone management plan. All the applicable provisions of CRZ notification, 2011 shall be complied.
(ii)	All the recommendations of Odisha Coastal Zone Management Authority (OCZMA) vide letter no. 71/OCZMA dated 31.08.2017 shall be complied in letter and spirit.	Compliance shall be secured by the project proponent for all the recommendations of Odisha Coastal Zone Management Authority (OCZMA) as prescribed.
(iii)	Screens and trash bars shall be provided to avoid entry of fishes and fish larvae into the system.	The construction of the Desalination Plant is yet to commence. Once the plant is constructed, this provision shall be complied.
(iv)	There shall be no disturbance to the sand dunes.	Project will not make disturbance to the sand dunes.
(v)	No construction works other than those permitted in CRZ Notification shall be carried out in CRZ area.	Noted, Compliance shall be ensured.
(vi)	Though the sumps and pump house are located beyond CRZ area, in view of its proximity to sea necessary prior permission shall be obtained for construction of sumps from the competent authority. Copy of permission shall be submitted to the concerned Regional Office of the Ministry prior to the commencement of work.	As on date, the sumps and pump house are not located beyond CRZ area. In future, necessary compliances shall be ensured.
(vii)	No use of ground water for proposed multi-product SEZ/industrial park	.Noted
(viii)	2% of the project cost shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent.	TSSEZL will spend 2% of the project cost for marine and coastal biodiversity protection and conservation measures once the Desalination Plant and Common Effluent Treatment Plant is constructed and made operational.
(ix)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act,	Complied. CTE has been obtained from OSPCB for Phase I developmental activity on dated: 29.03.2019 and

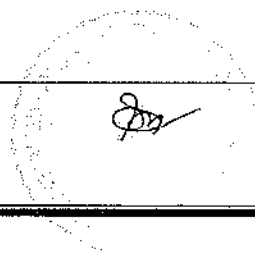
Sl	Specific Condition	Compliance Status (October '2024 – March'2025)
	1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Amended CTE no 7837/IND-II-CTE-7237 ON 28.05.2024.
(x)	The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards for all discharges from the Industrial Area into the sea.	At present, there is no discharge from the Industrial Park to the outside area or the sea. All wastewater discharge; when generated, shall be as per wastewater discharge standards of OSPCB. It will be monitored periodically, and the results will be reported to CPCB/OSPCB as per stipulated in the condition of EC.
(xi)	All the provisions of the CRZ Notification, 2011 shall be strictly complied with, and in case of any change in scope of work, necessary recommendations from the OCZMA shall be obtained for further consideration by the concerned regulatory authority.	At present, there is no change in the scope of the work of the project. All provision of the CRZ Notification, 2011 will be strictly complied with & in case of any change in the scope in future, necessary recommendations from OCZMA shall be obtained.
(xii)	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.	Complied.
(xiii)	Air pollution and the solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.	Complied.
(xiv)	This environmental clearance is only for the said Industrial Area. Any other activity within the Industrial Area would require separate environmental clearance, as applicable under EIA Notification, 2006 as amended from time to time. For all the individual units, environmental clearances, as applicable, shall be obtained from the respective regulatory authorities.	Noted. Separate EC will be obtained by the individual industries as per requirements.
(xv)	To achieve the Zero Liquid Discharge, wastewater generated from different industrial operations shall be properly collected, treated to the prescribed standards,	Yes, the existing companies in the site are operating on a Zero Liquid Discharge (ZLD) Concept. Hence, recycling of waste has not been taken up by the TSSEZL as of now. However, TSSEZL has plans to set



Sl	Specific Condition	Compliance Status (October '2024 – March'2025)
	and then recycled or reused for the identified uses	up common facilities for waste treatment, recycle and disposal.
(xvi)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the concerned Regional Office of the Ministry along with six monthly monitoring reports.	Noted, At present we are in the process of developing a rainwater harvesting system. We will be recording and informing the concerned Regional Office of the Ministry along with six monthly monitoring reports, after completion of the project
(xvii)	Special purpose vehicle shall be established for implementation, monitoring and compliance of the environmental safeguards	Tata Steel Special Economic Zone itself is the Special Purpose vehicle for implementation, monitoring and compliance of the safeguards. Environmental review and monitoring are being performed by the EMC on regular basis.
(xviii)	Solid wastes shall be collected, treated disposed in accordance with the Solid Waste Management Rules, 2016. No municipal waste shall be disposed off outside the premises.	Complied .
(xix)	All the recommendation of the EMP shall be complied with in letter and spirit.	Complied.
(xx)	The member units shall provide storage tanks for storage of effluent for monitoring the characteristics of effluent before taking into the CETP for further treatment.	Noted, it shall be ensured.
(xxi)	Proper meters with recording facilities shall be provided to monitor the effluent quality and quantity sent from member industries to CETP and from CETP to the final disposal/re-use on a continuous basis.	Noted, it shall be ensured.
(xxii)	Member industries shall treat the effluent to meet the prescribed CETP inlet norms.	Noted, it shall be ensured.
(xxiii)	The project proponent shall establish an environmental monitoring cell with all the potential polluting units as members to review the environmental monitoring data and suggest for improvements.	Complied.
(xxiv)	Internal Road widths within the industrial area shall be minimum 18 m ROW.	Complied.
(xxv)	Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms	Complied.
(xxvi)	Any hazardous waste generated during development/ construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State.	Complied.
(xxvii)	The D.G. sets to be used during development/construction phase shall be low	No DG sets are being used at present for construction activities.



SI	Specific Condition	Compliance Status (October '2024 – March'2025)
	sulphur diesel type and shall conform to Environment (Protection) Rules prescribed for air and noise emission standards.	
(xxviii)	Vehicles hired to bring construction material to the site shall be in good condition and should have a pollution check certificate and shall conform to applicable air and noise emission standards and shall be operated only during non-peak hours.	Complied.
(xxix)	Ambient noise levels shall conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.	Complied.
(xxx)	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003 and 25th January 2016.	Complied
(xxxi)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	One retention pond has been constructed with capacity of 6 lakh cum and two more are under construction for storage of storm water and its re-use for various applications.
(xxxii)	Water demand during development/construction shall be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Being Complied.
(xxxiii)	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.	Complied.
(xxxiv)	Fixtures for showers, toilet flushing, and drinking shall be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Complied.
(xxxv)	Regular supervision of the above and other measures for monitoring shall be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.	Complied.
(xxxvi)	The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy	Complied.

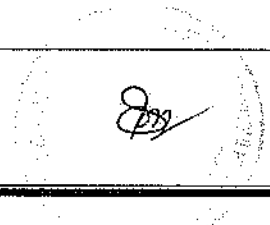


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SI	Specific Condition	Compliance Status (October '2024 – March'2025)
	of the action taken shall be submitted to the Ministry.	
(xxxvii)	Fund Allocation for corporate Environment Responsibility (CER) shall be made as per ministry's O.M No. 22-65/2017 - IA.III dtd. 1st May 2018 for various activities therein. The detailed report shall be submitted to this Ministry and its concerned regional office within 3 months.	Complied. Details report submitted.
(xxxviii)	Corporate Environment Responsibility:	Complied.
a)	The company shall have a well laid down Environment Policy approved by the Board of Directors.	Complied,
b)	The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	Complied.
c)	The hierarchical system or administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Complied.
d)	To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and or shareholders or stakeholders at large.	Complied.
	II- Operation Phase	
i	Periodic monitoring of coastal water shall be carried out at outfall location.	No outfall location has been constructed as on date. Will be complied in future once the desalination plant is constructed.
ii	No use of ground water for proposed multi - product SEZ/industrial park.	Noted.
iii	Identify and enhance skill development activities for the local community which would cater to the future needs of the of Industrial Park and increase skill levels of local people.	JNTTEC training institute is already established for skill development of local community. Skill development programs to local youth is being conducted as part of Corporate Social Responsibility (CSR).
iv	Preparation of scheme for implementation of habitat improvement and biodiversity conservation plan and implementation schedule with the help of Salim Ali Centre for Ornithology and Natural History, Coimbatore (SACON), and same to be submitted to MoEF&CC and its Regional Office within six	The suggested measures are under implementation. Biodiversity study was conducted, and report has already been submitted to MoEF&CC.



Sl	Specific Condition	Compliance Status (October '2024 – March'2025)
	months. Sufficient fund provision to be made to implement the same.	
V	The tree plantation programme should be made in supervision of experts who can guide from nursery up to the minimum 5 years maintenance period. The species composition should be made with local and fruit species and planted suitably in strip or lonely as per the land availability with drip water/irrigation facility. The natural water body and creek should be protected and undisturbed except taking conservation activities.	complied as per the approved plan of the project in the designated areas. 4000 local species trees planted in fy24-25. Complied.
Vi	Implementation of Marine Environmental Management Plan in Toto.	Compliance shall be ensured.
vii	All the topsoil excavated during development/construction activities should be stored for use in horticulture/landscape development within the project site.	Being Complied.
viii	Disposal of muck during development/construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Being Complied.
Ix	The solid waste generated shall be properly collected and segregated in accordance with the Solid Waste Management Rules, 2016. Wet garbage shall be composted, and dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	Complied.
X	The height of stack of DG sets shall be equal to the height needed for the combined capacity of all proposed DG sets. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	Compliance will be ensured upon deployment of DG sets as per stipulation.
Xi	Noise shall be controlled to ensure that it does not exceed the prescribed standards. During nighttime, the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Noted.
xii	The green belt of the adequate width and density preferably with local species along the	Complied.



Sl	Specific Condition	Compliance Status (October '2024 – March'2025)
	periphery of the plot shall be raised so as to provide protection against particulates and noise.	
xiii	Weep holes in the compound walls shall be provided to ensure natural drainage of rainwater in the catchment area during the monsoon period.	Complied.
xiv	Rainwater harvesting for roof run-off and surface run- off, as plan submitted shall be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging shall be kept at least 4 mts above the highest ground water table.	Under progress. Noted. Noted.
Xv	The ground water level and its quality shall be monitored regularly in consultation with Central Ground Water Authority.	Complied.
xvi	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading and unloading shall be fully internalized and no public space shall be utilized.	Complied.
xvii	Energy conservation measures like installation of LEDs for lighting the areas outside the building shall be integral part of the project design and shall be in place before project commissioning. Used LEDs shall be properly collected and disposed off /sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	Complied.
xviii	The buildings shall have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation.	Noted.

PART-B: GENERAL CONDITIONS

Sl.No.	Stipulated Condition	Compliance Status (October-2024 -March'2025)
i	The responsibility to comply with the EC conditions mentioned in this letter is solely of the project proponent.	Noted.

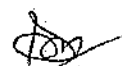


Sl.No.	Stipulated Condition	Compliance Status (October-2024 -March'2025)
ii	The environmental safeguards contained in the EIA report shall be implemented in letter and spirit.	Noted.
iii	Provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Noted.
iv	Six Monthly monitoring reports shall be submitted to the Ministry and concerned Regional Office of the Ministry.	Being Complied.
V	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	Complied.
Vi	The project proponent shall set up a separate Environmental Management Cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied.
vii	The funds earmarked for Environment Management Plan shall be included in the budget and this shall not be diverted for any other purpose.	Noted, Compliance shall be ensured.
C	OTHER CONDITIONS	
5	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment Protection Act 1986, the Public Liability (Insurance) Act 1991 and EIA Notification 2006.	Noted
6	Officials from the Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities, and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should be forwarded to the CCF, Regional Office of the Ministry.	Complied.



Sl.No.	Stipulated Condition	Compliance Status (October-2024 -March'2025)
7	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
8	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
9	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, the Forest Conservation Act, 1980 and the Wildlife (Protection) Act, 1972 etc. shall be obtained as applicable by project proponents from the respective competent authorities.	Noted, Necessary approvals from concerned authorities are being obtained as applicable.
10	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental & CRZ Clearance and copies of the clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at http://www.envfor.nic.in . The advertisement shall be made within seven days from the date of receipt of the clearance letter and a copy of the same shall be forwarded to the concerned Regional Office of this Ministry.	Complied.
11	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ petition (Civil) No. 460 of 2004 as may be applicable to this project.	Noted.
12	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.
13	A copy of the Clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban	Complied.

Sl.No.	Stipulated Condition	Compliance Status (October-2024 -March'2025)
	Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
14	The proponent shall upload the status of compliance of the stipulated EC conditions, including the results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry, the respective Zonal Offices of CPCB and the SPCB. The criteria pollutant levels namely; PM10, PM 2.5, SO2, NO2 (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied.
15	The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment Protection Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry/CPCB/SPCB by e-mail.	Noted.
16	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory. The Ministry reserves the right to stipulate additional conditions, if found necessary and project proponent in a time bound manner will implement the stipulated additional conditions.	Noted
17	This issues with the approval of the Hon'ble Minister of Environment, Forest and Climate Change, New Delhi	Noted





(Safety, Health & Environment)
Tata Steel Special Economic Zone Limited,

Date: 15th March' 2025



Ambient Air Quality Analysis Report

Location: Near TSSEZL Project Office

	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-25	64.16	33.09	8.7	12.88	0.41	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-25	68.68	37.49	9.8	13.47	0.44	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-25	61.92	31.97	9.64	13.62	0.39	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-26	63.7	35.99	10.38	14.36	0.72	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-26	65.91	36.54	12.72	17.96	0.53	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-26	69.71	38.72	13.64	18.37	0.57	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	69.71	38.72	13.64	18.4	0.72	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	63.7	31.97	8.7	12.9	0.41	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	55.1	35.6	10.8	15.1	0.5	<20	<10	<0.01	<0.6	<0.44	<5	<1

Location: Near Mines Crosher

	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-24	66.31	34.2	11.2	15.29	0.55	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-24	71	39.2	12.39	16.35	0.61	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-24	65.54	33.48	11.22	15.78	0.51	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-25	69.57	37.49	11.96	16.51	0.83	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-25	66.33	37.16	12.97	17.94	0.55	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-25	70.23	41.11	13.78	18.62	0.59	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	70.23	41.11	13.78	18.62	0.83	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	65.31	33.48	11.2	15.29	0.51	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	68.2	37.1	12.3	16.7	0.6	<20	<10	<0.01	<0.6	<0.44	<5	<1

Location: Near TSSEZL Main Gate (Chama Khandi)

	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-24	65.17	33.03	10.84	15.02	0.48	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-24	71.83	39	12.73	16.19	0.57	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-24	64.44	33.57	9.01	13.05	0.34	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-25	68.46	37.53	9.74	13.79	0.67	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-25	64.78	33.58	10.29	14.68	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-25	68.53	36.98	11.66	14.91	0.49	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	71.83	37.53	12.73	16.19	0.67	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	64.44	33.03	9.01	13.05	0.34	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	67.2	35.6	10.7	14.6	0.5	<20	<10	<0.01	<0.6	<0.44	<5	<1

**Surface Water Analysis Report**

Upstream of Khari Nalla(SW1)		MONTH						Result		
Test Parameters	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	MAX	MIN	AVG
Colour, Max.	Hazen	30	5	10	5	10	10	30	5	11.6
pH Value @ 25°C	--	7.11	8.11	7.61	7.99	7.11	7.05	8.11	7.05	7.4
Chloride as Cl, Max.	mg/l	36.9	31.2	40.9	42.9	33.9	34.9	42.9	33.9	36.7
Dissolved Solids, Max.	mg/l	191	204.6	348	360	180	220	360	180	250.6
Dissolved Oxygen, Min.	mg/l	5.8	5.9	5.9	6.1	6	5.7	6.1	5.8	5.9
BOD for 3 days@ 27 ⁰ C, Max.	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sulphate as SO ₄ , Max.	mg/l	24	7.9	12	12.8	20.8	11.4	24	7.9	14.8
Nitrate as NO ₃ , Max.	mg/l	2.2	5.1	5.2	5	1.8	6.2	6.2	2.2	4.25
Fluoride as F, Max.	mg/l	0.16	0.37	0.46	0.41	0.14	0.42	0.42	0.16	0.32
Oil & Grease, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide as CN, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper as Cu, Max.	mg/l	<0.03	<0.03	<0.05	<0.03	<0.03	<0.03	<0.05	<0.03	1
Iron as Fe, Max.	mg/l	0.15	0.05	0.19	0.02	0.23	0.24	0.24	0.2	0.14
Lead as Pb, Max.	mg/l	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc as Zn, Max.	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Arsenic as As, Max.	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium as Se, Max.	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium as Cd, Max.	mg/l	<0.003	<0.003	<0.003	ND	ND	ND	<0.03	<0.03	1
Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Coliform, Max.	MPN/100 ml	117	120	156	130	210	140	156	117	145.5



Surface Water Analysis Report

Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	MAX	MIN	AVG
Colour, Max.	Hazen	45	10	15	10	75	15	75	10	25.8
pH Value @ 25°C	--	7.41	8.17	7.41	7.88	7.72	6.97	8.17	7.27	7.64
Chloride as Cl, Max.	mg/l	45.9	33.7	49.9	46.9	45.9	40.9	49.9	33.7	35.4
Dissolved Solids, Max.	mg/l	180	218.4	407	386	180	216	407	180	264.5
Dissolved Oxygen, Min.	mg/l	5.6	5.7	5.8	6.1	5.6	6.1	6.7	5.6	4.75
BOD for 3 days@ 27 ⁰ C, Max.	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sulphate as SO ₄ , Max.	mg/l	31.8	10.6	11.2	11.1	31.8	12.4	31.8	10.6	18.15
Nitrate as NO ₃ , Max.	mg/l	2.2	7.2	4.3	3.9	2.2	6.8	7.2	2.2	4.43
Fluoride as F, Max.	mg/l	0.18	0.26	0.36	0.33	0.18	0.46	0.46	0.18	0.29
Oil & Grease, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide as CN, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper as Cu, Max.	mg/l	<0.03	<0.03	<0.005	<0.005	<0.03	<0.005	<0.005	<0.03	1
Iron as Fe, Max.	mg/l	0.36	0.26	0.26	0.24	0.36	0.28	0.36	0.24	0.49
Lead as Pb, Max.	mg/l	<0.01	<0.01	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc as Zn, Max.	mg/l	<0.05	<0.05	<0.005	<0.005	<0.05	<0.005	<0.05	<0.05	<0.05
Arsenic as As, Max.	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium as Se, Max.	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium as Cd, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Coliform, Max.	MPN/100 ml	342	197	233	200	380	220	380	197	262

	TATA STEEL SPECIAL ECONOMIC ZONE LIMITED	GOPALPUR INDUSTRIAL PARK
Noise Monitoring Report		
Location: Near TSSEZL Project Office		
Months	DAY TIME dB(A)	NIGHT TIME dB(A)
Oct-24	62.5	56
Nov-24	62.5	56
Dec-24	61.5	55
Jan-25	60.5	54
Feb-25	62.4	56.1
Mar-25	63	56.5
MAX	63	56.5
MIN	60.5	55
AVG	62.0	55.6
Near TSSEZL Main Gate Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Oct-24	66.1	59.3
Nov-24	61.7	59.5
Dec-24	65.1	58.3
Jan-25	64.1	56.3
Feb-25	66.9	59.6
Mar-25	68.4	60.1
MAX	68.4	60.1
MIN	61.7	56.3
AVG	65.3	58.9

Sum of Amount in lakhs.	Thematic Area	FY25
Thematic		Apr-24 to March 25 in lakhs
Enterprise Cost	Administrative, IT, Safety, Communications, etc.	305.68
Enterprise Cost Total		305.68
Proximate community Development	Drinking water	67.49
	Education Support through Scholarships	56.18
	Livelihood (Agri., Skill Dev., & Emp.)	625.49
	Other Educational Programmes and Infrastructure	71.2
	Primary Healthcare Services	213.91
	Renewable energy, Bio-diversity Programmes & Other Rural Infra.	197.45
Proximate community Development Total		1231.72
Total		1537.4



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Report no.-CEMC/TSSEZL/170425/GW

Issued Date-17.04.2025

GROUND WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.03.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.03.2025
Date of Analysis : 25.03.2025 to 07.04.2025
Sample Description : Ground Water
Sample Location : Borewell SEZ
Reference No. : CEMC-17042025GW

ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	Testing Method	Standard as per IS: 10500, 2012		Result
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	By Spectrophotometer APHA 2120 B,C	5	15	<5
2	Odour	--	Threshold Odour Method APHA 2150 B	AL	AL	AL
3	Taste	--	Flavour Threshold Method APHA 2160 C	AL	AL	AL
4	Turbidity	NTU	Nephelometric Method APHA 2130 B	1	5	3.6
5	pH Value @ 25°C	--	Electrode Method APHA 4500H ⁺ B	6.5-8.5	No Relaxation	6.56
6	Total Hardness (as CaCO ₃)	mg/l	Trimetric Method APHA 2340 C	200	600	120
7	Iron (as Fe)	mg/l	By Spectrophotometer APHA 3500Fe, B	0.3	No Relaxation	0.21
8	Chloride (as Cl)	mg/l	Trimetric Method APHA 4500Cl ⁻ B	250	1000	42.9
9	Residual, free Chlorine	mg/l	Iodometric Method APHA 4500Cl, B	0.2	1.0	ND
10	Total Dissolved Solids	mg/l	Gravimetric Method APHA 2540 C	500	2000	312.8
11	Calcium (as Ca)	mg/l	Trimetric Method APHA 3500Ca B	75	200	29.66
12	Magnesium (as Mg)	mg/l	By Calculation APHA 3500Mg B	30	100	11.18
13	Copper (as Cu)	mg/l	By ICP Method APHA 3120 B	0.05	1.5	<0.005
14	Manganese (as Mn)	mg/l	By ICP Method APHA 3120 B	0.1	0.3	<0.005
15	Sulphate (as SO ₄)	mg/l	By Spectrophotometer APHA 4500 SO ₄ ²⁻ E	200	400	25.3
16	Nitrate (as NO ₃)	mg/l	By UV Spectrophotometer APHA 4500NO ₃ ⁻ E	45	No Relaxation	5.6
17	Fluoride (as F)	mg/l	By Spectrophotometer APHA 4500F ⁻ C	1.0	1.5	0.25
18	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	Distillation followed by Spectrophotometer APHA 5530 B,D	0.001	0.002	<0.001

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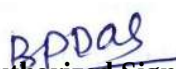
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Report no.-CEMC/TSSEZL/170425/GW

Issued Date-17.04.2025

Sl. No	Parameter	Unit of measurement	Testing Method	Standard as per IS: 10500, 2012		Result
				Acceptable Limit	Permissible Limit	
19	Mercury (as Hg)	mg/l	By ICP Method APHA 3120 B	0.001	No Relaxation	<0.001
20	Cadmium (as Cd)	mg/l	By ICP Method APHA 3120 B	0.003	No Relaxation	<0.005
21	Selenium (as Se)	mg/l	By ICP Method APHA 3120 B	0.01	No Relaxation	<0.001
22	Arsenic (as As)	mg/l	By ICP Method APHA 3120 B	0.01	0.05	<0.001
23	Cyanide (as CN)	mg/l	Distillation followed by Titration APHA 4500CN ⁻ C,D	0.05	No Relaxation	ND
24	Lead (as Pb)	mg/l	By ICP Method APHA 3120 B	0.01	No Relaxation	<0.005
25	Zinc (as Zn)	mg/l	By ICP Method APHA 3120 B	5	15	<0.005
26	Chromium (as Cr)	mg/l	By ICP Method APHA 3120 B	0.05	No Relaxation	<0.005
27	Total Alkalinity (as CaCO ₃)	mg/l	By Titrimetric Method APHA 2320 B	200	600	156
28	Aluminium (as Al)	mg/l	By ICP Method APHA 3120 B	0.03	0.2	<0.005
29	Boron (as B)	mg/l	By ICP Method APHA 3120 B	0.5	1.0	<0.005

NB: ND- Not Detectable, AL- Agreeable, MPN-Most Probable Number


Authorized Signatory


Seal of Laboratory

Notes:

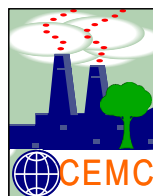
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Report no.-CEMC/TSSEZL/041124/A1

Issued Date-04.11.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

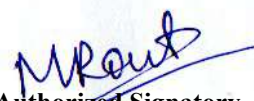
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office
Weather Conditions	Clear
Reference No.	CEMC-04112024A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.10.2024	67.8	37.6	9.28	13.18	0.34	--	--	--	--	--	--	--
07.10.2024	63.4	33.8	8.52	12.26	0.41	--	--	--	--	--	--	--
10.10.2024	64.3	34.9	9.44	13.54	0.38	--	--	--	--	--	--	--
15.10.2024	66.3	33.0	9.98	13.86	0.35	--	--	--	--	--	--	--
17.10.2024	67.5	35.4	9.66	13.56	0.49	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.10.2024	63.9	32.6	7.38	12.22	0.43	--	--	--	--	--	--	--
25.10.2024	58.4	28.2	6.14	11.32	0.42	--	--	--	--	--	--	--
28.10.2024	59.7	29.3	8.82	12.78	0.43	--	--	--	--	--	--	--
30.10.2024	65.1	33.0	9.12	13.24	0.44	--	--	--	--	--	--	--
Avg	64.16	33.09	8.70	12.88	0.41	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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Notes:



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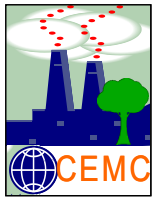
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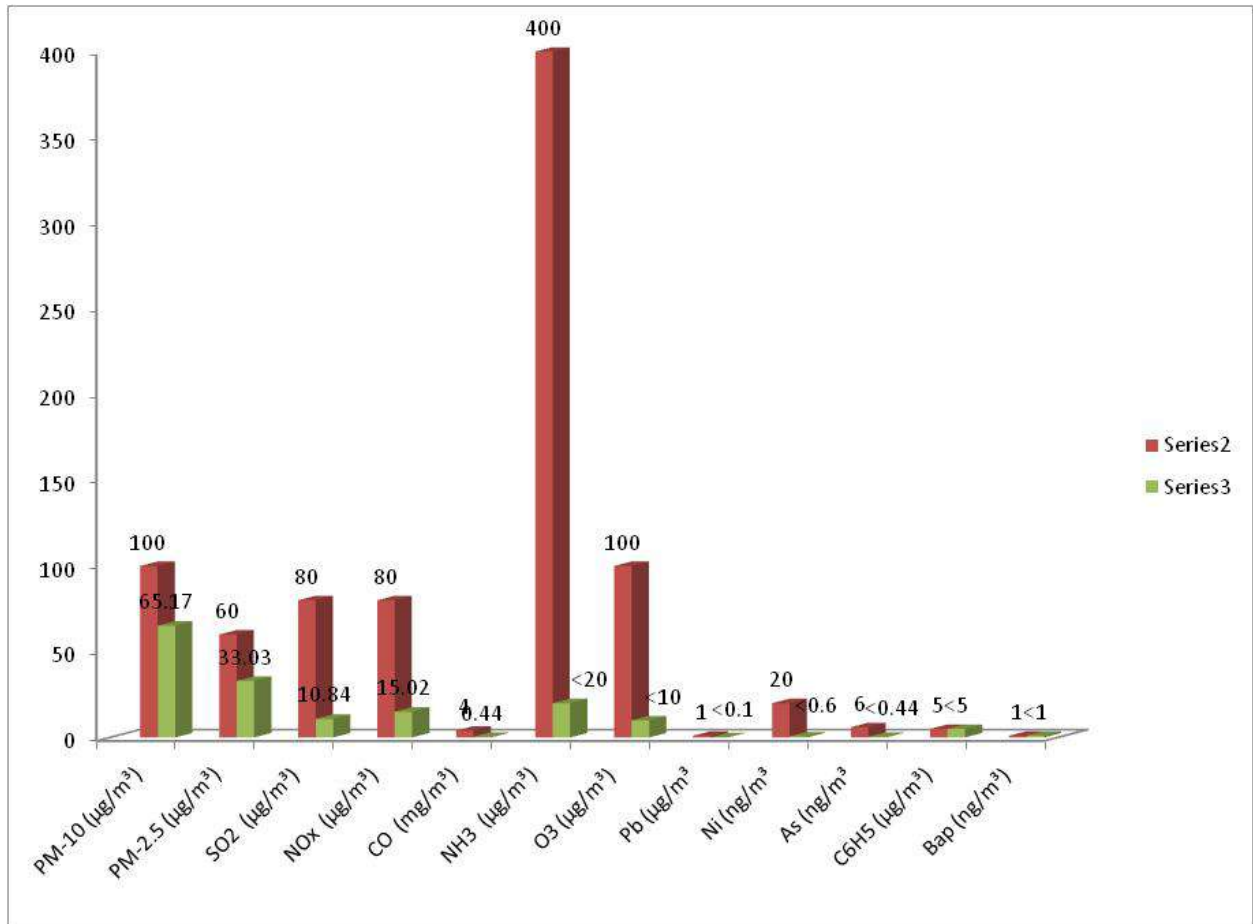
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of October-24

NB-Series2 –Stands for Standard, Series3 –Stands for Result

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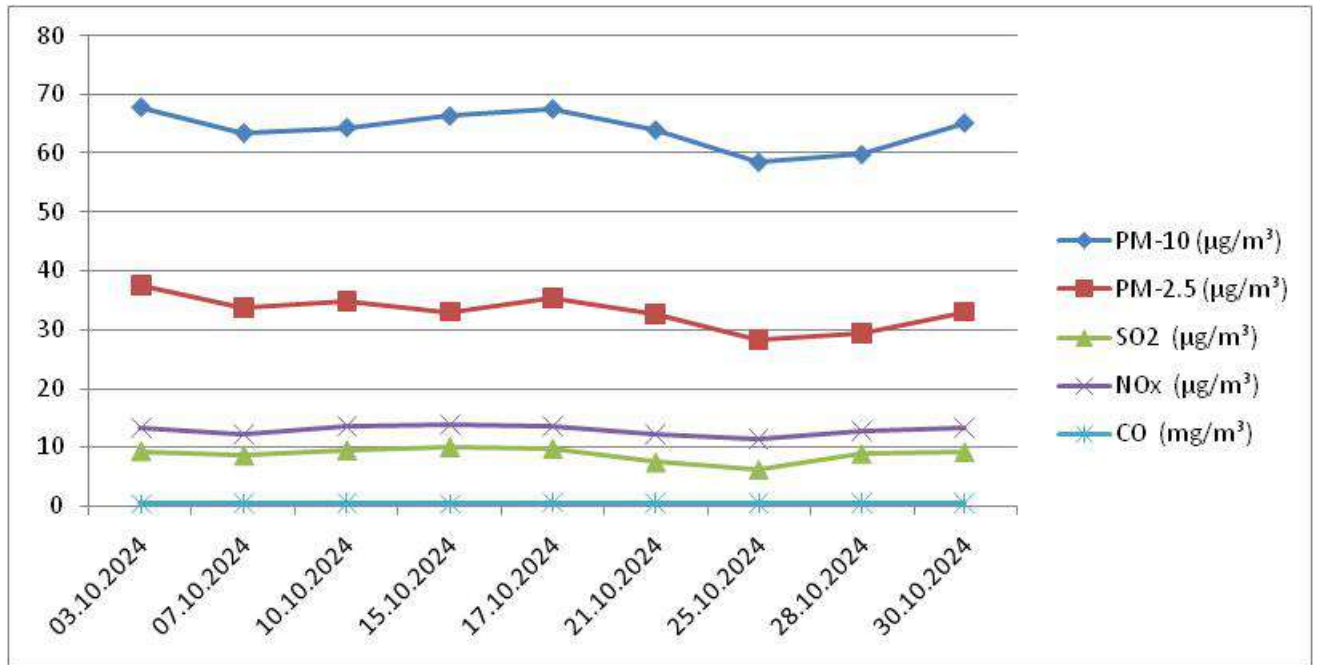
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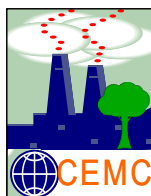
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Report no.-CEMC/TSSEZL/041124/A2

