

Ref. No: TSSEZL/ ENV/MoEF/1475/2025

Dated: 15th Dec' 2025

To,
Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ), A/3, Chandrasekharapur,
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 April' 2025 – September'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,

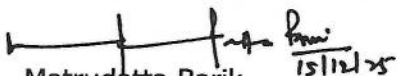
With reference to the subject referred above, we are hereby submitting the half yearly Environmental & CRZ Clearance compliance status report for development of multi product SEZ/Industrial Park by Tata Steel Special Economic Zone in soft format through e-mail (roez.bsr-mef@nic.in) for your kind perusal.

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

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

Period: April'2025 – September'2025

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

List of Annexures

Sl. No	Title of the Annexure	Annexure No.
1	Environment Monitoring Results of last Six months (April' 2025--September' 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

SI	Specific Condition	Compliance Status (April '2025 – Sep'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

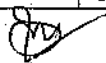
SI	Specific Condition	Compliance Status (April '2025 – Sep'2025)
	1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Amended CTE no 7837/IND-II-CTE-7237 ON 28.05.2024.
(x)	The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards 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



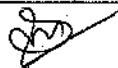
SI	Specific Condition	Compliance Status (April '2025 – Sep'2025)
	and then recycled or reused for the identified uses	up common facilities for waste treatment, recycle and disposal.
(xvi)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the 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 (April '2025 – Sep'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.



SI	Specific Condition	Compliance Status (April '2025 – Sep'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.



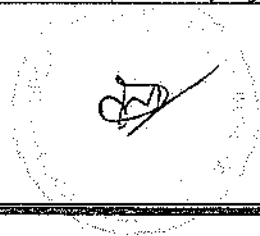
Sl	Specific Condition	Compliance Status (April '2025 – Sep'2025)
	months. Sufficient fund provision to be made to implement the same.	
V	The tree plantation programme should be made in supervision of experts who can guide from nursery up to the minimum 5 years maintenance period. The species composition 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 also we have plan to local species 4000 tree plantation Fy25-26. 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.	BComplied.
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 (April '2025 – Sep'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

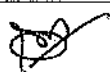
Sl.No.	Stipulated Condition	Compliance Status (April-2025 -Sep'2025)
i	The responsibility to comply with the EC conditions mentioned in this letter is solely of the project proponent.	Noted.



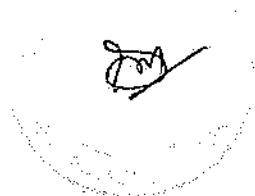
Sl.No.	Stipulated Condition	Compliance Status (April-2025 -Sep'2025)
li	The environmental safeguards contained in the EIA report shall be implemented in letter and spirit.	Noted.
lii	Provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Noted.
lv	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.



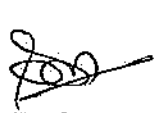
Sl.No.	Stipulated Condition	Compliance Status (April-2025 -Sep'2025)
7	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
8	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and 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 (April-2025 -Sep'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



A handwritten signature is present over a circular official stamp, which is partially illegible but appears to contain the text 'AIR' and 'INDIA'.



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

Date:05th Oct' 2025



TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

GOPALPUR
INDUSTRIAL PARK

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)
Apr-25	62.69	31.39	9.48	13.48	0.23	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-25	63.78	33.07	10.65	14.56	0.44	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-25	62.3	32.41	9.34	13.6	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-26	63.87	32.61	11.81	16.17	0.34	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-26	62.95	32.34	9.39	13.5	0.21	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-26	61.77	30.51	9.71	14.07	0.21	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	63.87	33.07	11.81	16.2	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	61.77	30.51	9.39	13.5	0.21	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	62.9	32.6	10.1	14.2	0.3	<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)
Apr-25	67.24	34.2	11	14.52	0.27	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-25	64.78	33.77	11.56	14.79	0.5	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-25	64.03	32.25	10.43	14.72	0.35	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-25	66.53	34.26	11.67	16.54	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-25	64.71	32.43	10.99	14.95	0.26	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-25	64.43	32.16	9.57	14.44	0.17	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	67.24	34.26	11.56	16.54	0.35	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	64.03	32.16	9.57	14.44	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	65.3	33.2	10.9	14.9	0.3	<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)
Apr-25	63.82	33.88	9.03	12.7	0.23	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-25	61.64	31.84	8.48	12.68	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-25	58.62	31.4	10.51	14.68	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-25	62.68	32.16	8.7	12.61	0.24	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-25	65.58	33.38	10.43	14.65	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-25	60.58	30.06	6.6	10.51	0.21	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	65.58	33.88	10.51	14.65	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	60.58	30.06	6.6	10.51	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	62.2	32.1	8.9	12.9	0.3	<20	<10	<0.01	<0.6	<0.44	<5	<1

**Surface Water Analysis Report**

Upstream of Khari Nalla(SW1)		MONTH						Result		
Test Parameters	Unit	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	MAX	MIN	AVG
Colour, Max.	Hazen	30	20	30	20	30	25	30	20	25.8
pH Value @ 25°C	--	7.22	7.13	7.41	7.23	7.34	7.44	7.44	7.13	7.2
Chloride as Cl, Max.	mg/l	36.9	39.9	30.9	30.9	39.9	39.9	39.9	30.9	36.4
Dissolved Solids, Max.	mg/l	167	179	177	167	174	151	179	167	169.1
Dissolved Oxygen, Min.	mg/l	5.8	6.1	6	5.4	5.2	5.2	6.1	5.2	5.6
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	20.2	25.8	28.4	28	23.6	32	28.4	20.2	26.3
Nitrate as NO ₃ , Max.	mg/l	2.2	3.4	4.2	5	3.0	2.8	4.2	2.2	3.4
Fluoride as F, Max.	mg/l	0.16	0.18	0.14	0.12	0.14	0.09	0.18	0.09	0.13
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	0.16	<0.03	<0.05	0.14	<0.03	<0.03	0.16	<0.03	0.15
Iron as Fe, Max.	mg/l	0.15	0.18	0.12	0.02	0.22	0.22	0.22	0.2	0.15
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	110	120	148	171	121	171	110	131



Surface Water Analysis Report

Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	MAX	MIN	AVG
Colour, Max.	Hazen	35	30	45	35	45	40	45	30	38.3
pH Value @ 25°C	--	7.55	7.43	7.61	7.52	7.61	7.61	7.61	7.43	7.5
Chloride as Cl, Max.	mg/l	45.9	49.9	41.9	39.9	43.9	41.9	49.9	39.9	43.9
Dissolved Solids, Max.	mg/l	180	191	183	174	183	188	191	174	183.1
Dissolved Oxygen, Min.	mg/l	5.6	5.3	5.7	5.2	5	4.8	5.7	4.8	5.2
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	34.8	34.6	36.2	30.8	33.8	34.4	36.2	30.8	34.1
Nitrate as NO ₃ , Max.	mg/l	2.2	3.8	4.26	1.6	2	2	4.26	1.6	2.6
Fluoride as F, Max.	mg/l	0.18	0.22	0.22	0.14	0.18	0.12	0.22	0.12	0.17
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	0.42	0.26	0.42	0.52	0.51	0.52	0.24	0.26
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	190	210	221	172	210	210	221	172	202.1

	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)
Apr-25	62.6	56
May-25	62.4	55.1
Jun-25	62.4	56.1
Jul-25	62.4	55.8
Aug-25	64.8	53
Sep-25	61.3	54.7
MAX	64.8	56.1
MIN	61.3	53
AVG	62.7	55.1
Near TSSEZL Main Gate Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Apr-25	66.1	59.3
May-25	65.7	59.2
Jun-25	67.8	59.6
Jul-25	65.6	59.3
Aug-25	68.2	62.7
Sep-25	64.4	58.2
MAX	68.2	62.7
MIN	64.4	59.2
AVG	66.3	59.7



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD. (LAB DIVISION)

An ISO 9001:2015, ISO 45001:2018 & ISO 14001:2015 Certified Company,

Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/A1

Issued Date-05.09.2025

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-05092025A1
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)
04.08.2025	63.8	33.8	7.82	12.76	0.3	--	--	--	--	--	--	--
07.08.2025	60.5	30.7	8.76	13.78	0.27	--	--	--	--	--	--	--
11.08.2025	62.3	31.9	10.94	14.82	0.25	--	--	--	--	--	--	--
14.08.2025	64.7	32.6	11.21	15.98	0.29	--	--	--	--	--	--	--
18.08.2025	62.4	31.5	8.21	12.26	0.17	--	--	--	--	--	--	--
21.08.2025	65.5	33.8	7.46	11.52	0.19	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.08.2025	60.8	31.6	9.95	13.78	0.14	--	--	--	--	--	--	--
28.08.2025	63.6	32.8	10.74	13.08	0.1	--	--	--	--	--	--	--
Avg	62.95	32.34	9.39	13.50	0.21	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

BPDAS
Authorized Signatory

Seal of Laboratory

Notes:

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemcpl.com

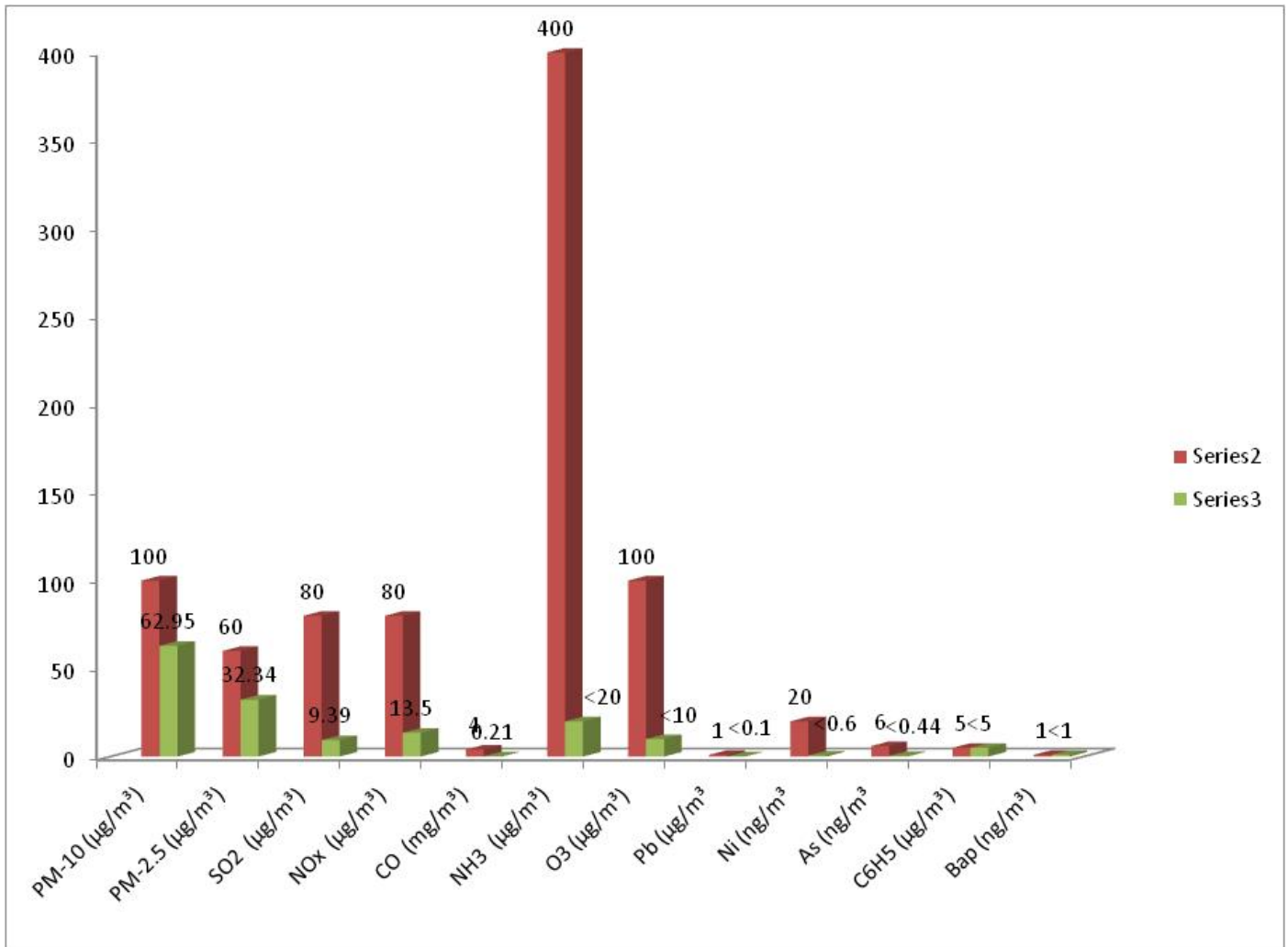
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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689



This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of Aug-25

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

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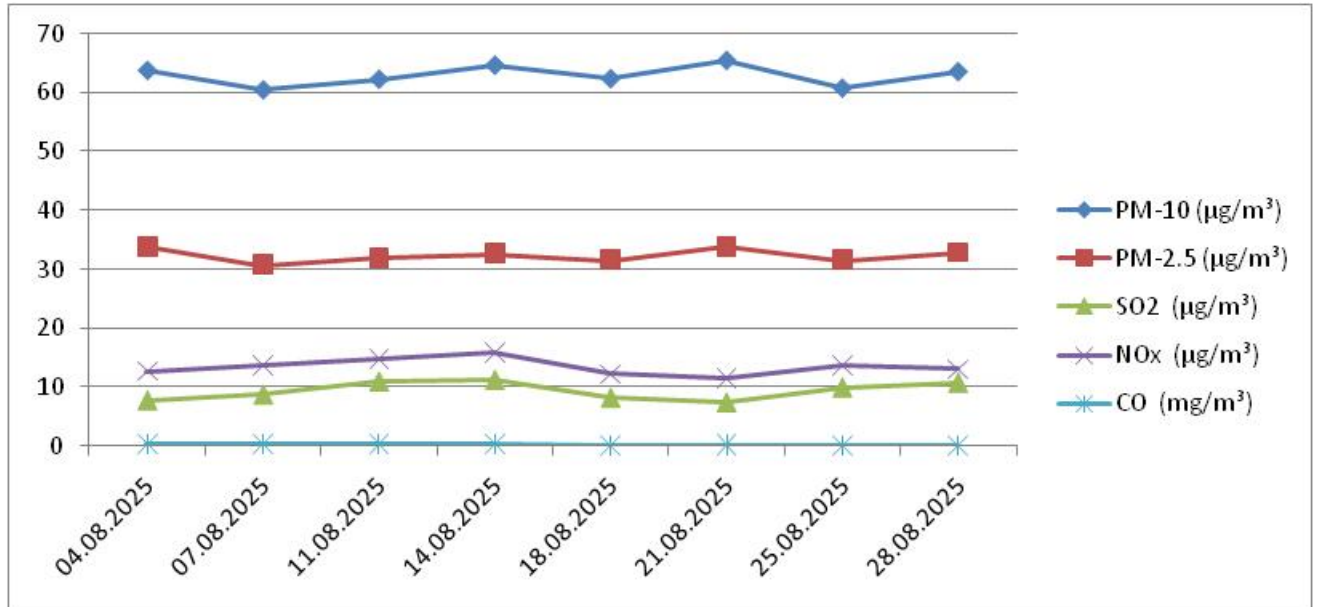
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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of Aug-25



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/A2

Issued Date-05.09.2025

AMBIENT AIR QUALITY MONITORING TEST REPORT

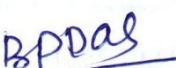
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-05092025A2
Instrument Used	Respirable Dust Sampler, Fine Dust 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)
04.08.2025	68.2	32.6	11.86	15.48	0.4	--	--	--	--	--	--	--
07.08.2025	65.8	31.7	10.22	14.92	0.36	--	--	--	--	--	--	--
11.08.2025	64.2	32.8	9.86	14.48	0.3	--	--	--	--	--	--	--
14.08.2025	63.6	33.9	10.94	14.08	0.23	--	--	--	--	--	--	--
18.08.2025	67.5	34.2	11.18	15.06	0.21	--	--	--	--	--	--	--
21.08.2025	61.4	30.5	10.96	14.48	0.18	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.08.2025	60.3	29.3	12.08	16.84	0.2							
28.08.2025	66.7	34.4	10.84	14.23	0.22	--	--	--	--	--	--	--
Avg	64.71	32.43	10.99	14.95	0.26	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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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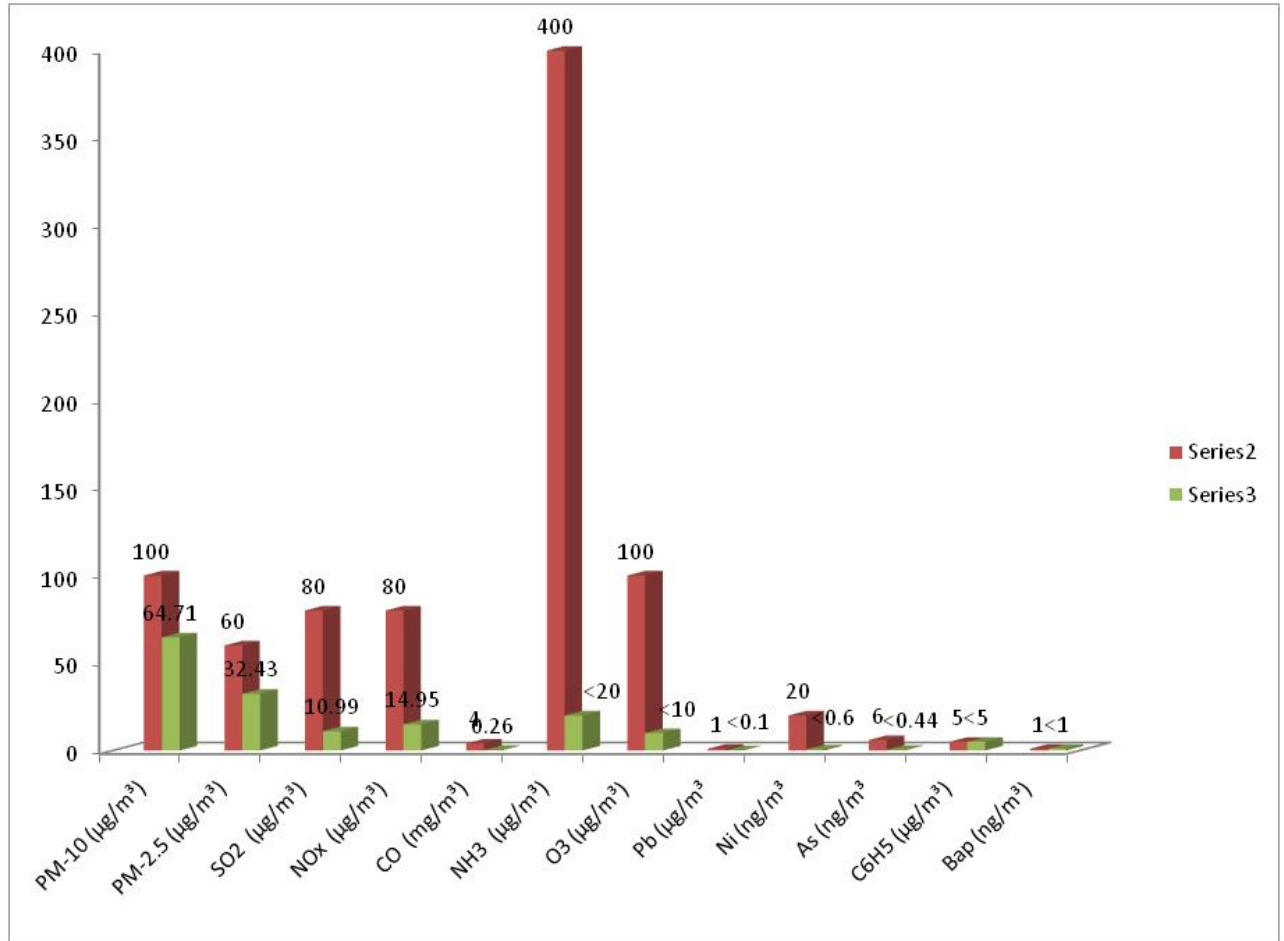
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This Graph is belongs to Station-02(Near Crusher) For the Month of Aug-25