Issued Date-04.11.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04112024A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2024	67.4	35.2	12.31	16.18	0.63	--	--	--	--	--	--	--
07.10.2024	70.8	37.5	10.56	14.28	0.6	--	--	--	--	--	--	--
10.10.2024	69.9	35.9	11.78	15.46	0.56	--	--	--	--	--	--	--
15.10.2024	66.2	34.1	10.44	14.54	0.5	--	--	--	--	--	--	--
17.10.2024	67.3	34.8	10.84	15.76	0.58	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.10.2024	68.6	35.1	14.26	18.91	0.61	--	--	--	--	--	--	--
25.10.2024	59.3	29.9	10.62	14.44	0.44	--	--	--	--	--	--	--
28.10.2024	61.6	31.4	9.08	13.38	0.49	--	--	--	--	--	--	--
30.10.2024	65.7	33.9	10.92	14.62	0.54	--	--	--	--	--	--	--
Avg	66.31	34.20	11.20	15.29	0.55	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

Authorized Signatory

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Seal of Laboratory



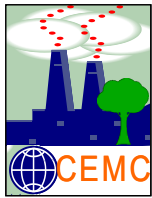
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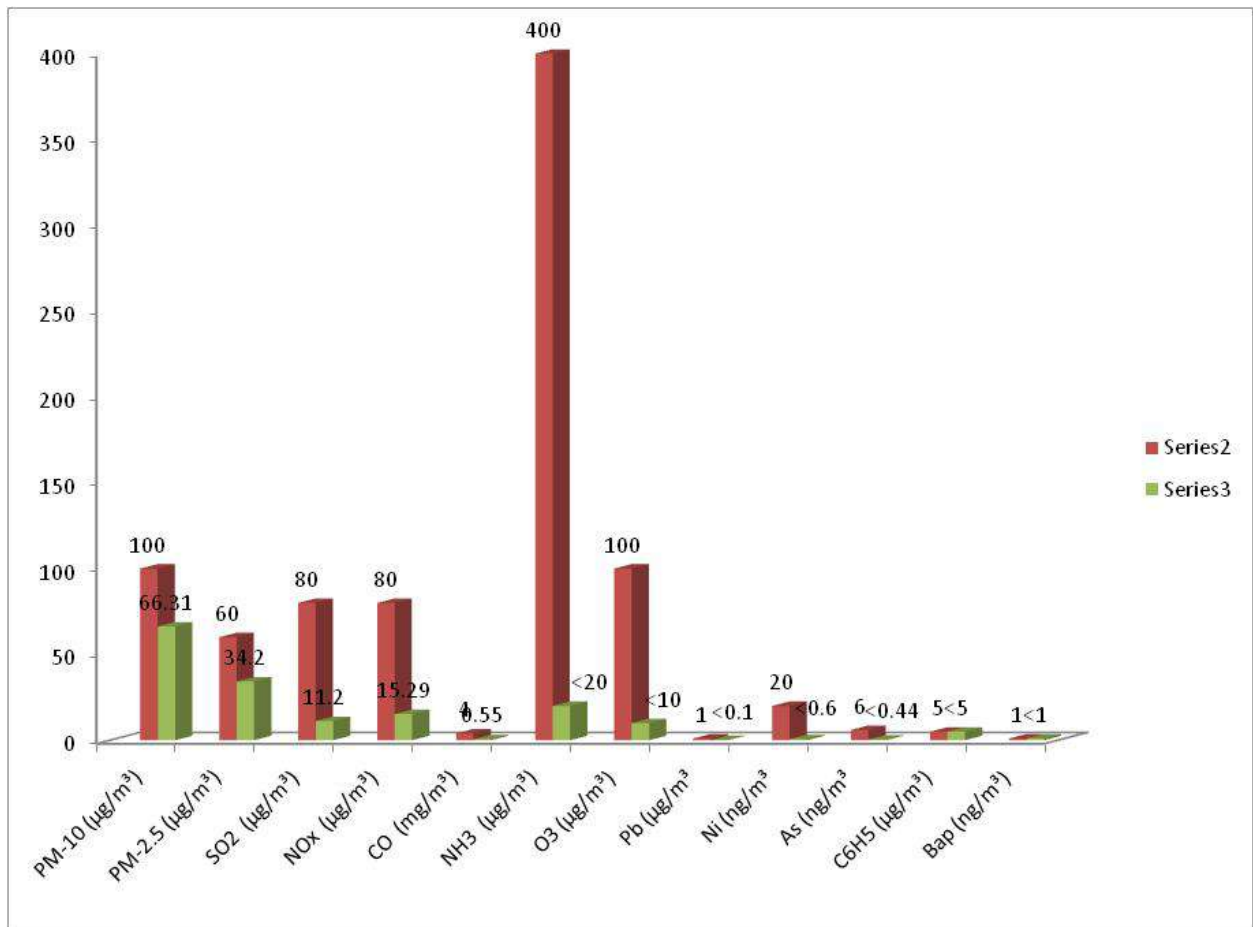
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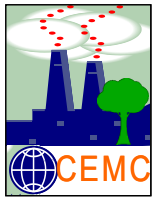
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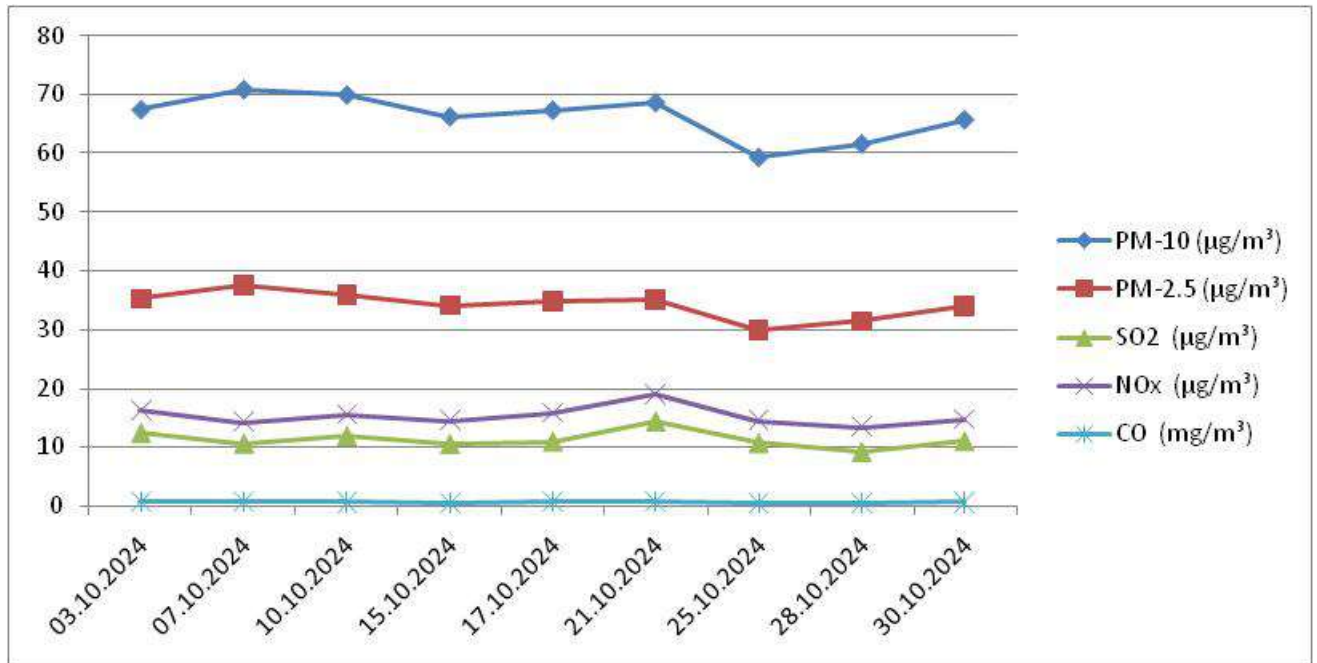
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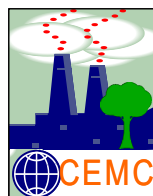
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Report no.-CEMC/TSSEZL/041124/A3

Issued Date-04.11.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04112024A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

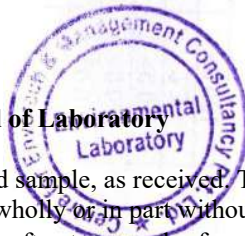
ANALYSIS RESULT

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2024	69.8	36.2	12.14	16.42	0.5	--	--	--	--	--	--	--
07.10.2024	65.6	34.4	11.08	15.12	0.47	--	--	--	--	--	--	--
10.10.2024	63.5	30.6	12.78	16.94	0.52	--	--	--	--	--	--	--
15.10.2024	65.8	36.6	12.06	16.12	0.52	--	--	--	--	--	--	--
17.10.2024	67.2	34.8	11.24	15.62	0.44	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.10.2024	59.8	29.2	9.26	13.24	0.34	--	--	--	--	--	--	--
25.10.2024	60.4	30.1	8.42	12.58	0.31	--	--	--	--	--	--	--
28.10.2024	58.5	30.3	10.12	14.38	0.38	--	--	--	--	--	--	--
30.10.2024	66.9	34.1	10.44	14.72	0.48	--	--	--	--	--	--	--
Avg	65.17	33.03	10.84	15.02	0.44	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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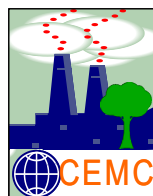
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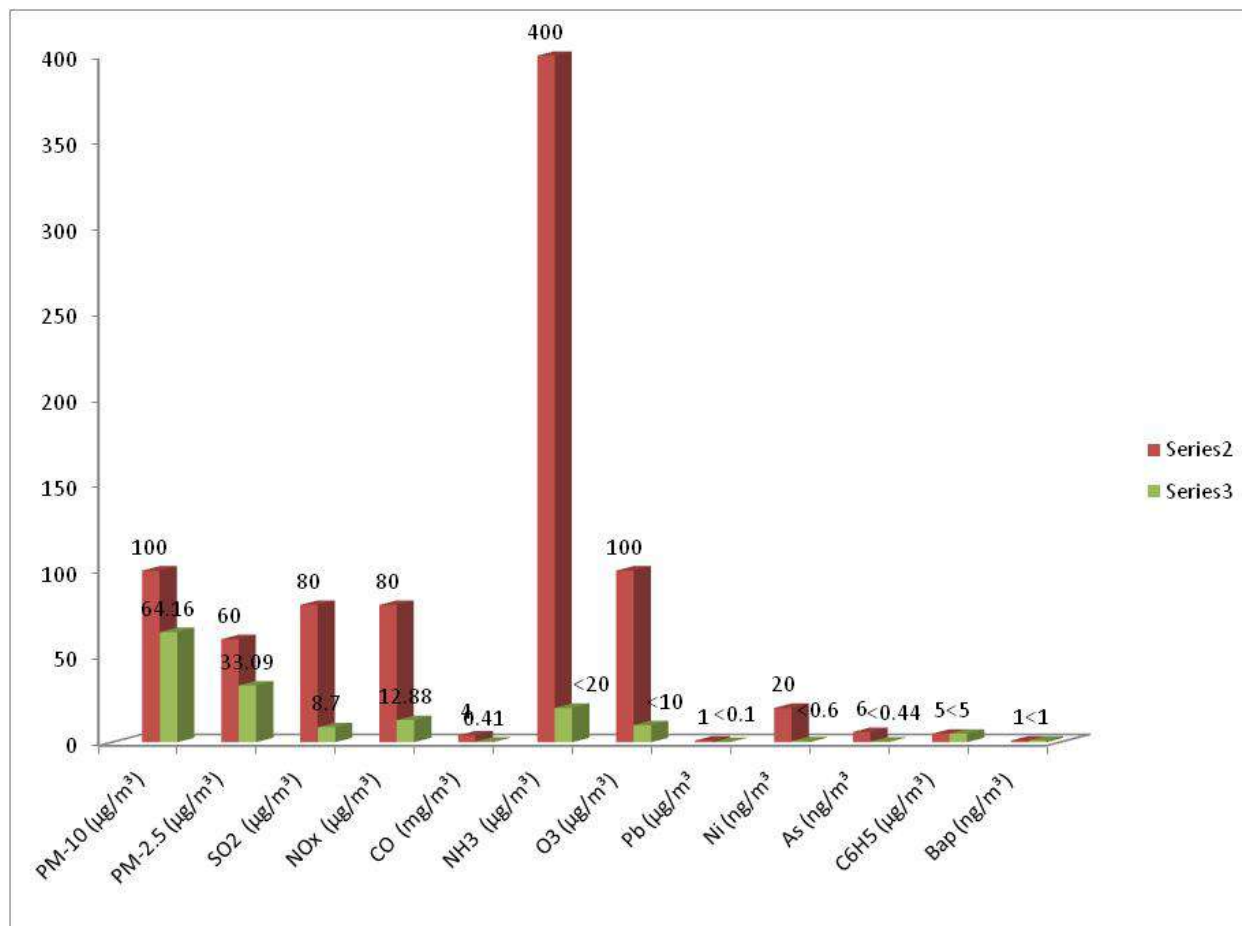
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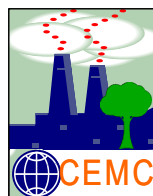
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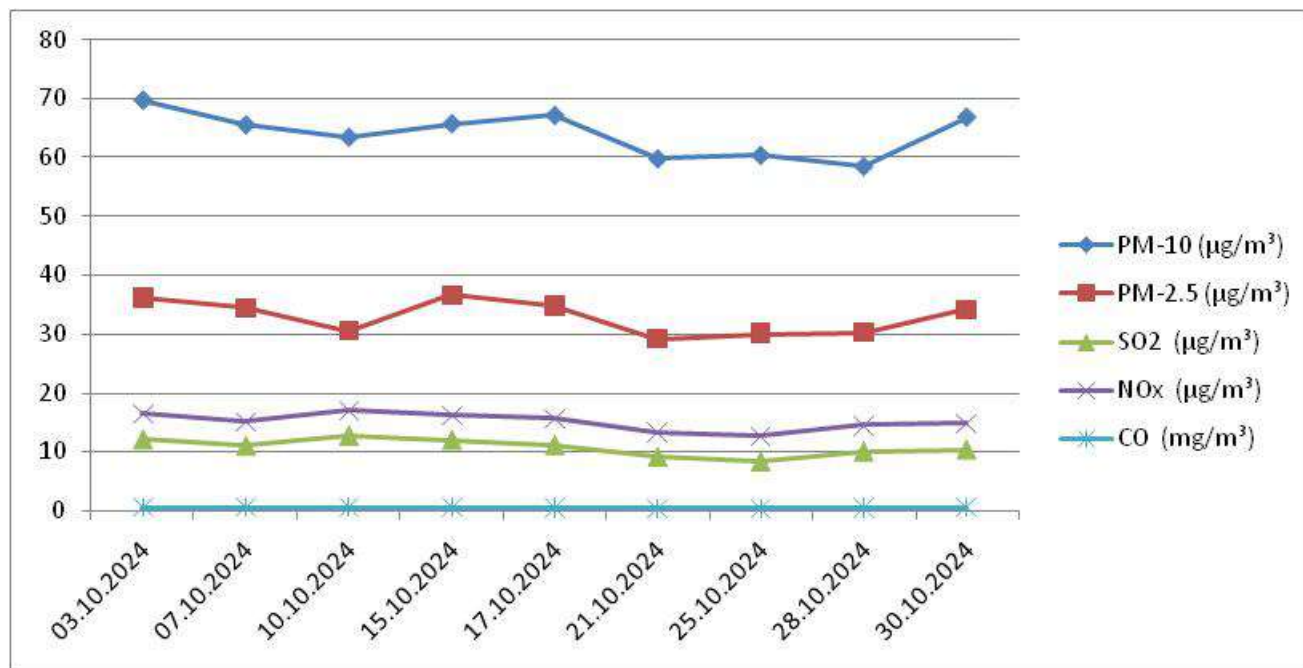
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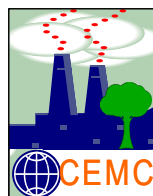
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Report no.-CEMC/TSSEZL/041124/W1

Issued Date-04.11.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 26.10.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 27.10.2024
Date of Analysis : 27.10.2024 to 02.11.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-04112024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	30
2	pH Value @ 25°C	--	6.5 to 8.5	7.11
3	Turbidity	NTU	--	40.2
4	Total Suspended Solids	mg/l	--	33.1
5	Iron as Fe, Max.	mg/l	50	0.15
6	Chloride as Cl, Max.	mg/l	600	36.9
7	Dissolved Solids, Max.	mg/l	1500	191
8	Dissolved Oxygen, Min.	mg/l	4	5.8
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	24
13	Nitrate as NO ₃ , Max.	mg/l	50	2.2
14	Fluoride as F, Max.	mg/l	1.5	0.16
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	177
25	Faecal Coliform	MPN/100ml	--	11

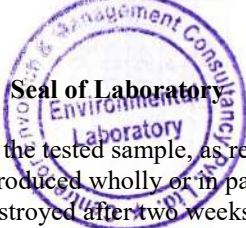
, MPN-Most Probable Number

END OF REPORT


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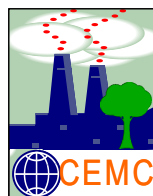
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Report no.-CEMC/TSSEZL/041124/W2

Issued Date-04.11.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 26.10.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 26.10.2024
Date of Analysis : 21.10.2024 to 27.10.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04112024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	45
2	pH Value @ 25°C	--	6.5 to 8.5	7.41
3	Turbidity	NTU	--	51.8
4	Total Suspended Solids	mg/l	--	60.4
5	Iron as Fe, Max.	mg/l	50	0.36
6	Chloride as Cl, Max.	mg/l	600	45.9
7	Dissolved Solids, Max.	mg/l	1500	180
8	Dissolved Oxygen, Min.	mg/l	4	5.6
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	31.8
13	Nitrate as NO ₃ , Max.	mg/l	50	2.2
14	Fluoride as F, Max.	mg/l	1.5	0.18
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	342
25	Faecal Coliform	MPN/100ml	--	20

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

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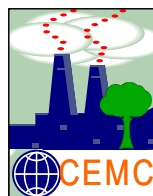
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Report No. - CEMC/ TSSEZL /041124/N

Issued Date-04.11.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04112024N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
26.10.2024	Near Project office	65.4	59.6	62.5	58.8	53.2	56.0
26.10.2024	Near main gate(Chamakhandi)	67.9	64.3	66.1	61.5	57.1	59.3

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Seal of Laboratory

Notes:

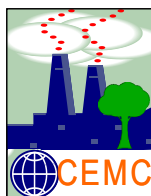
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Report no.-CEMC/TSSEZL/041124/A3

Issued Date-04.11.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

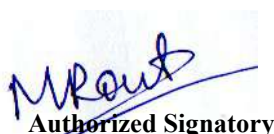
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04112024A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	19.10.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher Office	19.10.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	19.10.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Report no.-CEMC/TSSEZL/041224/A1

Issued Date-04.12.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office
Weather Conditions	Clear
Reference No.	CEMC-04122024A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2024	70.4	39.2	9.92	14.22	0.38	--	--	--	--	--	--	--
07.11.2024	66.8	38.8	9.24	13.32	0.46	--	--	--	--	--	--	--
11.11.2024	68.2	38.4	10.22	14.63	0.42	--	--	--	--	--	--	--
14.11.2024	71.4	37.1	10.43	12.54	0.39	--	--	--	--	--	--	--
18.11.2024	70.2	36.6	10.36	14.65	0.51	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.11.2024	68.6	37.8	9.86	13.82	0.47	--	--	--	--	--	--	--
25.11.2024	67.2	36.4	9.32	12.93	0.46	--	--	--	--	--	--	--
28.11.2024	66.6	35.6	9.04	11.64	0.45	--	--	--	--	--	--	--
Avg	68.68	37.49	9.80	13.47	0.44	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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Notes:

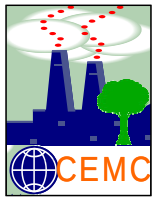
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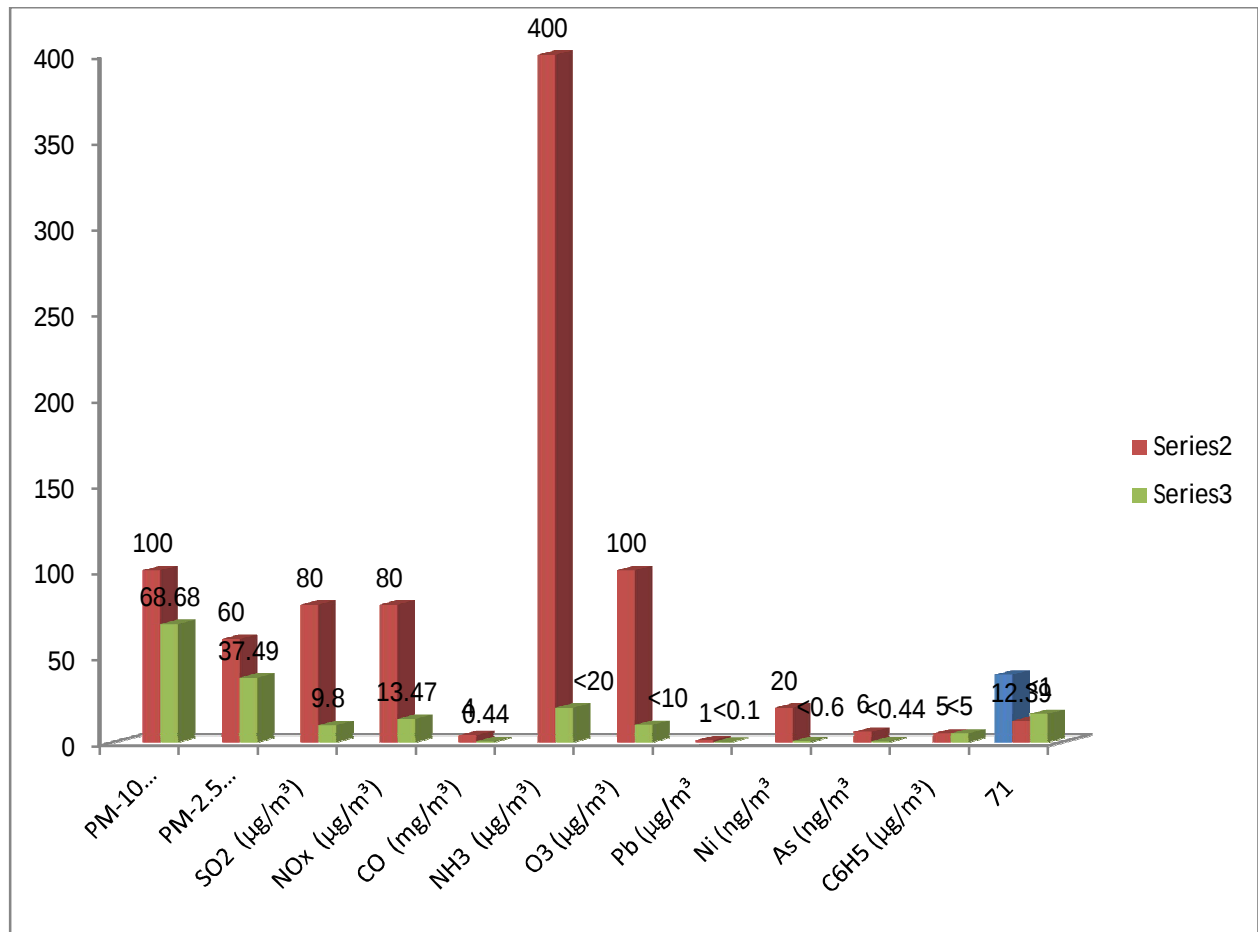
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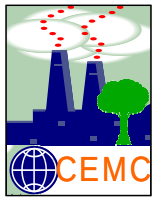
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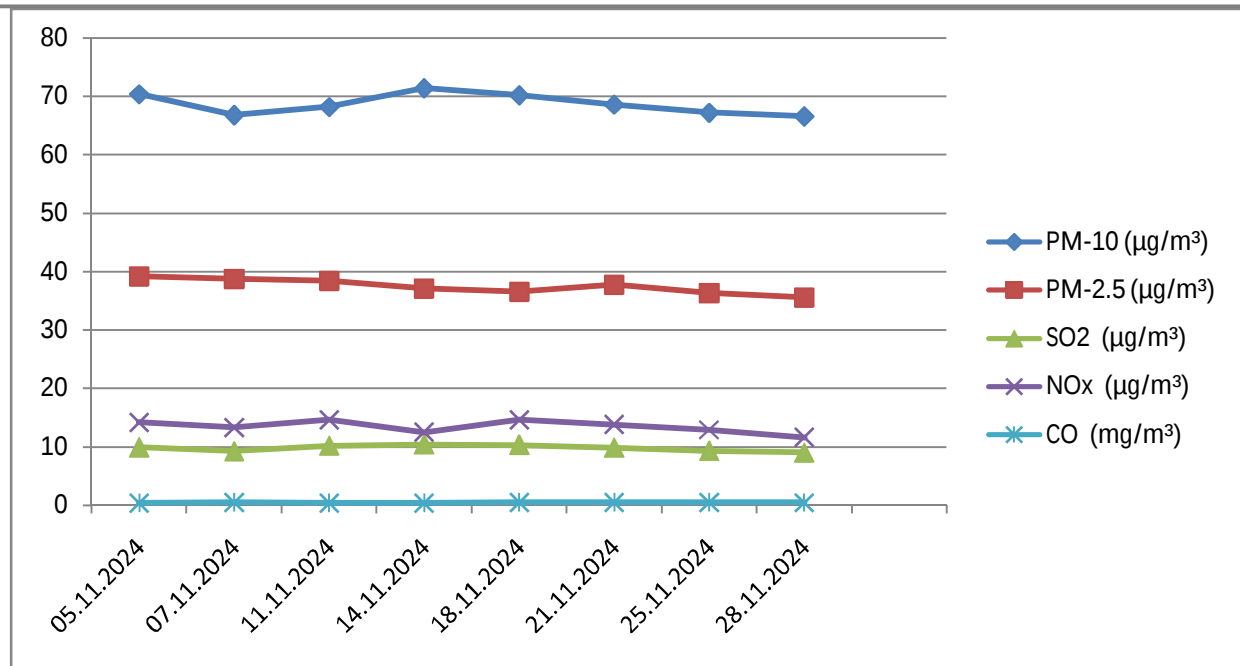
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Report no.-CEMC/TSSEZL/041224/A2