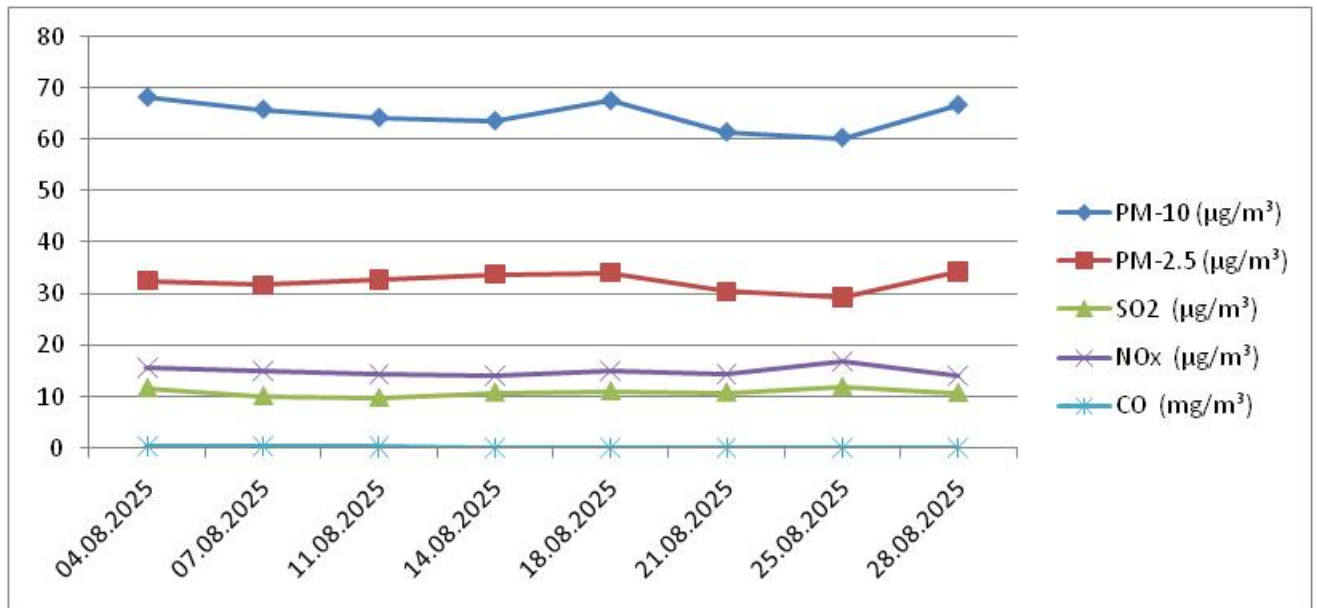
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-02(Near Crusher) For the Month of Aug-25



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/A3

Issued Date-05.09.2025

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-05092025A3
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)
04.08.2025	66.4	34.6	11.08	15.46	0.3	--	--	--	--	--	--	--
07.08.2025	63.5	31.2	9.82	13.28	0.27	--	--	--	--	--	--	--
11.08.2025	64.1	32.4	9.04	12.88	0.15	--	--	--	--	--	--	--
14.08.2025	66.9	34.2	10.06	15.24	0.19	--	--	--	--	--	--	--
18.08.2025	65.2	32.1	9.46	13.28	0.17	--	--	--	--	--	--	--
21.08.2025	68.6	35.6	11.86	16.06	0.19	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.08.2025	67.9	34.8	11.86	15.98	0.14	--	--	--	--	--	--	--
28.08.2025	62.0	32.1	10.28	15.04	0.2	--	--	--	--	--	--	--
Avg	65.58	33.38	10.43	14.65	0.2	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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)

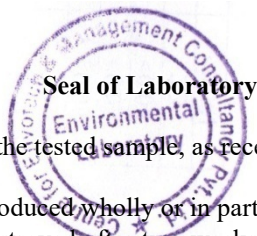
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BPDal
Authorized Signatory

Notes:

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemcpl.com

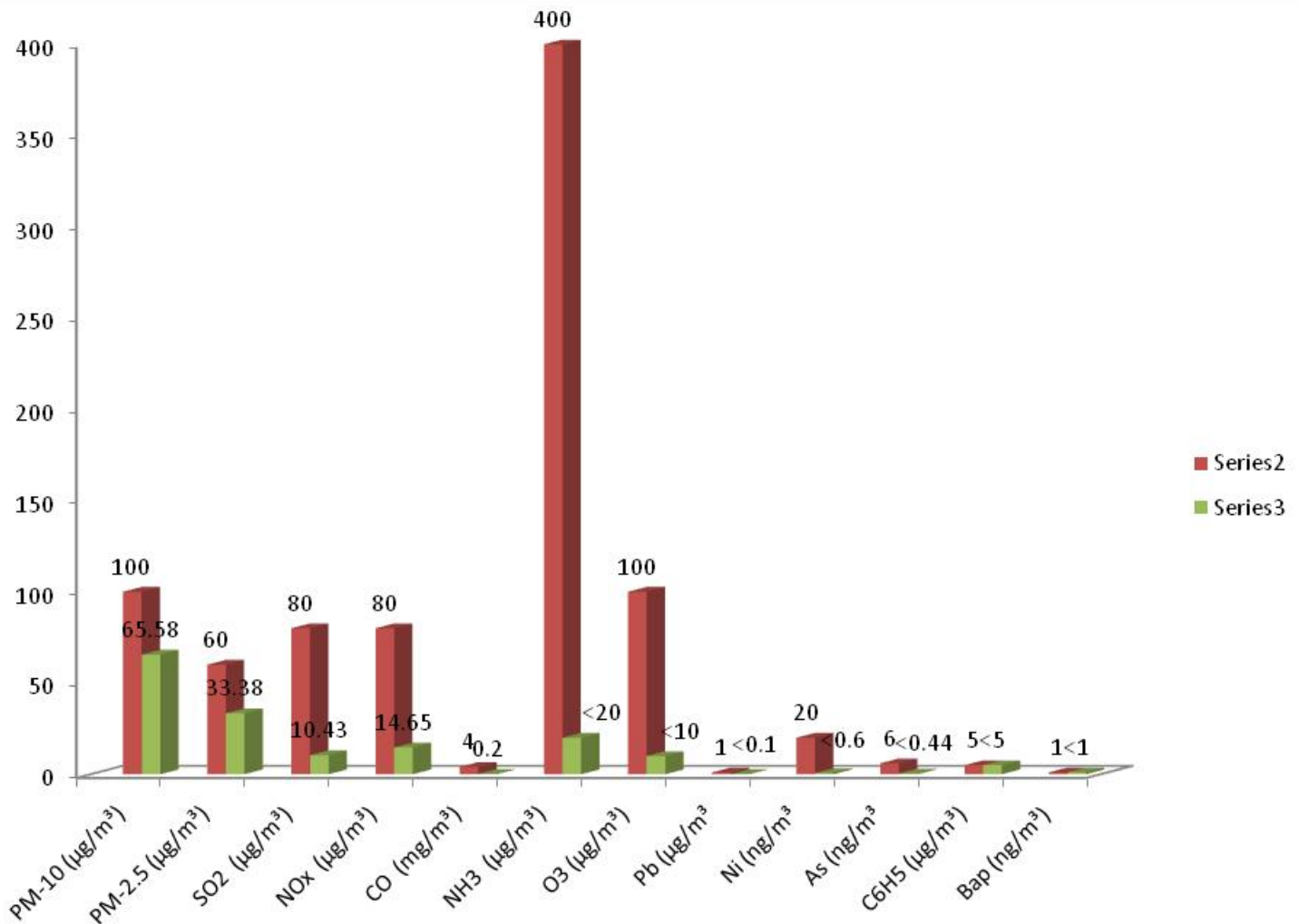
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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689



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

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

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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemcpl.com

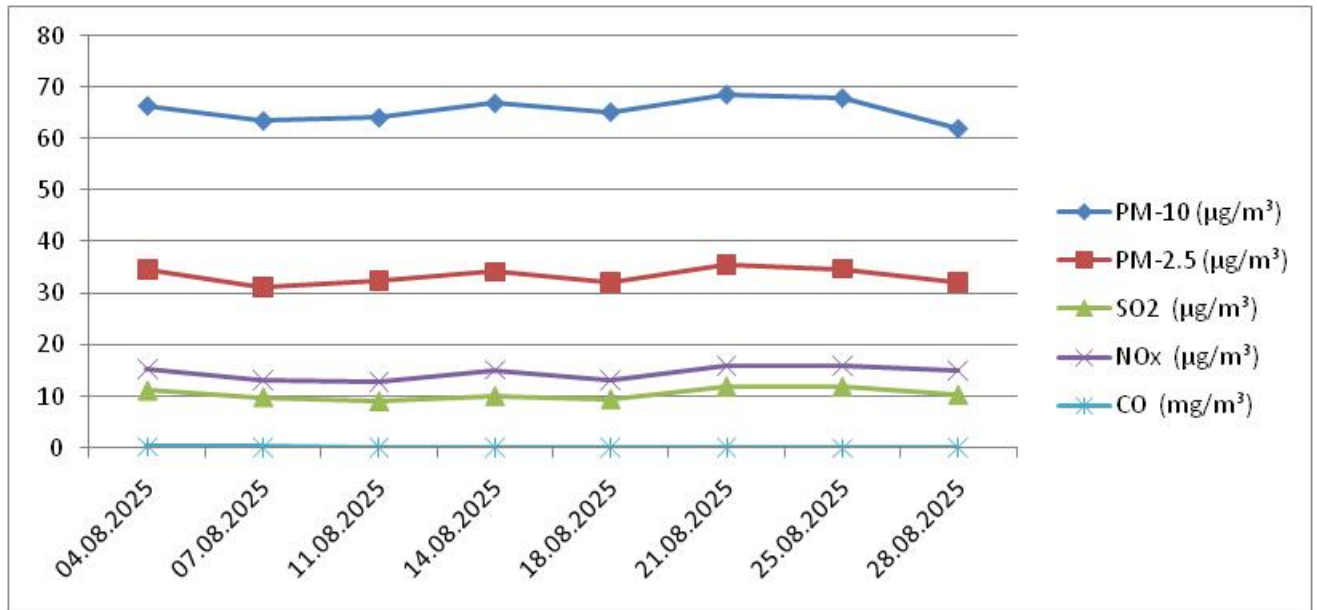
Deals with Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Hydrological Studies, Socio-economic Studies, DGPS & ETS Survey.



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689



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

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/A4

Issued Date-05.09.2025

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-05092025A4
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	21.08.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	21.08.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	21.08.2025	<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


Authorized Signatory

Seal of Laboratory

Notes:

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/W1

Issued Date-05.09.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.08.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.08.2025
Date of Analysis : 22.08.2025 to 28.08.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-05092025W1

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	7.34
3	Turbidity	NTU	--	15.4
4	Total Suspended Solids	mg/l	--	39.5
5	Iron as Fe, Max.	mg/l	50	0.22
6	Chloride as Cl, Max.	mg/l	600	39.9
7	Dissolved Solids, Max.	mg/l	1500	174
8	Dissolved Oxygen, Min.	mg/l	4	5.2
9	BOD for 3 days@ 27 ⁰ 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	23.6
13	Nitrate as NO ₃ , Max.	mg/l	50	3.0
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	<0.003
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	171
25	Faecal Coliform	MPN/100ml	--	21

, MPN-Most Probable Number

Authorized Signatory

Seal of Laboratory

END OF REPORT

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050925/W2

Issued Date-05.09.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.08.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.08.2025
Date of Analysis : 22.08.2025 to 28.08.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-05092025W2

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	7.61
3	Turbidity	NTU	--	19.2
4	Total Suspended Solids	mg/l	--	43.4
5	Iron as Fe, Max.	mg/l	50	0.52
6	Chloride as Cl, Max.	mg/l	600	43.9
7	Dissolved Solids, Max.	mg/l	1500	183
8	Dissolved Oxygen, Min.	mg/l	4	5.0
9	BOD for 3 days@ 27 ⁰ 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	33.8
13	Nitrate as NO ₃ , Max.	mg/l	50	2.0
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	210
25	Faecal Coliform	MPN/100ml	--	41

NB: 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 /050925/N

Issued Date-05.09.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-05092025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

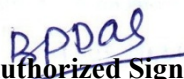
NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
21.08.2025	Near Project office	67.1	62.5	64.8	57.3	48.7	53.0
21.08.2025	Near main gate(Chamakhandi)	70.9	65.5	68.2	64.8	60.6	62.7

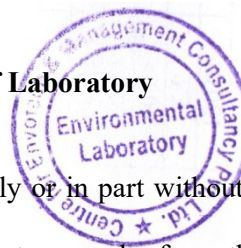
End of Report

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



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/060825/A1

Issued Date-06.08.2025

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-06082025A1
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)
01.07.2025	65.8	33.8	11.85	15.74	0.38	--	--	--	--	--	--	--
04.07.2025	62.5	30.7	12.72	16.79	0.38	--	--	--	--	--	--	--
07.07.2025	62.3	31.9	10.91	15.85	0.41	--	--	--	--	--	--	--
10.07.2025	64.7	32.6	10.08	14.93	0.36	--	--	--	--	--	--	--
14.07.2025	62.4	31.5	12.21	17.22	0.31	--	--	--	--	--	--	--
17.07.2025	65.5	33.8	12.43	16.56	0.32	--	--	--	--	--	--	--
21.07.2025	67.2	34.8	11.91	15.74	0.44	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.07.2025	60.8	31.6	10.45	14.88	0.27	--	--	--	--	--	--	--
31.07.2025	63.6	32.8	13.72	17.85	0.22	--	--	--	--	--	--	--
Avg	63.87	32.61	11.81	16.17	0.34	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

Bpdas
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Seal of Laboratory

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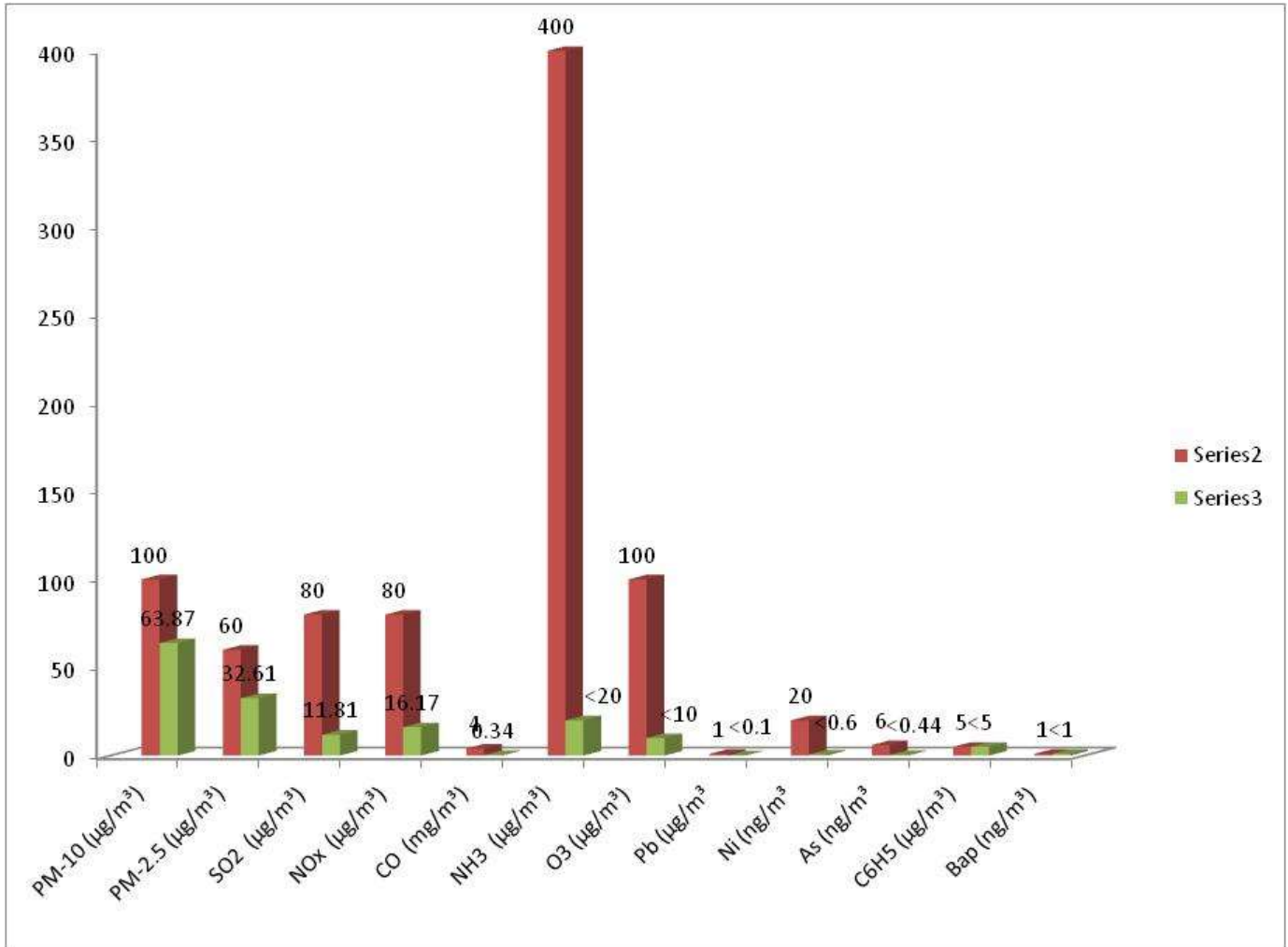
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of July-25

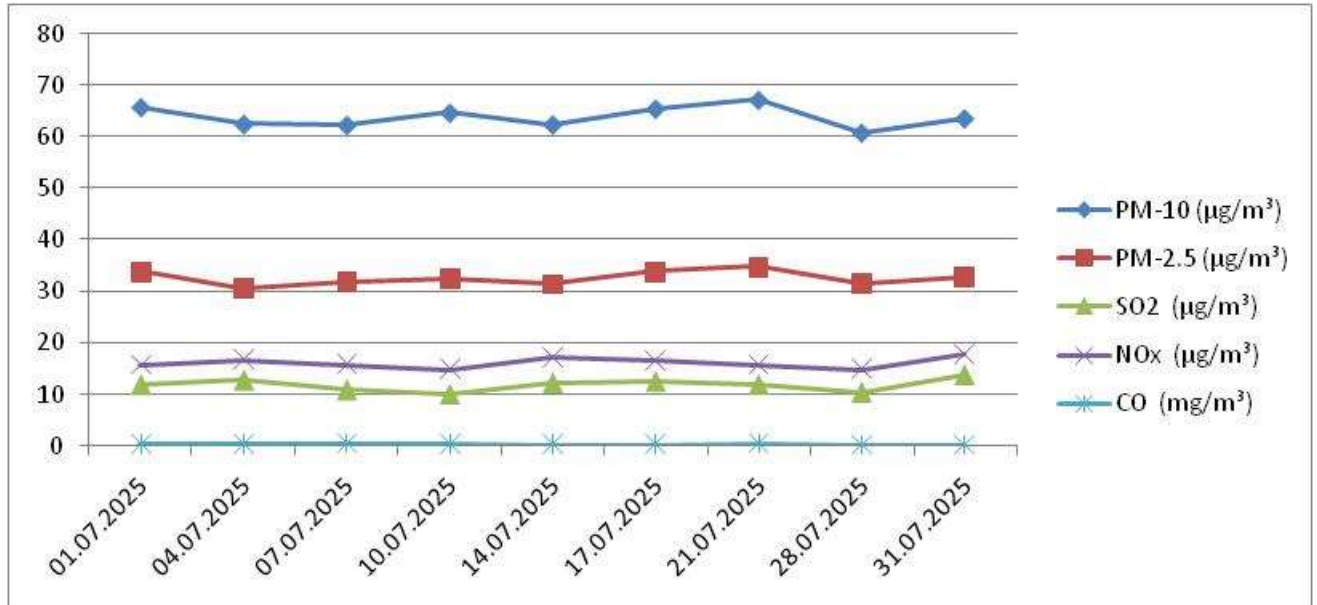
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of July-25



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Report no.-CEMC/TSSEZL/060825/A2

Issued Date-06.08.2025

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-06082025A2
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)
01.07.2025	66.8	34.2	11.21	16.22	0.3	--	--	--	--	--	--	--
04.07.2025	68.4	35.4	12.43	17.56	0.27	--	--	--	--	--	--	--
07.07.2025	64.7	33.9	10.91	15.85	0.15	--	--	--	--	--	--	--
10.07.2025	71.5	37.8	13.08	17.93	0.19	--	--	--	--	--	--	--
14.07.2025	69.4	35.8	11.85	16.74	0.17	--	--	--	--	--	--	--
17.07.2025	68.9	35.3	12.72	17.79	0.19	--	--	--	--	--	--	--
21.07.2025	61.6	31.0	6.18	10.92	0.14	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.07.2025	64.8	33.8	12.72	17.85	0.2	--	--	--	--	--	--	--
31.07.2025	62.7	31.1	13.91	18.04	0.15	--	--	--	--	--	--	--
Avg	66.53	34.26	11.67	16.54	0.20	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

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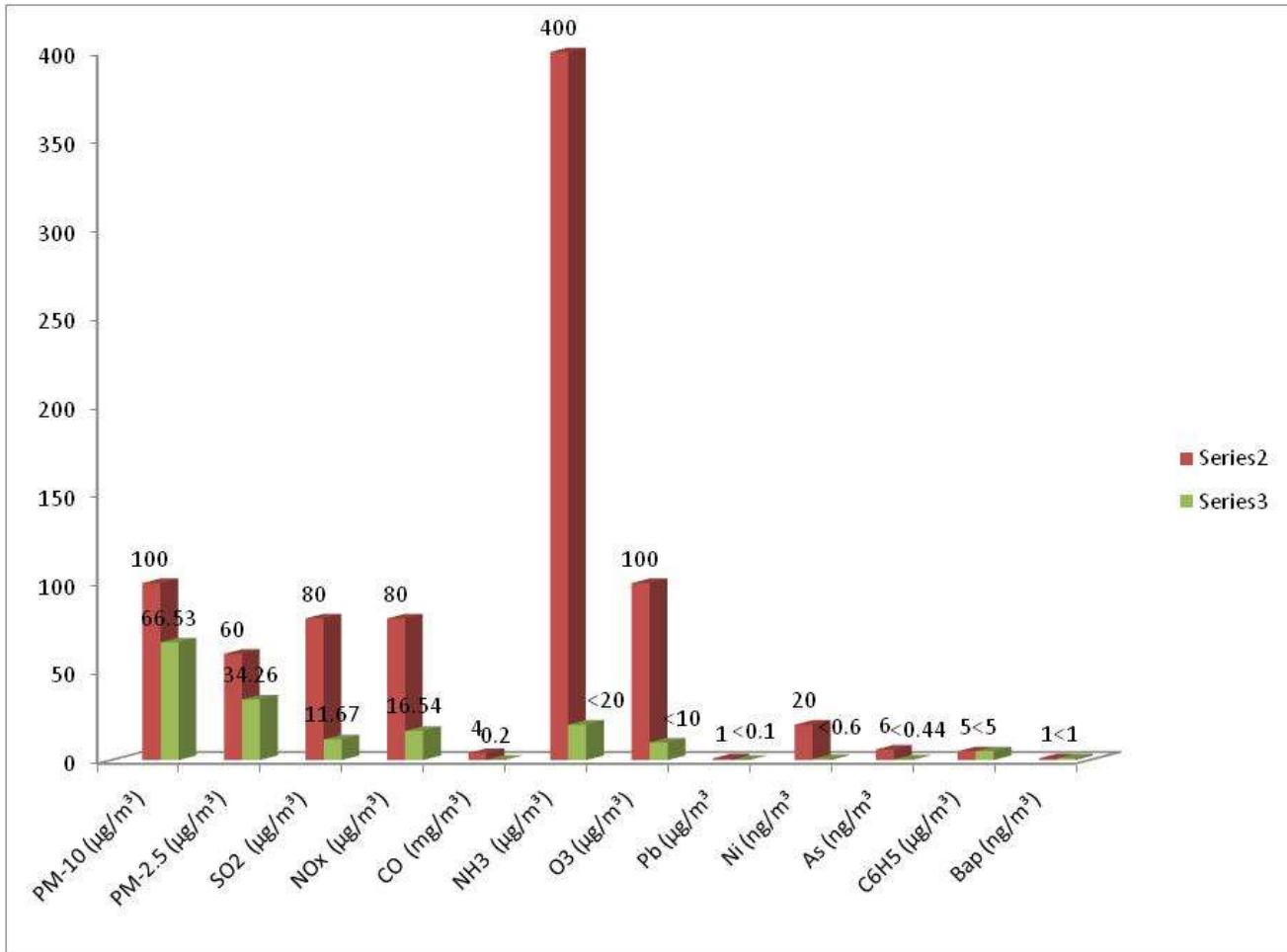
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This Graph is belongs to Station-02(Near Crusher) For the Month of July-25

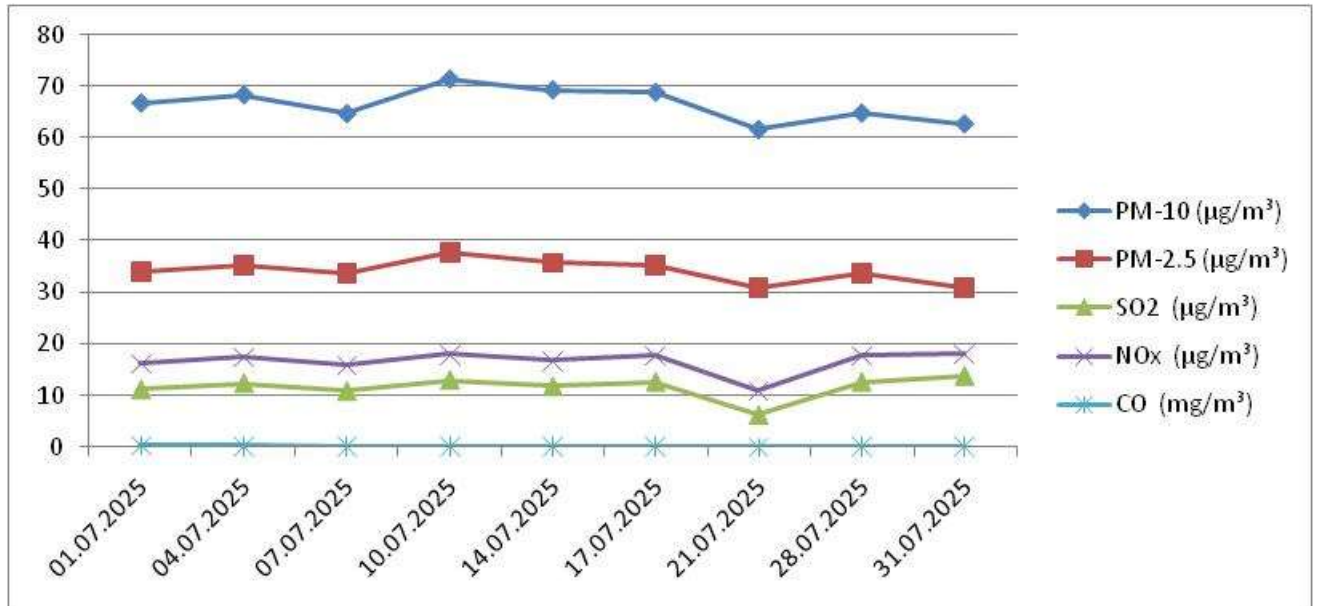
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-02(Near Crusher) For the Month of July-25

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/060825/A3

Issued Date-06.08.2025

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-06082025A3
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)
01.07.2025	64.3	33.2	8.22	13.25	0.4	--	--	--	--	--	--	--
04.07.2025	65.7	33.8	9.04	14.62	0.36	--	--	--	--	--	--	--
07.07.2025	63.4	32.5	6.94	11.82	0.3	--	--	--	--	--	--	--
10.07.2025	61.9	31.4	6.18	10.92	0.23	--	--	--	--	--	--	--
14.07.2025	64.8	33.9	7.62	11.64	0.21	--	--	--	--	--	--	--
17.07.2025	62.8	31.2	7.74	12.78	0.18	--	--	--	--	--	--	--
21.07.2025	62.6	31.2	13.91	18.04	0.2	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.07.2025	58.4	30.8	9.72	9.82	0.1	--	--	--	--	--	--	--
31.07.2025	60.2	31.4	8.94	10.64	0.15	--	--	--	--	--	--	--
Avg	62.68	32.16	8.70	12.61	0.24	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

BPDas
Authorized Signatory

Notes:

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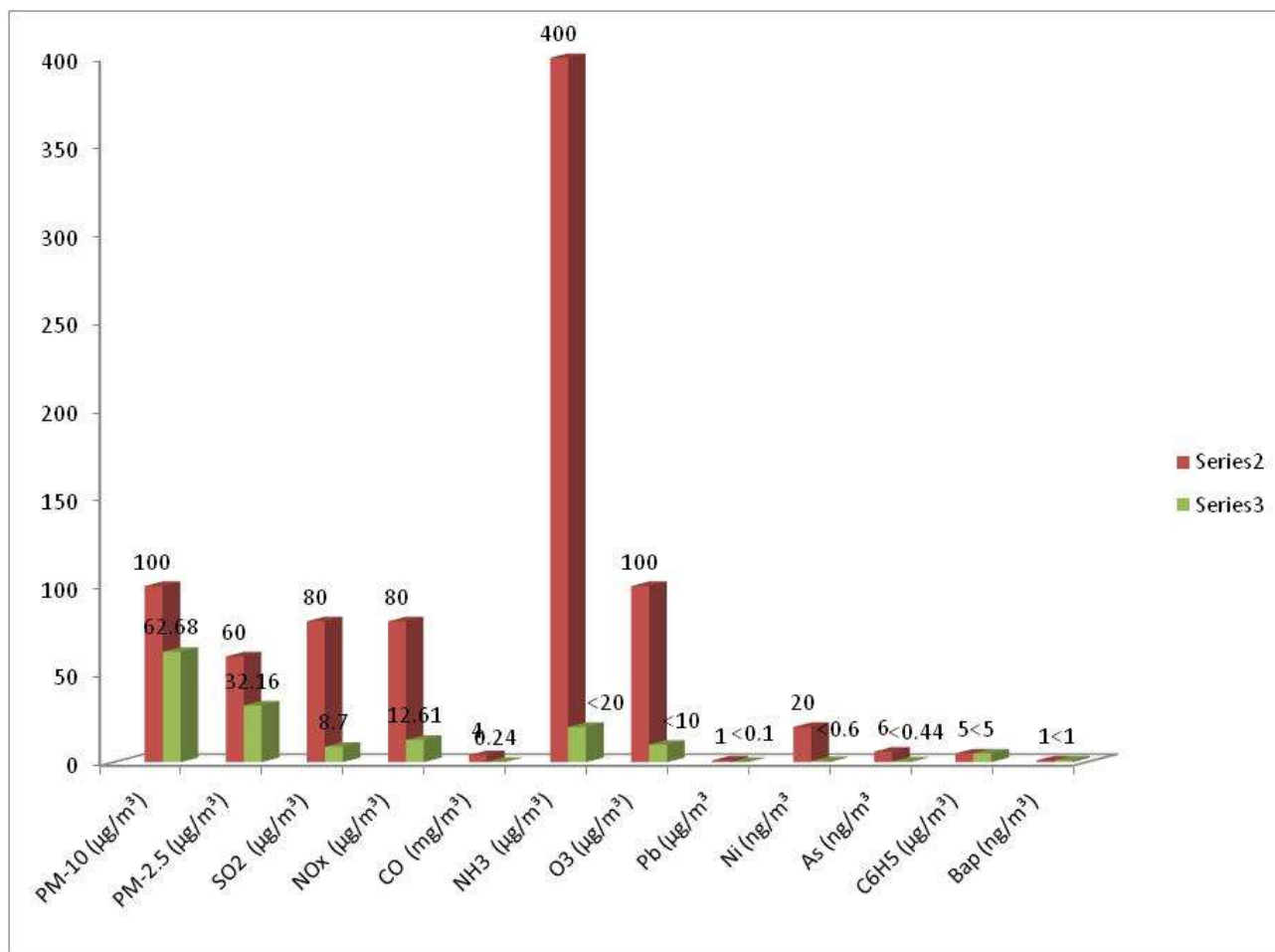
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of July-25

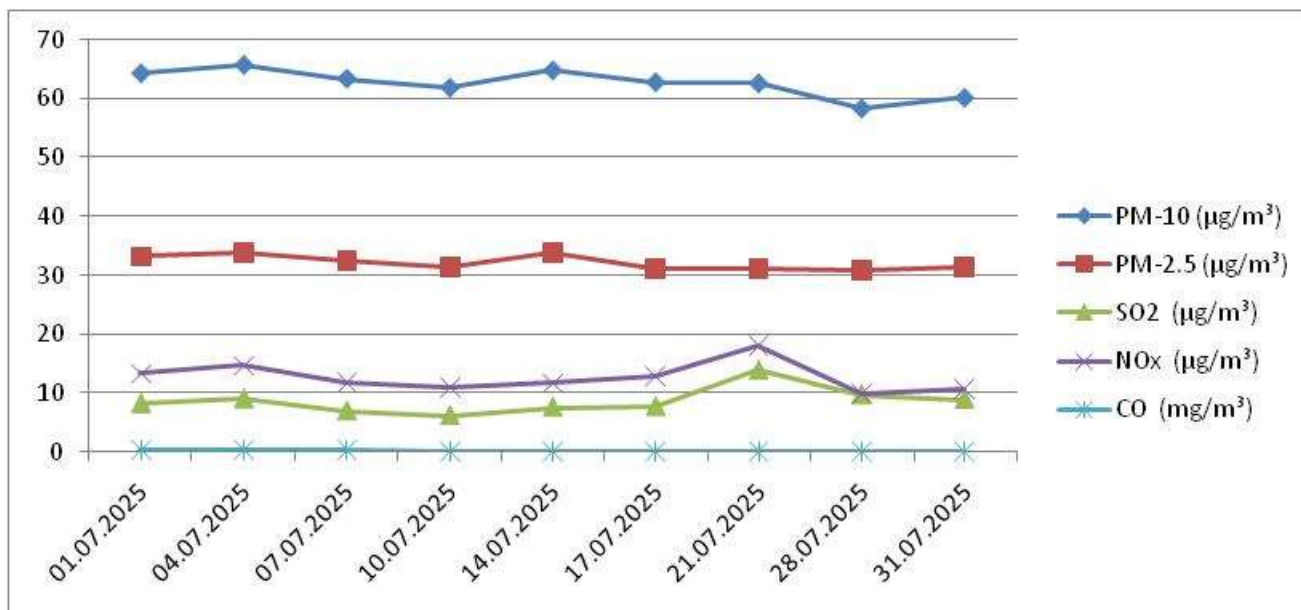
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/060825/A4

Issued Date-06.08.2025

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-06082025A4
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	21.07.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	21.07.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	21.07.2025	<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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Seal of Laboratory

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/060825/W1

Issued Date-06.08.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.07.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.07.2025
Date of Analysis : 22.07.2025 to 28.07.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-06082025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	20
2	pH Value @ 25°C	--	6.5 to 8.5	7.23
3	Turbidity	NTU	--	10.7
4	Total Suspended Solids	mg/l	--	28.6
5	Iron as Fe, Max.	mg/l	50	0.14
6	Chloride as Cl, Max.	mg/l	600	30.9
7	Dissolved Solids, Max.	mg/l	1500	167
8	Dissolved Oxygen, Min.	mg/l	4	5.4
9	BOD for 3 days@ 27 ⁰ 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	28
13	Nitrate as NO ₃ , Max.	mg/l	50	2.4
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	<0.003
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	148
25	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

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Seal of Laboratory

END OF REPORT

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/060825/W2

Issued Date-06.08.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 21.07.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 22.07.2025
Date of Analysis : 22.07.2025 to 28.07.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-06082025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	35
2	pH Value @ 25°C	--	6.5 to 8.5	7.52
3	Turbidity	NTU	--	16.4
4	Total Suspended Solids	mg/l	--	35.8
5	Iron as Fe, Max.	mg/l	50	0.42
6	Chloride as Cl, Max.	mg/l	600	39.9
7	Dissolved Solids, Max.	mg/l	1500	174
8	Dissolved Oxygen, Min.	mg/l	4	5.2
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	30.8
13	Nitrate as NO ₃ , Max.	mg/l	50	1.6
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	<0.003
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	172
25	Faecal Coliform	MPN/100ml	--	25

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Report No. - CEMC/ TSSEZL /060825/N

Issued Date-06.08.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-06082025N
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.
21.07.2025	Near Project office	65.3	59.5	62.4	58.6	53.0	55.8
21.07.2025	Near main gate(Chamakhandi)	67.0	64.2	65.6	61.4	57.2	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

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050725/A1

Issued Date-05.07.2025

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-05072025A1
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)
02.06.2025	61.6	32.9	7.82	12.76	0.44	--	--	--	--	--	--	--
05.06.2025	60.2	30.2	7.76	11.78	0.38	--	--	--	--	--	--	--
09.06.2025	65.6	38.4	11.91	15.74	0.32	--	--	--	--	--	--	--
12.06.2025	60.9	30.9	11.21	15.98	0.48	--	--	--	--	--	--	--
16.06.2025	63.3	32.4	8.21	12.26	0.55	--	--	--	--	--	--	--
19.06.2025	62.7	31.8	7.46	11.52	0.48	--	--	--	--	--	--	--
23.06.2025	64.2	33.4	9.95	13.78	0.51	<20	<10	<0.05	<3.2	<0.1	<5	<1
26.06.2025	60.8	30.2	8.76	13.78	0.42	--	--	--	--	--	--	--
30.06.2025	61.4	31.5	10.94	14.82	0.45	--	--	--	--	--	--	--
Avg	62.30	32.41	9.34	13.60	0.45	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

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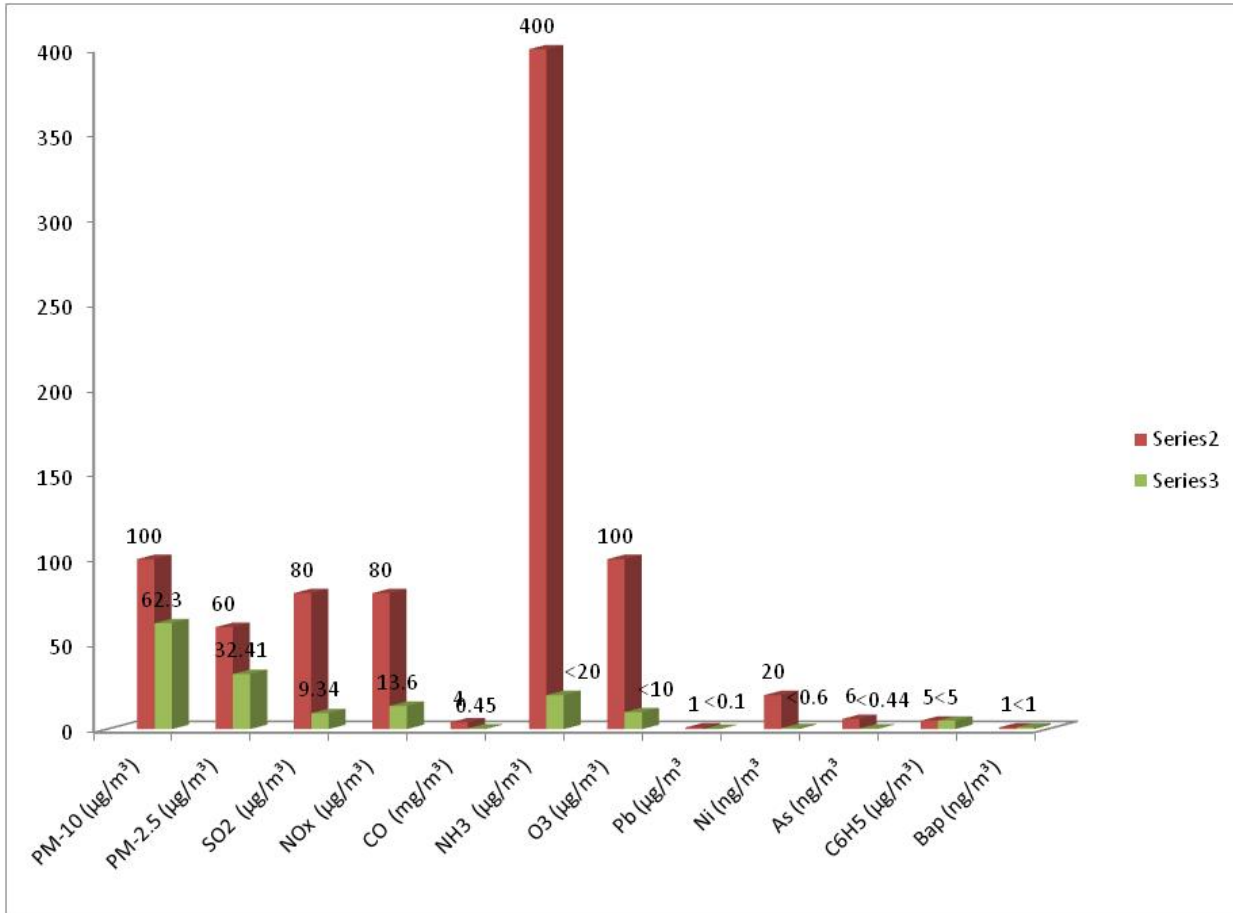
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of June-25