Issued Date-04.12.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04122024A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2024	71.2	39.8	12.82	15.62	0.68	--	--	--	--	--	--	--
07.11.2024	73.4	38.6	11.43	16.22	0.66	--	--	--	--	--	--	--
11.11.2024	74.6	38.4	12.26	17.31	0.62	--	--	--	--	--	--	--
14.11.2024	69.8	40.2	11.54	16.38	0.57	--	--	--	--	--	--	--
18.11.2024	71.4	41.4	13.32	16.54	0.63	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.11.2024	72.2	38.6	14.38	17.82	0.65	--	--	--	--	--	--	--
25.11.2024	68.6	39.2	12.73	16.67	0.58	--	--	--	--	--	--	--
28.11.2024	66.8	37.4	10.66	14.23	0.52	--	--	--	--	--	--	--
Avg	71.00	39.20	12.39	16.35	0.61	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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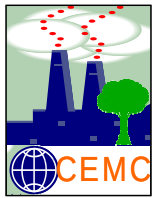
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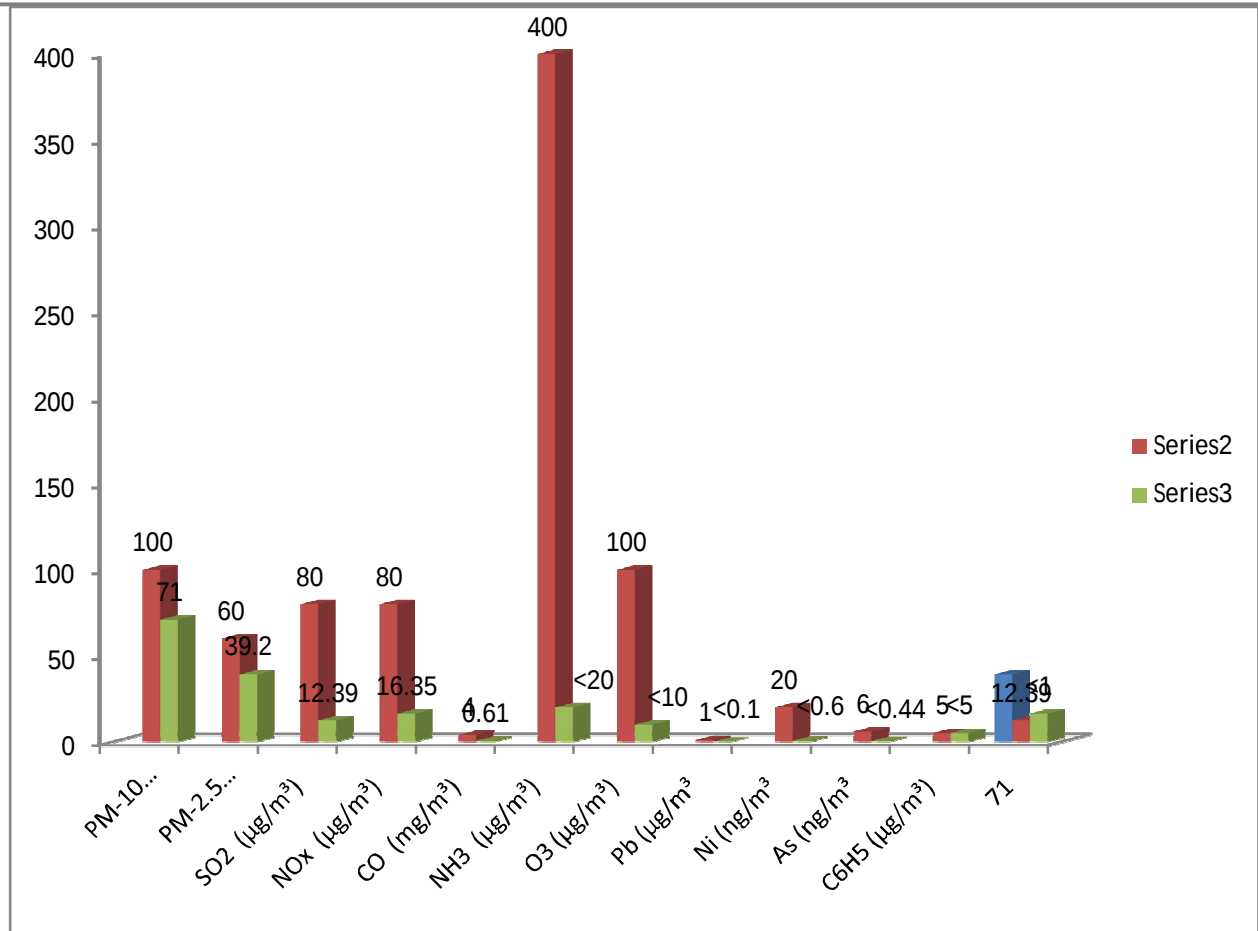
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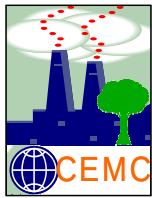
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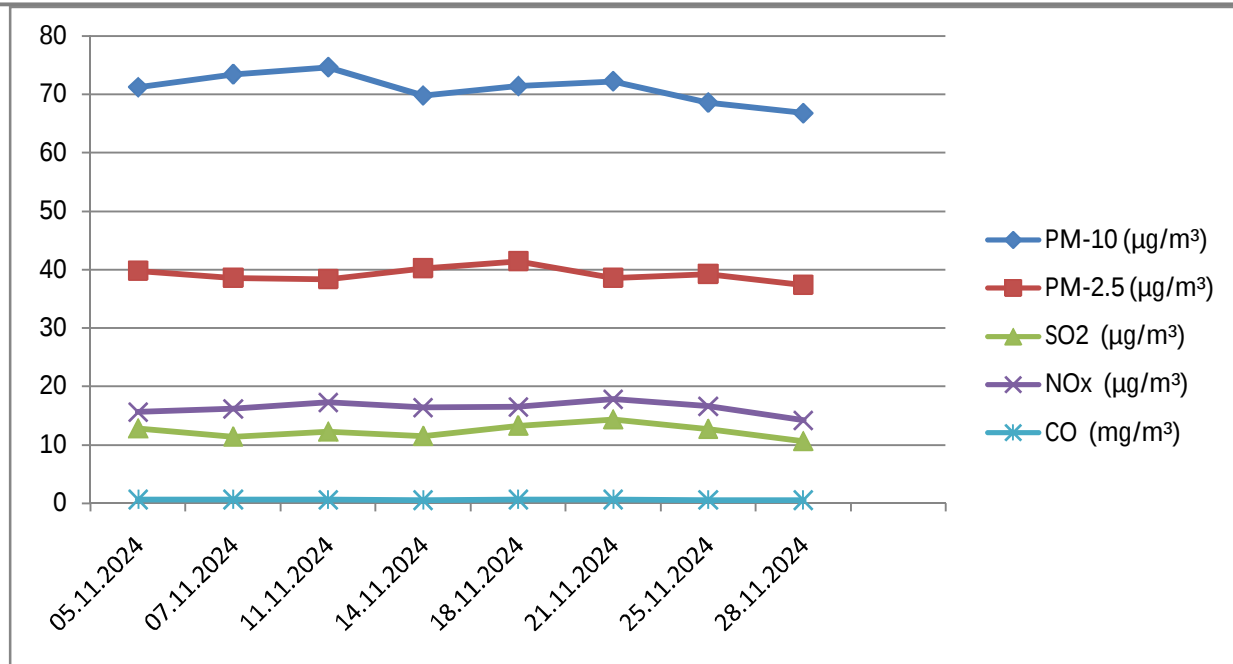
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Report no.-CEMC/TSSEZL/041224/A3

Issued Date-04.12.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04122024A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2024	74.2	41.2	13.26	17.21	0.58	--	--	--	--	--	--	--
07.11.2024	73.4	40.8	12.12	16.33	0.54	--	--	--	--	--	--	--
11.11.2024	72.8	39.4	13.64	17.34	0.56	--	--	--	--	--	--	--
14.11.2024	71.6	38.6	12.93	17.26	0.59	--	--	--	--	--	--	--
18.11.2024	72.4	39.2	13.24	16.51	0.61	<20	<10	<0.05	<3.2	<0.1	<5	<1
21.11.2024	71.6	38.4	12.53	15.32	0.56	--	--	--	--	--	--	--
25.11.2024	70.2	37.8	12.82	15.43	0.64	--	--	--	--	--	--	--
28.11.2024	68.4	36.6	11.31	14.12	0.51	--	--	--	--	--	--	--
Avg	71.83	39.00	12.73	16.19	0.57	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

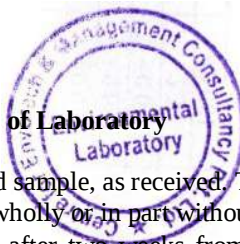
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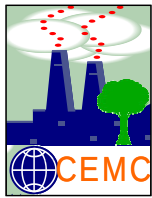
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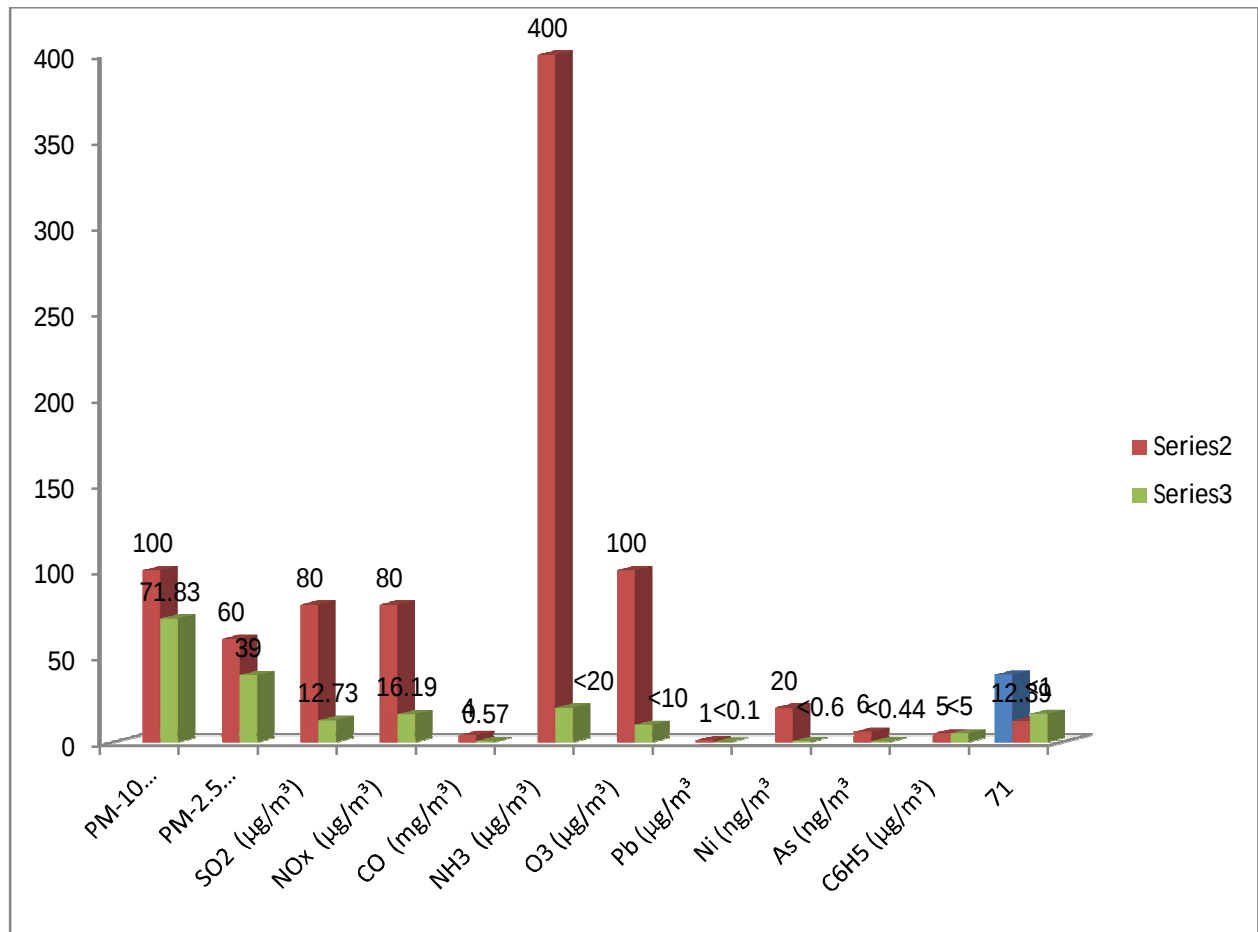
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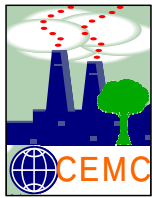
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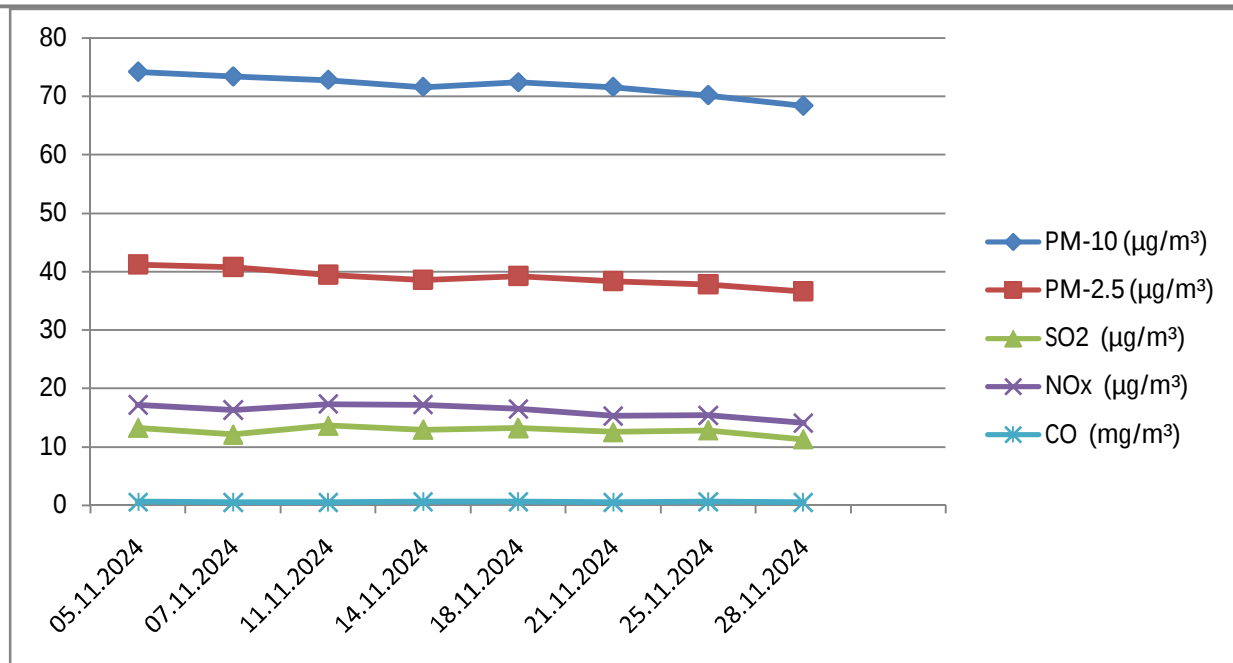
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Report no.-CEMC/TSSEZL/041224/W1

Issued Date-04.12.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.11.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 22.11.2024
Date of Analysis : 22.11.2024 to 30.11.2024
Sample Location : Khari Nalla, Up Stream (SW1)
Reference No. : CEMC-04122024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	5
2	pH Value @ 25°C	--	6.5 to 8.5	8.11
3	Turbidity	NTU	--	2.0
4	Total Suspended Solids	mg/l	--	<5
5	Iron as Fe, Max.	mg/l	50	0.05
6	Chloride as Cl, Max.	mg/l	600	31.2
7	Dissolved Solids, Max.	mg/l	1500	204.6
8	Dissolved Oxygen, Min.	mg/l	4	5.9
9	BOD for 3 days@ 27°C, Max.	mg/l	3	2.2
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	7.9
13	Nitrate as NO ₃ , Max.	mg/l	50	5.1
14	Fluoride as F, Max.	mg/l	1.5	0.37
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	120
25	Faecal Coliform	MPN/100ml	--	16

, MPN-Most Probable Number

END OF REPORT


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Report no.-CEMC/TSSEZL/041224/W2

Issued Date-04.12.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.11.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 22.11.2024
Date of Analysis : 22.11.2024 to 30.11.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream (SW2)
Reference No. : CEMC-04122024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	8.17
3	Turbidity	NTU	--	1.0
4	Total Suspended Solids	mg/l	--	<5
5	Iron as Fe, Max.	mg/l	50	0.26
6	Chloride as Cl, Max.	mg/l	600	33.7
7	Dissolved Solids, Max.	mg/l	1500	218.4
8	Dissolved Oxygen, Min.	mg/l	4	5.7
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	10.6
13	Nitrate as NO ₃ , Max.	mg/l	50	7.2
14	Fluoride as F, Max.	mg/l	1.5	0.26
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	197
25	Faecal Coliform	MPN/100ml	--	33

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

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Report No. - CEMC/ TSSEZL /041224/N

Issued Date-04.12.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04122024N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
21.11.2024	Near Project office	65.6	59.4	62.5	58.6	53.4	56
21.11.2024	Near main gate(Chamakhandi)	67.8	64.6	66.2	61.7	57.3	59.5

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Report no.-CEMC/TSSEZL/041224/A3

Issued Date-04.12.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04122024A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	21.11.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher Office	21.11.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	21.11.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Report no.-CEMC/TSSEZL/040125/A1

Issued Date-04.01.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Project Office Gate
Weather Conditions	Clear
Reference No.	CEMC-04012025A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2024	60.2	35.6	8.06	12.58	0.31	--	--	--	--	--	--	--
05.12.2024	66.4	33.8	11.12	14.42	0.46	--	--	--	--	--	--	--
09.12.2024	64.8	32.6	9.46	13.24	0.37	--	--	--	--	--	--	--
12.12.2024	62.6	31.8	9.52	13.58	0.31	--	--	--	--	--	--	--
17.12.2024	60.2	30.2	10.26	14.62	0.4	<20	<10	<0.05	<3.2	<0.1	<5	<1
19.12.2024	61.6	31.8	10.34	13.12	0.43	--	--	--	--	--	--	--
23.12.2024	58.4	28.2	6.14	10.32	0.32	--	--	--	--	--	--	--
26.12.2024	63.4	34.4	13.08	17.94	0.49	--	--	--	--	--	--	--
30.12.2024	59.7	29.3	8.82	12.78	0.43	--	--	--	--	--	--	--
Avg	61.92	31.97	9.64	13.62	0.39	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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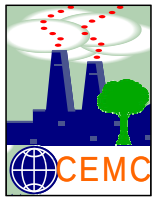
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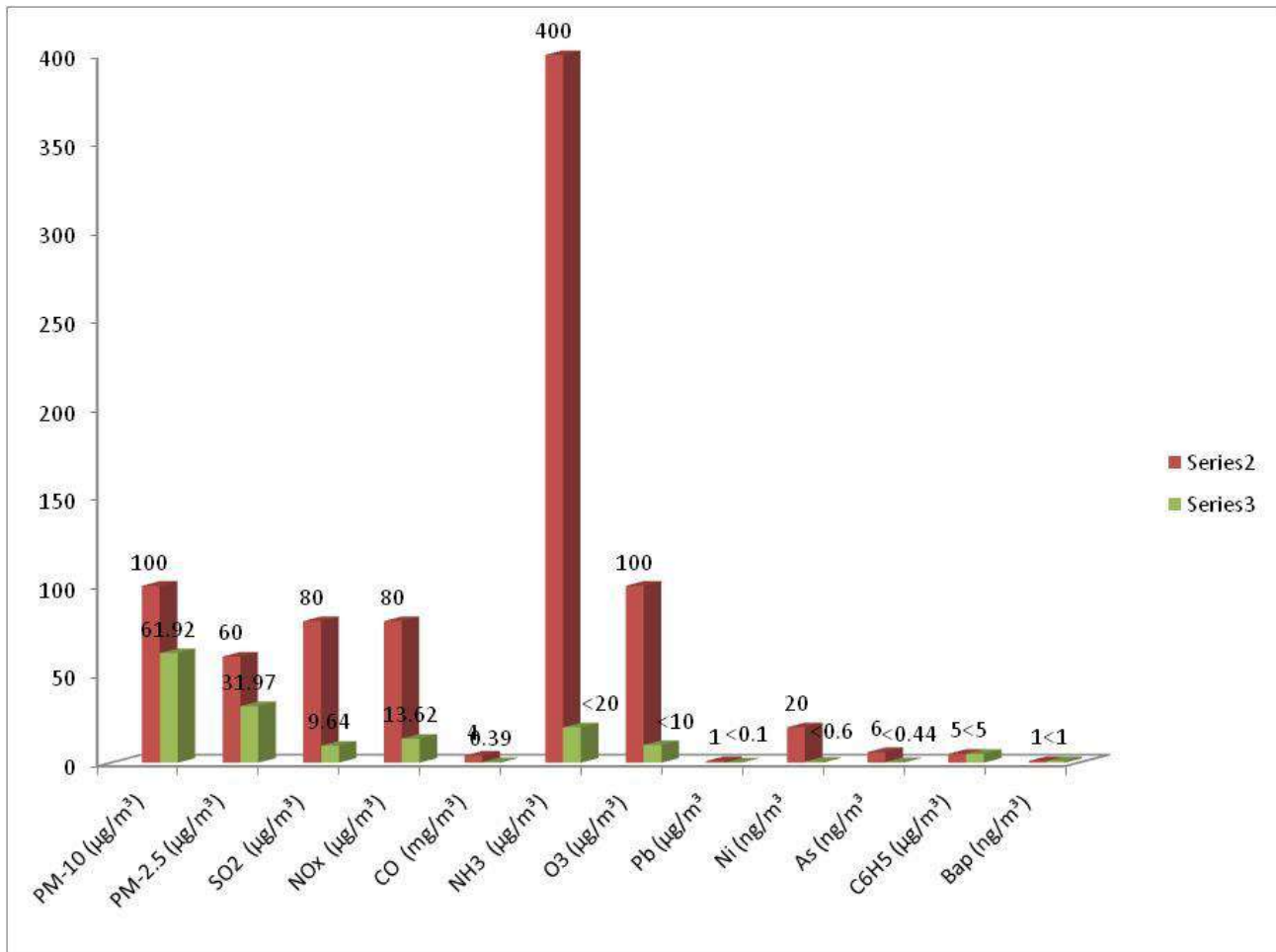
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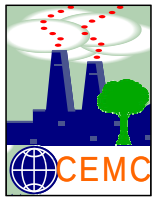
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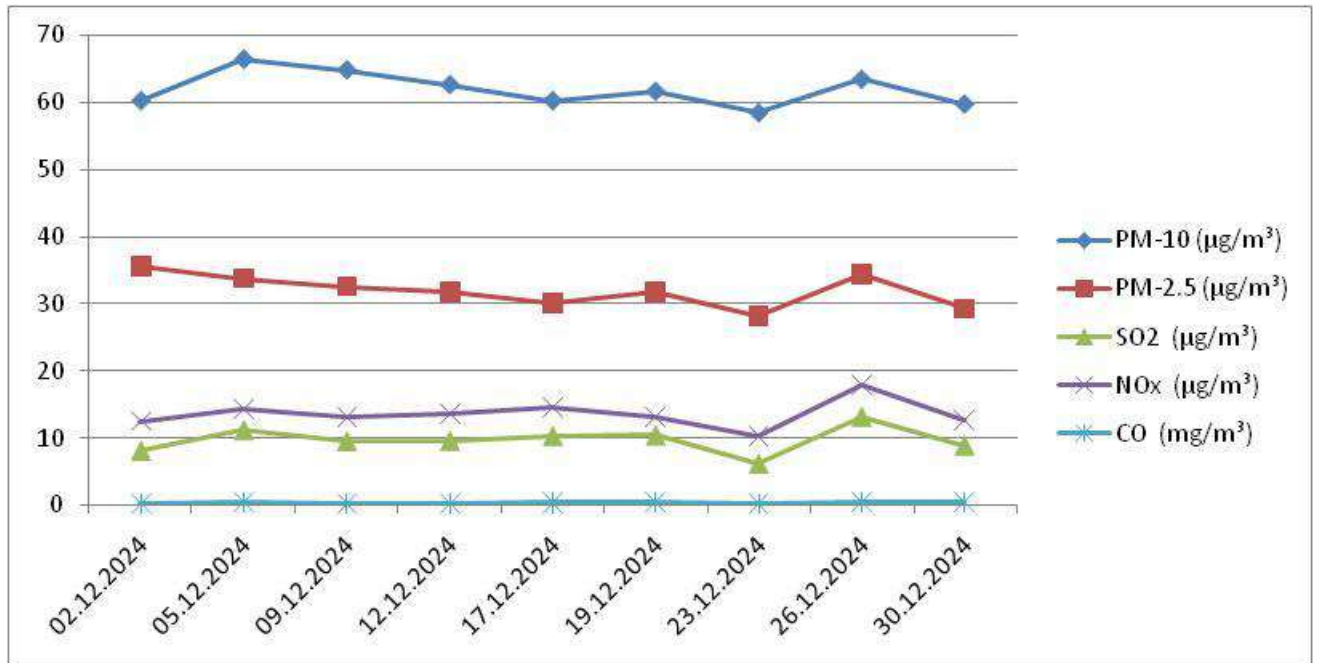
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Report no.-CEMC/TSSEZL/040125/A2

Issued Date-04.01.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04012025A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2024	66.2	34.4	12.12	16.22	0.61	--	--	--	--	--	--	--
05.12.2024	68.6	35.2	13.56	14.32	0.58	--	--	--	--	--	--	--
09.12.2024	67.6	34.8	12.78	15.58	0.52	--	--	--	--	--	--	--
12.12.2024	65.8	33.2	11.44	14.66	0.5	--	--	--	--	--	--	--
17.12.2024	64.4	33.6	10.72	15.74	0.48	<20	<10	<0.05	<3.2	<0.1	<5	<1
19.12.2024	69.2	35.4	9.84	18.84	0.45	--	--	--	--	--	--	--
23.12.2024	59.3	29.9	10.62	14.44	0.44	--	--	--	--	--	--	--
26.12.2024	61.6	31.4	9.08	13.38	0.49	--	--	--	--	--	--	--
30.12.2024	67.2	33.4	10.84	18.84	0.48	--	--	--	--	--	--	--
Avg	65.54	33.48	11.22	15.78	0.51	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

B.P.Das
Authorized Signatory

Seal of Laboratory

Notes:

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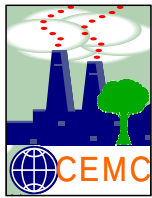
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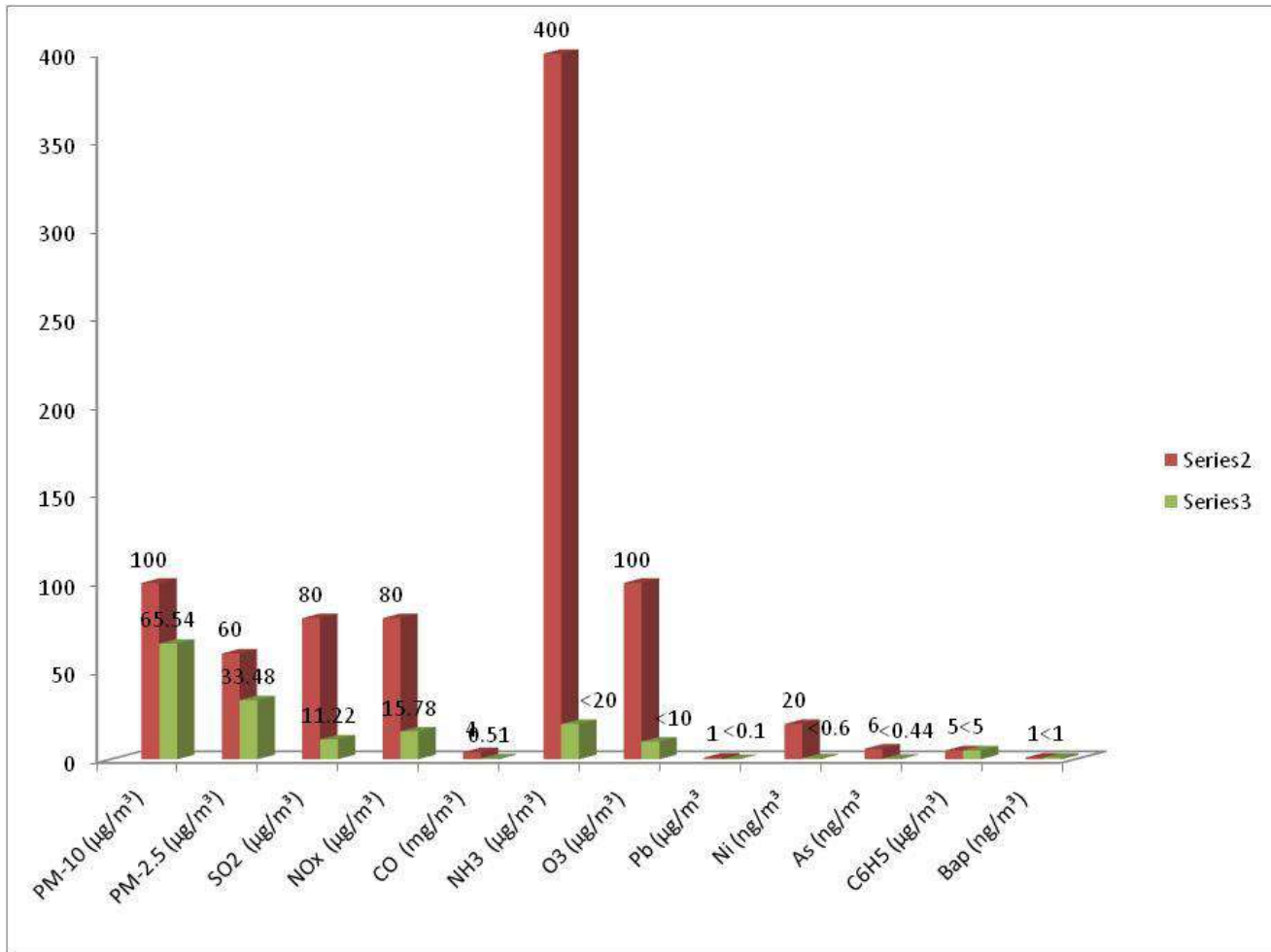
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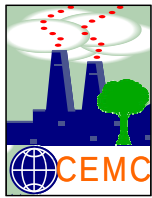
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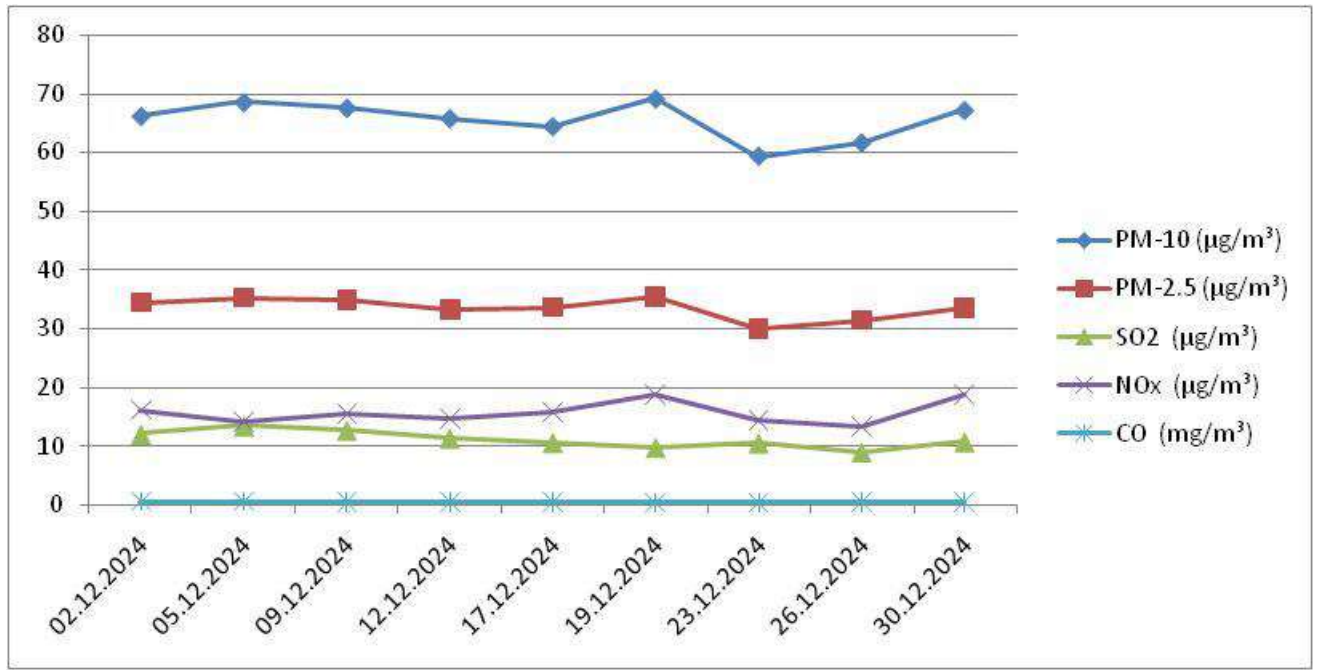
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Report no.-CEMC/TSSEZL/040125/A3