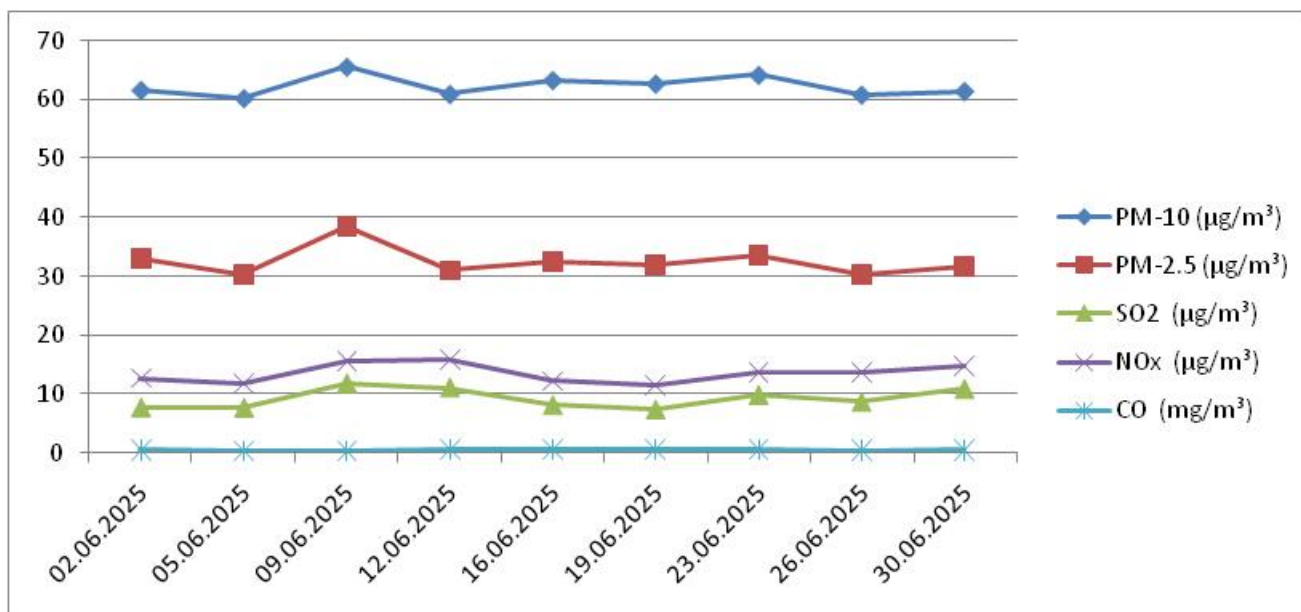
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of June-25

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Report no.-CEMC/TSSEZL/050725/A2

Issued Date-05.07.2025

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-05072025A2
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)
02.06.2025	66.2	32.6	11.86	15.98	0.33	--	--	--	--	--	--	--
05.06.2025	65.8	31.7	11.08	15.46	0.28	--	--	--	--	--	--	--
09.06.2025	64.2	32.8	9.04	12.88	0.32	--	--	--	--	--	--	--
12.06.2025	63.6	33.9	10.06	15.25	0.41	--	--	--	--	--	--	--
16.06.2025	67.5	34.2	9.46	13.28	0.36	--	--	--	--	--	--	--
19.06.2025	62.7	31.4	11.86	16.06	0.40	--	--	--	--	--	--	--
23.06.2025	64.6	33.8	10.42	15.22	0.31	--	--	--	--	--	--	--
26.06.2025	60.3	29.3	10.28	15.04	0.40	<20	<10	<0.05	<3.2	<0.1	<5	<1
30.06.2025	61.4	30.5	9.82	13.28	0.35	--	--	--	--	--	--	--
Avg	64.03	32.25	10.43	14.72	0.35	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

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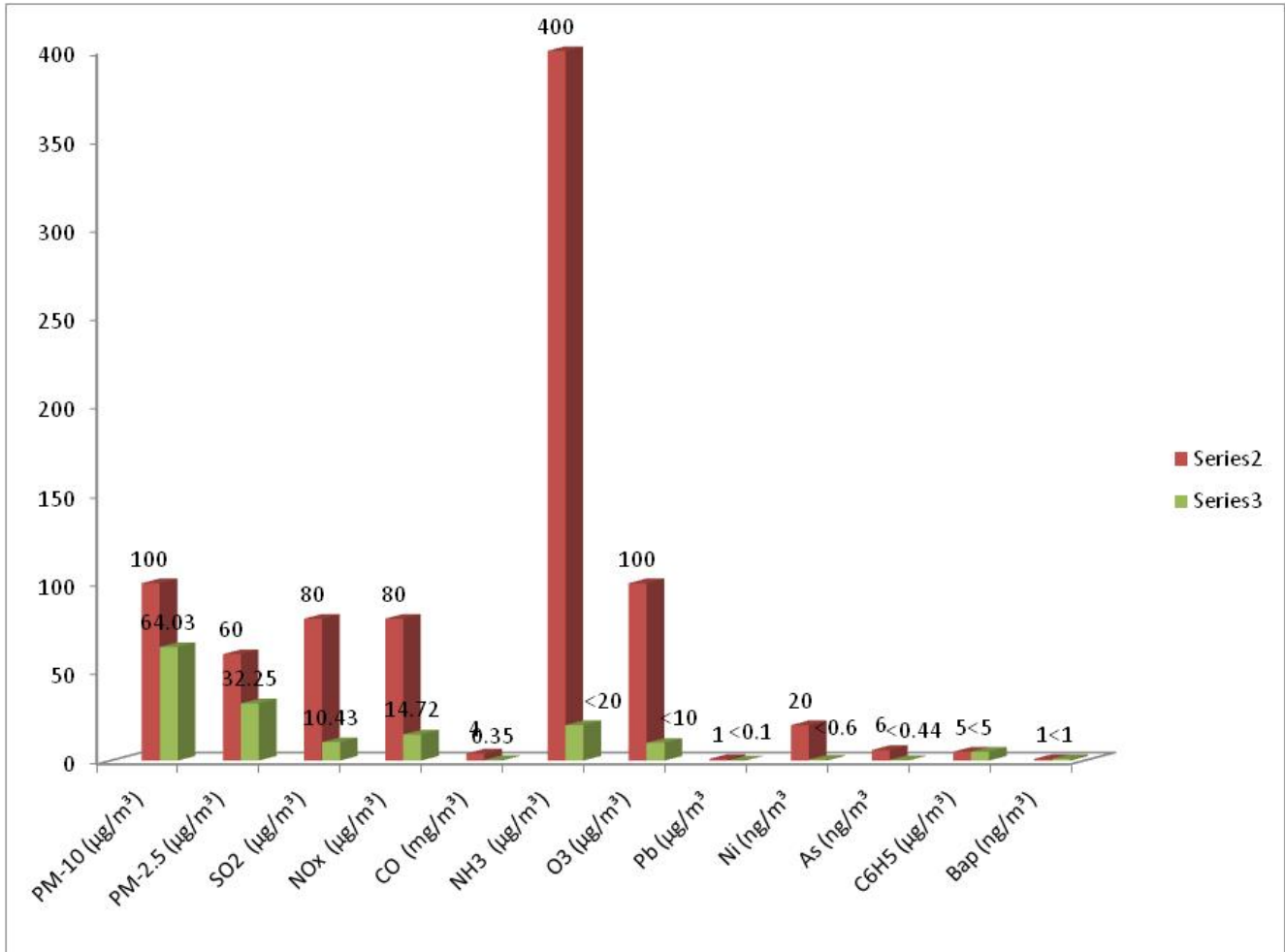
Deals with Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Hydrological Studies, Socio-economic Studies, DGPS & ETS Survey.



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This Graph is belongs to Station-02(Near Crusher) For the Month of June-25

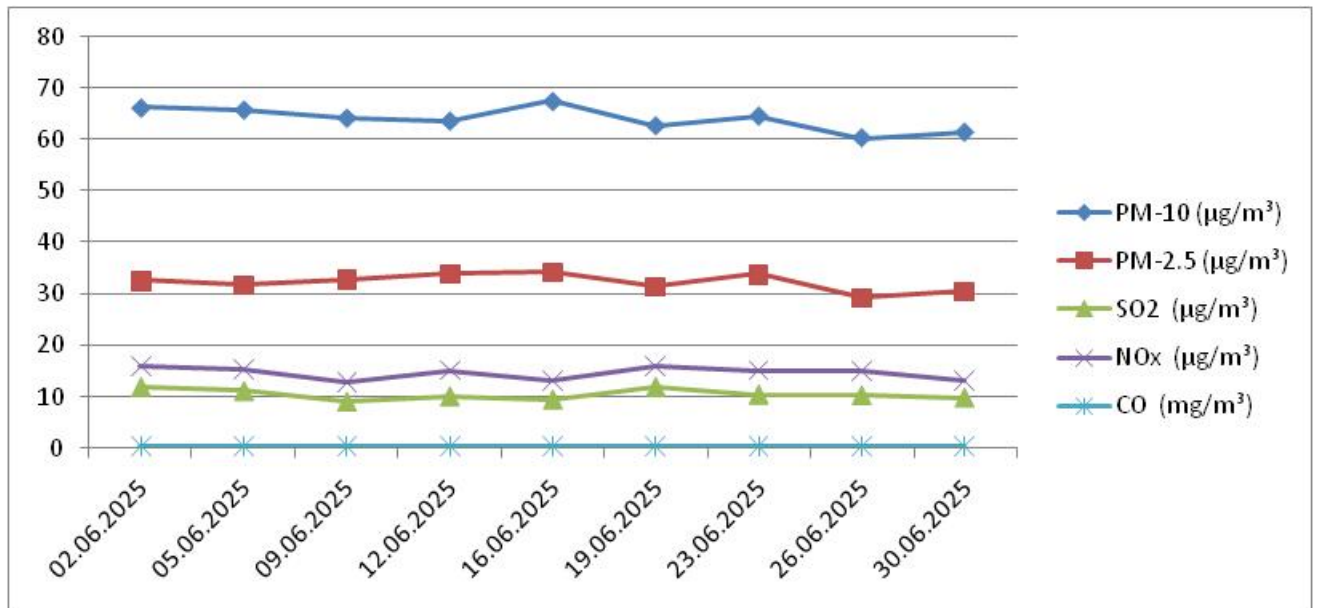
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-02(Near Crusher) For the Month of June-25



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Report no.-CEMC/TSSEZL/050725/A3

Issued Date-05.07.2025

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-05072025A3
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)
02.06.2025	58.6	29.4	9.42	13.66	0.31	--	--	--	--	--	--	--
05.06.2025	59.2	39.6	10.76	14.82	0.30	--	--	--	--	--	--	--
09.06.2025	61.6	33.0	13.66	17.76	0.41	--	--	--	--	--	--	--
12.06.2025	60.2	31.6	11.12	15.92	0.56	--	--	--	--	--	--	--
16.06.2025	58.3	30.2	12.28	16.28	0.37	--	--	--	--	--	--	--
19.06.2025	56.8	28.6	9.48	13.62	0.36	--	--	--	--	--	--	--
23.06.2025	60.9	32.2	11.84	15.64	0.32	--	--	--	--	--	--	--
26.06.2025	54.4	28.2	7.25	11.52	0.37	<20	<10	<0.05	<3.2	<0.1	<5	<1
30.06.2025	57.6	29.8	8.82	12.88	0.33	--	--	--	--	--	--	--
Avg	58.62	31.40	10.51	14.68	0.37	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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)

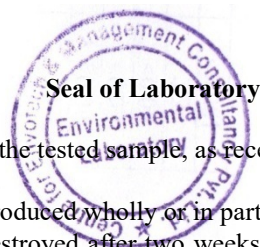
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BPDal
Authorized Signatory

Notes:

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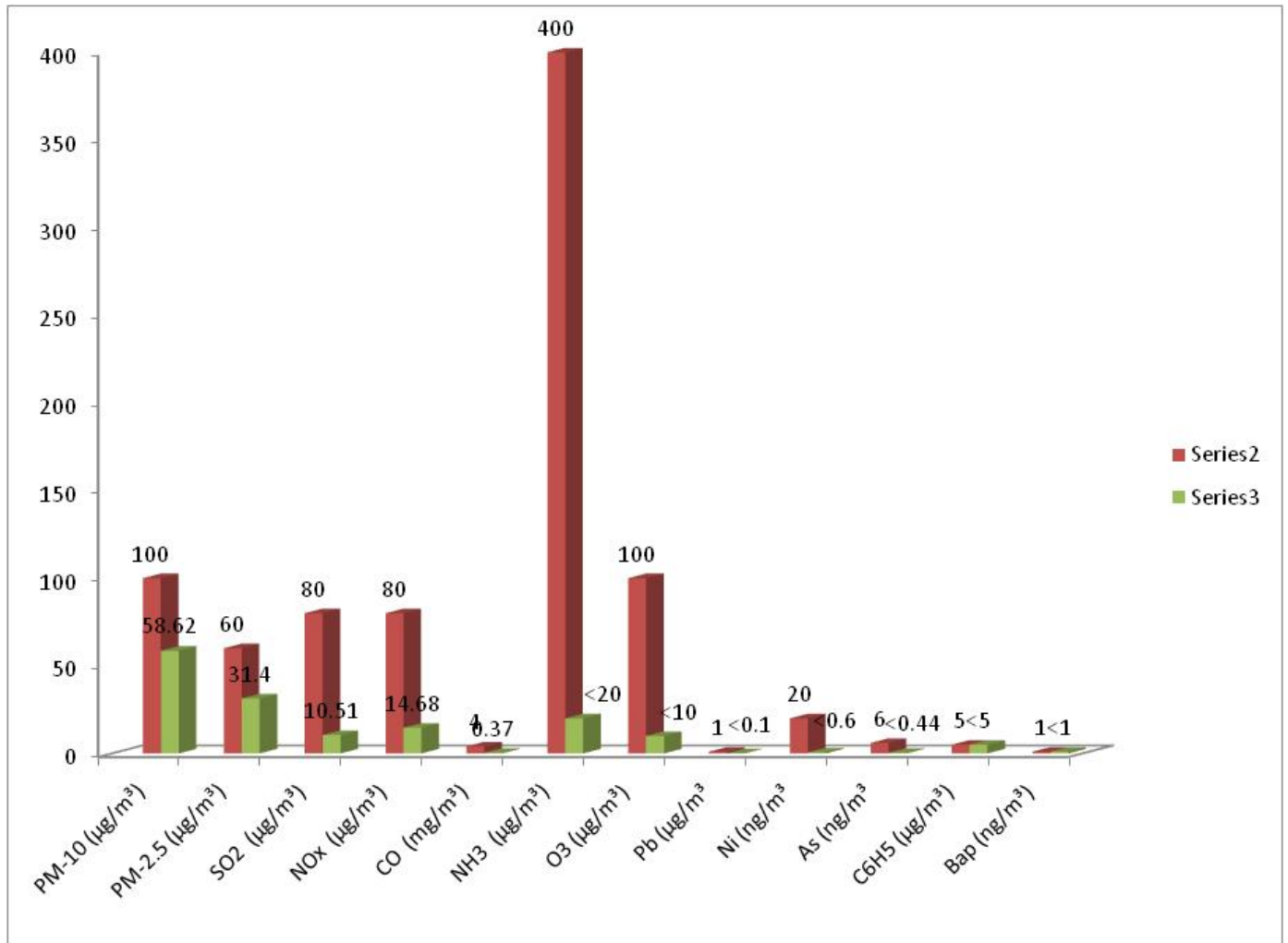
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of June-25

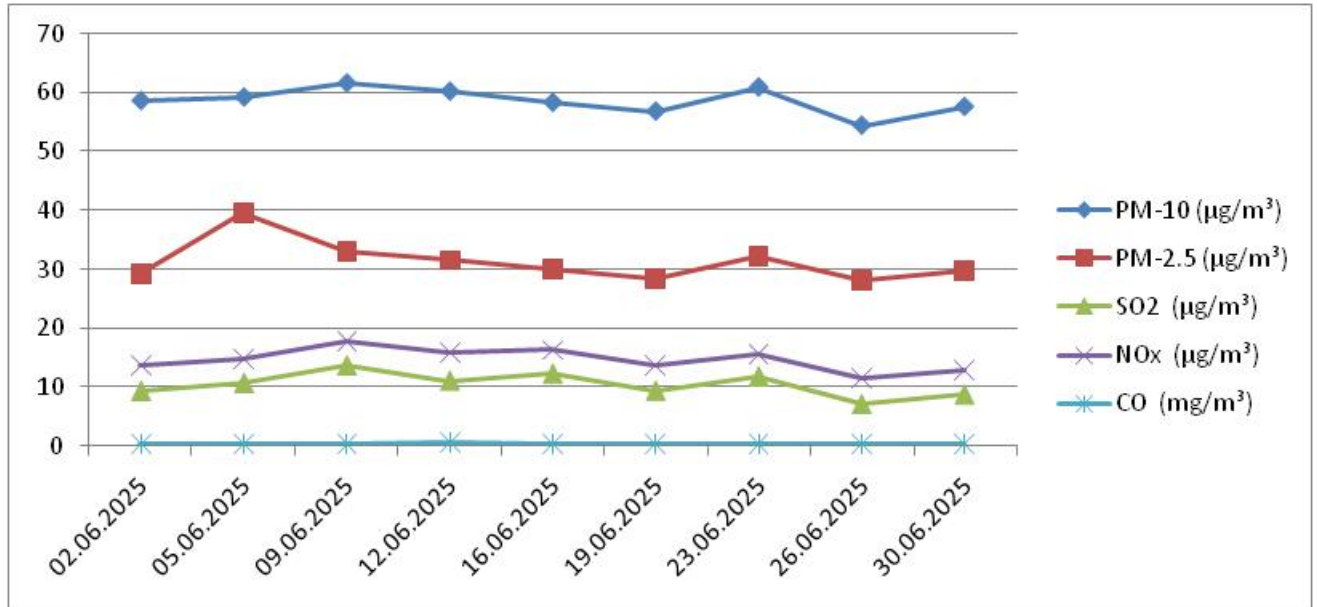
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050725/A4

Issued Date-05.07.2025

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-05072025A4
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	23.06.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	23.06.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	23.06.2025	<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

R.P. Das
Authorized Signatory

Seal of Laboratory

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Report no.-CEMC/TSSEZL/050725/W1

Issued Date-05.07.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 23.06.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 24.06.2025
Date of Analysis : 24.06.2025 to 30.06.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-05072025W1

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	7.41
3	Turbidity	NTU	--	12.8
4	Total Suspended Solids	mg/l	--	32
5	Iron as Fe, Max.	mg/l	50	0.12
6	Chloride as Cl, Max.	mg/l	600	30.9
7	Dissolved Solids, Max.	mg/l	1500	177
8	Dissolved Oxygen, Min.	mg/l	4	6.0
9	BOD for 3 days@ 27 ⁰ 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	28.4
13	Nitrate as NO ₃ , Max.	mg/l	50	4.2
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	<0.003
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	--	26