Issued Date-04.01.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04012025A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

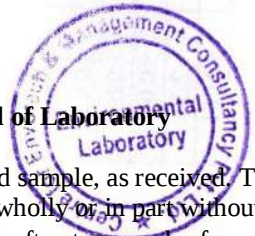
ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2024	58.5	30.3	10.12	14.38	0.38	--	--	--	--	--	--	--
05.12.2024	62.4	34.2	8.94	12.42	0.38	--	--	--	--	--	--	--
09.12.2024	68.3	33.8	9.68	13.68	0.41	--	--	--	--	--	--	--
12.12.2024	69.7	37.6	8.42	12.84	0.36	--	--	--	--	--	--	--
17.12.2024	63.4	32.1	9.42	12.58	0.31	<20	<10	<0.05	<3.2	<0.1	<5	<1
19.12.2024	64.8	33.4	7.04	12.34	0.32	--	--	--	--	--	--	--
23.12.2024	65.5	35.2	9.58	13.08	0.44	--	--	--	--	--	--	--
26.12.2024	60.4	30.1	8.42	12.58	0.27	--	--	--	--	--	--	--
30.12.2024	67.0	35.4	9.46	13.56	0.22	--	--	--	--	--	--	--
Avg	64.44	33.57	9.01	13.05	0.34	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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Seal of Laboratory

Notes:

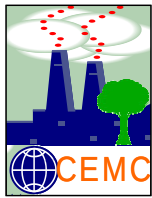
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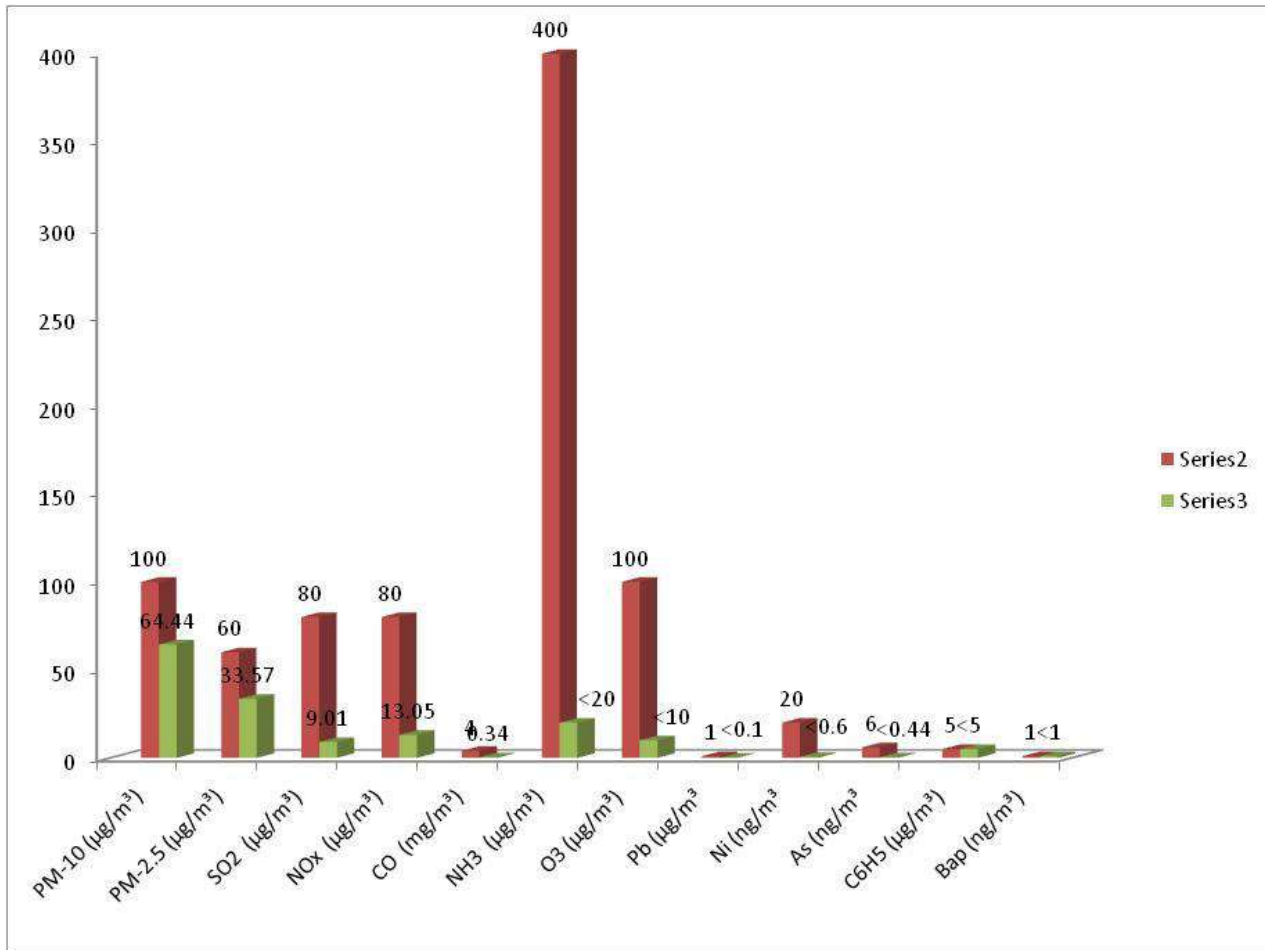
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This

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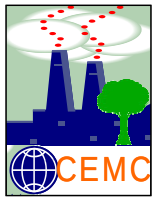
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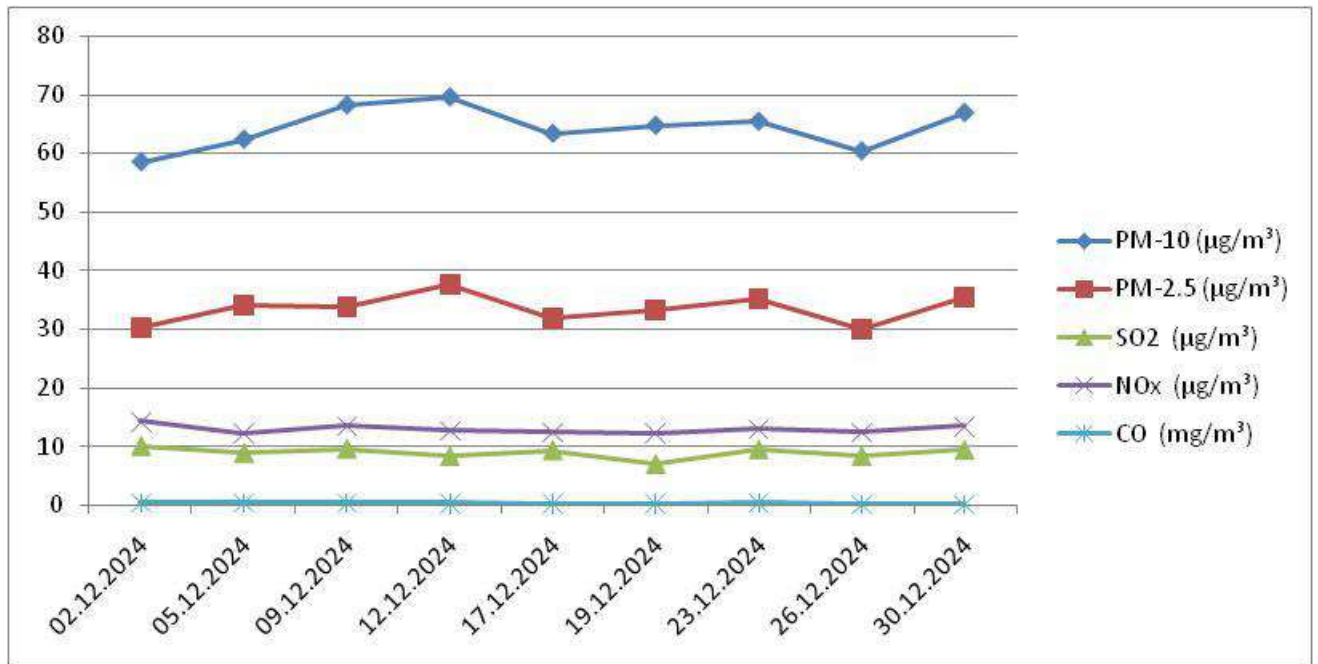
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Report no.-CEMC/TSSEZL/040125/W1

Issued Date-04.01.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 17.12.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 18.12.2024
Date of Analysis : 18.12.2024 to 26.12.2024
Sample Location : Khara Nalla, Up Stream(SW1)
Reference No. : CEMC-04012025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	7.61
3	Turbidity	NTU	--	15.6
4	Total Suspended Solids	mg/l	--	24.8
5	Iron as Fe, Max.	mg/l	50	0.19
6	Chloride as Cl, Max.	mg/l	600	40.9
7	Dissolved Solids, Max.	mg/l	1500	348
8	Dissolved Oxygen, Min.	mg/l	4	5.9
9	BOD for 3 days@ 27 ⁰ C, Max.	mg/l	3	2.8
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	12.0
13	Nitrate as NO ₃ , Max.	mg/l	50	5.2
14	Fluoride as F, Max.	mg/l	1.5	0.46
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	156
25	Faecal Coliform	MPN/100ml	--	13

, MPN-Most Probable Number

END OF REPORT

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Seal of Laboratory

Notes:

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Report no.-CEMC/TSSEZL/040125/W2

Issued Date-04.01.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 17.12.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 18.12.2024
Date of Analysis : 18.12.2024 to 26.12.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04012025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	7.41
3	Turbidity	NTU	--	20.2
4	Total Suspended Solids	mg/l	--	30.4
5	Iron as Fe, Max.	mg/l	50	0.26
6	Chloride as Cl, Max.	mg/l	600	49.9
7	Dissolved Solids, Max.	mg/l	1500	407
8	Dissolved Oxygen, Min.	mg/l	4	5.8
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	11.2
13	Nitrate as NO ₃ , Max.	mg/l	50	4.3
14	Fluoride as F, Max.	mg/l	1.5	0.36
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	233
25	Faecal Coliform	MPN/100ml	--	34

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Seal of Laboratory

Notes:

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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report No. - CEMC/ TSSEZL /040125/N

Issued Date-04.01.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04012025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
17.12.2024	Near Project office Gate	64.2	58.8	61.5	57.7	52.3	55.0
17.12.2024	Near main gate(Chamakhandi)	66.8	63.4	65.1	60.4	56.2	58.3

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Seal of Laboratory

Notes:

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Report no.-CEMC/TSSEZL/040125/A3

Issued Date-04.01.2025

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04012025A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near Project Office Gate	17.12.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	17.12.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	17.12.2024	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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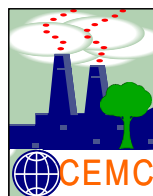
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Report no.-CEMC/TSSEZL/040225/A1

Issued Date-04.02.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Project Office Gate
Weather Conditions	Clear
Reference No.	CEMC-04022025A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.01.2025	63.7	39.1	8.71	13.23	0.48	--	--	--	--	--	--	--
07.01.2025	69.8	37.2	11.78	15.08	0.72	--	--	--	--	--	--	--
09.01.2025	68.7	36.5	10.23	14.01	0.62	--	--	--	--	--	--	--
13.01.2025	66.8	36.1	10.21	14.27	0.65	--	--	--	--	--	--	--
16.01.2025	64.7	34.7	11.13	15.49	0.74	<20	<10	<0.05	<3.2	<0.1	<5	<1
20.01.2025	64.8	35.4	11.16	13.94	0.88	--	--	--	--	--	--	--
23.01.2025	63.1	32.9	6.87	11.05	0.72	--	--	--	--	--	--	--
27.01.2025	67.5	38.5	13.85	18.71	0.82	--	--	--	--	--	--	--
30.01.2025	63.9	33.5	9.47	13.43	0.78	--	--	--	--	--	--	--
Avg	65.89	35.99	10.38	14.36	0.71	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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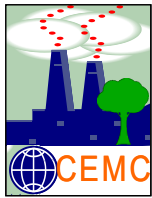
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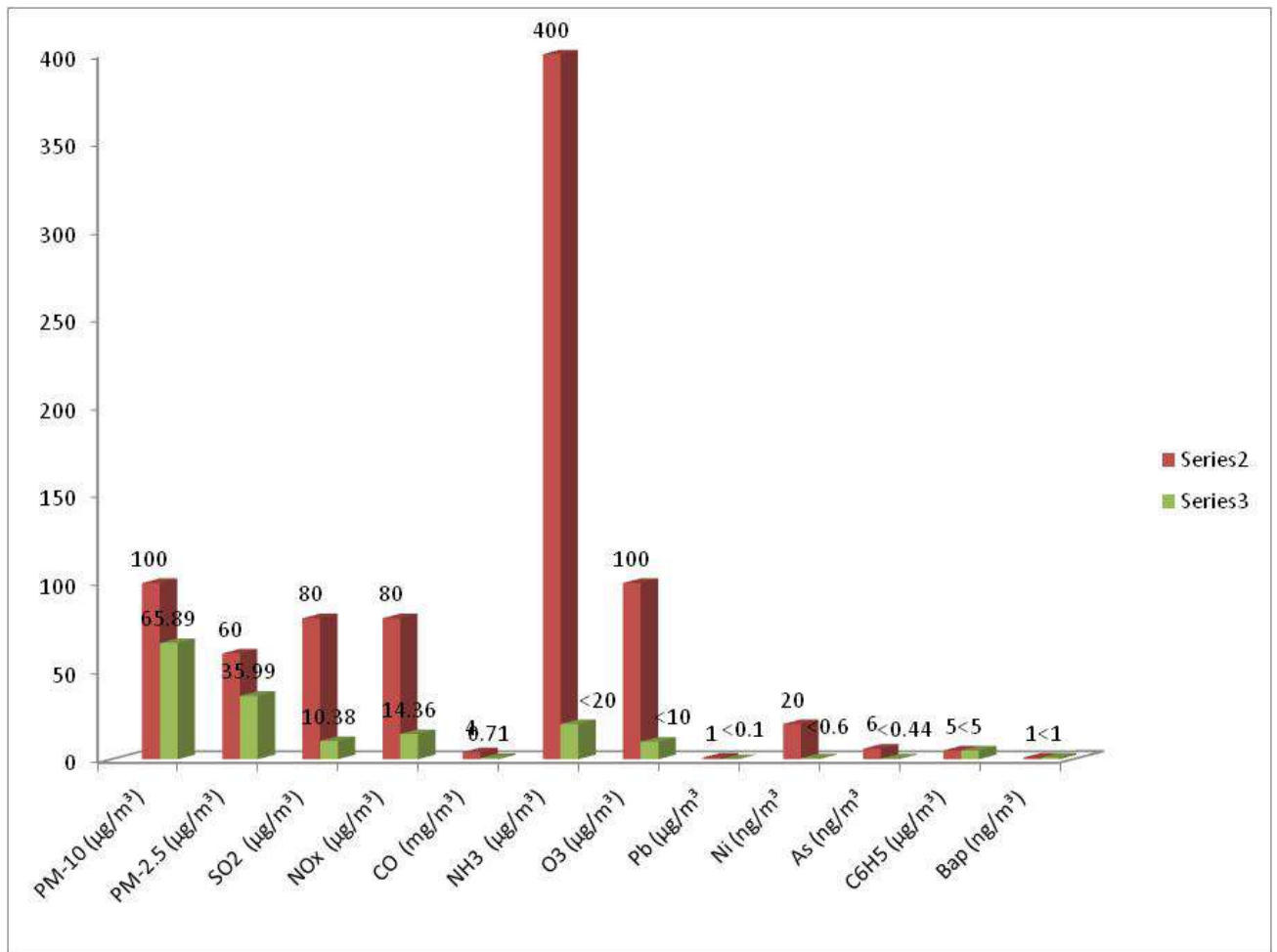
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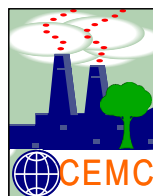
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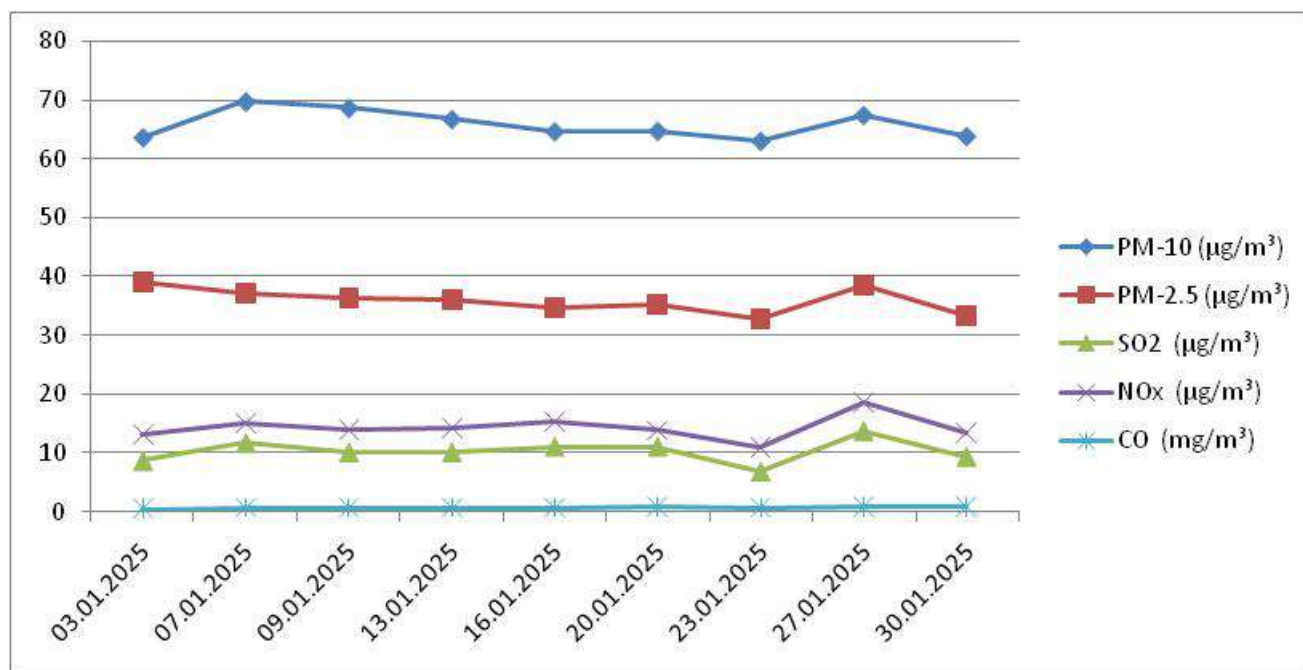
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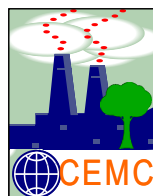
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Report no.-CEMC/TSSEZL/040225/A2

Issued Date-04.02.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04022025A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.01.2025	69.7	37.9	12.77	16.87	0.78	--	--	--	--	--	--	--
07.01.2025	71.9	38.5	14.22	14.98	0.84	--	--	--	--	--	--	--
09.01.2025	71.5	38.7	13.55	16.35	0.77	--	--	--	--	--	--	--
13.01.2025	70.1	37.5	12.13	15.35	0.84	--	--	--	--	--	--	--
16.01.2025	68.9	38.1	11.59	16.61	0.82	<20	<10	<0.05	<3.2	<0.1	<5	<1
20.01.2025	72.8	38.9	10.66	19.66	0.90	--	--	--	--	--	--	--
23.01.2025	64.1	34.7	11.35	15.17	0.84	--	--	--	--	--	--	--
27.01.2025	65.7	35.5	9.85	14.15	0.82	--	--	--	--	--	--	--
30.01.2025	71.4	37.6	11.49	19.49	0.83	--	--	--	--	--	--	--
Avg	69.57	37.49	11.96	16.51	0.83	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

B.P.Das
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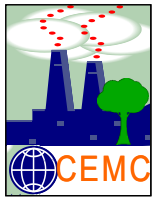
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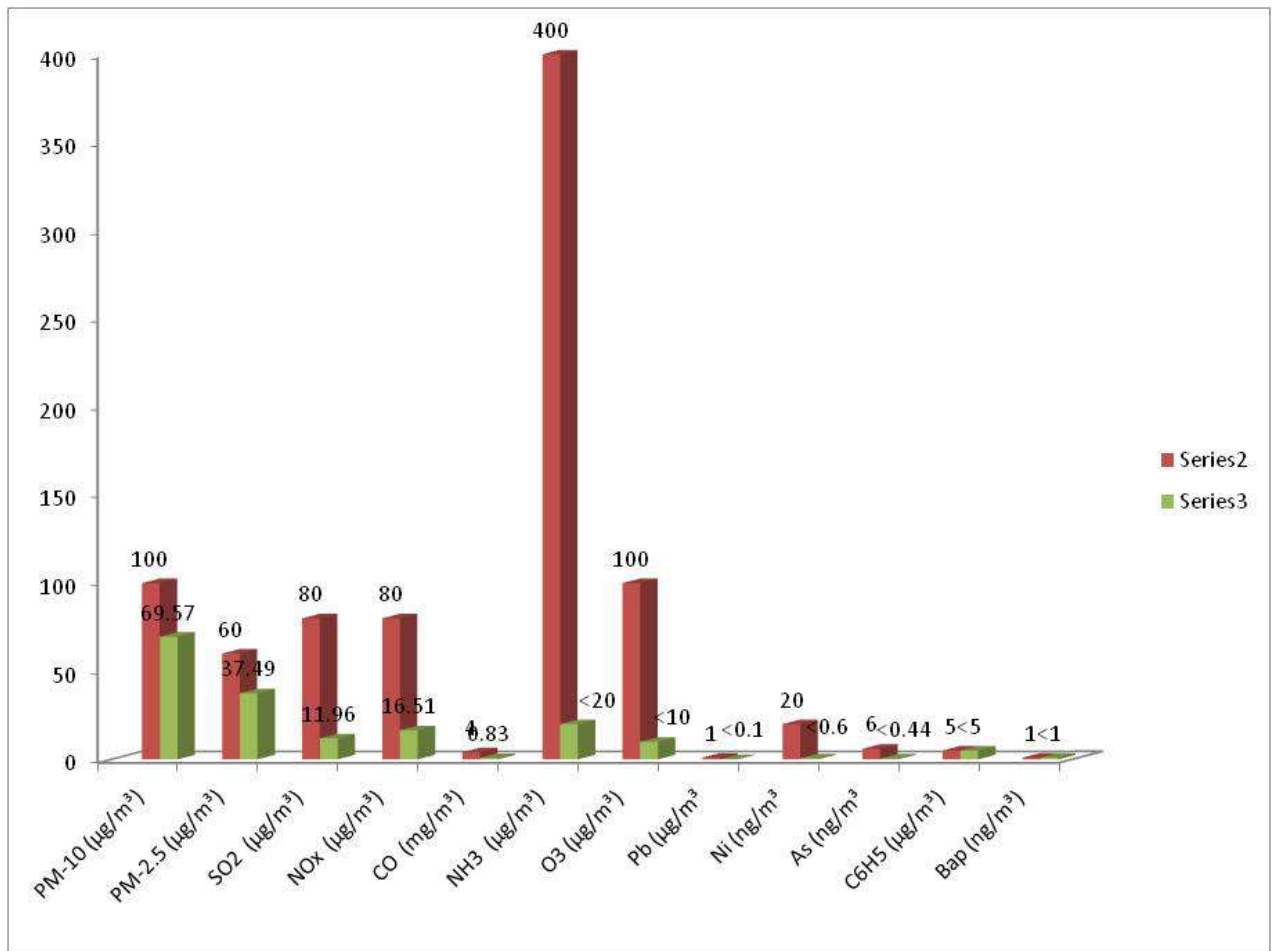
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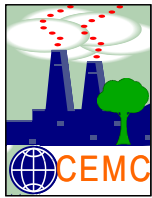
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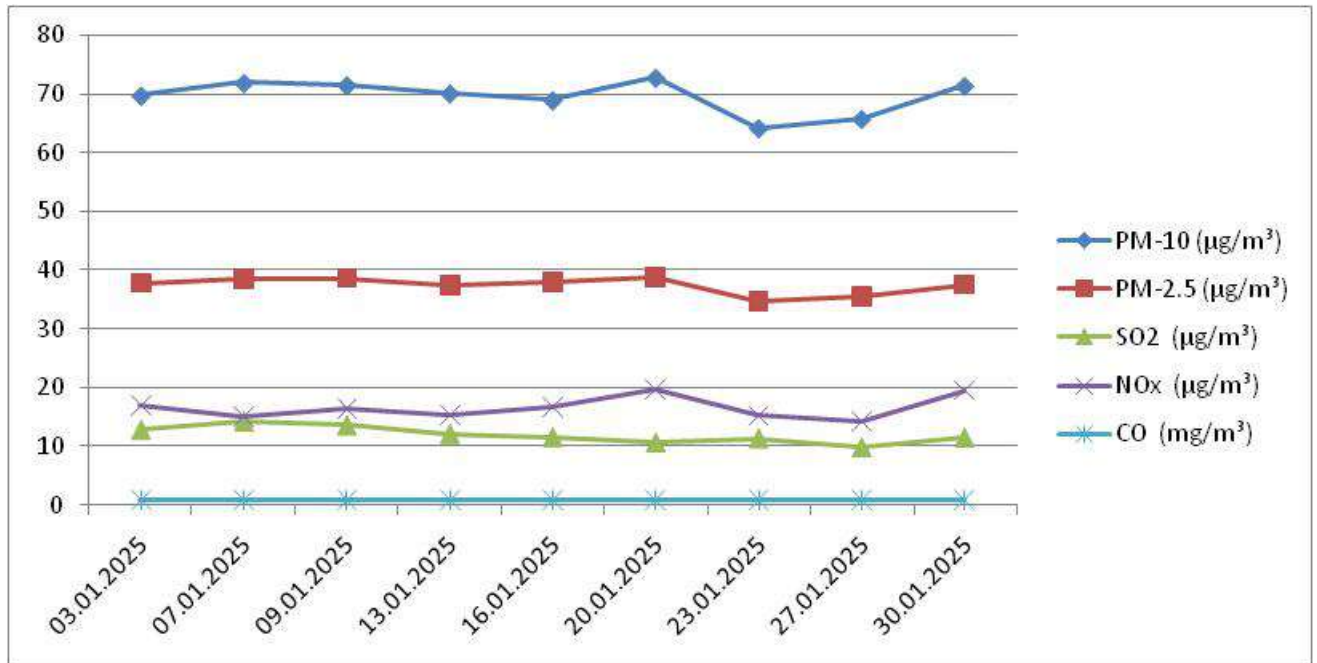
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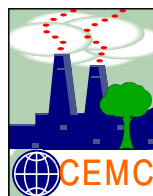
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Report no.-CEMC/TSSEZL/040225/A3

Issued Date-04.02.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04022025A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.01.2025	61.8	33.6	10.77	15.03	0.55	--	--	--	--	--	--	--
07.01.2025	65.7	37.5	9.6	13.08	0.64	--	--	--	--	--	--	--
09.01.2025	72.2	37.7	10.45	14.45	0.66	--	--	--	--	--	--	--
13.01.2025	74.2	42.1	9.11	13.53	0.68	--	--	--	--	--	--	--
16.01.2025	67.9	36.6	10.29	13.45	0.65	<20	<10	<0.05	<3.2	<0.1	<5	<1
20.01.2025	68.3	36.9	7.86	13.16	0.77	--	--	--	--	--	--	--
23.01.2025	70.3	39.6	10.31	13.81	0.84	--	--	--	--	--	--	--
27.01.2025	64.5	34.2	9.19	13.35	0.63	--	--	--	--	--	--	--
30.01.2025	71.2	39.6	10.11	14.21	0.57	--	--	--	--	--	--	--
Avg	68.46	37.53	9.74	13.79	0.67	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

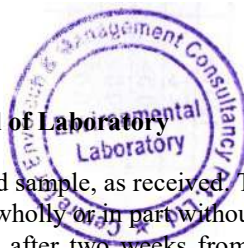
END OF REPORT

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Notes:

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Seal of Laboratory



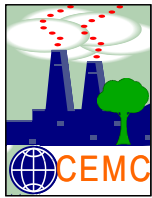
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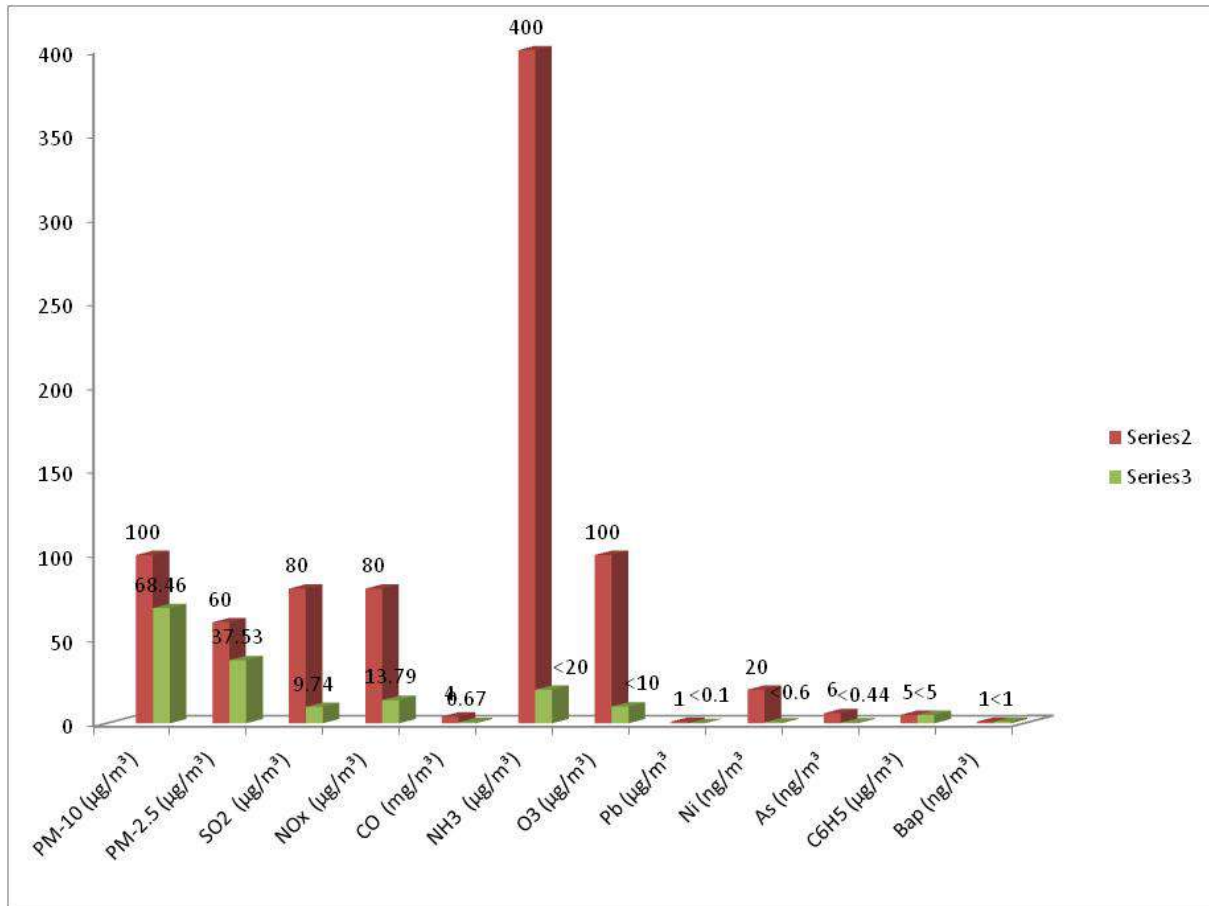
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of January-24