, MPN-Most Probable Number

Authorized Signatory

Seal of Laboratory

END OF REPORT

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Report no.-CEMC/TSSEZL/050725/W2

Issued Date-05.07.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 23.06.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 24.06.2025
Date of Analysis : 24.06.2025 to 30.06.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-05072025W2

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	7.61
3	Turbidity	NTU	--	18.6
4	Total Suspended Solids	mg/l	--	38
5	Iron as Fe, Max.	mg/l	50	0.35
6	Chloride as Cl, Max.	mg/l	600	41.9
7	Dissolved Solids, Max.	mg/l	1500	183
8	Dissolved Oxygen, Min.	mg/l	4	5.7
9	BOD for 3 days@ 27 ⁰ 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	36.2
13	Nitrate as NO ₃ , Max.	mg/l	50	4.26
14	Fluoride as F, Max.	mg/l	1.5	0.22
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	221
25	Faecal Coliform	MPN/100ml	--	43

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Report No. - CEMC/ TSSEZL /050725/N

Issued Date-05.07.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-05072025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

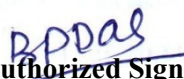
NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
23.06.2025	Near Project office	64.6	60.2	62.4	58.3	53.9	56.1
23.06.2025	Near main gate(Chamakhandi)	69.8	65.8	67.8	61.9	57.3	59.6

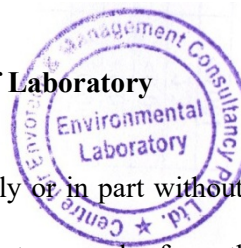
End of Report

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


Authorized Signatory

Seal of Laboratory



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Report no.-CEMC/TSSEZL/030625/A1

Issued Date-03.06.2025

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-03062025A1
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)
01.05.2025	65.4	34.2	10.73	13.86	0.34	--	--	--	--	--	--	--
05.05.2025	62.6	31.7	10.49	14.65	0.45	--	--	--	--	--	--	--
08.05.2025	63.7	32.5	11.25	14.32	0.47	--	--	--	--	--	--	--
12.05.2025	65.9	33.6	10.24	13.36	0.36	--	--	--	--	--	--	--
15.05.2025	66.5	34.5	11.25	15.34	0.49	--	--	--	--	--	--	--
19.05.2025	61.7	32.5	10.82	14.34	0.46	--	--	--	--	--	--	--
22.05.2025	63.1	33.2	11.62	16.22	0.4	<20	<10	<0.05	<3.2	<0.1	<5	<1
26.05.2025	60.3	31.8	11.38	15.62	0.51	--	--	--	--	--	--	--
29.05.2025	64.8	33.6	10.65	14.56	0.49	--	--	--	--	--	--	--
Avg	63.78	33.07	10.94	14.70	0.44	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

Bpdal
Authorized Signatory

Seal of Laboratory

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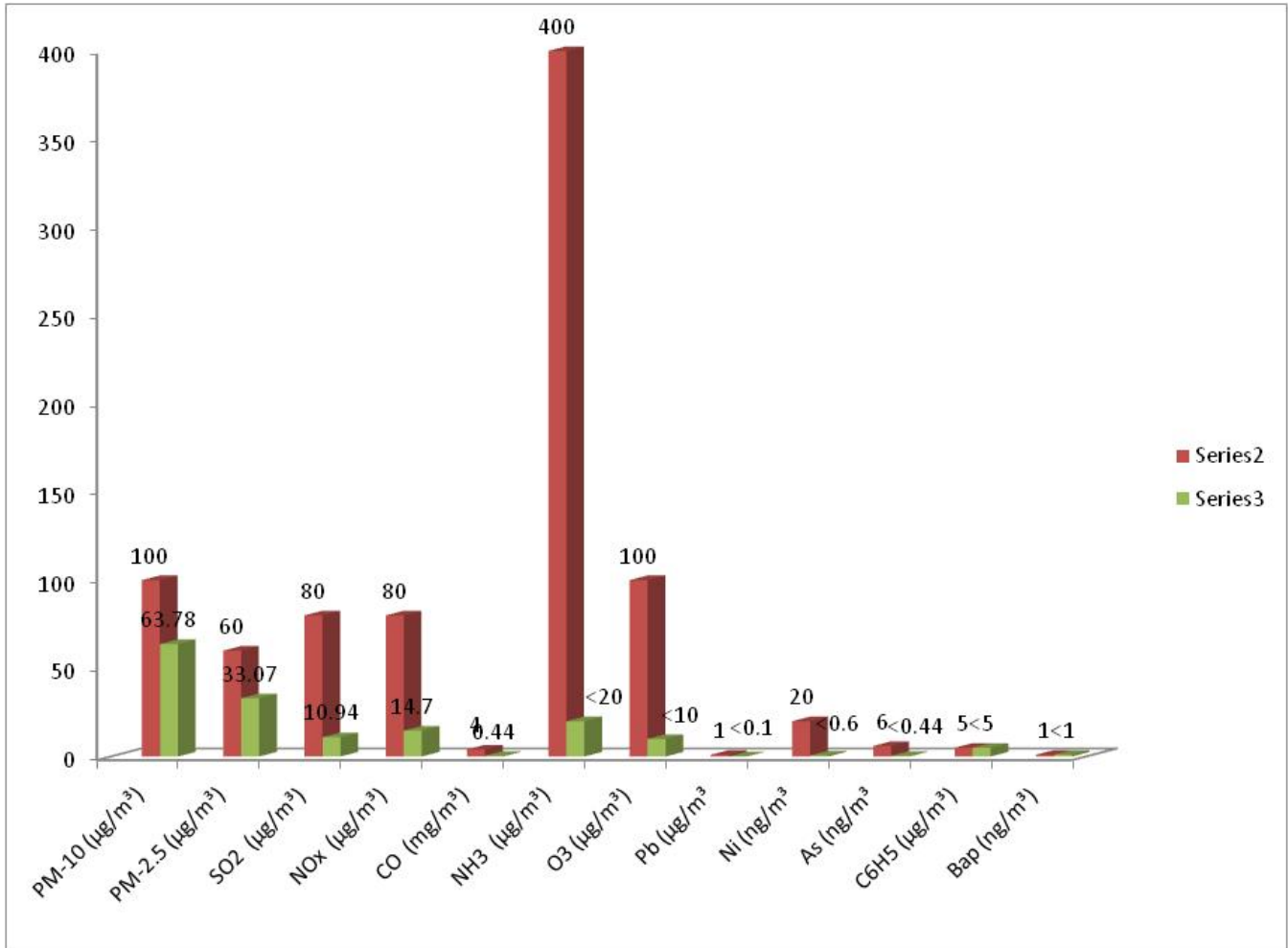
Deals with Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Hydrological Studies, Socio-economic Studies, DGPS & ETS Survey.



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689



This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of May-25

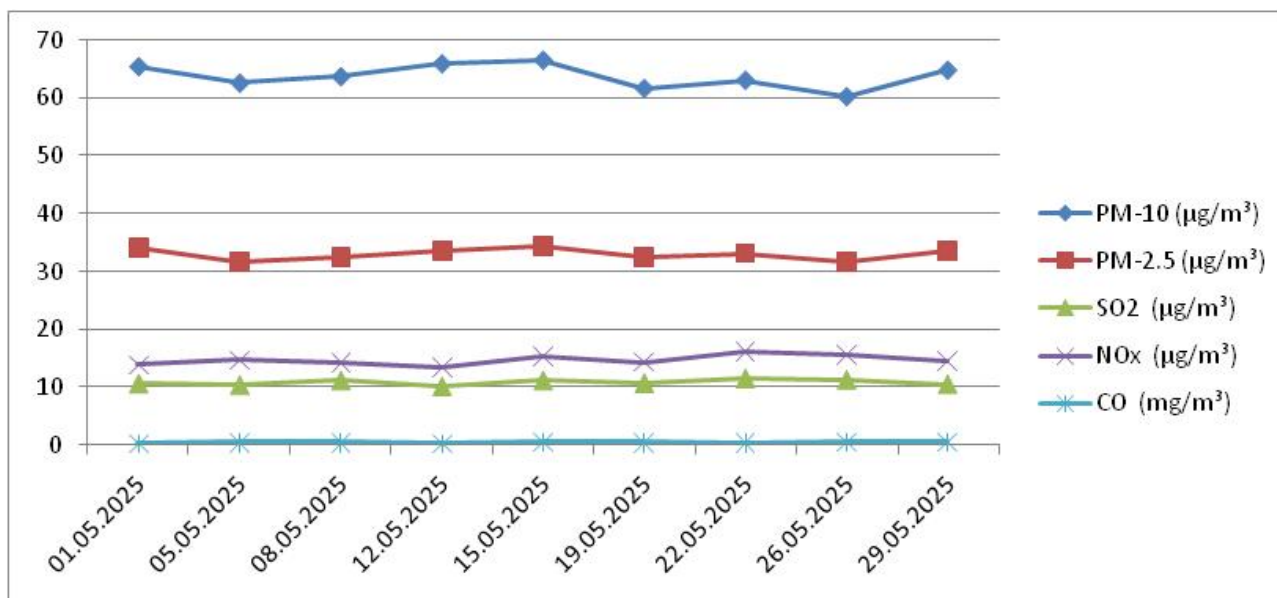
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of May-25



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/030625/A2

Issued Date-03.06.2025

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-03062025A2
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)
01.05.2025	65.6	34.6	11.62	13.92	0.52	--	--	--	--	--	--	--
05.05.2025	66.2	35.4	11.12	13.73	0.49	--	--	--	--	--	--	--
08.05.2025	63.6	32.0	10.76	15.62	0.51	--	--	--	--	--	--	--
12.05.2025	62.2	33.2	13.82	15.34	0.61	--	--	--	--	--	--	--
15.05.2025	64.8	32.5	11.92	15.32	0.46	--	--	--	--	--	--	--
19.05.2025	65.6	34.4	10.41	14.32	0.51	--	--	--	--	--	--	--
22.05.2025	67.4	35.8	12.88	16.12	0.47	--	--	--	--	--	--	--
26.05.2025	63.2	32.2	10.14	14.32	0.51	<20	<10	<0.05	<3.2	<0.1	<5	<1
29.05.2025	64.4	33.8	11.34	14.43	0.44	--	--	--	--	--	--	--
Avg	64.78	33.77	11.56	14.79	0.50	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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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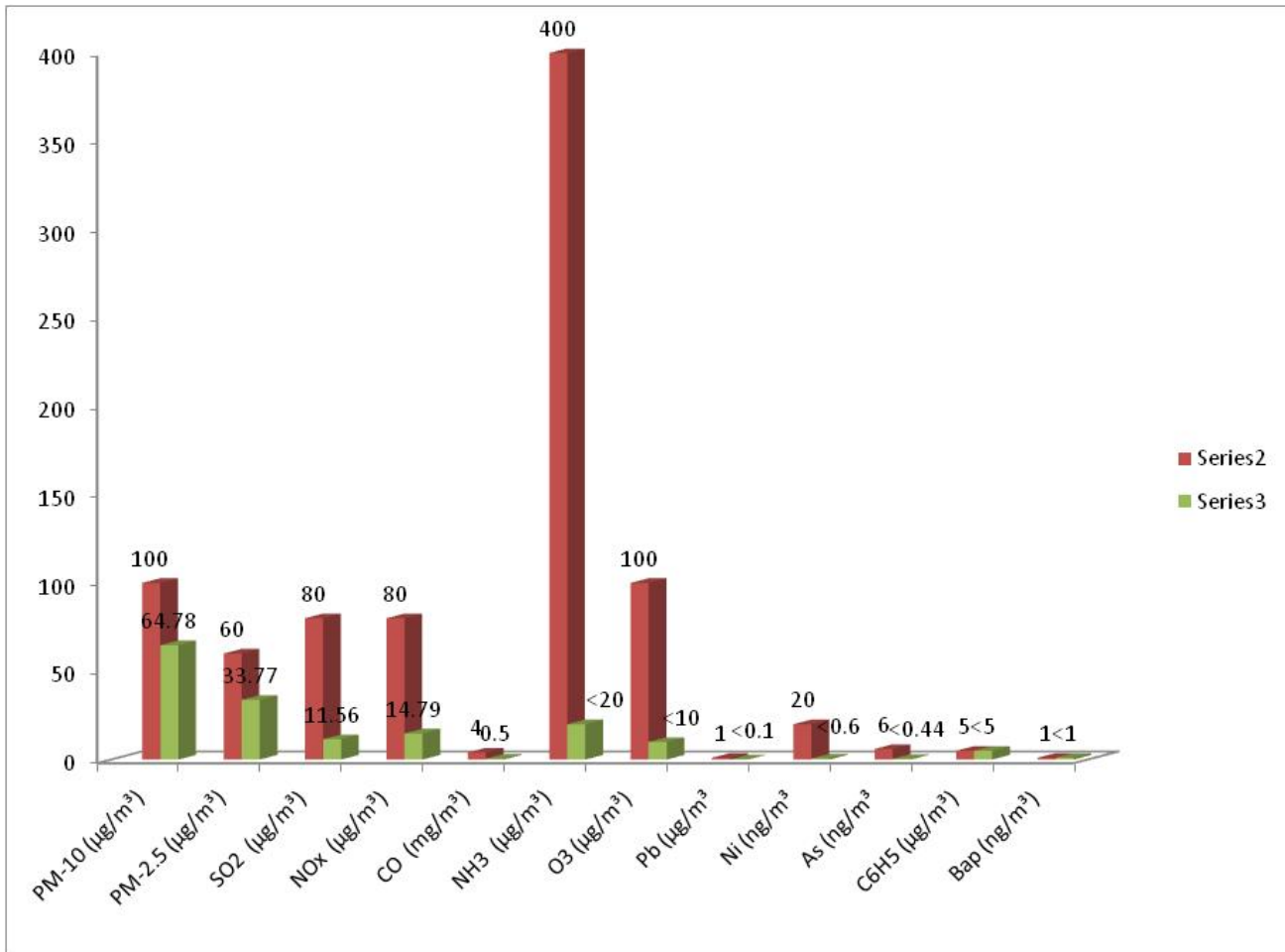
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This Graph is belongs to Station-02(Near Crusher) For the Month of May-25

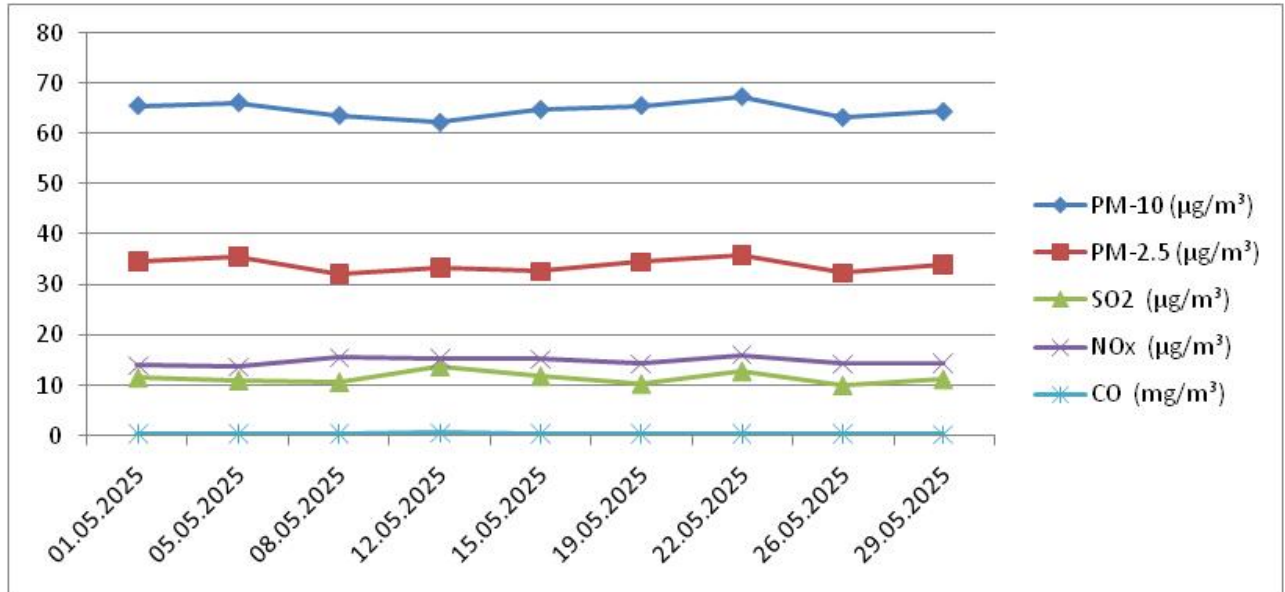
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This Graph is belongs to Station-02(Near Crusher) For the Month of May-25



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/030625/A3

Issued Date-03.06.2025

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-03062025A3
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)
01.05.2025	63.8	34.6	7.72	11.38	0.38	--	--	--	--	--	--	--
05.05.2025	62.9	32.4	7.42	11.96	0.3	--	--	--	--	--	--	--
08.05.2025	60.1	31.4	8.38	13.24	0.35	--	--	--	--	--	--	--
12.05.2025	60.8	30.2	8.32	12.34	0.41	--	--	--	--	--	--	--
15.05.2025	62.2	31.2	8.66	12.92	0.36	--	--	--	--	--	--	--
19.05.2025	63.6	33.2	9.42	13.34	0.41	--	--	--	--	--	--	--
22.05.2025	59.8	30.6	9.86	14.12	0.38	--	--	--	--	--	--	--
26.05.2025	61.4	32.6	8.58	12.45	0.36	<20	<10	<0.05	<3.2	<0.1	<5	<1
29.05.2025	60.2	30.4	7.94	12.34	0.4	--	--	--	--	--	--	--
Avg	61.64	31.84	8.48	12.68	0.37	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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)

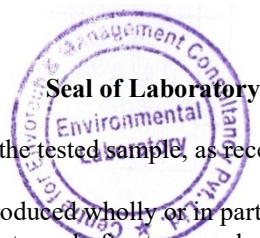
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BPDal
Authorized Signatory

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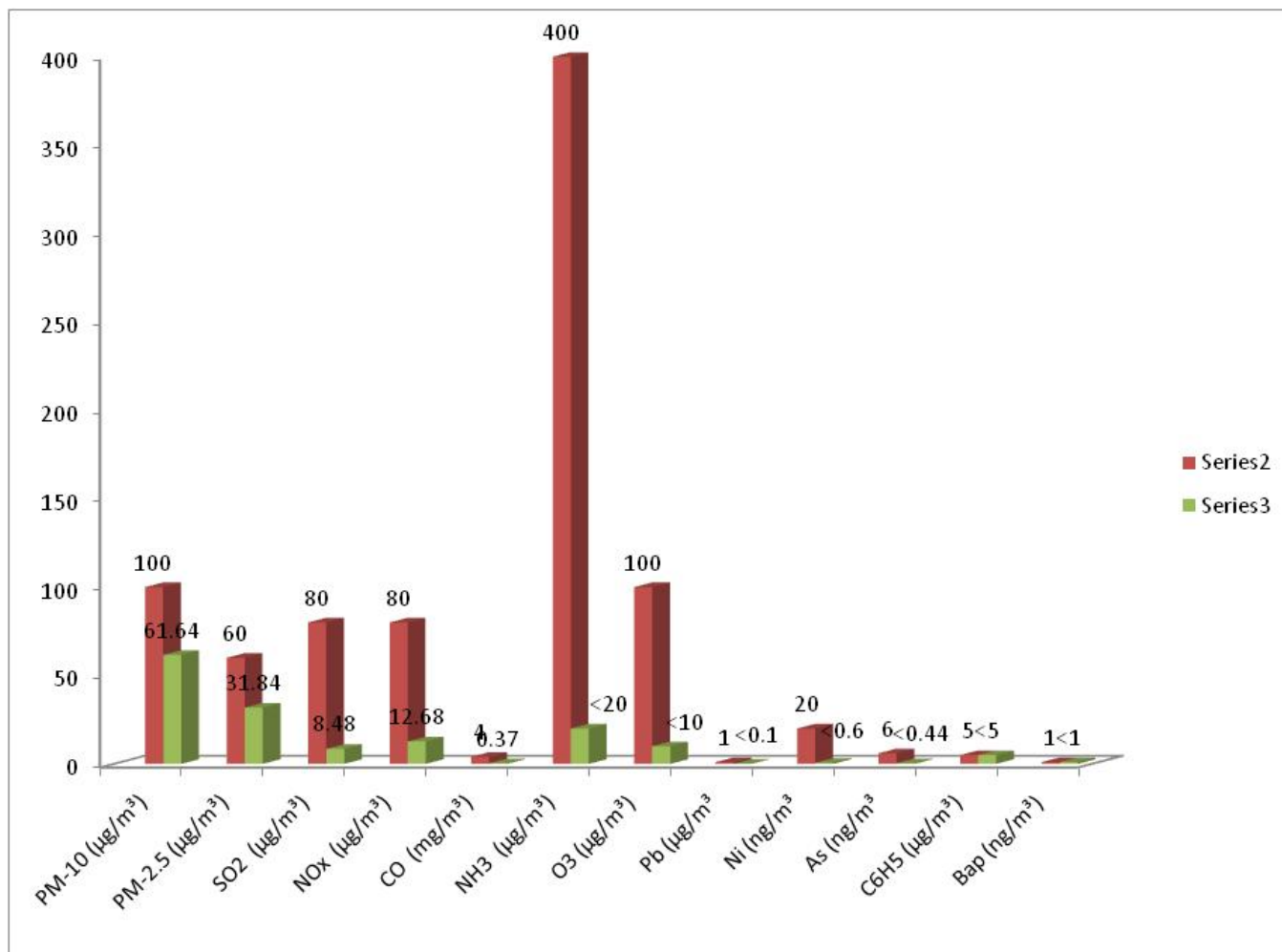
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of May-25

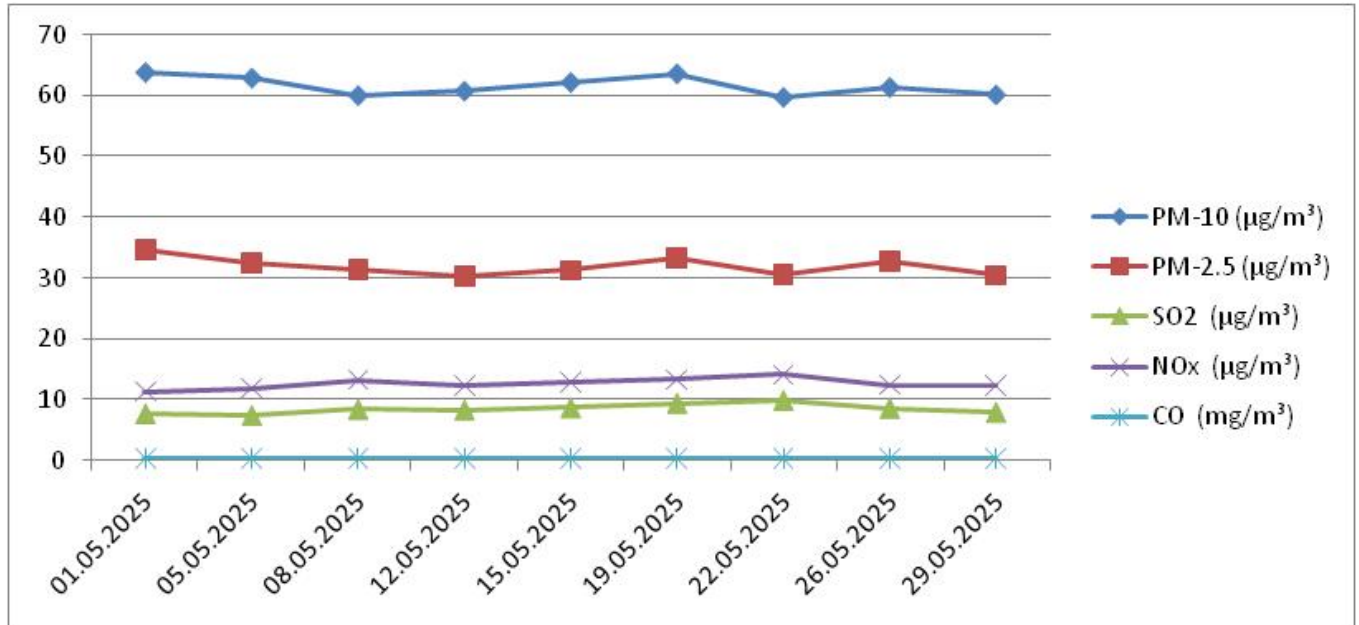
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/030625/A4

Issued Date-03.06.2025

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-03062025A4
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	22.05.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	22.05.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	22.05.2025	<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


Authorized Signatory

Seal of Laboratory

Notes:

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/030625/W1

Issued Date-03.06.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 22.05.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 23.05.2025
Date of Analysis : 23.05.2025 to 31.05.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-03062025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	20
2	pH Value @ 25°C	--	6.5 to 8.5	7.13
3	Turbidity	NTU	--	5.3
4	Total Suspended Solids	mg/l	--	21
5	Iron as Fe, Max.	mg/l	50	0.18
6	Chloride as Cl, Max.	mg/l	600	39.9
7	Dissolved Solids, Max.	mg/l	1500	179
8	Dissolved Oxygen, Min.	mg/l	4	6.1
9	BOD for 3 days@ 27 ⁰ 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	25.8
13	Nitrate as NO ₃ , Max.	mg/l	50	3.4
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	110
25	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

Authorized Signatory

Seal of Laboratory

END OF REPORT

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Report no.-CEMC/TSSEZL/030625/W2

Issued Date-03.06.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.05.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.05.2025
Date of Analysis : 25.05.2025 to 01.05.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-03062025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	30
2	pH Value @ 25°C	--	6.5 to 8.5	7.43
3	Turbidity	NTU	--	15.2
4	Total Suspended Solids	mg/l	--	32
5	Iron as Fe, Max.	mg/l	50	0.42
6	Chloride as Cl, Max.	mg/l	600	49.9
7	Dissolved Solids, Max.	mg/l	1500	191
8	Dissolved Oxygen, Min.	mg/l	4	5.3
9	BOD for 3 days@ 27 ⁰ 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	34.6
13	Nitrate as NO ₃ , Max.	mg/l	50	3.8
14	Fluoride as F, Max.	mg/l	1.5	0.22
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	210
25	Faecal Coliform	MPN/100ml	--	31

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report No. - CEMC/ TSSEZL /030625/N

Issued Date-03.06.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03062025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

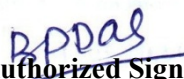
NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
22.05.2025	Near Project office	66.3	58.5	62.4	57.4	52.8	55.1
22.05.2025	Near main gate(Chamakhandi)	68.1	63.3	65.7	62.5	55.9	59.2

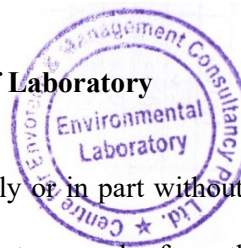
End of Report

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



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/061025/A1

Issued Date-06.10.2025

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-061025A1
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)
01.09.2025	63.7	31.7	9.75	13.64	0.25	--	--	--	--	--	--	--
04.09.2025	60.4	28.6	10.62	14.69	0.25	--	--	--	--	--	--	--
08.09.2025	60.2	29.8	8.81	13.75	0.28	--	--	--	--	--	--	--
11.09.2025	62.6	30.5	7.98	12.83	0.23	--	--	--	--	--	--	--
15.09.2025	60.3	29.4	10.11	15.12	0.18	--	--	--	--	--	--	--
18.09.2025	63.4	31.7	10.33	14.46	0.19	--	--	--	--	--	--	--
22.09.2025	65.1	32.7	9.81	13.64	0.31	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.09.2025	58.7	29.5	8.35	12.78	0.14	--	--	--	--	--	--	--
29.09.2025	61.5	30.7	11.62	15.75	0.09	--	--	--	--	--	--	--
Avg	61.77	30.51	9.71	14.07	0.21	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

Bpdal
Authorized Signatory

Seal of Laboratory

Notes:

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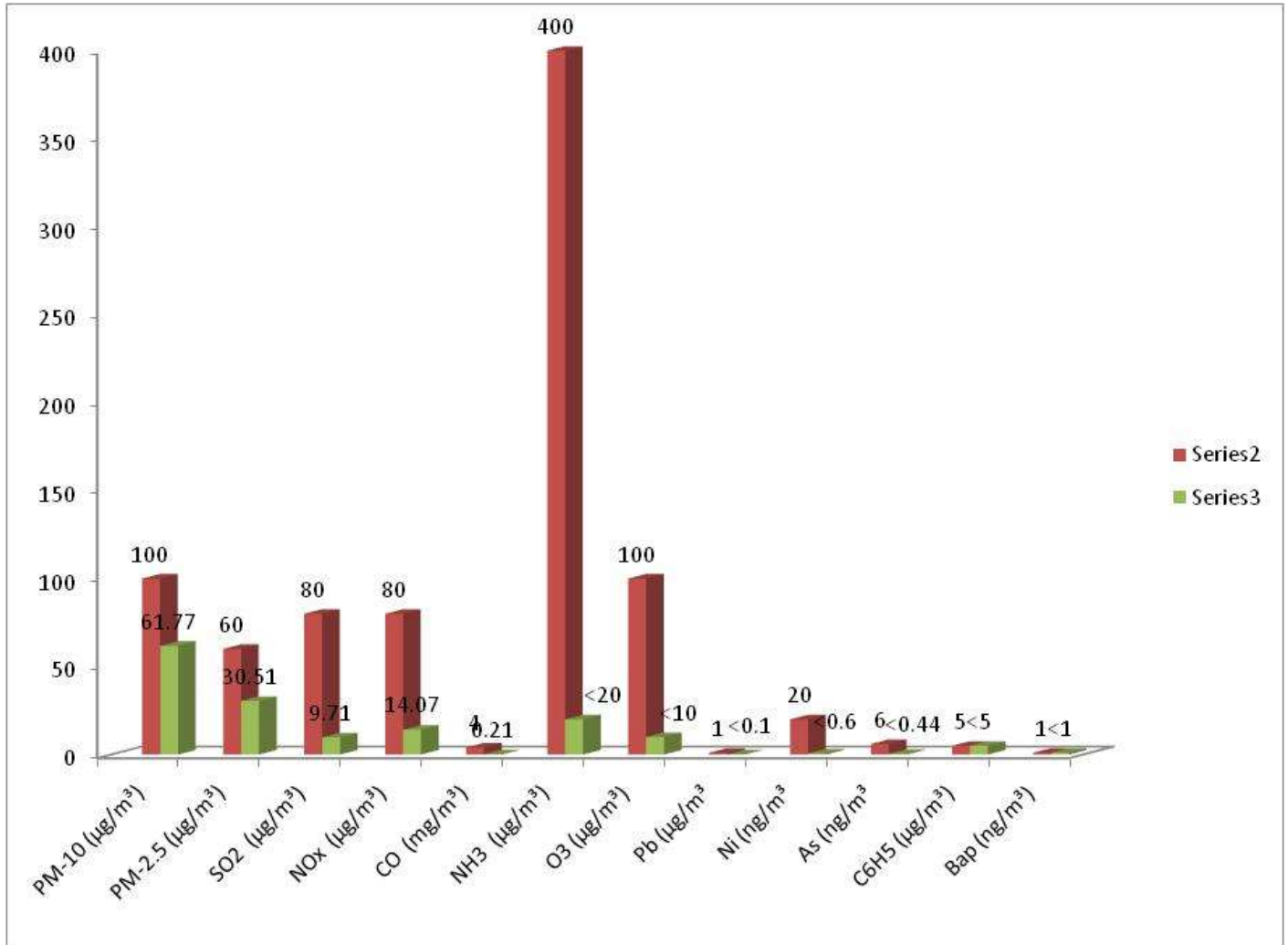
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of Sept-25

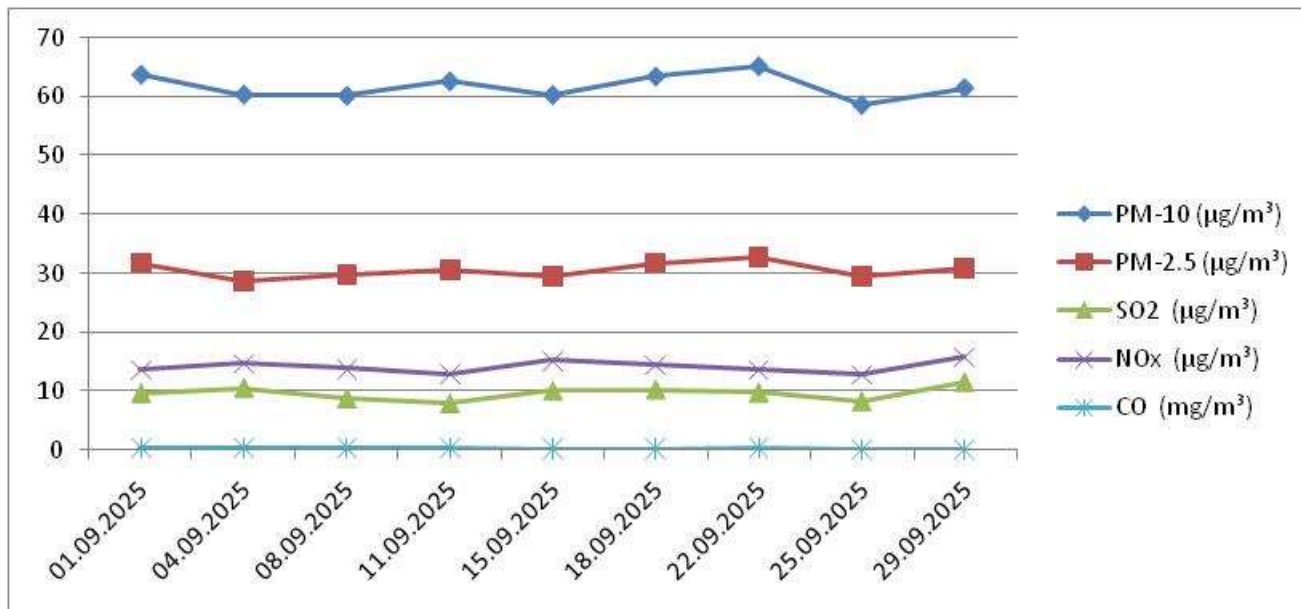
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of Sept-25



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Report no.-CEMC/TSSEZL/061025/A2

Issued Date-06.10.2025

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-061025A2
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)
01.09.2025	64.7	32.1	9.11	14.12	0.27	--	--	--	--	--	--	--
04.09.2025	66.3	33.3	10.33	15.46	0.24	--	--	--	--	--	--	--
08.09.2025	62.6	31.8	8.81	13.75	0.12	--	--	--	--	--	--	--
11.09.2025	69.4	35.7	10.98	15.83	0.16	--	--	--	--	--	--	--
15.09.2025	67.3	33.7	9.75	14.64	0.14	--	--	--	--	--	--	--
18.09.2025	66.8	33.2	10.62	15.69	0.16	--	--	--	--	--	--	--
22.09.2025	59.5	28.9	4.08	8.82	0.11	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.09.2025	62.7	31.7	10.62	15.75	0.17	--	--	--	--	--	--	--
29.09.2025	60.6	29.0	11.81	15.94	0.12	--	--	--	--	--	--	--
Avg	64.43	32.16	9.57	14.44	0.17	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

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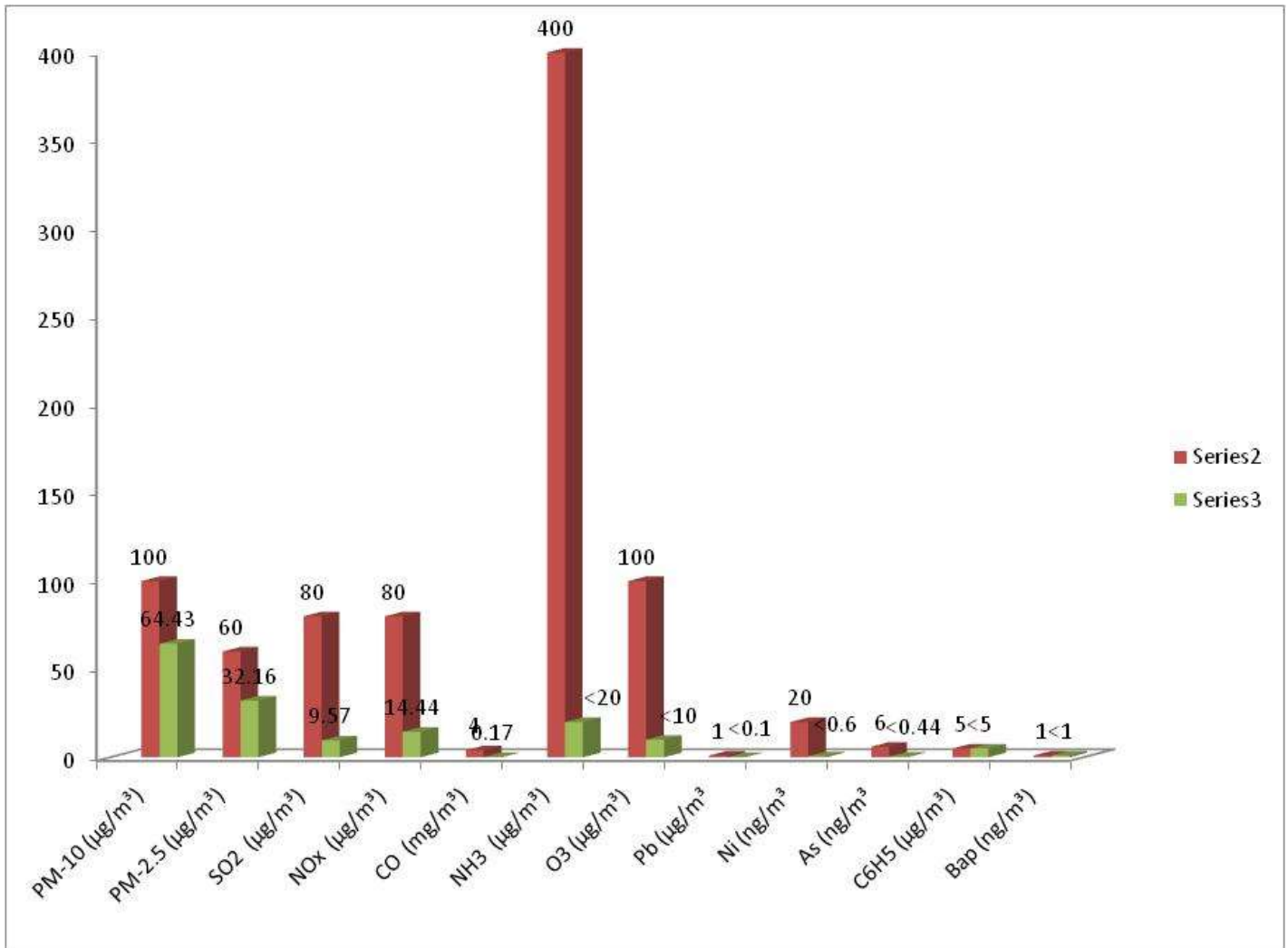
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This Graph is belongs to Station-02(Near Crusher) For the Month of Sept-25