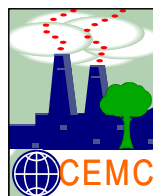
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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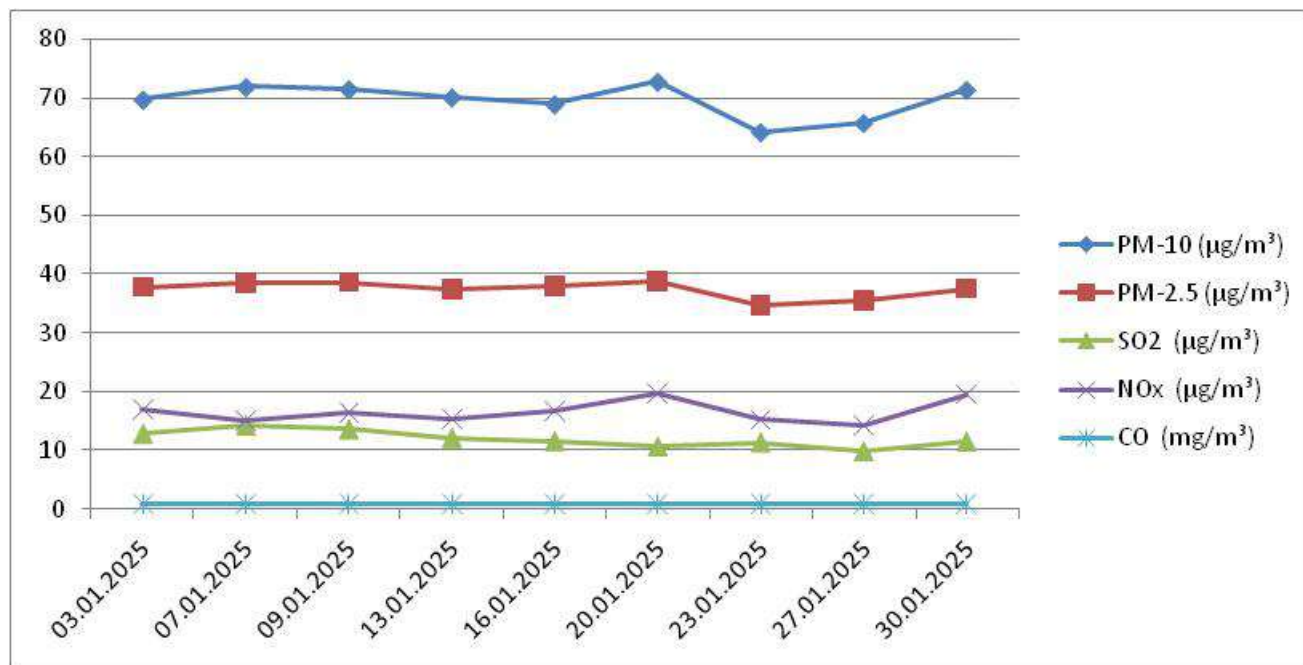
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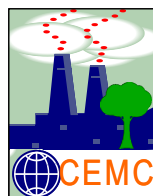
This Graph is belongs to Station-03(Near Main Gate (Chamakhandi)) For the Month of January-25

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Report no.-CEMC/TSSEZL/040225/W1

Issued Date-04.02.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.01.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.01.2025
Date of Analysis : 22.01.2025 to 31.01.2025
Sample Location : Khara Nalla, Up Stream (SW1)
Reference No. : CEMC-04022025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	5
2	pH Value @ 25°C	--	6.5 to 8.5	7.99
3	Turbidity	NTU	--	<1
4	Total Suspended Solids	mg/l	--	5.8
5	Iron as Fe, Max.	mg/l	50	0.2
6	Chloride as Cl, Max.	mg/l	600	42.9
7	Dissolved Solids, Max.	mg/l	1500	360
8	Dissolved Oxygen, Min.	mg/l	4	6.1
9	BOD for 3 days@ 27°C, Max.	mg/l	3	2.4
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	12.8
13	Nitrate as NO ₃ , Max.	mg/l	50	5.0
14	Fluoride as F, Max.	mg/l	1.5	0.41
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	130
25	Faecal Coliform	MPN/100ml	--	7

, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Seal of Laboratory

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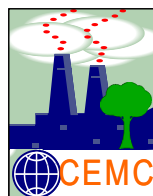
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Report no.-CEMC/TSSEZL/040225/W2

Issued Date-04.02.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.01.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.01.2025
Date of Analysis : 22.01.2025 to 31.01.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04022025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	7.88
3	Turbidity	NTU	--	<1
4	Total Suspended Solids	mg/l	--	8.2
5	Iron as Fe, Max.	mg/l	50	0.24
6	Chloride as Cl, Max.	mg/l	600	46.9
7	Dissolved Solids, Max.	mg/l	1500	386
8	Dissolved Oxygen, Min.	mg/l	4	6.1
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	11.1
13	Nitrate as NO ₃ , Max.	mg/l	50	3.9
14	Fluoride as F, Max.	mg/l	1.5	0.33
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	200
25	Faecal Coliform	MPN/100ml	--	21

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Seal of Laboratory

Notes:

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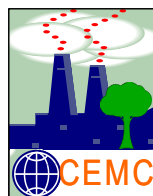
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Report No. - CEMC/ TSSEZL /040225/N

Issued Date-04.02.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04022025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
21.01.2025	Near Project office Gate	63.2	57.8	60.5	56.7	51.3	54.0
21.01.2025	Near main gate(Chamakhandi)	65.8	62.4	64.1	58.4	54.2	56.3

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Seal of Laboratory

Notes:

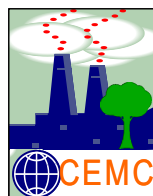
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Report no.-CEMC/TSSEZL/040225/A3

Issued Date-04.02.2025

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04022025A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near Project Office Gate	20.01.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	20.01.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	20.01.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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Report no.-CEMC/TSSEZL/040325/A1

Issued Date-04.03.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

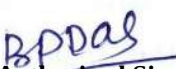
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Project Office Gate
Weather Conditions	Clear
Reference No.	CEMC-04032025A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.02.2025	68.6	35.9	12.85	17.74	0.53	--	--	--	--	--	--	--
07.02.2025	60.8	31.2	12.72	17.79	0.49	--	--	--	--	--	--	--
10.02.2025	61.4	36.5	12.91	17.85	0.53	--	--	--	--	--	--	--
13.02.2025	69.9	41.9	13.08	17.93	0.52	--	--	--	--	--	--	--
17.02.2025	66.3	39.4	13.21	18.22	0.56	--	--	--	--	--	--	--
21.02.2025	65.7	35.8	13.43	18.56	0.61	<20	<10	<0.05	<3.2	<0.1	<5	<1
24.02.2025	68.2	36.4	12.91	17.74	0.53	--	--	--	--	--	--	--
27.02.2025	66.4	35.2	12.72	17.85	0.49	--	--	--	--	--	--	--
Avg	65.91	36.54	12.98	17.96	0.53	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Notes:

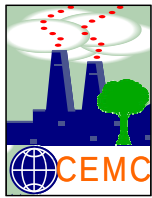
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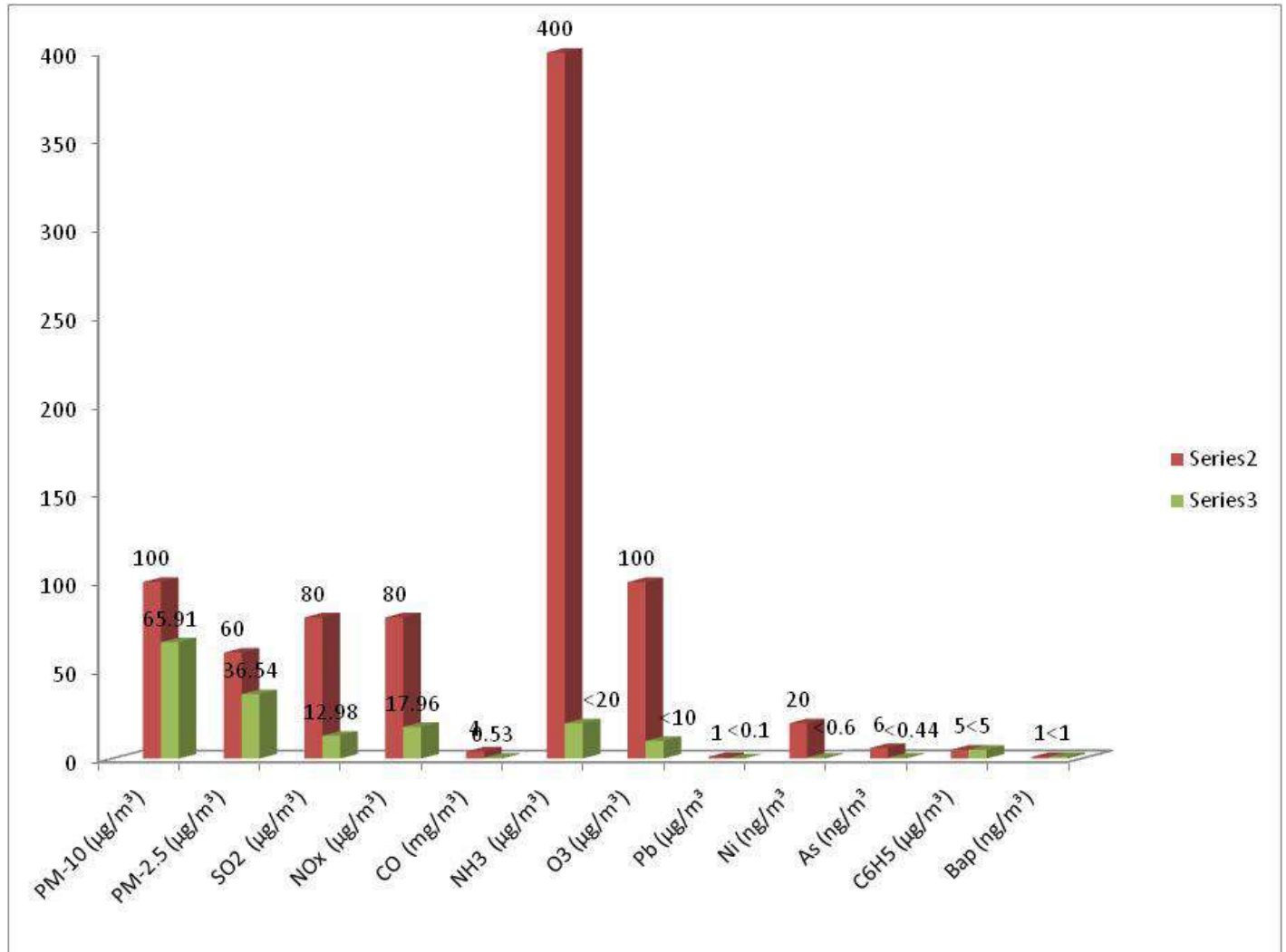
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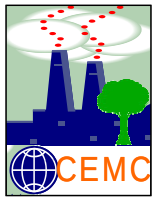
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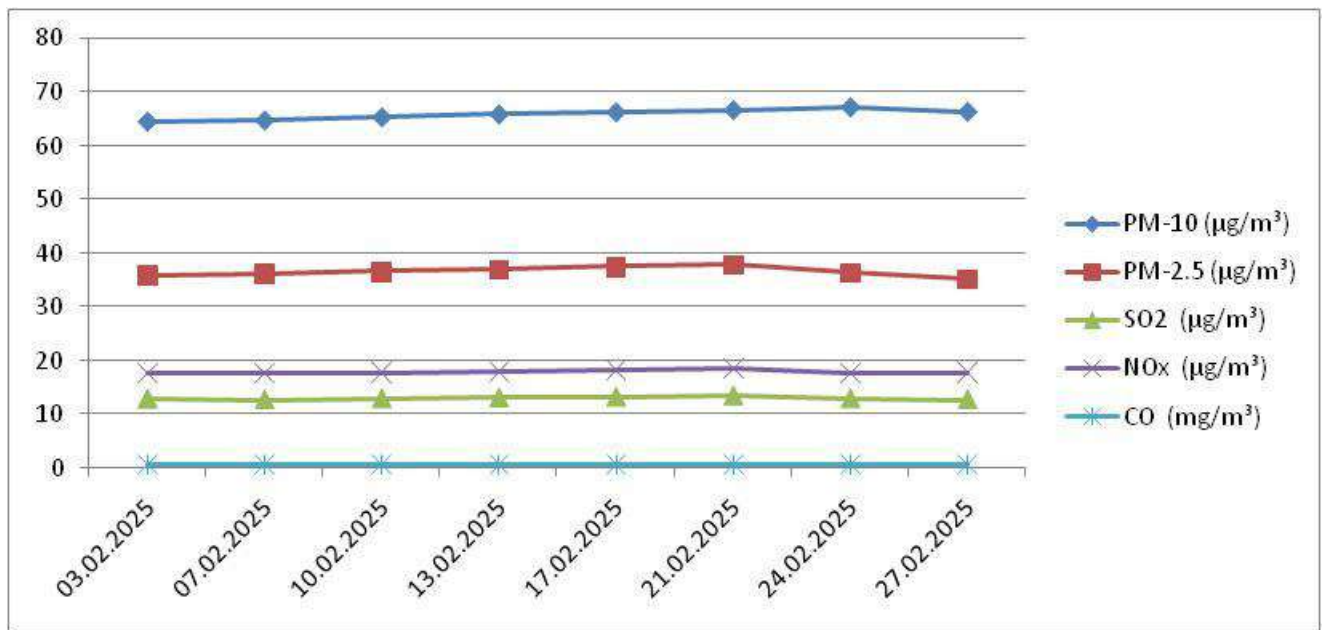
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Report no.-CEMC/TSSEZL/040325/A2

Issued Date-04.03.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04032025A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.02.2025	67.6	38.3	13.24	18.21	0.58	--	--	--	--	--	--	--
07.02.2025	63.8	36.2	12.72	17.32	0.46	--	--	--	--	--	--	--
10.02.2025	65.7	36.8	12.85	17.88	0.53	--	--	--	--	--	--	--
13.02.2025	66.9	37.2	12.96	17.91	0.56	--	--	--	--	--	--	--
17.02.2025	68.3	39.1	13.64	18.49	0.61	--	--	--	--	--	--	--
21.02.2025	67.2	37.7	12.80	17.91	0.51	<20	<10	<0.05	<3.2	<0.1	<5	<1
24.02.2025	64.9	35.6	12.85	17.88	0.55	--	--	--	--	--	--	--
27.02.2025	66.2	36.4	12.72	17.91	0.6	--	--	--	--	--	--	--
Avg	66.33	37.16	12.97	17.94	0.55	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B.- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

R.P.Das
Authorized Signatory

Seal of Laboratory

Notes:

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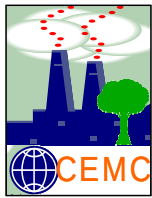
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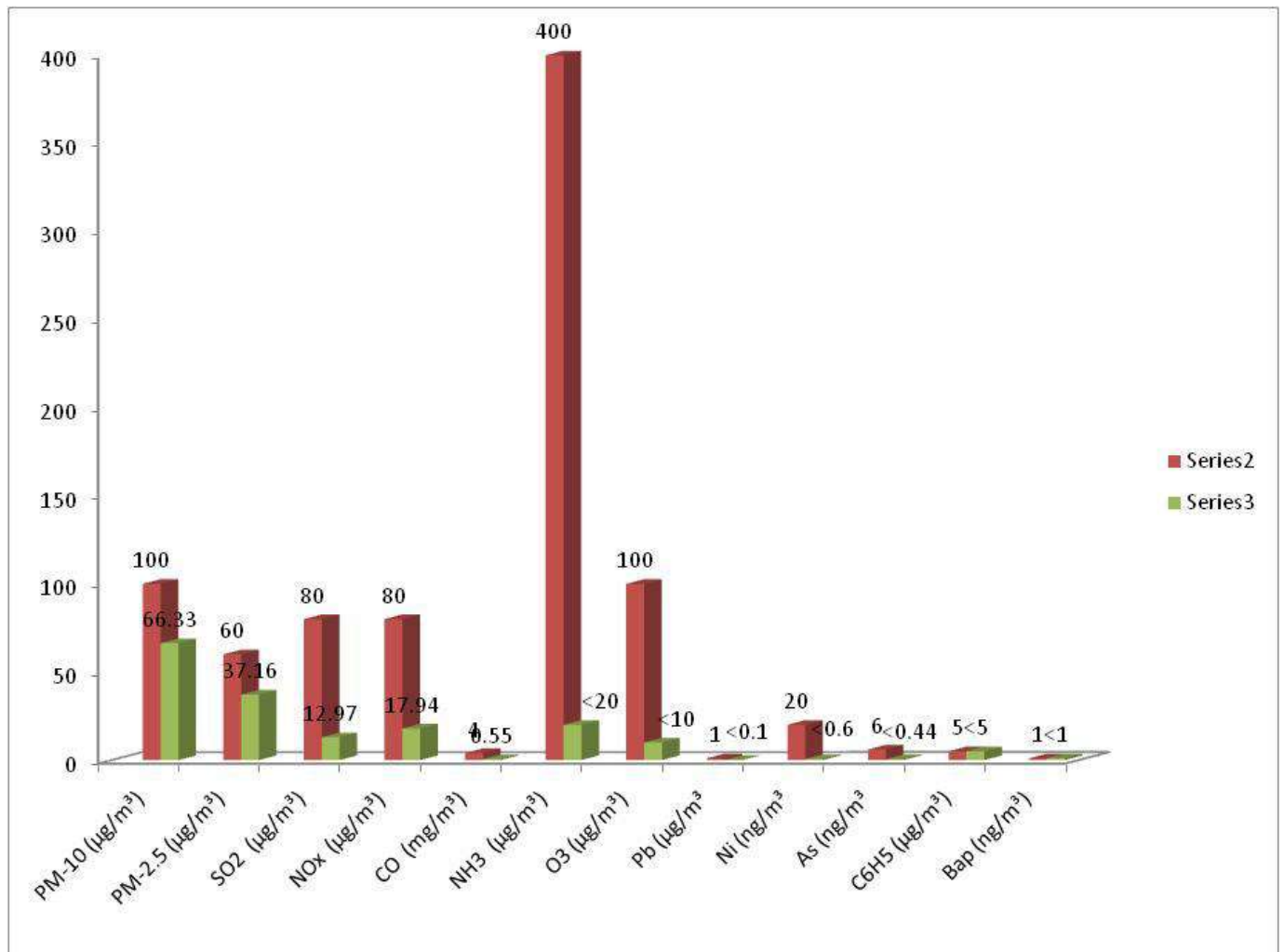
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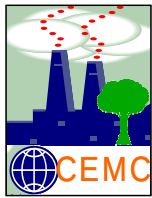
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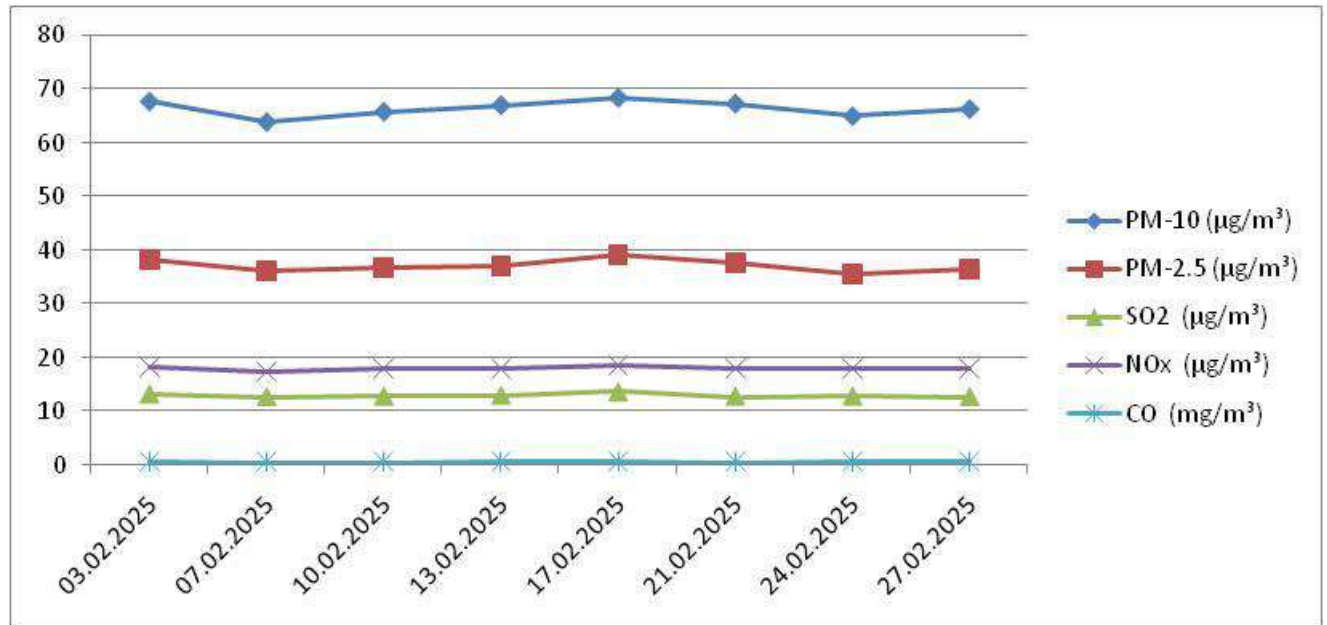
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Report no.-CEMC/TSSEZL/040325/A3

Issued Date-04.03.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04032025A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.02.2025	68.3	35.7	10.32	14.41	0.36	--	--	--	--	--	--	--
07.02.2025	64.8	33.9	10.65	15.56	0.52	--	--	--	--	--	--	--
10.02.2025	65.9	34.5	10.72	15.24	0.54	--	--	--	--	--	--	--
13.02.2025	62.3	32.4	9.34	14.58	0.46	--	--	--	--	--	--	--
17.02.2025	61.4	31.5	9.68	13.62	0.47	--	--	--	--	--	--	--
21.02.2025	66.6	34.8	11.82	15.94	0.38	<20	<10	<0.05	<3.2	<0.1	<5	<1
24.02.2025	63.7	32.6	9.52	13.72	0.41	--	--	--	--	--	--	--
27.02.2025	65.2	33.2	10.28	14.38	0.48	--	--	--	--	--	--	--
Avg	64.78	33.58	10.29	14.68	0.45	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BDDal
Authorized Signatory

Seal of Laboratory

Notes:

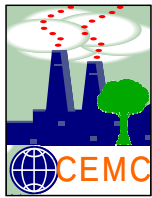
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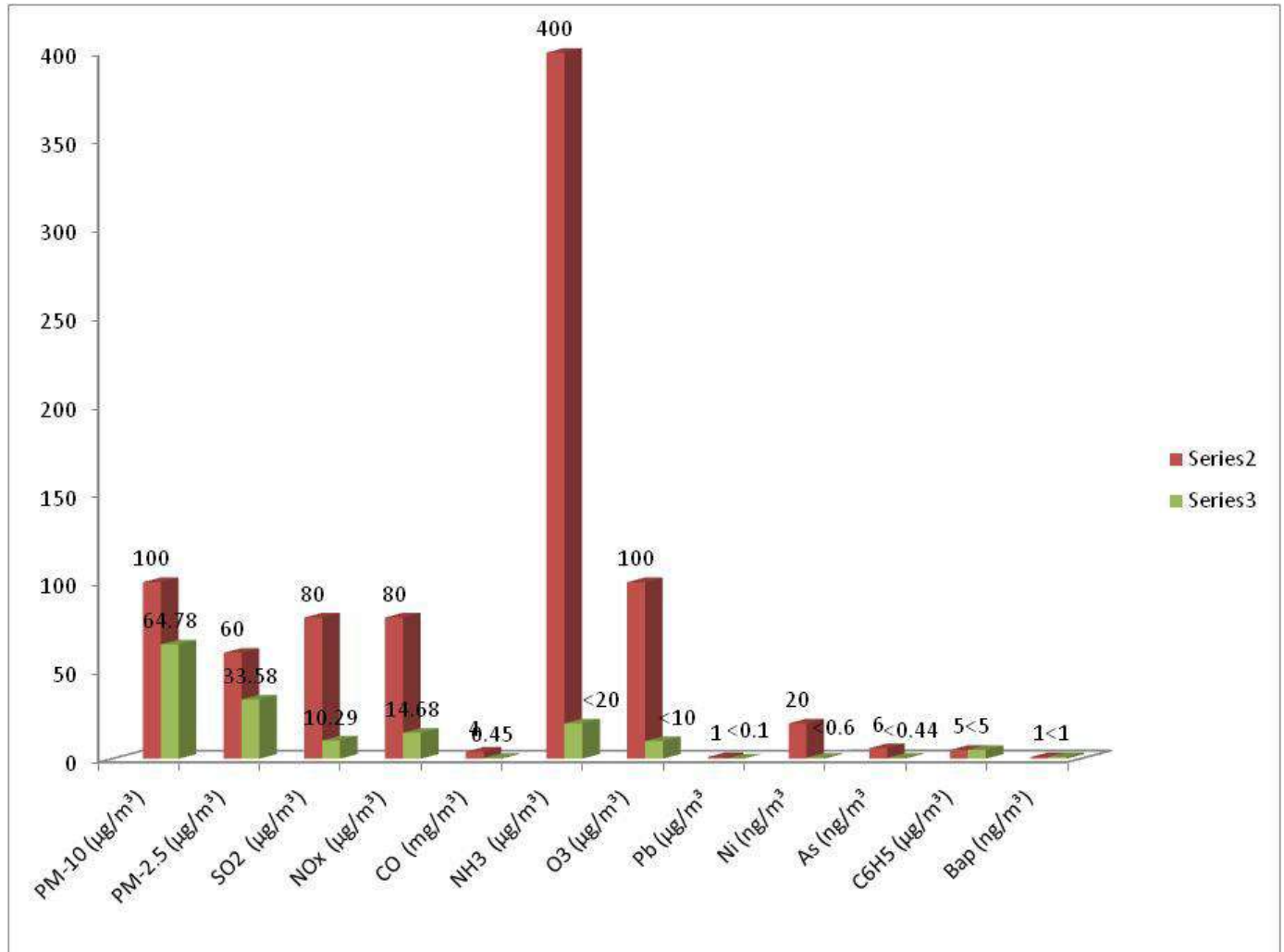
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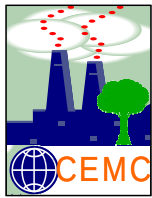
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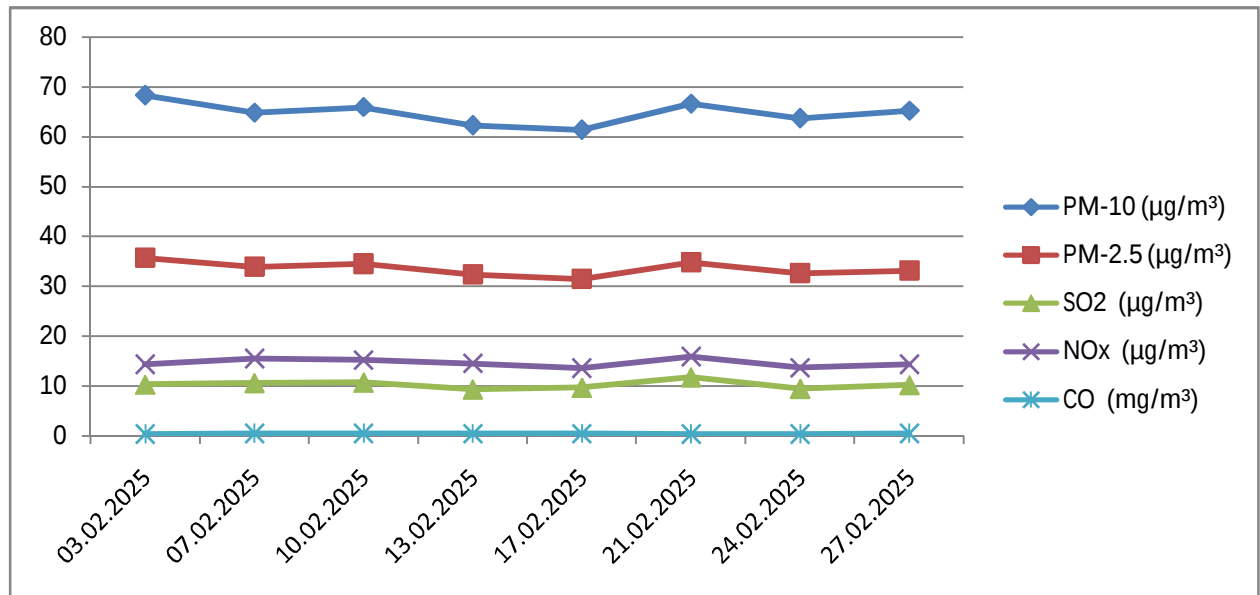
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Report no.-CEMC/TSSEZL/040325/W1