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

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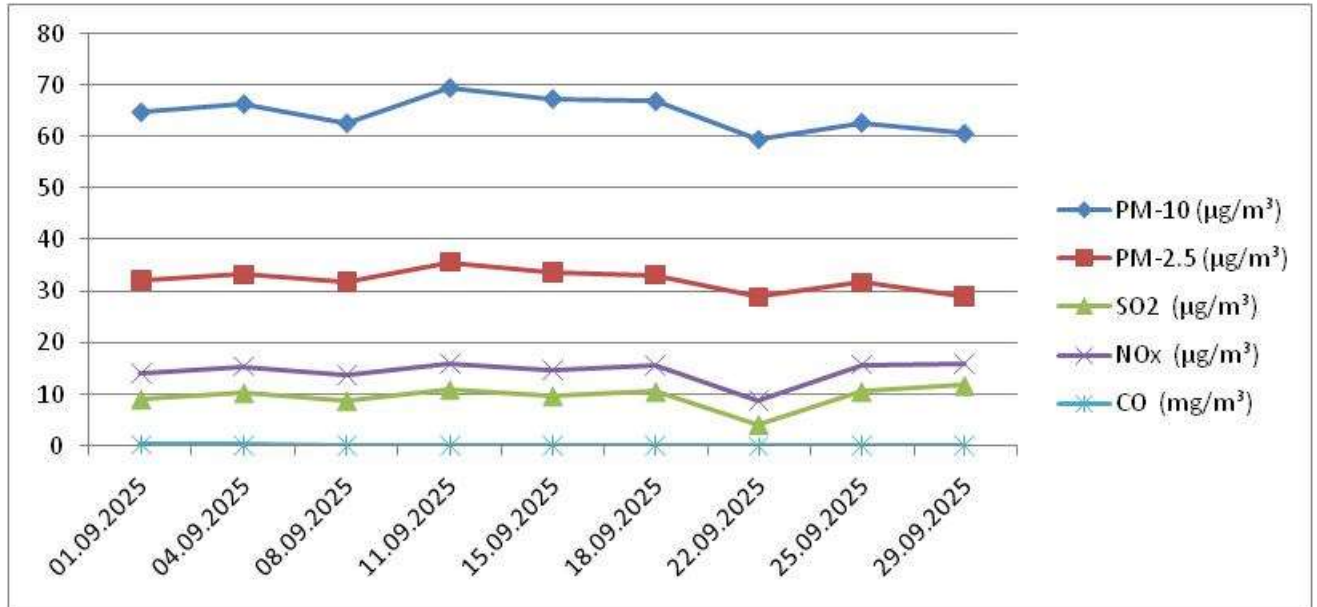
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This Graph is belongs to Station-02(Near Crusher) For the Month of Sept-25



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Report no.-CEMC/TSSEZL/061025/A3

Issued Date-06.10.2025

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-06102025A3
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)
01.09.2025	62.2	31.1	6.12	11.15	0.37	--	--	--	--	--	--	--
04.09.2025	63.6	31.7	6.94	12.52	0.33	--	--	--	--	--	--	--
08.09.2025	61.3	30.4	4.84	9.72	0.27	--	--	--	--	--	--	--
11.09.2025	59.8	29.3	4.08	8.82	0.2	--	--	--	--	--	--	--
15.09.2025	62.7	31.8	5.52	9.54	0.18	--	--	--	--	--	--	--
18.09.2025	60.7	29.1	5.64	10.68	0.15	--	--	--	--	--	--	--
22.09.2025	60.5	29.1	11.81	15.94	0.17	<20	<10	<0.05	<3.2	<0.1	<5	<1
25.09.2025	56.3	28.7	7.62	7.72	0.07	--	--	--	--	--	--	--
29.09.2025	58.1	29.3	6.84	8.54	0.12	--	--	--	--	--	--	--
Avg	60.58	30.06	6.60	10.51	0.21	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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)

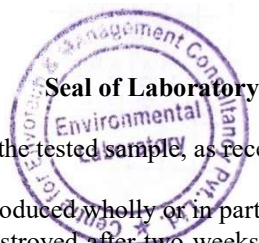
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BPDas
Authorized Signatory

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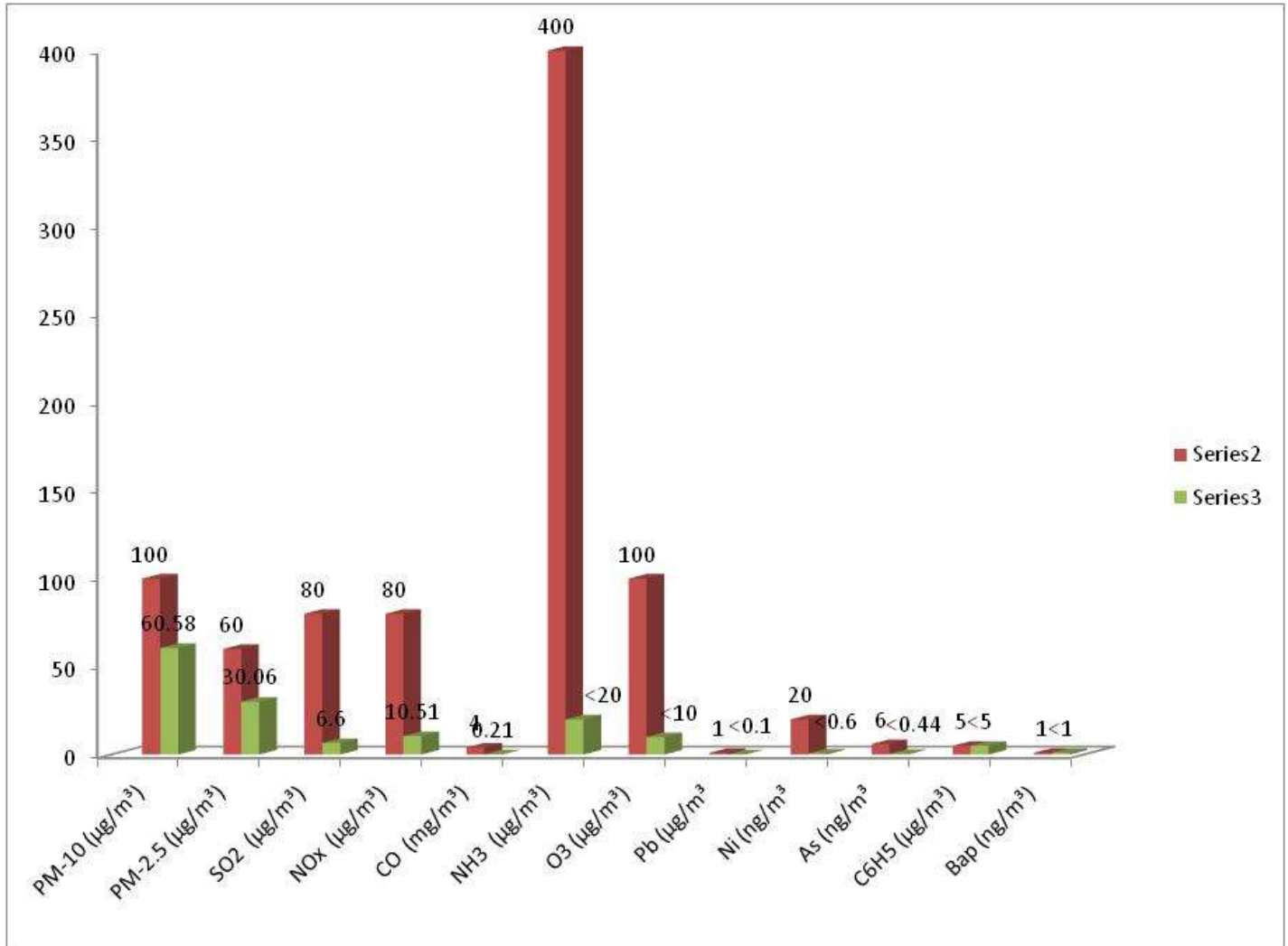
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of Sept-25

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

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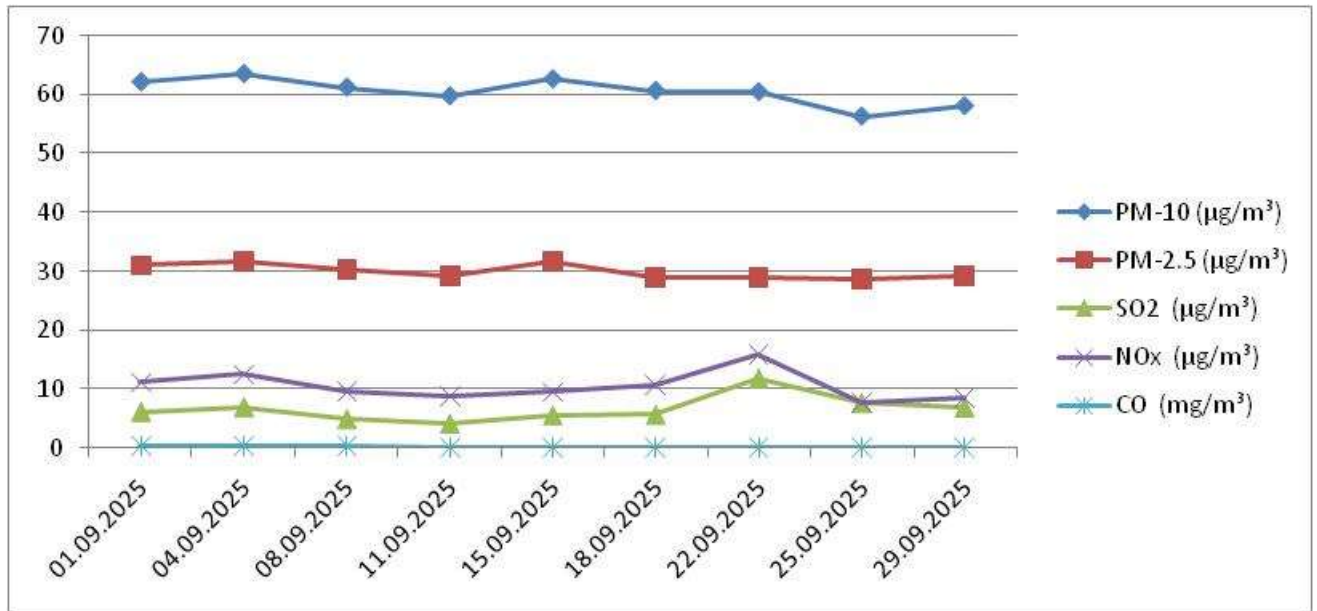
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Report no.-CEMC/TSSEZL/061025/A4

Issued Date-06.10.2025

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-06102025A4
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	22.09.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	22.09.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	22.09.2025	<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


Authorized Signatory

Seal of Laboratory

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/061025/W1

Issued Date-06.10.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 22.09.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 23.09.2025
Date of Analysis : 23.09.2025 to 30.09.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-06102025W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	25
2	pH Value @ 25°C	--	6.5 to 8.5	7.44
3	Turbidity	NTU	--	19.1
4	Total Suspended Solids	mg/l	--	29.8
5	Iron as Fe, Max.	mg/l	50	0.22
6	Chloride as Cl, Max.	mg/l	600	39.9
7	Dissolved Solids, Max.	mg/l	1500	151
8	Dissolved Oxygen, Min.	mg/l	4	5.2
9	BOD for 3 days@ 27 ⁰ 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	32
13	Nitrate as NO ₃ , Max.	mg/l	50	2.8
14	Fluoride as F, Max.	mg/l	1.5	0.09
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	121
25	Faecal Coliform	MPN/100ml	--	21

, MPN-Most Probable Number

Authorized Signatory

Seal of Laboratory

END OF REPORT

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/061025/W2

Issued Date-06.10.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 22.09.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 23.09.2025
Date of Analysis : 23.09.2025 to 30.09.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-06102025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	40
2	pH Value @ 25°C	--	6.5 to 8.5	7.61
3	Turbidity	NTU	--	20.3
4	Total Suspended Solids	mg/l	--	41.6
5	Iron as Fe, Max.	mg/l	50	0.51
6	Chloride as Cl, Max.	mg/l	600	41.9
7	Dissolved Solids, Max.	mg/l	1500	188
8	Dissolved Oxygen, Min.	mg/l	4	4.8
9	BOD for 3 days@ 27 ⁰ 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	34.4
13	Nitrate as NO ₃ , Max.	mg/l	50	2.0
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	<0.003
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	210
25	Faecal Coliform	MPN/100ml	--	39

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

Notes:

- The result given above related to the tested sample, as received. The customer asked for the above test only.
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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemcpl.com

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report No. - CEMC/ TSSEZL /061025/N

Issued Date-06.10.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-061025N
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.
22.09.2025	Near Project office	64.2	58.4	61.3	57.3	52.1	54.7
22.09.2025	Near main gate(Chamakhandi)	66.0	63.0	64.5	60.3	56.1	58.2

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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Total project Cost-223 Cr (for CER 1.5% =3.52cr) 47,00000 Per Annum

Sl no	Project to be Implementation	2025	2026	2027	2028	2029
1	Drinking Water facility	9,00,000				
2	Solar Lite	31,00,000				
3	School Development	0				
4	First AID centre	0				
5	Plantation	67,00,000				
6	Environemnt Monitoning	5,00,000				
7	Floting Solar	15,00,000				
8	Rain water harvesting	7,00,000				
	Total	1,34,00,000				

Departmental Half-yearly Updates (CSR Division)

Dept. Head Name: Dr. Jayant Kumar Tripathy	Month / Year: FY 2024-25
Department: TSF, Gopalpur	Date: 17/10/2025

The following are the half-yearly updates of key initiatives undertaken by our department in this FY 2025-26.

Key initiatives/activities of this FY 2024-25 (Apr 2025- Sep 2025)

THEME: EDUCATION AND GRASSROOT GOVERNANCE FELLOW



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.



Tata Steel Foundation identifies deserving candidates from operational areas of the company based on a merit test. FY' 2025-26 TSF Gopalpur renewal scholarship to 574 students with an amount of Rs 60,20,000/- from 106 schools and 12 collages of Chhatarpur and Rangeilunda blocks of Ganjam districts.

SL. No.	Class	Category	Male	Female	SC	ST	Total	No. of Student Awarded	Scholarship Amount (Rs.)	Total Amount (Rs.)
1	VII	Fresh					250		6000.00	
2	VIII	Renewal	44	74	118	0	118	118	6000.00	708000.00
3	IX	Renewal	108	126			234	234	9000.00	2106000.00
4	X	Renewal	38	77	116	1	115	115	9000.00	1035000.00
5	XI	Renewal	31	26	57	0	57	57	18000.00	1026000.00
6	XII	Renewal	0	15	15	0	15	15	18000.00	270000.00
7	Degree 1 st Year	Fresh					50	0	25000.00	
8	Degree, 2 nd Year	Renewal	0	14	14	0	14	14	25000.00	350000.00
9	Degree, 3 rd year	Renewal	2	19	0	0	21	21	25000.00	525000.00
	Total		223	351	320	1	874	574		6020000.00

Primary Learning Centre

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. Total 1200 students are enrolled with 685 girls' students across 30 PLCs in our operational area.



Parents Teachers Meeting (PTM): The objective of organizing the 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.



Green School Project

The Green School Project successfully conducted an orientation and hands-on activity at Narendrapur High School, Chamakhandi High School, UGPS, Kalipalli and UGPS, Sindhigoan of Chhatarpur Block. The session saw active participation from 423 students (213 girls and 210 boys) and 12 teachers from classes 6 to 8 engaged enthusiastically in the bio enzyme preparation activity.



The Key activities covered

1. Compost making
2. Bio- enzyme making
3. Self-Watering Plant
4. Terrarium making.



Computer & English Learning Centre through NIIT Foundation

Tata Steel Foundation in collaboration with NIIT Foundation has been successfully running 1 Skill Development Centres at Narendrapur, Chhatarpur Block. 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. Total 135 nos students are enrolled in basic IT, Advance IT and English foundation.

Grassroot Governances Fellow Model

TSF Gopalpur unit have linkage Governance scheme of proximate villages of 10 nos GPs of Rangeilunda and Chhatarpur blocks. Total live reached 1172nos and amount raised by gram panchayats other than 15th finance commission funds Rs. 8,72,11,338 /-have been linkage to different schemes like MGNREGA, Subhadra Yojana, Mamata Yojana, Harishchandra Yojana, PMAY Yojana, CM Kissan Yojana, Nirman Shramik Kalyan Yojana, PM Internship Yojana. Conducting Mahila Sabha in different GPs for required data for develop of Gram Panchayat Development Plan (GPDP).



THEME: PUBLIC HEALTH

SDG Linkage



Project: RISHTA

ARSH Session, life skill education and basic life support training in both block Rangeilunda and Chatrapur total adolescents covered 5798 (Girls-2945, Boys-2853). Knowledge increase through ARSH session of Girls 92% and boys 89%.

Basic Life Support covered among adolescent i.e 142.

Topics Covered in ARSH Session

- Understanding adolescent
- Food at adolescent age (nutrition)
- Body mapping and reproductive functions
- Marriage and conception
- Delaying teenage pregnancy
- RTI/STI/HIV/AIDS
- Sexual reproductive rights (relevant laws pertaining to adolescent) & adolescent friendly health services.
- Life skills education
- Injuries and violence
- Mental health
- Peer pressure and addiction



Saathiya Training

Village level volunteers called Saathiya (peer educator) developed 205 from both Rangeilunda and Chatrapur Block. They participated in 3 days complete training and cover all the interventions. Active Saathiya developed from them i.e 100 and 47 change makers from them who are actively working in their villages.

Village Level Institute

- Formation of village level child protection committee (VLCPC) in the revenue villages of both the blocks i.e., Rangeilunda and Chatrapur covered 26 villages.
- Formation of Youth Resource Club (YRC) including the adolescents of the villages of both the blocks i.e Rangeilunda and Chatrapur covered 25 villages.



Adopting Temporary family planning Method

There are 32 married adolescents couple who are successfully delaying pregnancy and attend Kishor Dampati Swasthya Samaroh(KDSS) Training workshop and get complete knowledge about the safe stages. They are also honoured at the training as they successfully delayed for more than 6 months.

School Quiz Competition

School quiz competition held at 25 schools of different villages to increase there general knowledge and knowledge regarding their good health and ARSH.

Pre Manthan-Yatra

Organised including youths from Saathiya, Active Saathiya and change makers and theme covered “Local Youth Actions for the SDGs and Beyond” which is theme for International Youth Day 2025. Total 175 participants present from both the block. Then 80 youths are selected for the Manthan yatra.

Observation of special Day

- World Menstrual Hygiene Day observed on 28th May 2025 among Girls and women’s in both the blocks including 253 participants. We discuss about the proper use of sanitary pads and how to keep hygiene and eat nutritious food during this period.
- World environment Day observed on 5th June 2025 on the theme” Break Free from Plastic beat Plastic pollution” including 140 youths had participated. We also discuss about the cleanliness and organize cleanliness drive and plantation for green environment.



Project: Mobile Public Health Unit (MPHU)

One mobile Public Health unit is running to providing basic health care services at the doorstep of community.

Key highlights

- Total 32 villages across nine GPs of Chhatrapur and Rangeilunda Blocks being benefited from the service.
- Treatment by doctors with free medication.
- Testing of blood sugar, blood pressure to find out Non communicable diseases.
- Referral of critical medical cases to nearest health facility.
- Awareness programs for Communicable, Non- communicable diseases & observation of important health days.
- Total nos of patients treated are 5785.
- Total nos of referral cases are 129.
- Awareness programs on important days like World Health Day, World Malaria Day, World Hypertension Day, World No Tobacco Day, and World Breast Feeding Day were celebrated with communities.
- Besides that, several basic life supporting training programs are being organized for the communities like
 - Training on how to recovery a chocking victim.
 - Training on BLS for providing Cardio Pulmonary Resuscitation (CPR) to a cardiac arrest patient also use of Automated External Defibrillator (AED).
 - Participants were performed self-practical training.
 - The main aim to prepare a group of volunteers as medical emergency responder.
 - Total no's of participants@ 539



Project: Poshan

Nutritional and Health Assessments

- We Conducted anthropometric measurements through door-to-door visits, at Anganwadi Centers (AWCs), and during VHSND and immunization programs. Also participated in RBSK health check-ups. Identified malnourished children and referred them to the Nutrition Rehabilitation Centre (NRC) for appropriate management.
- Carried out awareness sessions and hemoglobin screening activities among adolescents and reproductive women group's, identify several cases of anemia and provided necessary counseling and follow-up. The initiative aimed to enhance knowledge on nutrition, anemia prevention, and promote timely health interventions.

NRC Referrals

- A total of **349** children with Severe Acute Malnutrition (SAM) were identified during the H1.
- **77** children were Successfully referred and admitted to the Nutrition Rehabilitation Centre (NRC) for Specialized care and nutritional Support.