Issued Date-04.03.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.02.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.02.2025
Date of Analysis : 22.02.2025 to 28.02.2025
Sample Location : Khara Nalla, Up Stream (SW1)
Reference No. : CEMC-04032025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	7.11
3	Turbidity	NTU	--	<1
4	Total Suspended Solids	mg/l	--	8.2
5	Iron as Fe, Max.	mg/l	50	0.23
6	Chloride as Cl, Max.	mg/l	600	33.9
7	Dissolved Solids, Max.	mg/l	1500	180
8	Dissolved Oxygen, Min.	mg/l	4	6.0
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	20.8
13	Nitrate as NO ₃ , Max.	mg/l	50	1.8
14	Fluoride as F, Max.	mg/l	1.5	0.14
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	210
25	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

END OF REPORT

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Seal of Laboratory

Notes:

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Report no.-CEMC/TSSEZL/040325/W2

Issued Date-04.03.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.02.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.02.2025
Date of Analysis : 22.02.2025 to 28.02.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04032025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	7.27
3	Turbidity	NTU	--	<1
4	Total Suspended Solids	mg/l	--	9.6
5	Iron as Fe, Max.	mg/l	50	0.32
6	Chloride as Cl, Max.	mg/l	600	49.9
7	Dissolved Solids, Max.	mg/l	1500	190
8	Dissolved Oxygen, Min.	mg/l	4	5.5
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	30.2
13	Nitrate as NO ₃ , Max.	mg/l	50	2.6
14	Fluoride as F, Max.	mg/l	1.5	0.12
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	380
25	Faecal Coliform	MPN/100ml	--	21

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Report No. - CEMC/ TSSEZL /040325/N

Issued Date-04.03.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04032025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
21.02.2025	Near Project office Gate	64.6	60.2	62.4	58.3	53.9	56.1
21.02.2025	Near main gate(Chamakhandi)	69.8	65.8	67.8	61.9	57.3	59.6

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Report no.-CEMC/TSSEZL/040325/A3

Issued Date-04.03.2025

SPECIAL AIR QUALITY MONITORING TEST REPORT

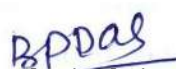
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04032025A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near Project Office Gate	21.02.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	21.02.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	21.02.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Seal of Laboratory

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Report no.-CEMC/TSSEZL/040425/A1

Issued Date-04.04.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

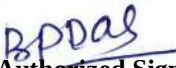
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Project Office Gate
Weather Conditions	Clear
Reference No.	CEMC-04042025A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.03.2025	70.6	37.2	13.61	18.82	0.58	--	--	--	--	--	--	--
06.03.2025	66.2	35.4	13.43	18.24	0.52	--	--	--	--	--	--	--
10.03.2025	72.4	38.6	14.24	18.91	0.56	--	--	--	--	--	--	--
13.03.2025	71.8	39.8	12.88	17.62	0.49	--	--	--	--	--	--	--
17.03.2025	68.6	40.4	13.79	18.73	0.59	--	--	--	--	--	--	--
20.03.2025	69.8	38.2	12.64	17.44	0.63	--	--	--	--	--	--	--
24.03.2025	67.4	39.6	13.16	18.49	0.57	<20	<10	<0.05	<3.2	<0.1	<5	<1
27.03.2025	71.2	40.8	14.66	18.68	0.61	--	--	--	--	--	--	--
31.03.2025	69.4	38.4	14.34	18.42	0.57	--	--	--	--	--	--	--
Avg	69.71	38.71	13.64	18.37	0.57	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

*NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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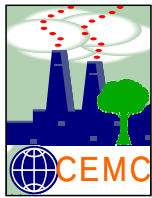
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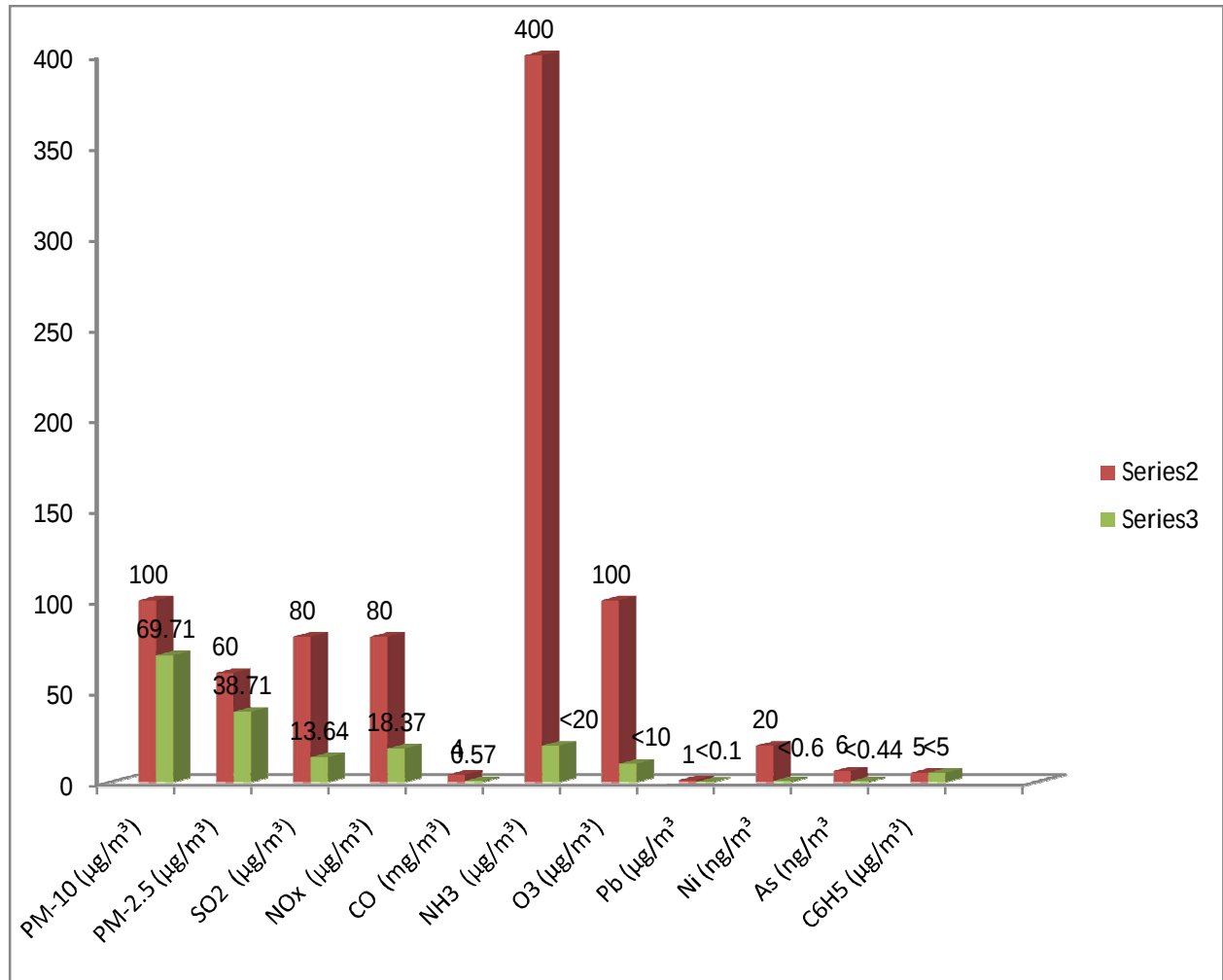
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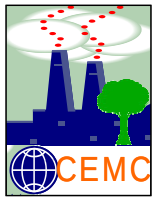
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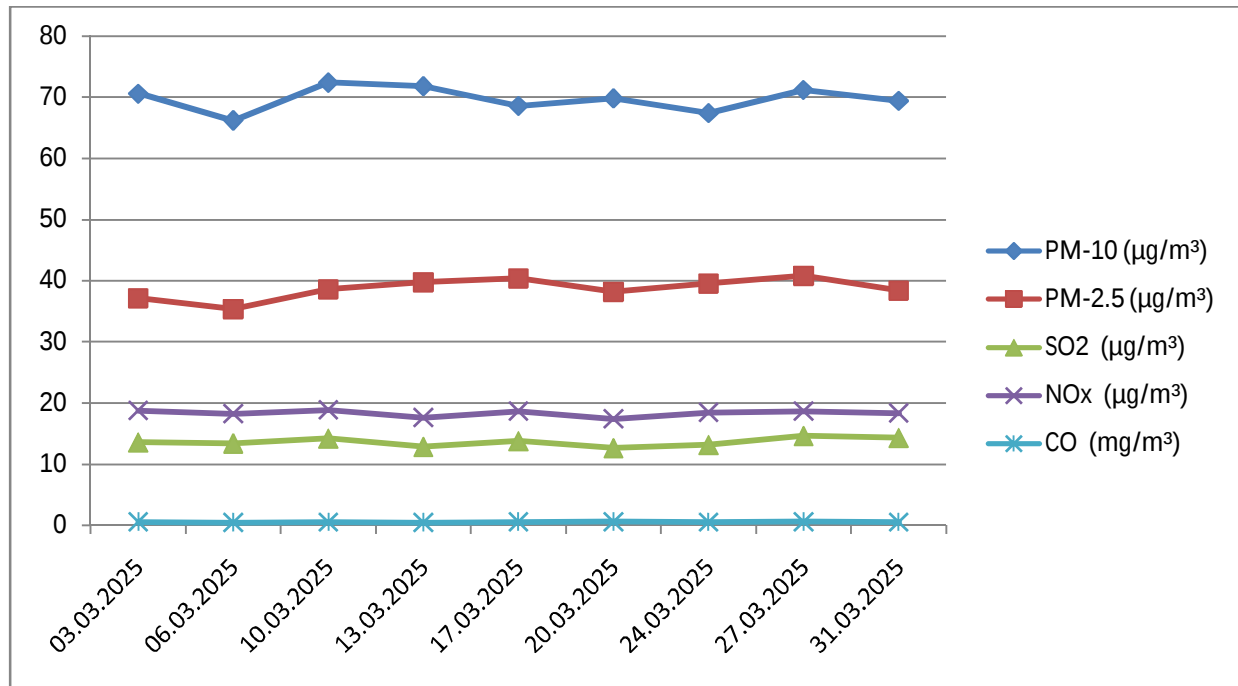
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Report no.-CEMC/TSSEZL/040425/A2

Issued Date-04.04.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-04042025A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.03.2025	71.2	40.6	13.68	18.74	0.61	--	--	--	--	--	--	--
06.03.2025	69.6	39.4	13.24	18.18	0.58	--	--	--	--	--	--	--
10.03.2025	68.8	41.2	13.91	18.62	0.56	--	--	--	--	--	--	--
13.03.2025	70.4	42.8	13.88	18.46	0.54	--	--	--	--	--	--	--
17.03.2025	71.8	41.6	14.21	18.82	0.62	--	--	--	--	--	--	--
20.03.2025	69.2	39.8	13.11	18.23	0.57	--	--	--	--	--	--	--
24.03.2025	68.1	40.2	13.41	18.52	0.58	<20	<10	<0.05	<3.2	<0.1	<5	<1
27.03.2025	70.8	41.8	14.12	18.93	0.64	--	--	--	--	--	--	--
31.03.2025	72.2	42.6	14.44	19.11	0.65	--	--	--	--	--	--	--
Avg	70.23	41.11	13.78	18.62	0.59	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 24)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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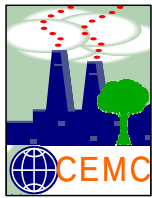
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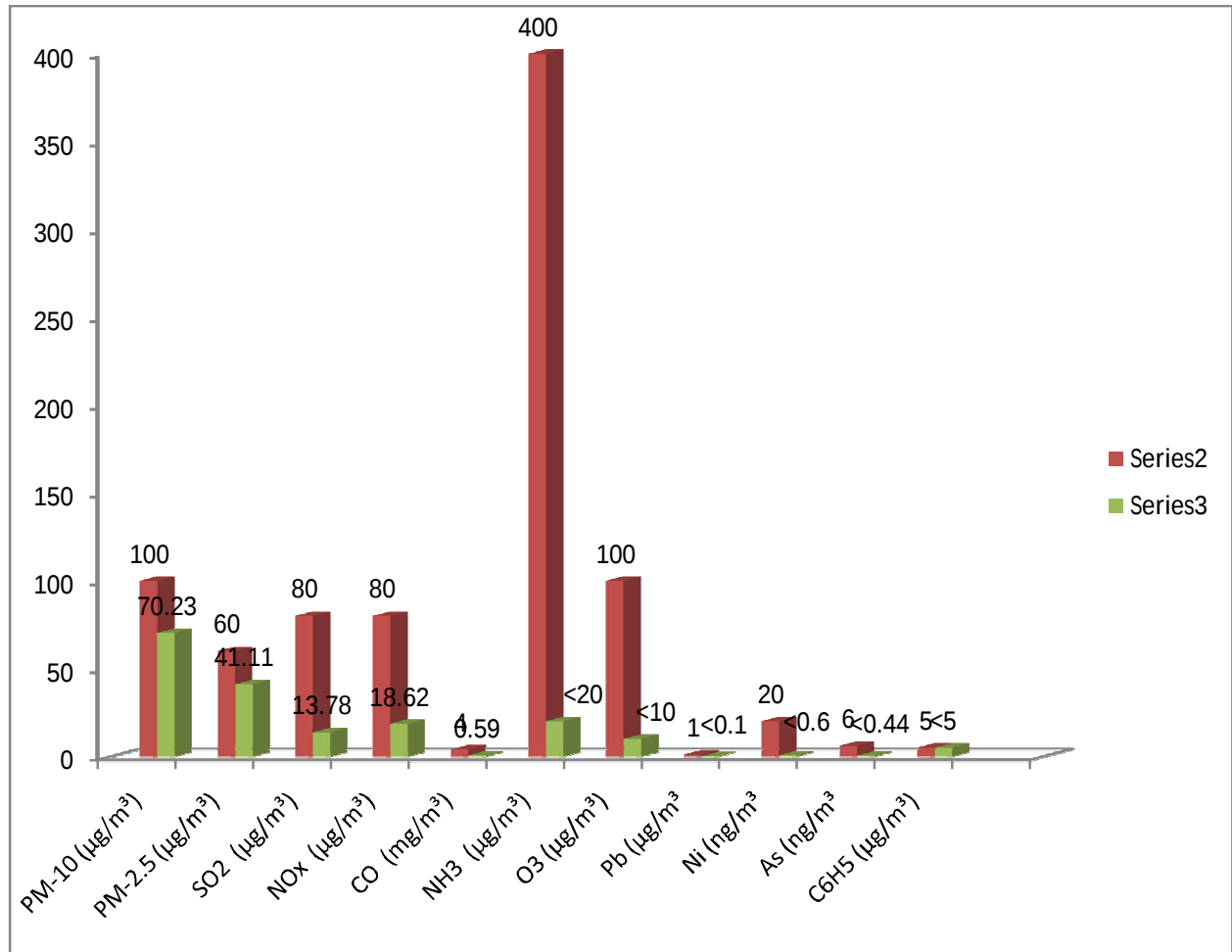
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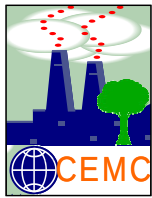
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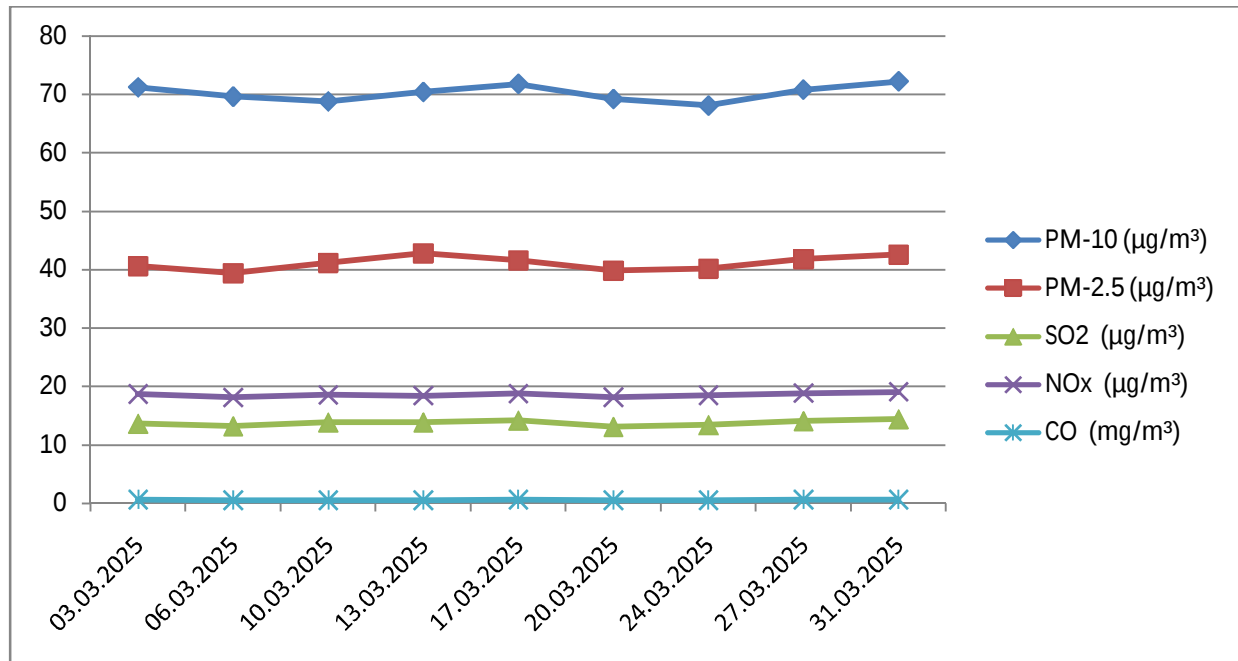
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report no.-CEMC/TSSEZL/040425/A3

Issued Date-04.04.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04042025A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.03.2025	69.8	37.6	11.56	14.98	0.41	--	--	--	--	--	--	--
06.03.2025	68.4	37.2	11.45	15.12	0.48	--	--	--	--	--	--	--
10.03.2025	70.6	39.4	12.12	15.53	0.52	--	--	--	--	--	--	--
13.03.2025	67.2	36.8	11.23	14.73	0.49	--	--	--	--	--	--	--
17.03.2025	65.4	35.2	10.92	13.98	0.51	--	--	--	--	--	--	--
20.03.2025	69.2	36.4	12.34	15.82	0.47	--	--	--	--	--	--	--
24.03.2025	68.8	36.8	11.65	14.61	0.53	<20	<10	<0.05	<3.2	<0.1	<5	<1
27.03.2025	69.6	35.6	11.91	14.89	0.51	--	--	--	--	--	--	--
31.03.2025	67.8	37.8	11.73	14.52	0.52	--	--	--	--	--	--	--
Avg	68.53	36.98	11.66	14.91	0.49	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B.- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


Authorized Signatory


Seal of Laboratory

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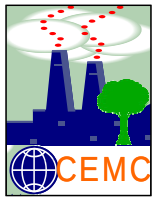
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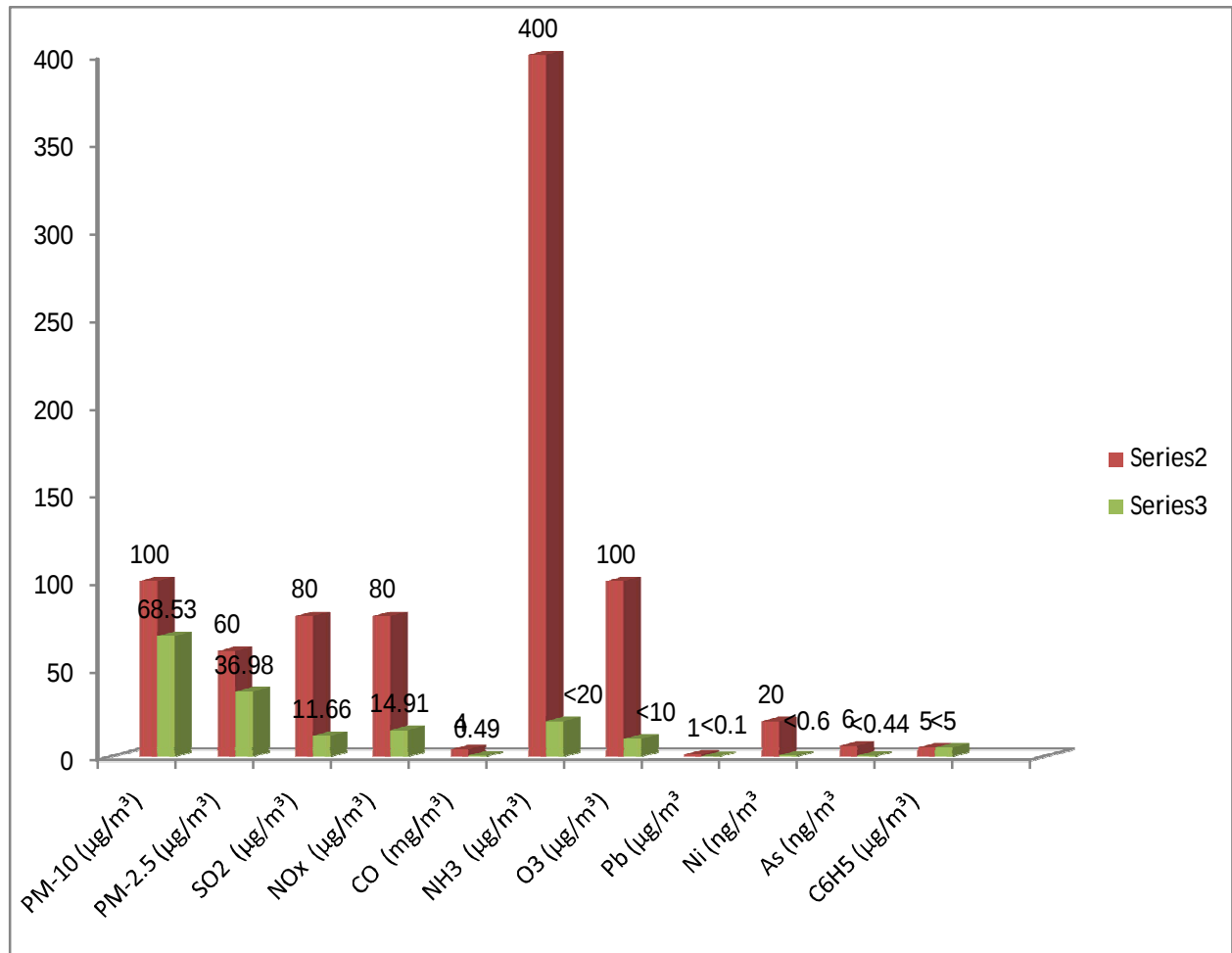
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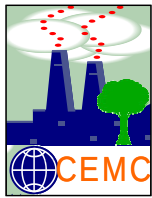
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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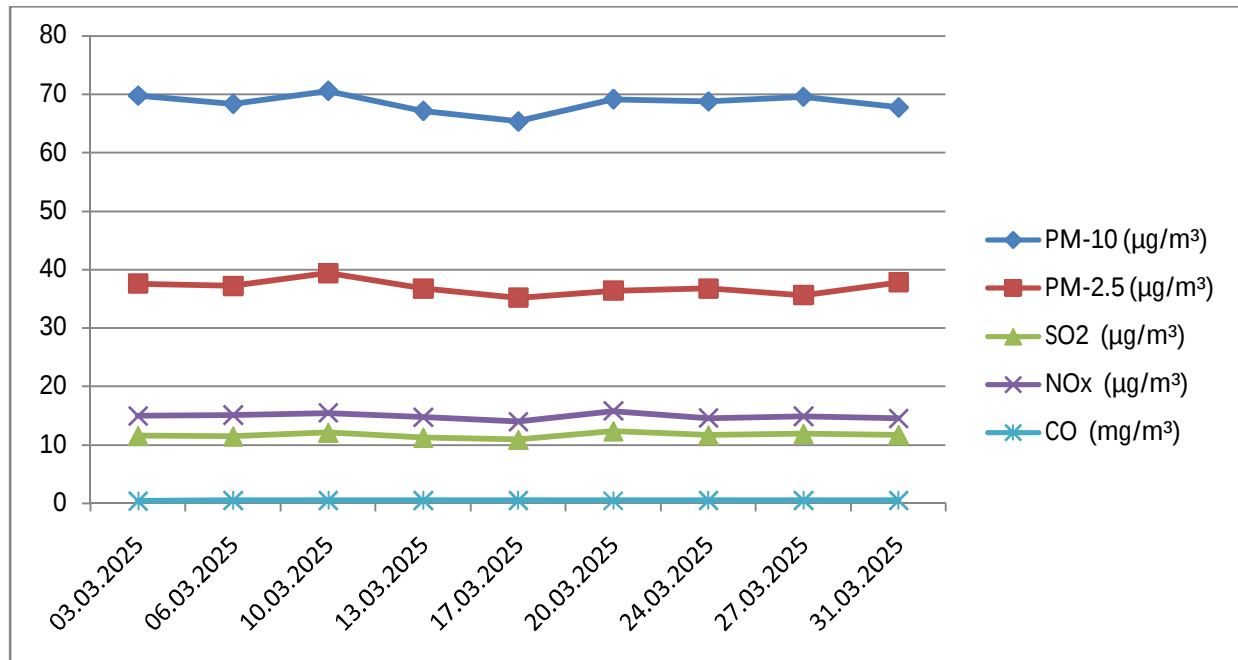
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Report no.-CEMC/TSSEZL/040425/W1

Issued Date-04.04.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.03.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.03.2025
Date of Analysis : 25.03.2025 to 03.04.2025
Sample Location : Khara Nalla, Up Stream (SW1)
Reference No. : CEMC-04042025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	7.05
3	Turbidity	NTU	--	5.9
4	Total Suspended Solids	mg/l	--	7.6
5	Iron as Fe, Max.	mg/l	50	0.24
6	Chloride as Cl, Max.	mg/l	600	34.9
7	Dissolved Solids, Max.	mg/l	1500	220
8	Dissolved Oxygen, Min.	mg/l	4	5.7
9	BOD for 3 days@ 27°C, Max.	mg/l	3	2.4
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	11.4
13	Nitrate as NO ₃ , Max.	mg/l	50	6.2
14	Fluoride as F, Max.	mg/l	1.5	0.42
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	140
25	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Report no.-CEMC/TSSEZL/040425/W2

Issued Date-04.04.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.03.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.03.2025
Date of Analysis : 25.03.2025 to 03.04.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream (SW2)
Reference No. : CEMC-04042025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	6.97
3	Turbidity	NTU	--	9.6
4	Total Suspended Solids	mg/l	--	11.2
5	Iron as Fe, Max.	mg/l	50	0.28
6	Chloride as Cl, Max.	mg/l	600	40.9
7	Dissolved Solids, Max.	mg/l	1500	216
8	Dissolved Oxygen, Min.	mg/l	4	5.7
9	BOD for 3 days@ 27°C, Max.	mg/l	3	2.2
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.005
12	Sulphate as SO ₄ , Max.	mg/l	400	12.4
13	Nitrate as NO ₃ , Max.	mg/l	50	6.8
14	Fluoride as F, Max.	mg/l	1.5	0.46
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.005
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.005
22	Zinc as Zn, Max.	mg/l	15	<0.005
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	220
25	Faecal Coliform	MPN/100ml	--	23

B: ND- Not Detectable, MPN-Most Probable Number

END OF REPORT

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Seal of Laboratory

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Report No. - CEMC/ TSSEZL /040425/N

Issued Date-04.04.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04042025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
24.03.2025	Near Project office Gate	65.2	60.8	63.0	58.8	54.2	56.5
24.03.2025	Near main gate(Chamakhandi)	70.4	66.4	68.4	62.4	57.8	60.1

End of Report

NATIONAL STANDARD NOISE LEVEL

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area*	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


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Report no.-CEMC/TSSEZL/040425/A3

Issued Date-04.04.2025

SPECIAL AIR QUALITY MONITORING TEST REPORT

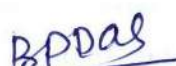
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04042025A3
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near Project Office Gate	24.03.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	24.03.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	24.03.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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E-mail: cemclab@yahoo.in

Departmental Annual Updates (CSR Division)

Dept. Head Name: Mr. Akshya Kumar Nayak	Month / Year: FY 2024-25
Department : TSF, Gopalpur	Date : 15/04/2025

The following are the updates of key initiatives undertaken by our department in this FY 2024-25 additional space/pages may be used as per required.

Key initiatives/activities of this FY 2024-25

Flagship Project - Jyoti Fellowship:

As a part of its Affirmative Action policy, Tata Steel Foundation offers support to the needy and deserving students of SC/ST communities who are pursuing higher education. One such support being provided to meritorious SC/ST students through Tata Steel's Tribal Cultural Society since the mid-1970s was named as Jyoti Fellowship in 2004-05. The structured to cater to high school, intermediate, undergraduate, and post-graduate students from the economically backward SC/ST families, the fund obligated by the company has increased over the years. Jyoti Fellowship extends financial help to students from Kolhan region (East Singhbhum, West Singhbhum and Seraikela, Kharsawan districts), Jamadoba and West Bokaro of Jharkhand. Similarly, in Sukinda, Bamnival, Joda, Gopalpur, Kalinganagar, Gomardih and Katamati of Odisha. Tata Steel's Tribal Cultural Society identifies deserving candidates from operational areas of the company based on a merit test. In FY, 2023-24, 544 students were awarded with Rs.49,41,000 (Rupees Forty-Nine Lakh Forty one Thousand Only) through auto renewal process. This FY' 23-24 TSF Gopalpur awarded scholarship to 605 students with an amount of Rs 49,41,000/-



Fact sheet of jyoti fellowship In FY 2024-25

Sl. No.	Class	Total Students	Rangeilunda Block	Chatrapur Block	Award Amount in Rs	Total Award Amount in Rangeilunda Block (Rs.)	Total Award Amount in Chatrapur Block (Rs.)
1	7th	118	8	110	6,000.00	48,000.00	6,60,000.00
2	8th	234	85	149	6,000.00	5,10,000.00	8,94,000.00
3	9th	115	41	74	9,000.00	3,69,000.00	6,66,000.00
4	10th	57	18	39	9,000.00	1,62,000.00	3,51,000.00
5	11th	15	5	10	18,000.00	90,000.00	1,80,000.00
6	12th	16	10	6	18,000.00	1,80,000.00	1,08,000.00
7	Degree 1st year	14	2	12	25,000.00	50,000.00	3,00,000.00
8	Degree 2nd year	21	9	12	25,000.00	2,25,000.00	3,00,000.00
9	Degree 3rd year	15	6	9	25,000.00	1,50,000.00	2,25,000.00
		605				17,84,000.00	36,84,000.00
	Total Award Amount						54,68,000.00
	Program Admin cost						1,50,000.00
	Grand Total						56,18,000.00

Guidelines:

1. A student must belong to Scheduled Tribe or a Scheduled Caste.
2. Economic Group: Below Poverty Line (BPL-60%) and Above Poverty Line (APL-40%) for School level only.

- Gender: Girls (25% reservation) for school level only.

Mode of Selection:

- Merit test at various levels: Class VII/VIII, Degree (First Year).
- Renewal of fellowship from class VIII to Class XII subject to minimum 45% marks scored in annual examination conducted by the school. Once selected, a student is eligible for renewal in the subsequent years till the completion of the course if the candidate gets promoted.
- Selection of P.G/L.L.B/Diploma/Polytechnic/Professional courses on the basis of marks secured in minimum eligibility exam, e.g. – Matriculate, Diploma course, Graduation for MBA/MCA etc.

What the Fellowship offers?

- All students who receive the fellowship get the fellowship amount annually subject to fulfilment of the set criteria.



- A computer tablet is given to toppers at the school and college level. Based on a certain cut-off percentage of marks, few students from each location are short-listed by Tata Steel foundation and are awarded with tabs with pre-loaded NCERT syllabus up to Std X.

- All the students who clear the cut-off for the Class VII Merit test and are eligible to receive Fellowship also get a certificate and a gift which could be a solar lantern / a

wristwatch/Tablet/Laptop.

Primary Learning Centre (PLC):

Total Running of PLC Centers	1st Class		2nd Class		3rd Class		4th Class		5th Class		6th Class		7th Class		TOTAL IN NUMBERS		CASTE IN NUMBERS				
	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	ST	SC	OBC	GEN	Total Students
	118	120	75	76	72	98	78	93	94	68	75	90	72	78	584	623	22	449	501	235	1207

Program Details:

- Running Primary Learning Centers:** In the past year, our primary learning centers continued to thrive, providing quality education to young minds. We expanded outreach, reaching more communities and ensuring access to foundational learning for children.
- Organizing Teachers' Training:** A key focus was empowering our educators through comprehensive training programs. Workshops, seminars, and online courses enhanced teaching methodologies, ensuring our teachers stay abreast of the latest pedagogical techniques and maintain high standards in the classroom.
- Organizing Children Mela:** The Children Mela was a resounding success, providing a platform for our students to showcase their talents and creativity. Through art exhibitions, performances, and interactive games, the Mela not only entertained but also promoted holistic development, creating a joyful learning environment.
- PTM (Parents Teachers Meeting):** The objective of organizing the Parent-Teacher Meeting (PTM) is to foster better communication and collaboration with parents ,teachers, PRI ,VDC members providing an opportunity to discuss the progress, challenges, and opportunities for students. The Parent-Teacher Meeting served as a valuable platform for strengthening the partnership between home and school in promoting student success. By fostering open communication, providing personalized feedback, and offering resources for parental support, the PTM contributes to the holistic development of students.

Outcomes and Impact:

- Increased enrolment in primary learning centres, emphasizing our commitment to education accessibility.
- Elevated teaching standards with ongoing professional development for educators.
- Strengthened teacher-student relationships through the celebration of Teachers' Day.
- Enhanced the overall learning experience for children through the engaging Children Mela.

Future Initiatives:

While we celebrate our achievements, we recognize the challenges ahead. Future initiatives include expanding learning centers, integrating technology into teaching practices, and collaborating with local communities for sustainable development

Computer & English Learning Centre through NIIT Foundation.

Background

NIIT Foundation (NF) in collaboration with TATA Steel Foundation has been successfully running 4 Skill Development Centres in Odisha starting from 2014. Since then, the Centres have positively impacted more than 3,000 beneficiaries along with their family members and the local communities. The Centres have been providing training in various skill courses to the students helping them enhance their skill sets in IT and soft skills.

Project Overview

The TATA Steel Foundation - Skill Development Centres (SDC) caters to the requirement of IT and soft skills among the vast employable population residing in and around rural areas of Sukinda and Joda in Odisha and West Bokaro, Sijua and Jamadoba in Jharkhand. Through this initiative, Tata Steel Foundation will continue to raise the target population's education standards, leading to overall community development in the long run.

With the experience of running the Centres for more than 10 years now, NIIT Foundation will continue operations of skilling courses in **2 existing centres in Odisha and set-up 4 new centres in Jharkhand & Odisha.**



Objective:

1. Provide end to end solution to the skilling needs of the community through SDCs.
2. Provide certified courses for students and youth in the community through SDCs.
3. Impart skilling for enhancing digital literacy and knowledge

TATA STEEL FOUNDATION, GOPALPUR UNIT						
Computer & English Learning Centre through NIIT Foundation at Narendrapur						
Sl. No.	Program	Course Details	Duration	Eligibility	Target in FY 2024-25	Achieved
1	Skilling Courses	Basic IT	3 months	Minimum 8th pass, 14 years of age, able to read and understand simple English	128	141
2		Advanced IT	3- 4 months	Minimum 12th pass, 18 years of age, able to read and understand simple English and have Basic Idea of Computer.	64	62
3		English Foundation	6 months	Minimum 8th pass, 14 years of age, able to read and understand simple English	96	86
4	Awareness Courses	Digital Literacy, Cyber Security	20 hours	Minimum 12th pass, 18 years of age, able to read and understand simple English and have Basic Idea of Computer.	144	168
Total					432	457

Livelihood Agriculture (Sustainable livelihood Development through Climate Resilience practices):

Ganjam district in Odisha is predominantly an agriculture-based economy. Negligible industrialization has taken place and hence manufacturing activities are rare in the region. People are mostly employed in agricultural



activities as farmers (landowner or leaseholder). Many also work as agricultural labors. The main occupation of people in the area is agriculture (paddy as a mono crop) and Kewda (an aromatic plant called as screw pine) cultivation. However, the population is mostly dominated by landless, marginal or small land holders. Kewda is a major source of income for people in TSF periphery. Income from Kewda has undergone a severe downfall in the market for the past two-three years. However, of late, a better market is emerging from this year.

Due to lack of irrigation facilities, cultivation of rabi and summer crops are not widely done in many of the peripheral villages. However, non-farm interventions like fishery, mushroom and dairy have a great potential to become supplementary sources of livelihood for people in this area. Prioritizing the need of the area and people, various interventions are being carried out by Tata Steel Foundation. The aim is to achieve socio-economic development in this area.

Being a CSR arm of Tata Steel Ltd, Tata Steel foundation has been emphasizing on building human capital and imparting knowledge and skills to individuals and groups (SHGs) interested in initiating livelihood activities and bettering the existing ones. It is a fact that, people are not getting good income because they have lack know-how for maximum production. To address this gap, efforts have been made to impart knowledge and skills and involve them into dignified, meaningful and sustainable livelihoods.



For the past over nine years, Tata Steel foundation has been making earnest efforts to help people in adopting sustainable livelihood means in peripheral villages. With an objective to promote livelihoods, TSF extends support in the form of capacity-building trainings, exposure visits and critical inputs for agriculture and allied interventions, job-based skill development trainings and micro-entrepreneurship (non-farm) development. While implementing such initiatives, the strategy of TSF is very clear from the beginning that whatever it would do, it would be in participatory approach and in no way 100% grant would be given to the beneficiaries for livelihood interventions. It was also clear that there would be no discriminations in the process and support between peripheral and displaced communities in this context, TSF succeeded in mobilizing people and generating contributions worth 30-40% of the total cost of the projects including dairy, poultry, pisciculture and other than non-farm micro enterprises.

Geographical area of Agriculture & Allied interventions in Gopalpur unit:

Sl. No.	Block	Nos of GP	Nos of villages
1	Rangeilunda	8	21
2	Chhatrapur	14	68
3	Purusotampur	2	4
4	Ganjam	8	30
5	Rambha & Gopalpur NAC		2
6	Hinjilicut	7	12

7	Aska	3	5
8	Sheragad	7	24
9	Kukudakhandi	1	2
	Total	50	167

Promotion of System of Rice Intensification:

With an aim to increase the production and productivity of paddy of farmers in its operational area, Tata Steel Foundation started promoting of SRI (System of Rice Intensification) and line transplanting since from the year 2014-15. During 2024-25, a total of 14,000 acres (20,000 farmers) was brought under SRI paddy cultivation. To Increase the income of farmers through diversified farming has been introduced in kharif season with cultivation of vegetables in 6500 Acre, Maize in 600-acre, millet in 120 Acre, foot yam in 300 Acre & Betel vine in 60 Acre respectively associated with 20,000 farmers during Kharif 2024-25

Key Highlights:

Promotion of Farm Mechanization:

To extend and subsidized farm mechanization with the objectives to reduce the cost of cultivation and TSF, Gopalpur, had provided 475 Power Sprayers during this financial year on 50% contribution basis.



Disease Pest Management through Biological Method:

The farmers have been trained on scientific cultivation practices and use of Pheromone trap, Yellow card and Biofertilizer through biological method to increase production and reduce in cost of cultivation. Trainings have been imparted in collaboration with the Government Agriculture Department and Krishi Vigyan Kendras (KVKs). The various capacity building training programs on IPM (Integrated Pest Management) and INM (Integrated Nutrition Management) have been conducted with 2067 small & marginal farmers in the TSF periphery villages.



Way forward:

1. Scaling up of promotion of System of Rice Intensification program and reaching out 25,000 famers in the next two years.
2. Promotion of cultivation of second crops like oilseeds, pulses, vegetables, maize, Betel vine, Foot yam and other viable new crops to increase the farm income by using residual moisture.
3. Carry forward the outcome of the project and scale up the interventions through farmers' network with different government departments, agencies and institutions

Result Discussion:

The Crop cutting experiments have been undertaken in the randomly selected field of farmers of different villages in presence of ADM, Chatrapur, Government line departmental officials like Block Agriculture Officer (BAO), VAWs, Revenue Officers and Panchayat Representatives in the paddy field of different varieties of randomly selected (5X5) sqm size patch and crop cutting took place in the treated paddy field. The farmer s undertaken line transplanting and applied bio-fertilizer PSB and Azosparillium in the treated plot and also had used Yellow card and Pheromone Trap for restricting disease



infestation. The average yield increased in a treated plot against a traditional plot method is 28%

Promotion of pulses, oilseed & vegetables:



With an aim to increase the cropping intensity and getting additional income by using the residual moisture in the soil during rabi season in its periphery villages, Tata Steel Foundation, started promoting cultivation of Green Gram, Groundnut and vegetables since 2016 through awareness meeting and training. A total of 14980 acres (14980 farmers) was brought under cultivation of second crops (Green Gram in 5250 acres, Groundnut in 1650 acres, Black Gram 1500 acre, Rabi vegetable 6100 acre and maize 480 acre) in 167 villages of 08 blocks & Rambha NAC of Ganjam district.

Key Highlights:

1. A total of 20,000 farmers and 30 community resource persons have been trained on packages of practices and use of modern technology to increase the crop yield. Both on farm and classroom trainings have been subsidize in collaboration with the Government Agriculture Department and Krishi Vigyan Kendra.
2. Various capacity building programs on IPM (Integrated Pest Management) and INM (Integrated Nutrition Management) have been undertaken with a special focus on Community Resource Persons (CRPs) and farmers.

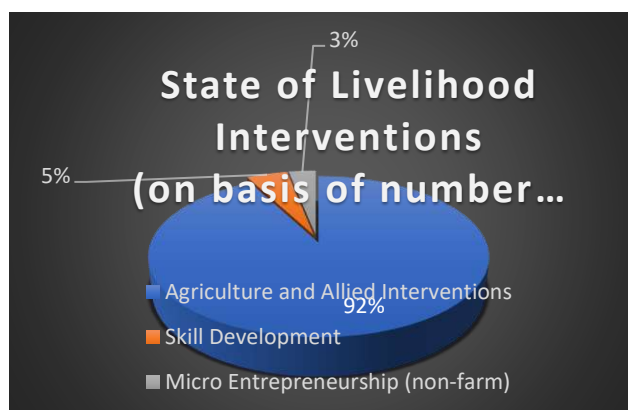
Challenges:

1. Lack of irrigation facilities in the periphery villages is one of the major challenges towards the adoption of the second crop.
2. Due to erratic rain fall the harvesting of paddy crop is also major challenges for the farmers leading to lodging of crop in the field which decreases the productivity and income.

Dairy Development:

(A Move towards Sustainable Alternative Livelihood)

In FY 2024-25, Tata Steel Foundation, Gopalpur, initiated Dairy Development Program as an alternate source of livelihood for the periphery villagers. Initially, farmers didn't have quality milch animals, thus, TSF on contribution basis, gave 10 cross breed milch animals to 10 farmers of Brajnagar village in FY 2013-14. Seeing the success of Brajnagar and to meet the request of farmers from Tata Rehab Colony, TSF, on contribution basis, gave 15 cross breed milch animals to 15 farmers. In continuation to the same, TSF gave 2nd cross breed milch animal on contribution basis to selected 6 farmers of Tata Rehab Colony and 9 cross breed milch animal to 9 farmers of Narendrapur Village in FY 2015-16.





The objective of providing support to farmers in the purchase of cross breed milch animal was to link the farmers with OMFED (**Odisha State Cooperative Milk Producers Federation Ltd**) where the farmers can sell milk 365 days in a year and can avail right price of their milk based on SNF and fat parameters. Apart from milk collection, OMFED also conducted cattle health camp at each society in a three-month interval, providing cattle feed, mineral mixture at a 7 subsidized rate to farmers, promotion of Azolla cultivation, fodder cultivation etc.

TSF, Gopalpur, in collaboration with OMFED, started two milk producers' societies at New Sindhigaon Milk Society at Tata Rehab Colony and Brajanagar Milk Society, Brajanagar, in FY 2014-15. On the success of both the societies, TSF opened a new milk society at Narendrapur village in the FY 2015-16 and FY 2016-17 at Sindurapur and New Laxminarayanpur. Under the flagship program, NDDB (National Dairy Development Board) is providing an incentive Rs 2000 – 2,500 pm to the five society secretaries for milk collection, record keeping and sample testing. A 2000-liter capacity of Bulk Milk Cooler has been established at New Sindhigaon, in collaboration with OMFED & NABARD in FY 2016-17. Milk collected from the societies Narendrapur, Sundarpur, NewSindhigaon, New Laxmi Narayanpur is stored at BMC and from there it is transported to OMFED, Ankushpur factory, through their tankers.



Milk Collection: 8,47,420 liters as on 31st Jan 2025 through 12 nos. Milk Collection Centers & MPCS

Training & Dairy Farmers Exposure visit to OMFED



A two-days training and exposed farmers to OMTDC & ICAR-CIWA, focusing on dairy development and Climate Resilience practices with an objective to enhance additional income through dairy development, cross-breed cow & cattle management, and fodder development, black Bengal goat farming, integrated models, hydroponic fodder cultivation, and drone demonstrations of INM & IPM applications, enriching their knowledge for sustainable agricultural practices and climate resilience held from 8th & 9th Nov 2024

- Two days training & field visit of farmers from TSF, Kalmong was organized on promotion of Agriculture & allied enterprises participated with 28 farmers of Keonjhar district.





Workshop on Convergence with Govt. Line Departments: With an objective to carry out the Govt ongoing schemes in TSF vicinity, TSF, Gopalpur successfully hosted a workshop on Convergence with Government line Departments at Rushikulya Conference Hall, Chatrapur held on 13th Nov 2024 participated with district & block level officials of Directorate of Agriculture & Food Production, Directorate of Horticulture and Fisheries & Animal Resources Development Department, Govt of Odisha along with CRPs.

Commercial Fish Farming:

Keeping in view the large number of water bodies in Ganjam district Tata Steel Foundation, Gopalpur, decided to initiate pisciculture as an alternative source of livelihood for the people. Thus, a pilot project was started in 2013-14 in which 10 ponds of six villages were taken with technical support by College of Fisheries, OUAT, Rangailunda, Ganjam district, followed by an exposure visit to Central Fresh Water Aquaculture (CIFA), Bhubaneswar.



Following the success of the pilot project, it was scaled up to 197 ponds in 92 villages. In the first two years, the fish farmers were provided capacity building trainings and critical input support (feed, medicines etc). Onwards, they were left to continue it on their own investment. TSF only provide technical support through training & exposure visit and critical inputs like medicine, plankton growth promoters whenever required/as prescribed during sample netting/sample checking.

Key highlights

- Technical know-how of standard practices of pisciculture was imparted to fish farmers with the support of College of Fisheries, Rangailunda, CIFA (Central Institute for Fresh Water Aquaculture), Bhubaneswar.
- About 150 acres of water body has been covered so far. A total of 375 farmers have been benefited by this.
- Selected farmers have been taken for exposure visits to KVKs for commercial fish farm and integrated farming.
- Special focus has been given for promotion of Indian Major Carps (Rohu, Katla and Mirgal).

Way forward:

- To motivate farmers for adopting standard package of practices in community ponds and use them for pisciculture to get additional income for the community.
- To link with reputed input suppliers and government agencies/institutions for sustainability of the initiative.

Award Received:



- A women headed farmers Smt. Supriya Das of Badagumula village of Rangeilunda block received an award from Director of Agriculture & Food Production, Govt of Odisha, for implementation of mechanized Direct Seeded Rice in 14 acre land in collaboration with I RRI.

- Participated in District level Exhibition (Matshya O Prani Sampad Mela- 2024), Ganjam held from 24th to 25th Dec 2024 and displayed 02 nos. live stall demonstration on Integrated Farming models showcasing the modern agriculture, livestock & fishery activities undertaken by TSF. The stall was designed offer farmers a firsthand glimpse of the latest technological advancement and innovative practices in farming. Three marginal famers were felicitated from our periphery in both livestock & fishery sector by the ARD Department. On closing day, TSF, Gopalpur was awarded for its participation & presentation of livelihood activities in presence of Zilla Parishad, DFO, CDVO, CDAO & Joint Director.



Betel vine cultivation

The farmers in the Gopalpur area practiced betel vine cultivation, protection from cold winds was an important factor in case of betel vine leaves. Cold and hot winds affected on quality, freshness and production of leaves. Since the district is prone to disasters, most of the times the cultivation got wasted due to frequent hit of cyclones.

To ensure loss of the same, protected farming of betel vines was introduced. Technical training was provided followed by exposure visits. Today, more than 150 farmers have adopted to the technique.

Entrepreneurship Development Program: (Kewda distillation Plant)

The Kallipalli Village of Chatrapur block in the vicinity of the Tata Steel SEZ Plant in Gopalpur region is blessed with a natural resources of kewda



plant, which grows



perennially and offers significant economic potential. The kallipalli village has a unique opportunity for economic development through the processing of Kewda flowers. The Kewda plant has emerged as a vital source of income for vulnerable families in the Gopalpur region. The Kewda flower harvesting in Kalipalli village occurs in two phases from March to September in the first phase and from November to January in the second phase. These

harvests involve the active participation of family members from the community. Currently, Kewda flowers harvested by local families are sold through collection agents who purchase the flowers at a price of Rs. 12 per unit. These agents, in turn, sell the flowers to distillation plants operating in the vicinity. In response to the economic potential of the Kewda plant, the Kalipalli community has formed the "Kallipalli Youth Kewda Society," comprising 25 vulnerable families with a total of 115 family members. With an objective to ensure the long-term sustainability, the society has secured a 15 years land lease agreement (attached), providing a stable foundation for the proposed distillation plant. The Kewda distillation plant is expected to have a substantial processing capacity with machinery and equipment to efficiently extract essential oils and other valuable products like distilled water, Ruh & essence etc. from Kewda flowers. This will not only create a new revenue stream but also offer employment opportunities for the local community.



Gender & Community Enterprise:

Women's empowerment has become a significant topic of discussion in development and economics. Women's economic empowerment refers to the ability for women to enjoy their right to control and benefit from resources, assets, income, and their own time, as well as the ability to manage risk and improve their economic status and well-being.

In this FY 2022-2023 a Disha Program started for the SHGs of the Periphery of TATA STEEL Gopalpur, This Program main moto is to develop democratic Leadership among Women with proper module-based Training and Capacity building Program. This program also caters the SDG 5 - Gender Equality through Gender Mainstreaming Training.

Fostering Inclusive Leadership: Empowering Women in Local Governance In the landscape of local self-governance, fostering inclusive leadership is crucial, particularly about empowering women.

Gender mainstreaming initiatives ensure that women have equitable opportunities to participate and lead in decision-making processes at the local level. After Disha Module Training, women in local governance play multifaceted roles, from championing community development initiatives to advocating for policies that address

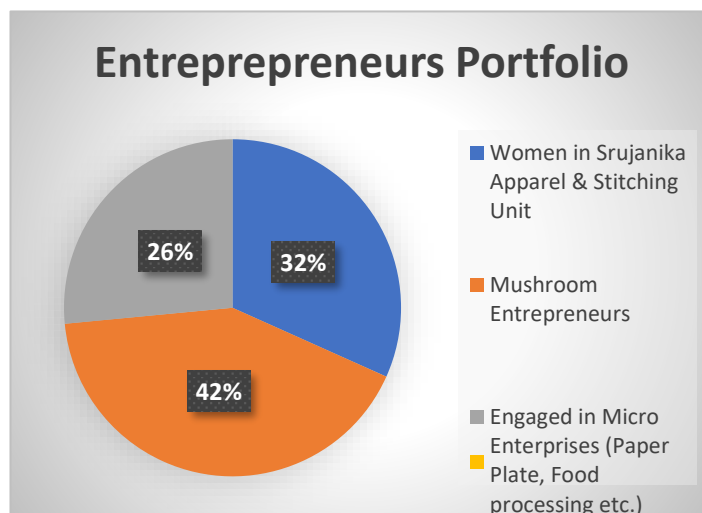


gender-specific concerns. Their involvement strengthens the fabric of local governance by bringing diverse perspectives, prioritizing marginalized voices, and fostering more inclusive policies and programs. Networking and advocacy skills are essential tools for women to amplify their collective voice, forge alliances, and advocate for issues that matter most to their communities. By empowering women in local governance through inclusive leadership practices, gender mainstreaming efforts, and fostering network and advocacy skills, we can create more resilient, equitable, and thriving communities for

all.

Under Disha Training, Trainees conducted various community led initiatives like Observation of International Rural Women Day, where they engaged Women PRI leaders, women entrepreneurs for the constructive discussion on role of women in Gender Mainstreaming and various community development initiatives for social Development.

Tata Steel has been promoting women self-help groups (SHGs) for the past many years in Gopalpur area. Presently, SHGs are successfully carrying out income generation activities including phenyl manufacturing, tailoring unit, poultry farming, cattle feed trading, and coir doormat manufacturing and making of paper plates, Food processing Unit.



Key Achievements of Gender and Community Enterprises:

Transformation of Incense Stick Unit manual machines to Semi automatic machines:

An incense Stick unit Revived at Tata Colony by the collective effort from TSF and the Community. In the year 2014 this unit established with 30 manual machines. Day by day technology is upgrading and now in current scenario



production from the manual machines is not acceptable to the traders of Incense stick. This unit was shut down in 2019. After Four-year TSF, Gopalpur take the initiatives to revive the unit. In initial phase identification of core problem was necessary where found that need to change machines immediately. That's the time to switch to semiautomatic unit to revive the Incense stick unit, Previous group was defanged so enrolment of new members are necessary. After meeting with the group. TSF provided 4 automatic

machines to the unit where 10 members can engage. Now the installation of machines is going on & similarly market linkages process also started, In future this unit will be known as the entity of sustainable livelihood.

Setting of Phenyl Producer Group:

Two producer group from Kalipalli and Sriramchandrapur panchayat set up their business in the the aspect of producing white phenyl. Women-led phenyl production groups provided an avenue for financial independence. By engaging in this venture, women can generate a sustainable income, reducing their reliance on traditional, often unreliable sources of revenue. This economic empowerment extends beyond individual households, contributing to broader community prosperity. In initial phase TSF supports this unit by providing technical guidance and one time raw material support to set up the Unit. is a promising initiative that can drive economic empowerment, skill development, and community growth. By overcoming the inherent challenges through collective effort and support, these ventures can pave the way for a more inclusive and prosperous society.



Setting of Badi & Papad Making Unit:

A women Producer Group belongs from R&R Colony(Village- Sindhigaon, Panchayat - Luhajhar)of TATA STEEL SEZ, Gopalpur established Non-farm livelihood through setting of Badi & Papad Making Unit by Radha Krishna Producer Group. In Initial phase TSF Gopalpur conducted various training & capacity building program related to Food safety, hygiene and making of various food products related



to market demand. Now These women entrepreneurs showcases the entrepreneurial spirit of women in Ganjam. Their unique selling proposition (USP) of millet-based products not only promotes healthier alternatives but also taps into the rising demand for nutritious options. With their FSSAI registration, they ensure quality standards, gaining trust in the local market and beyond. This initiative not only empowers women economically but also contributes to the promotion of local, sustainable food practices.

Mahila Sabha:

In this month organized two Mahila Sabha at Tata Colony and Coastal Village Kantagarh along with Jamshedpur Team. At the coastal village of Kantiagarh, TSF Gopalpur organized a Mahila Sabha where SHG women prepared and presented a Village Poverty Reduction Plan (VPRP). A Focused Group Discussion (FGD) was also conducted to identify community needs, revealing priorities such as improved access to clean water, better healthcare and educational facilities, sustainable livelihoods, and environmental conservation. This event empowered women

and engaged the community in targeted development planning. Also plan for a Training on Leadership development with active Members.



Updates of Srujanika Apparel & Craft producer Company Ltd. :

In celebration of Independence Day (Har Ghar Tirana), Srujanika Apparel Unit received a significant order to supply 10,000 national flags to Tata Steel OMQ in Joda. Despite the tight deadline, the dedicated women of Srujanika have risen to the challenge, working diligently to fulfill this important order. Their commitment not only reflects their craftsmanship but also embodies the spirit of independence and unity as they contribute to this patriotic endeavor.

Disha Convocation: The Disha convocation held in Gopalpur marks a significant achievement, with 500 women graduating in the leadership and gender program. This program likely focuses on empowering women by building



their leadership skills and understanding of gender issues. The graduation of such a large group showcases the success of the initiative in fostering women's capacity for community leadership and gender equality.

Training on Food Safety & hygiene:

One of our women Producer Group members, after successfully completing the Entrepreneurship Development Program in 2023, launched a catering business. This initiative has now evolved, and under the Affirmative Action Policy, the “Jai Jagannath Food Producer Group” is set to become a business partner of Tata Steel Foundation in the food supply segment. To ensure that the food supplied meets the highest standards of quality and hygiene, we organized a specialized training session on food safety and hygiene today. This session was conducted in collaboration with Tata Steel Foundation and Pratham Education & Skill Development Centre, Seragada. The training focused on equipping the participants with the essential knowledge and practices needed to maintain the standards required for safe food handling and preparation. This step not only enhances the capacity of the Jai Jagannath Food Producer Group but also aligns with our broader commitment to sustainable, inclusive growth and community development.



Srujanika’s Transformative Experience at Samvaad 2024:

Samvaad 2024 proved to be a transformative event for Srujanika, marking a significant milestone in its journey toward economic empowerment and cultural promotion. This annual conclave, renowned for its inclusive



platform to amplify indigenous voices, offered Srujanika the opportunity to showcase its diverse craftsmanship and entrepreneurial spirit to an esteemed audience, including Tata Sons, Air India, and other prestigious entities. The event was not just a showcase; it was a bridge to meaningful connections and lucrative collaborations. Engaging with corporate leaders, policymakers, and potential partners provided Srujanika with insights into broader

market dynamics and customer expectations. These interactions resulted in promising partnerships, which are expected to significantly boost sales and expand the reach of Srujanika’s products, including its unique offerings like Sowra art and Patachitra. The exposure at Samvaad enhanced Srujanika’s visibility, opening new avenues for market penetration and

collaborations. The interest shown by organizations like Tata Sons and Air India is a testament to the quality and cultural significance of Srujanika's work. This recognition not only paves the way for increased sales but also contributes to the socio-economic upliftment of the artisans associated with Srujanika, ensuring sustainable livelihoods and preserving traditional art forms. Samvaad 2024 was more than an event; it was a catalyst for growth, reinforcing Srujanika's vision of blending heritage with modern enterprise. As the organization prepares to leverage these newfound opportunities, the event stands as a testament to the power of platforms that connect grassroots talent with global audiences.

Promotion of Pata Chitra:

Srujanika, in collaboration with the Handicraft Department, Ganjam, Odisha, successfully concluded a year-long Pattachitra Craft Master Training Program under the Capacity Building Programme 2023-24, held from 11th December 2023 to 10th December 2024 at TATA Colony, Badapur, Block. Sponsored by the Directorate of Handicrafts, Odisha, the program empowered artisans with advanced skills in Pattachitra, a traditional art form of Odisha. Participants, received certifications and Artisan Cards, granting them access to government schemes and development perks. This initiative not only ensures the socio-economic upliftment of these artisans but also promotes the preservation and global recognition of Odisha's rich handicraft heritage. From January 19 to 22, 2025, Srujanika, in collaboration with the Department of Home Science, Berhampur University, organized a four-day event titled *UNWM-2025 (Unveiling the Artist within Me)*. The primary objective of the workshop was to incorporate and rejuvenate Odisha's Pata Chitra art into the extracurricular activities of the Postgraduate syllabus for the Home Science Department. A total of 80 students actively participated, gaining hands-on experience and artistic insights. The Vice-Chancellor of Berhampur University and the Head of the Home Science Department graced the event and felicitated Srujanika and Tata Steel Foundation for their initiative and contribution in organizing this impactful workshop.

In the Aspects of Skill Development:

(JNTTEC) (Jamsetji Nussewani Tata Technical Education Centre) Gopalpur:

Founded in 2005 through a collaborative effort between Tata Steel and NTTF, JNTTEC stands as a beacon of educational excellence, nestled within a sprawling 10-acre campus. The institute's infrastructure is meticulously designed to cater to the diverse needs of its students, with state-of-the-art facilities spanning across classrooms, laboratories, hostel accommodations, canteen services, and sprawling sporting grounds, fostering a holistic learning environment. At the core of JNTTEC's academic offerings lies its flagship program, the Diploma in Manufacturing Technology, strategically introduced during the fiscal year 2023-24. This strategic move aligns with the burgeoning employment opportunities within the manufacturing sector, ensuring that graduates are well-equipped to navigate the dynamic landscape of industry demands.



A testament to its commitment to student success, JNTTEC boasts an impressive track record, guaranteeing a 100% placement rate for all eligible candidates. These placements predominantly occur within the manufacturing industry, offering graduates lucrative remuneration packages and a pathway to professional growth. Esteemed corporations such as TATA Electronics, Schneider Electric, BIESSE, and Lohia Group recurrently tap into JNTTEC's talent pool, recognizing the calibre of its graduates. Setting the benchmark for practical learning, JNTTEC prides itself on its avant-garde equipment and immersive, hands-on training

methodologies, ensuring that students are adept at industry-standard practices upon graduation. Moreover, the institute fosters a vibrant student community, cultivating an atmosphere of collaboration and innovation, while its faculty members, renowned for their expertise, deliver unparalleled teaching standards. In essence, JNTTEC

epitomizes excellence in technical education, nurturing the next generation of industry leaders through its comprehensive curriculum, industry-aligned training, and unwavering commitment to student success.

PRATHAM's Training Centre at JNTTEC:



Established as a collaborative endeavor between the esteemed TATA Steel Foundation and PRATHAM Pvt. Ltd., the Skill Development Centre stands as a testament to their shared vision of empowering individuals through vocational training. Nestled within the serene environs of the JNTTEC premises, this center serves as a beacon of opportunity for aspiring professionals seeking to hone their skills and carve a niche in the competitive job market. Diversifying its offerings to cater to the diverse needs of the industry, the center currently hosts three specialized courses: Food Production, Food and Beverage Service, and Multi-function Office

Assistant. These meticulously crafted programs, ranging from 30 to 45 days in duration, blend theoretical insights with practical applications, ensuring that participants are equipped with the requisite knowledge and competencies demanded by their respective fields.

One of the hallmarks of the Skill Development Centre is its unwavering commitment to facilitating successful transitions into the workforce. Upon completion of their training, all candidates receive personalized placement assistance, a testament to the center's dedication to fostering meaningful career pathways. Remarkably, the center boasts an impeccable track record, with a remarkable 100% placement rate for eligible candidates, underscoring its effectiveness in bridging the gap between education and employment. The accolades garnered by the center extend beyond its premises, as industry-leading enterprises such as ITC Murli Park, Minerva Grand, United Telugu Kitchen-Vijaywada, Pragati Resorts, Celebrity Resorts, and Ramoji Film City, Hyderabad, consistently seek out graduates for their specialized skill sets. This symbiotic relationship between academia and industry not only validates the efficacy of the center's training programs but also underscores its pivotal role in nurturing a skilled workforce. In addition to its academic offerings, the Skill Development Centre prioritizes the holistic well-being of its participants, offering comfortable hostel accommodations and wholesome meals for both male and female candidates. Managed with precision and expertise by PRATHAM Pvt. Ltd., the center prides itself on its team of highly skilled trainers, whose wealth of experience and dedication ensures the delivery of unparalleled learning experiences.

With an annual intake capacity of 250 students, the center adopts a personalized approach to education, typically enrolling approximately 25 students per batch. This intimate learning environment fosters a sense of camaraderie and collaboration among participants, facilitating peer-to-peer learning and mutual growth. In essence, the Skill Development Centre emerges as a transformative hub, where ambition meets opportunity, and aspirations are realized. Through its holistic approach to vocational training, personalized support services, and industry-aligned curriculum, the center continues to empower individuals to unlock their full potential and embark on rewarding career journeys.

Public Health

Non-Communicable Diseases :

Tata steel foundation in collaboration with the Government to provide support for the National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS). This support will involve facilitating screening activities for Hypertension, Diabetes, Oral Cancer and Breast Cancer, as well as strengthening referral mechanisms for suspected cases, with the aim of providing early treatment and reducing complications. Additionally, TSF will focus on building the capacity of ASHAs, ANMs,



and creating Village Peer Leaders to undertake Behaviour Change Communication (BCC) sessions at various levels, which will help minimize risk factors for Non-Communicable Diseases (NCDs). SDG Target 3.4: Non-communicable diseases: By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment. The NCD team observes important days at the community level to raise awareness. To empower women in detecting breast cancer, the team trains eligible women on Breast Self-Examination.



NCD Portal

Objective: Reduce by one third premature mortality from non-communicable diseases through prevention and treatment by the year of 2030 aligning with SDG goal. Activities are as follows:

1. Primary Prevention-Capacity Building of Health Care Workers – ASHAs /ANMs/CHOs on prevention of NCDs
2. Training of eligible women on Breast Self-Examination.:
3. Creation of peer leaders in Villages
4. Convergence with State/ District/Block Health Office
5. Facilitating CBAC entries by ASHAs for further documentation in

6. Community based screening: Screening for Hypertension, Diabetes, Oral Cancer, and Breast Cancer Early Identification and referral. 1. Referral of suspected cases of Hypertension, Diabetes, Oral Cancer, and Breast Cancer to nearest health facility. Tracking of referrals, follow ups for diagnosis and treatment; Ensure treatment adherence.

Vector Borne diseases Programme:

Public health implications of diseases transmitted by vectors and their impact on social and economic development are major global concerns including India. Vector Borne Disease (VBDs) contribute to 17% of all infectious cases globally. Though there has been reduction in the major vector borne diseases (VBDs), re-emerging VBDs and their geographical spread attributable to globalization, unplanned urbanization, environmental challenges such as climate change, is a major public health concern in recent years.

vulnerable groups like pregnant women, extreme age group individuals are at the greatest risk of mortality from VBDs. Tata steel Foundation in collaboration with the Government to provide support for the National Vector Borne Disease Control Program (NVBDCP) for prevention and control of Vector Borne Diseases. This support will involve facilitating screening activities for VBDs, integrated vector management, as well as strengthening referral mechanisms for suspected cases, with the aim of providing early treatment and reducing complications. Additionally, TSF will focus on building the capacity of ASHAs, ANMs, and creating Village Peer Leaders to undertake Behaviour Change Communication (BCC) sessions at various levels. To reduce mosquito breeding sites, Tata Steel Foundation has undertaken various activities, such as anti-larval spraying in multiple GPs of the Rangeilunda block. To raise awareness among the community, TSF Gopalpur organized a Nukkad Natak, performed by Sathiyas (Peer Educators of RISHTA). Apart from this, in collaboration with the government, TSF actively participates in the MDA program to address filariasis in the district.



RISHTA (Regional Initiative for Safe Sexual Health by Today's Adolescents):

Tata Steel Foundation on its aegis and in support to the adolescent population in its intervening areas started the programme RISHTA and its interactive day MANTHAN & DHWANI giving a platform to the adolescents to express themselves. Regional Initiative for Safe Sexual Health by Today's Adolescents, formally known as "Project RISHTA" is a consortium project on Adolescents' Reproductive and Sexual Health, which aims "to improve the sexual and reproductive health and wellbeing of adolescents in intervening areas". The target groups in the project are primarily adolescents in the age group of 10 to 19 years, married and

unmarried who may be either school-going, school dropouts or non-school-going. RISHTA started in Gopalpur in the year 2013 and is operational in two blocks named Chhatarpur and Rangeilunda.

OBJECTIVE OF RISHTA PROJECT -

Increase knowledge in ARSH (Adolescent Reproductive and Sexual Health) among adolescents.

Reduction in the prevalence of underage marriages among adolescent girls

Reduction in the adolescent fertility rate

Identifying potential young changemakers and participate in Dhwani program.

Link youths with skill programs through TSF or Govt. institutions (leadership training, vocational training, etc.)

RISHTA OLC Program: Empowering Adolescent Leaders:

Outdoor Leadership Camp (OLC): The heart of the program was the Outdoor Leadership Camp, where participants engaged in a series of activities designed to enhance their leadership, communication, and problem-solving skills. The camp provided a challenging yet supportive setting, encouraging adolescents to step out of their comfort zones.

Duration: The OLC spanned three days, creating an immersive experience for the participants. This extended duration allowed for in-depth learning and personal growth, fostering lasting connections among the adolescents.

Venue – Jamshedpur, Tumung: The picturesque setting of Jamshedpur Tumung served as an ideal backdrop for the OLC. Surrounded by nature, the venue provided a serene and inspiring atmosphere, contributing to the overall positive impact of the program.

Their expertise in outdoor activities and commitment to youth development ensured a well-structured and safe program.

Activities: The OLC featured a range of activities, including team-building exercises, leadership workshops, outdoor challenges, and adventure sports. These activities were carefully curated to instil a sense of responsibility, resilience, and leadership qualities among the participants.

Apart from this various kind of Youth conclave like Manthan, Dhwani was organised through Rishta Team to cope up more effectively with Youth Development.

Case Studies of Rishta Change Makers:

Empowering Adolescent Voices: Sonu Patnaik & Nirupa Behera both of them are faliciated at Dhwani Program on 19-1-2025 at Jamshedpur.

Sonu Pattnaik, an 18-year-old from Badagumula village, exemplifies proactive community engagement. Joining the RISHTA project in FY-23, he embraced her role with zeal. Following Saathiya training in 2023, B. Padmavati Reddy spearheaded initiatives on menstrual hygiene, tackling RTI cases and dispelling myths. Through his dedication he's conducted sessions on child marriage and nutrition, impacting 40 adolescent girls, fostering a healthier, informed community.



The Journey of Nirupa Behera In the heart of Bayali village, Puja Nayak emerged as a beacon of change. Engaged through the RISHTA project in 2023, Nirupa dedicated herself to combating addiction and advocating for adolescent rights. Through counseling and community engagement, he transformed lives, delaying early marriages and fostering awareness on critical issues. Nirupa's journey inspires a generation of changemakers.



Drishti: Comprehensive Community Eye Health Programme

- Blindness is a major public health problem in India causing social and economic burden to the individual, community and Nation.
- Drishti is addressing three major components of preventable blindness where it aims to improve visual health of older persons, school children and neonates.
- It focuses on implementing comprehensive eye care services within a specific region (Rangeilunda Block) ensuring that its interventions are tailored to the unique needs and challenges of that area.

Objectives:

- To ensure early eye health check-up of all low-birth-weight babies within first 28 days of birth.
- To identify and address refractive error in school children at an early stage. Facilitate timely intervention to improve academic performance and overall quality of life.
- Identification and treatment of cataract patients above 50 years thereby reducing the backlog of mature cataract cases. To ensure overall well-being of elderly persons and to restore vision of the affected geriatric population.
- To generate awareness on the significance of eye care in the rural communities emphasizing the tertiary care facilities that are available for them.



Activities:

1. Retinopathy of pre-maturity for neonates:

Training of healthcare professionals in neonatal care and ophthalmic screening

Identification and early treatment of premature babies and low birth weight babies by the Nurse/ANM posted in PP center.

Link the suspect cases with RBSK program.

and the suspected case will be referred to LVPEI for further investigation and treatment.

2. School eye health programme

Provide training to the schoolteachers on refraction test through Snellen chart.

Ensure Eye checkups for school children 11-15 age group by the trained teachers and ensure further test for the suspected children identified by the concern teacher.



3. Cataract surgery for elderly persons

- Treatment of mature cataract patients: Organize camps based on community demand and baseline survey of the area selected.
- Identify mature cataract patients through regular screening followed by surgery in reputed partner eye hospitals.
- During the period of FY-24-25 able to organize 58 Cataract Eye Screening Camp in different location where 4020 elderly persons were screened and out of that 422 Cataract surgery has been done (till Jan-2025)
- There are post-surgery follow up done by the team those have done the surgery, the team ask them about condition after surgery , if anyone having any problem we take to them medical for checkup.

4. Advocacy and sensitisation:

Organizing community and school level awareness session about eye health care and services how do they avail the free service of treatment. Initially how they will identify the suspect case of Cataract in community level and council to them to attend the camp. Sensitize the community on consequence of Cataract if they will be not address of it.



Project: POSHAN



The Poshan Team dedicated efforts across 32 Gram Panchayats, 88 villages, and 234 Anganwadi Centers in Rangeilunda Block have significantly improved maternal, child, and adolescent health by addressing malnutrition, anaemia, and dietary awareness.

By screening 3,890 children for malnutrition and referring 34 Severe Acute Malnutrition (SAM) cases to the Nutrition Rehabilitation Center (NRC), the team has ensured timely medical intervention and recovery. The successful weight normalization of 588 malnourished children demonstrates the impact of continuous nutritional counselling and follow-ups.

Anaemia remains a major concern, and the team's screening of 8,721 adolescents and mothers led to targeted interventions for 5,804 anaemic individuals. Through regular health monitoring, dietary improvements, and iron supplementation, 2,265 individuals regained healthy haemoglobin levels, reducing health risks for women and children.

Additionally, nutrition education has transformed dietary habits, reaching over 5282 women and 3892 adolescents. The promotion of 836 kitchen gardens has empowered families with 4522 number of people with sustainable access to fresh vegetables, enhancing dietary diversity.



Training 168 ASHA workers and 71 Poshan Sakhis has strengthened community capacity, ensuring long-term health improvements. Through these sustained efforts, the Poshan Team continues to drive lasting change, fostering a healthier future for vulnerable communities in Rangeilunda.

Usually conduct some events and also arrange some meeting for community and Stake Holders:

1. Poshan Pakhwara : Promoting awareness and action towards improving nutrition outcomes across communities.
2. Annaprasan Event: Introducing solid food to an infant for the first time, marking a significant milestone in their growth and development.
3. Quiz competitions with Adolescent Girls: empower through knowledge and promote awareness on health, nutrition, and relevant societal issues.
4. Half yearly stakeholders meeting: to educate and engage stakeholders about the importance of nutrition and collaborative efforts to combat malnutrition effectively.
5. Block Dissemination: fostering integrated efforts among diverse sectors to enhance nutrition outcomes at the local level.
6. District Dissemination: coordinating comprehensive strategies across multiple sectors to address malnutrition on a broader regional scale.

7.AWW training empowering frontline caregivers to deliver effective nutrition interventions and support to communities.

8. Poshan sakhi Workshop Training: equipping community health volunteers with knowledge and skills to champion nutrition and health awareness at the grassroots level.

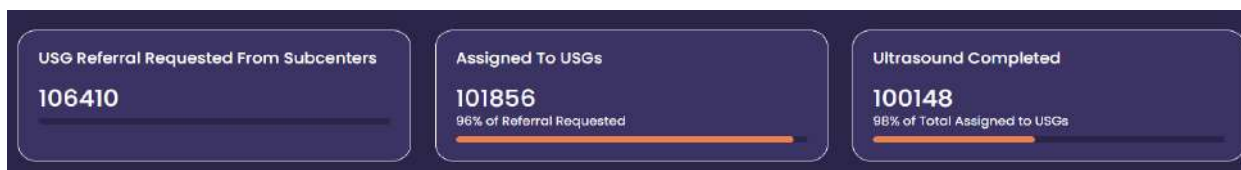
9. Asha orientation: empowering Accredited Social Health Activists with essential skills and knowledge to promote maternal and child nutrition within their communities.



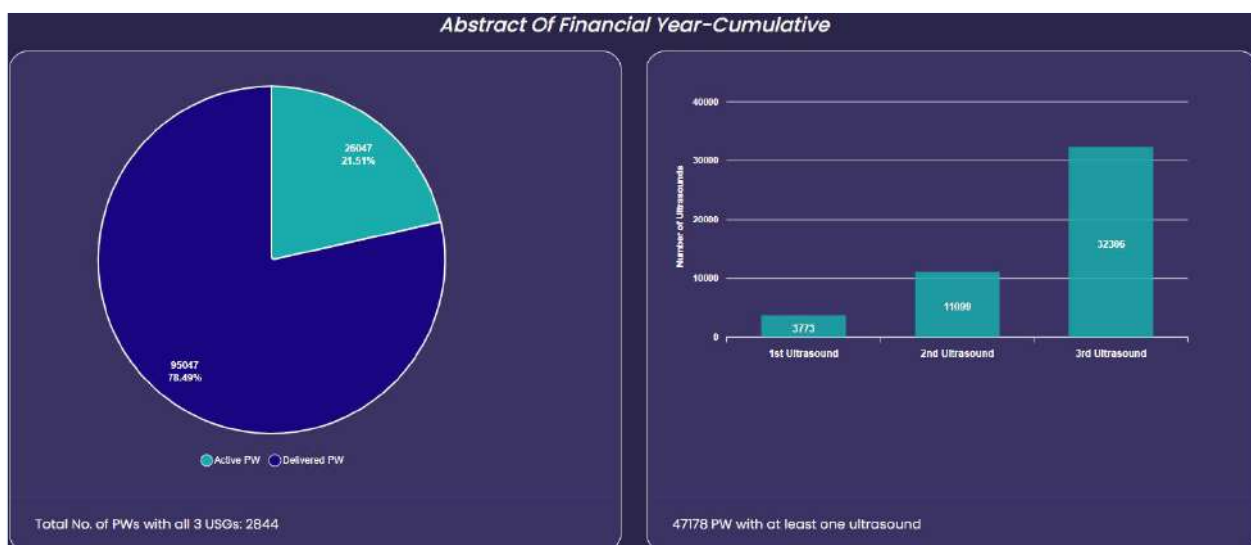
Nirikhyana Application, A tool to ensure Ultrasound in all trimesters for all pregnant women of Ganjam District

To check maternal mortality and ensure safe motherhood, Tata steel Foundation & Ganjam district administration has implemented Surakshit Janani Sahayata Yojana in the district. The scheme Nirikhyana has been launched by Collector, Ganjam. The aim of the scheme is to ensure safe motherhood and provide quality ante –natal care to all pregnant women. Under this scheme, Pregnant women in Ganjam district will get to undergo three Ultrasound tests fees of cost during their pregnancy, Nirikhyana app is proposed to keep a record of Pregnant ladies.

The outcome of the program is significant in improving maternal and child health outcomes as mentioned below:



- Total number of pregnant women registered: 121094.
- Total number of USG referrals requested: 1061410.
- Total number assigned to USG centres: 101856.
- Total number of ultrasounds completed: 100148.
- Total number of Health Facilities – 594
- Total number of Ultrasound centres empanelled - 236.



Health Camp

Tata steel Foundation Gopalpur has been organized 4 no's of Multi specialized health camps with support of Govt. Health Department & Sankara Eye Hospital, Samarajhola. Its Aim is to provide Multispecialty treatment at the doorstep of community & hard to reach areas. Screening of Non –communicable diseases have been done by testing of blood sugar level and blood pressure check-up. Awareness campaign has been conducted to alert on



Non – communicable diseases through audio visual and distributing IEC materials. Other health check-up has been provided like Medicine, Paediatric, Gynaecology, Eye, Dental, ENT followed by free medication. **A total of 1350 patients benefited through this initiative.** Tata Steel Foundation often collaborates with healthcare professionals and organizations to organize multispecialty health camps in various communities. These camps typically offer a range of medical services including general health check-ups, consultations with specialists' diagnostic tests,

vaccinations, and distribution of essential medicines. These camps aim to provide access to healthcare services to underserved populations, promote health awareness, and address prevalent health issues in the communities they serve. They often target rural or remote areas where access to healthcare facilities may be limited. Additionally, these camps may also include health education sessions on topics such as hygiene, nutrition, family planning, and disease prevention.

Conservation of key species with special reference to Olive Ridley Sea Turtle, Blackbuck and Indian Peafowl and enhancing resilient livelihood

1. Introduction

The state of Odisha spread over an area of 155,707km², is situated along the east coast of India within the Deccan peninsular biogeographic zone. Because of its unique geographic location within the transitional zone of biogeographic provinces, it is one of the biodiversity rich regions along the Indian east coast. The state has 22 protected areas (19 wildlife sanctuaries (WS)), one national park and two tiger reserves in Odisha which covers about 4.73% of the state's geographical area. Apart from the protected areas, Odisha has many regions where many important wildlife species thrive.

The Olive Ridley Sea Turtle, Blackbuck and Indian Peafowls are the key wildlife species of Ganjam, one of the seven coastal districts of Odisha. While the Olive-ridely Sea Turtles use the beaches adjoining to Rushikulya River mouth for mass nesting, Blackbucks and Indian Peafowls are permanent residents of Bhetnoi and Pakidi hills respectively. All these species receive the highest legal protection status in India under Schedule-I of the Indian Wildlife (Protection) Amendment Act, 2022, and accordingly various regulations have been imposed from the Government side towards minimizing human activities in these areas, particularly ban on fishing activity in the sea during turtle breeding season. This ban has significantly affected the livelihood of the fishing communities of the area. Likewise, the conservation initiatives taken by the local communities have resulted significant population growth of both Blackbuck and Indian Peafowl. This over-abundant population have now become a major threat to the local farmers in terms of crop depredation. All these situations faced by the local communities across the locations have made them particularly intolerance towards occurrence and conservation of the above-mentioned species in their locality.

For peaceful co-existence and long-term conservation of these iconic wildlife species, Tata Steel Foundation in collaboration with Kotak Mahindra Bank Ltd has initiated the project on conservation of the key wildlife species



by addressing the lives and livelihood of the local community. Broad objective of the project is to nurture and support the affected communities for alternative and resilient livelihood to minimize their dependency on the wildlife habitat and negative interaction with the wildlife species. Along with the livelihood development activities, habitat and species protection have also been planned at a minimal level to make the habitat less anthropogenic. Major objectives of the project are

1. Promotion of an integrated/non-intrusive conservation approach of Schedule I and other significant wildlife species of Ganjam district at the landscape level.
2. Enhance the livelihood of the local communities across the three selected landscapes by addressing their challenges.
3. Develop a viable community based eco-tourism ecosystem.
4. Assess the threats to habitats and document the relevant species in our focus areas.

2. Project Geography

The project is operational in three landscapes covering three different blocks and three Gram Panchayats in Ganjam District. These are Bhetnoi Blackbuck area in Bhetnoi Gram Panchayat of Aska Block, Pakidi Hills Indian Peafowl area in Khandadeuli Gram Panchayat of Shergad Block and Rushikulya mouth Olive Ridley Sea Turtle area in Pallibandha Gram Panchayat of Ganjam Block (See Figure 1). The project activities are also planned to reach around 3200 households of the seven villages across the project area.

Block	Gram Panchayat	Village	No of HHs
Aska	Bhetnoi	Bhetnoi	1500
Shergard	Khandadeuli	Ambuabadi	205
		Kerikeri Jhola	350
Ganjam	Pallibandha	Purunabandha	296
		Gokhurkuda	304
		Podampeta	345
		Kantiagarh	175
Total HHs			3175

1. Description of the project sites (Bhetnoi Grassland and Blackbuck Conservation)

The Bhetnoi grassland interspersed between govt and private land in Odisha is home to a significant population of Blackbucks in eastern India region. The Blackbuck population in this region has seen a considerable increase over the years, with the latest census reporting around 7,358 individuals compared to 2,194 in 2011. This increase in population is attributed to the community's conservation efforts coupled with Forest Department's protection activities. However, the livelihoods of these communities are now under threat due to the increasing Blackbuck population, which often damages standing crops. Although affected farmers are entitled to get compensation, the amount is not sufficient compared to the loss. As a result, many farmers have either left agricultural activities or leased their lands to monoculture plantations. In both ways it has affected the livelihood of the local communities and compelled earning heads of many families to be migrant labours. Most of the open and left-over agricultural areas have now converted to shrublands dominated with exotic weeds. Loss of suitable foraging habitat has also negatively affected the habitat use pattern of the Blackbucks. These animals are now frequently

venturing into new areas and facing conflict situations with local communities. Besides decline in availability of suitable habitat, the exploded Blackbuck population is also facing threats from road kills, and attack from stray dogs.



The communities of Blackbuck habitats once treated these animals as harbingers of their wealth and prosperity. However, gradually a negative attitude has been developed among them towards occurrence of the species in their locality as they have neither financially benefited from the species, nor anyone have supported them for any kind of alternative livelihood. In fact, there is also a gap in infrastructure for promoting eco-tourism, which could provide an

alternative source of income for the communities. Moreover, lack of knowledge and support for alternate livelihoods, modern farming techniques have become another challenge to overcome the impact of crop damage caused by Blackbucks.

Pakidi hills and Indian Peafowl Conservation: The Indian Peafowl population in Pakidi Hill has grown manifold to around 2,000 over the last few years due to the conservation initiatives taken by local communities for protection of Pakidi hill and its biodiversity. This increase is partly because of the lockdown, which reduced air and noise pollution levels, and partly because local villagers have helped protect and feed peafowls, believing they bring good luck. However, the over abundant Peafowl population have become a major threat to the farmer community those agricultural lands are situated adjoining the Pakidi hill. Indian Peafowls by nature forage along forest fringes and avoid both intra-specific and inter-specific competition for food resources.

The Pakidi Peafowl population frequently venture into agricultural fields and human settlements to take advantage of easily available food resources. Peafowls often raid on young sprouts, tender leaves of young plants and ripen fruits of Tomato and Chili. Although farmers may tolerate this loss out of the aesthetic attitude towards the species during the initial stage, continuous crop raiding leading heavy economic loss may trigger a negative attitude among them towards conservation of the species in their locality. There are also ample examples from this region on harassment of local farmers by Forest Department on mortality of Peafowls after consuming cotton plant fruits those were sprayed with pesticide.



Therefore, improving the agriculture-based livelihood of the local farmers through promotion of alternate and high yielding crop varieties those normally avoided by Peafowls without affecting the species and their habitat is a dire need for the community. Moreover, off-farm based livelihood for the women SHG members can be an additional livelihood to compensate the loss. Lack of infrastructure for ecotourism is also a gap in the area which could be addressed to find alternate source of livelihood for the community. Pakidi hill is a renowned name for Community based Peafowl Conservation Odisha and a must visit site among the wildlife tourists. However, due to lack of infrastructure facility local community is unable to take advantage of the eco-tourism-based income generating activities.

Rushikulya river mouth and Sea Turtle Conservation: Sea turtles play a crucial role in maintaining the marine ecosystems as they help maintain the health of seagrass beds and coral reefs, which benefits commercially valuable marine species. They are also known for their long migrations, which makes them a key species in the marine ecosystem. However, the survival of sea turtles is threatened by several factors. Habitat loss due to coastal development and climate change is one of the major threats to sea turtles. They require clean and quiet beaches for nesting, making them one of the most affected species by coastal pollution and disturbances. Illegal poaching is another major threat to sea turtles. Despite being protected under the Wildlife Protection Act of 1972, sea turtles are often hunted for their meat, eggs, and shells in many areas. Bycatch during fishing is also a significant

challenge in the conservation of sea turtles. Sea turtles often get caught in fishing nets and longlines, leading to injuries and death. Beaches along the Rushikulya coast is the 2nd largest mass nesting site for Olive Ridley Sea



Turtle along the east coast of India. During the year 2023, about 6.37 lakh Olive Ridleys arrived for mass nesting at this site. Local community, non-governmental organizations, and the Forest Department have long been playing major roles for successful annual mass-nesting activity of sea turtles.

The fishermen community without having any agricultural land solely depend on marine and estuary fishing get heavily affected due to the regulation issued by the State Government on fishing activities during turtle nesting season during November to May every year. Although each affected family is monetary compensated by an amount of Rs 15,000 by the State Government, the amount is significantly low compared to their loss during the seven month's lean period. Sea Turtle mass nesting is an important phenomenon and wildlife activists and tourist never miss this event to witness. Unfortunately, unavailability of logistic facility for the tourists is a major issue at the site and can be an alternate livelihood opportunity through eco-tourism for the affected community.

Infrastructure Support for Rural Development: -

1. Water Harvesting structure: - The increasing water demand in recent years necessitates the construction and renovation of ponds to serve as reliable and economical sources of water. This Initiative project involves the creation and refurbishment of ponds in strategic locations, providing various benefits to the community, including irrigation, livestock watering, fish rearing, and more. Under this, construction of farm ponds, accordingly, we have done the site visits and found Three plots suitable for new ponds and renovation ponds. Which Is Directly Impactites 387 farmers also Increased the Water Conservation potential 0.978 (in Mcft) and 48.84 hector Irrigation Potential created.



- 2. Drinking Water:** - Drinking water shortage in Kalipali village near its SEZ in Gopalpur, has undertaken the construction of an overhead tank and deep borewell. The project includes a 40000-liter capacity overhead tank, a deep borewell of 340 feet, and a dedicated pipeline network connect to Existing water distribution across the village. With no immediate government intervention, this initiative will provide a reliable drinking water source to approximately 2, 400 people, significantly improving their daily lives. This project reflects Tata Steel's commitment to social development and community well-being in its operational areas. Also in the Drinking water project we restore 16 no's & Install 4 new the Hand Tube Well in Peripheral villages through the drinking water project total 8750 people get benefited.



3.Education Infra: - To address the urgent need for additional classroom space and improved hygiene, TSF, Gopalpur. The request includes the construction of a new classroom and installation of a 40-liter water filter to ensure access to safe drinking water. This initiative aims to enhance the learning environment, promote students' well-being, and support women's education, contributing to equal opportunities and the overall development of the community. Live impacted of 618 children.



4. Infrastructural support for Rural Development: -

Community Centers are an important infrastructure in any village/community serving multitudes of needs and is an asset with many uses. It is used as a place of meeting of the community, office for the Village Committee, place of celebration of any festival or special occasion like marriages, also serves as a place for visitors/workers from outside the village who may come for any village development works. It is also used in many places as a place of work for specific people like SHG members who may sit at one place to work for their SHG etc. Also, it serves as a place for village level health check-ups or meetings of Tata Steel with the village community or even the government officials.

In this regard, we had received a request letter from the community through the Village Development Committee to Construct and Renovate the community infrastructure to meet community needs which shall be beneficial 6280 for the village. Two New community Hall one Renovated CC and One Renovated Soft Skill Center in Our Peripheri.



5. Renewable Energy (Solar Light):- To enhance safety, connectivity, and sustainability, we propose installing Solar Street Lights (SSL) in the peripheral villages of Tata Steel SEZ, Gopalpur. These community-owned lights provide reliable, eco-friendly energy and support increased social and economic activities. In response to villagers' requests, a total of 171 SSLs have been installed, directly impacting 17100 lives. This initiative will significantly improve rural quality of life and strengthen community goodwill towards Tata Steel. Please refer to the annexed documents for further details.