Poshan Pakhwada events- (8th to 22nd Apr'2025)

- Successfully participated in and observed Poshan Pakhwada programs in collaboration with ICDS, local PRI members, and all relevant stakeholders.
- Through the Poshan Pakhwada initiative, we successfully organized and observed various activities including Annaprasan events, quiz competitions, God Bharai ceremonies, healthy recipe demonstrations, Mo Gelha Jhia, and community awareness sessions.
- As part of the Poshan Pakhwada program successfully organized the Annaprasan events and Adolescents Quiz Competitions.

Health Workers Orientations

- The TSF Public Health Team successfully conducted **2** ASHA Orientation Program at PHC Sunadei conference hall and Bhanja Vihar PHC with the **86** active participation of ASHA workers, MO Bhanja Vihar, MPHF(M), ANMs, CHOs, Medical Officer (Ayush), and Health Supervisor.
- The program aimed to strengthen collaboration with frontline health workers by enhancing their knowledge, practical skills, and renewed commitment to the objectives of the Public Health vertical.

AWWs Capacity Building Training Workshop

A specialized capacity building training workshop was conducted for Anganwadi Workers (AWWs) by the Public Health Team to enhance their knowledge and skills on community nutrition and health management. A total of **118** participants, including AWWs from **02** training batches, actively took part in the session.

Key Focus Areas included

- Identification and management of malnourished (SAM/MAM) children
- NRC referral procedures and follow-up
- Regular hemoglobin screening to prevent and manage anaemia.
- Promotion of kitchen gardens for household nutrition security
- Strengthening growth monitoring and nutrition counselling practices
- Awareness of public entitlement schemes to improve community support and participation.

World Breastfeeding Week Observation (1st to 7th August)

World Breastfeeding Week aims to promote, protect, and support breastfeeding as a vital practice for child survival and maternal well-being. It emphasizes exclusive breastfeeding for the first six months and continued breastfeeding with complementary feeding up to two years and beyond. The celebration raises community awareness, strengthens family and health worker support, counters myths, and advocates for breastfeeding-friendly workplaces and policies. It also highlights breastfeeding's role in improving nutrition, reducing child mortality, and contributing to sustainable development goals.

Poshan Sakhi Training Workshop

Two nos of Poshan Sakhi training workshops were successfully conducted, covering **32** Gram Panchayats with the participation of **109** Poshan Sakhis. The sessions aimed to strengthen knowledge of health and nutrition at the grassroots level. Key topics included the importance of balanced nutrition, anaemia prevention, malnutrition management, and iron deficiency awareness. Interactive discussions and practical demonstrations encouraged active participation. At the village level, Poshan Sakhis were selected to support and strengthen Poshan-related field activities, ensuring sustained community engagement. Participants shared positive feedback and expressed strong commitment to implementing their learnings effectively.

Annappasan Events and Adolescent girls Quiz Competitions

As part of the Poshan initiative, **29 Annappasan events** were conducted, reaching **449** pregnant women, lactating mothers, and adolescent girls with key nutrition messages. Additionally, **17 quiz competitions** and awareness competitions were organized, engaging **877** adolescent girls and women. These activities aimed to promote better nutrition, health awareness, and healthy practices.

Poshan Maah Sep 2025

During September, the Poshan Project successfully organized **17** impactful Poshan Maah events, reaching **920** beneficiaries, including pregnant women, lactating mothers, under-5 children, and adolescent girls. The central theme **“Right Nutrition, Healthy Life”** was showcased throughout all activities. Key focus areas included healthy lifestyle practices, **IYCF promotion, ECCE strengthening, anemia prevention, growth monitoring, reduced sugar and oil consumption, and men's participation** in nutrition awareness. Major attractions were Annappasan, God Bharai, Healthy Baby Show, Mo Gehla Jhia, recipe demonstrations, anemia screenings, anthropometric measurements, and an Adolescent Girls' Quiz Competition, celebrated with enthusiasm and active community participation.

Kitchen Garden developments

The Kitchen Garden development initiative reached **190** beneficiary families across **14** Gram Panchayats, aiming to reduce malnutrition and anemia. These gardens promote nutritious food access, dietary diversity, and self-reliance, ensuring sustainable health improvement within the community.

Key indicators: -

- ✓ Identified SAM Children-349
- ✓ Nrc Refer – 77
- ✓ Poshan Pakhwada- 08
- ✓ Children, mothers, pregnant women reached through this event -331
- ✓ AWW Training Workshop- 02
- ✓ AWW Participants- 118

- ✓ ASHA Orientation program-02
- ✓ No of frontline health workers participants- 86
- ✓ Poshan Sakhi Training Workshop -03
- ✓ Participants in Poshan Sakhis- 163
- ✓ Poshan Maah- 17
- ✓ Children, mothers, pregnant women reached through this program - 920.
- ✓ Annaprasan Events – 29
- ✓ Children and LW reached through this event - 449.
- ✓ Quiz Competition-17
- ✓ Total No of Adolescent girls reached through-877.
- ✓ Kitchen Garden Developments- 190
- ✓ Total Beneficiary -782



Anthropometric measurements



Anaemia screening



NRC Refer



Awareness session



Poshan Pakhwada



Poshan Sakhi Training



Sapling distribution



Poshan Maah



Annaprasan event



Baby Shower



Healthy Baby show



Nutrition food demonstration



Ek Ped Maa ke naam

Project: Drishti

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 50 years above and school children. The following activities were undertaken during the reporting period.

Cataract surgery for elderly persons

- Treatment of mature cataract patients: Organize camps based on community demand and baseline survey of the area selected.
- 1809nos screening has been done during the period from April 2025 to Sept-2025
- 217 are detected as cataract patients, out of that 179 Cataract surgery has been done.
- 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.



Cataract eye screening camp referred for surgery

School eye health programme (Refractive Error)

Organizing school level Eye checkups for school children between 06-15 age group on refraction through Snellen chart. During these checkup camps total 2160 school students were screened out of which 159 student were identified as Refractive Error.



RE Eye Screening at Satyanarayanpur Govt. UP. School



RE Eye Screening at Josoda High School under Satakutuni GP

Capacity building on vision screening for govt. teachers

- 105 nos of Govt. school teachers got the training on school eye health and importance of good vision in academic, participation in different activities as well as school and community level
- Provided training how to identify refractive error through Snellen Chart.



Capacity building on vision screening of frontline health worker

- 185 nos of frontline health workers got training on importance of community eye health care and social responsibility in community level.



Training to frontline health workers at Mission Shakti Hall at Rangeilunda

Awareness sessions on community eye health

- Organizing community and school level awareness session about eye health care and services on how they can 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.
- Organised community level awareness session in different location for Comprehensive Community Eye Health-1222



Cataract Awareness Programme at Satakutuni GP

THEME: LIVELIHOOD (Agriculture)

SDG Linkage



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 ten 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 2025-26, a total of 15,850 acres (22,500 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 7500 Acre, Maize in 720-acre, millet in 180 Acre, foot yam in 380 Acre & Betel vine in 50 Acre respectively associated with 22,500 farmers during Kharif 2025-26.



With the facilitation of TSF, Gopalpur and in collaboration with Directorate of Agriculture, 164 quintal of paddy seeds ((vari ety-Pooja, Moti, Kalachampa, Swarna sub 1) have been distributed among the 398 farmers covering 820 acre in Rangeilunda, Chatrapur, Ganjam blocks under State Plan through DBT scheme. The SRI paddy line transplanting have been completed in 5840 acre among 4680 small & marginal farmers in operational villages. Distribution of Fruit crop planting materials and plantation completed in 21 Acre among 42 farmers of Rangeilunda & Chatrapur block.



With the facilitation of TSF, Gopalpur and in collaboration with Department of Forest & Environment, Govt of Odisha, under ECRICC project 150 acre of SRI paddy has been undertaken associated with 300 farmers with financial assistance of Rs. 2000 per Acre. Total Financial Rs 3.00 lakhs. 43 Acre of fruit crop plantation (Mango, Apple ber, Jack fruit, Guava, Coconut, Banana, Papaya) has been covered under waste land development through fruit crop orchard covering with 88 farmers. Under Poshan project 240 nos of papaya, 550 nos of Guava & 200 nos of Jack fruit saplings have been supported to SAM/MAM mothers covering 495 HHs.



Key Highlights:

Promotion of Farm Mechanization:

To extend farm mechanization with the objectives to reduce the cost of cultivation and TSF, Gopalpur, had provided 200 Power Sprayers during this financial year to reduce the cost of cultivation.

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 1872 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.

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 17000 acres (17000 farmers) was brought under cultivation of second crops in 1 villages of 08 blocks & Rambha NAC of Ganjam district.

Key Highlights:

1. A total of 22,500 farmers and 18 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 15 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, NDDDB (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 Sindhi Gaon, 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: 6,23,682 liters as on 30th Sept 2025 through 10 nos. Milk Collection Centers & MPCS

Convergence of Dairy development Initiatives:

The convergence scheme for dairy development program, the azolla farming in concrete pit under Kamadhenu Yojana, calves rearing & dairy farming under Mukhyamantri Krishi Udyogi Yojana have been undertaken in collaboration with F&ARD Department among the 54 dairy farmers of Chatrapur block with the finance assistance of Rs. 20.04 lakhs.



Observation of World Rabies Day 2025 at Chatrapur, Ganjam:



In collaboration with Tata Steel Foundation, Gopalpur and Animal Resources Development Department, GoO, Ganjam, World Rabies Day 2025 was observed on 26th September 25 at Jaugada Conference Hall, DRDA, Chatrapur. The event, held under the global theme “Act Now: You, Me, Community” witnessed active participation of 72 stakeholders including BVOs, AVAS, VAS, IIs, pet lovers and pet owners. The program was graced by Ms. Mrinalika Rathore, IAS, Executive Officer, NAC, Chatrapur as Chief Guest, along with distinguished guests Sri Sunil Kumar Kerketta, OAS (S), Project Director, DUDA, Chatrapur, Dr. Jayant Kumar Tripathy, Unit Lead, TSF, Gopalpur, Dr. Anjan Kumar Das,

CDVO, Ganjam & Dr. S.K. Mohanty, Dy. Director, DVH, Chatrapur. The event commenced with a safety pause followed by technical sessions, where Dr. Tripathy, CDVO and veterinary experts highlighted the importance of rabies prevention and control, reinforcing community responsibility in eratic.

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. 28 to 30 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.

The period from April to Sept 2025, the Kalipalli Youth Kewda Society, kalipalli village have been procured over 3.8 lakh of Kewda flowers from more than 200 households in Kalipalli village at ₹ 31 per flower, resulting in a total procurement value of approximately ₹117.8 lakh. The Ruh production commenced, and the Society has successfully produced 12 kg of raw Ruh, with a market value of ₹13.0 lakh per kg, leading to a total estimated production value of ₹156 lakh. The entire quantity is being sold to reputed buyers like M/s: Perfumers India Pvt Ltd, lucknow & M/s: Sri Laxmi Flavours Ltd, Delhi and other parties from Kannauj which are well known for traditional perfumery.



THEME: LIVELIHOOD (Skill Development)



Since April the J.N. Tata Technical Education Centre (JNTTEC) Gopalpur has been successfully conducting four major training and skilling programs, aimed at enhancing employability and supporting livelihood opportunities for youth, especially from Tata Steel's peripheral communities. The programs are being implemented in collaboration with reputed partners and under government-supported schemes, maintaining a strong focus on industry-aligned training and assured placements.

Diploma in Mechatronics Engineering and Smart Factory

The Diploma in Mechatronics Engineering and Smart Factory course is a flagship three-year program designed to equip students with technical expertise in mechanical, electrical, and automation systems. The course has maintained an excellent track record of 100% placement since its inception. This year, 39 students secured employment in reputed organizations such as Vivo, Dr. Reddy's Laboratories, and other leading industries.

For the current admission session, 60 new students have enrolled in the program, of which 27 students are being sponsored by Tata Steel Foundation (TSF). These sponsored candidates primarily belong to the peripheral areas of Tata Steel's operational regions, reflecting TSF's commitment to inclusive growth and community development. At present, a total of 116 students are pursuing the Diploma program, including 59 TSF-sponsored students. The consistent placement record and strong industry linkage make this program one of the most impactful initiatives at JNTTEC.



NUA Odisha Scheme

Under the Government of Odisha's flagship NUA Odisha initiative, JNTTEC Gopalpur, in collaboration with NTTF, has introduced two batches of the CNC Operator Turning course. This program is fully sponsored by the Government of Odisha, ensuring that no financial burden falls on the trainees. It provides high-quality technical training with a 100%



placement assurance upon successful completion. This initiative aims to create a skilled workforce in precision machining and manufacturing, aligning with the state's vision of promoting technical education and industrial readiness among the youth. The program also strengthens the institute's engagement with state-led livelihood and employment missions.



Hospitality Trade

The Hospitality Training Program at JNTTEC is being implemented in partnership with Pratham Education Foundation, one of India's leading organizations in vocational education. Currently, two courses are being conducted — Food and Beverage Services and Multitask Associate. These courses focus on providing practical, hands-on training aligned with the hospitality and service industry's standards.



Since April, 175 trainees have enrolled in these programs, out of which 142 candidates have already secured placements in various reputed hospitality establishments. The initiative has received encouraging feedback from both trainees and employers due to its skill-based learning model and employment outcomes. Plans are also underway to introduce a new course in Food Production, expanding the scope of training and career opportunities in the hospitality sector.

Forklift Operator Training

In collaboration with the Logistics Sector Skill Council, Tata Steel Foundation has introduced the Forklift Operator Training Program at JNTTEC Gopalpur. This program focuses on developing operational and safety skills required for material handling and logistics operations.

The first batch comprising 17 candidates has successfully completed the training, with 12 participants already placed in logistics and warehouse operations. The second batch is scheduled to commence shortly. The course has received positive responses from industries seeking trained manpower in logistics and material management.

Overall, these four programs demonstrate JNTTEC Gopalpur's commitment to advancing skill development, enhancing employability, and fostering industry partnerships. The institute continues to serve as a model for collaborative skilling efforts in Odisha, combining academic rigor, practical exposure, and assured placement outcomes for the youth.



THEME: GENDER AND COMMUNITY ENTERPRISE

SDG Linkage



Srujanika- An entity of women entrepreneurs

- In April 2025, the Srujanika unit achieved a significant milestone by securing multiple institutional orders, including uniforms for Odisha Police and the Indian Army. These orders not only reflect the quality and trust built by the women-led enterprise but also reaffirm its growing role in the rural economy by generating sustainable livelihoods for displaced and marginalized women. Simultaneously, a group of newly joined SHG members under the same vertical celebrated the successful launch of their first branded incense stick product in various flavors Sandel, Lavender Premium etc. Earlier supplying only in bulk without branding, this transition marks their entry into the retail market. This leap into branding and direct sales has not only boosted their confidence but also positioned them for long-term business growth in the FMCG sector.
- Srujanika along with its women-led micro enterprises, participated in the Pallishree Mela 2025 at Khalikote Ground, Berhampur, showcasing handmade products like Soura paintings, incense sticks, Pattachitra art, and traditional food items. Honourable Minister of Law, Works, and Excise, Shri Prithviraj Harichandan visited the stall, appreciated the women's efforts, and encouraged their work in preserving culture while creating livelihoods. Moreover, Srujanika was selected to participate in the National-level Pallishree Mela at Puri, on special occasion of rath Yatra where only 20 handicraft entities from across Odisha have been chosen & Srujanika is one of them.
- Srujanika continues to make remarkable strides in preserving and promoting the rich heritage of Tribal Sowra Art. This month marks a significant milestone as the team successfully delivered **two prestigious orders**: One for the **Prime Minister's Office (PMO)** and another for the **Rashtrapati Bhavan**.
- We remain committed to empowering tribal communities through sustainable art-based livelihoods and cultural revival. In the segment of Apparel Unit Launched Customized Ethnic Wear based on Sowra Art at Srujanika which creating local market for the Artisans.



Digital literacy

- On June 24th & 25th 2025 organized a Training of Trainers (ToT) on Digital Literacy with the participation of 40 individuals, including Community Trainers, Village Resource Persons (VRPs), and staff from Kalinganagar, Gopalpur, Sukinda, Bamnipal, Kolmong, Meramandali, Atagarh, and Joda. The training aimed to build the capacity of grassroots representatives to deliver digital literacy sessions in their respective communities. Key focus areas included safe internet practices, cybersecurity awareness, and accessing government entitlements through digital platforms. This initiative is a step towards fostering a digitally empowered community and ensuring that marginalized populations can navigate the digital ecosystem confidently and securely.



DISHA

- In the month of July, two impactful batches of Disha Training were successfully conducted on the themes “Role of Women in Local Self-Governance” and “Leadership & Gender Mainstreaming.” These sessions marked a significant milestone as, for the first time, women participants from the coastal fisherman community actively took part in the program.
- This inclusion not only expanded the outreach of the Disha program but also brought voices from a traditionally underrepresented community into the fold of leadership and governance discourse. The training aimed to strengthen women’s agency in decision-making spaces and empower them to actively engage in Panchayati Raj Institutions and community-level platforms. The enthusiasm, participation, and feedback from the coastal women highlighted the growing aspiration for gender-equitable leadership and set a new benchmark for inclusive rural governance initiatives under the Tata Steel Foundation.
- DISHA Convocation Empowers 600 Women Leaders across Odisha Gopalpur, Odisha, September 12, 2025: Tata Steel Foundation today organised the DISHA Convocation at its Gopalpur unit, celebrating the leadership journey of more than 600 women participants from Gopalpur, Kalinganagar, Sukinda, Bamnipal and Meramandali units. The convocation was graced by Shri Bibhuti Bhusan Jena, Hon’ble Cabinet Minister, Commerce & Transport, Steel & Mines Department, Government of Odisha as Chief Guest. Other distinguished dignitaries included Prof. Geetanjali Dash, Vice Chancellor, Berhampur University; Mr. Manikanta Naik, MD, Tata Steel SEZ; Ms. Smita Verma, Lead, Gender & Community Enterprises, Tata Steel Foundation; and Dr. Jayant Kumar Tripathy, Unit Lead, Gopalpur. The event began with context setting by the CEO, Tata Steel Foundation.

Through DISHA, women leaders have successfully completed three structured modules focusing on Leadership & Gender Mainstreaming, Role of Women in Local Self-Governance, and Network & Advocacy Skills for Collective Action. These modules have empowered women to strengthen leadership, enhance participation in governance, and build advocacy networks for inclusive community development. The convocation concluded with the felicitation and certificate distribution to the trained women leaders, acknowledging their commitment to driving social transformation in their communities.



Initiatives for Change

As part of the We for Change initiative, a cleanliness and plantation drive was organized at Kalipalli village with active participation from SHG women, youth groups, VDC members, and PRI leaders, where community members collectively cleaned public spaces, promoted awareness on hygiene, and planted fruit-bearing and shade-giving saplings to enhance greenery and ecological balance; the program not only improved the village environment but also strengthened community ownership, fostered collaboration among diverse stakeholders, and demonstrated the spirit of collective responsibility towards building a cleaner, greener, and healthier village.



THEME: RURAL INFRASTRUCTURE

SDG Linkage



Clean and safe drinking water

Tata Steel is committed to provide drinking water facilities to the peripheral villages of its operation in Gopalpur. Tata Steel had installed hand tube wells in Tata Rehab Colony as well as in many other periphery villages through its R&R & Reactivities. We have received requests regarding repairing defunct tube wells from Tata Rehab colony and accordingly have conducted preliminary survey to assess the work to be done. Addressing the defunct tube wells in Tata Rehab Colony and surrounding villages is crucial for meeting the community's basic need for drinking water.



The identification of 17 non-functional tube wells emphasizes the importance of prompt repair and restoration efforts to enhance the quality of life for the residents. Swift action in this regard aligns with Tata Steel's commitment to social development and corporate social responsibility.

Upgradation of infrastructure

We have restored of two high mast lights within the premises of JNTTEC College. This initiative was undertaken to enhance the overall illumination across key areas of the campus, thereby improving visibility and ensuring a safer environment for students, faculty, and staff during evening and night-time hours. The restored lighting infrastructure is now fully operational and contributes significantly to the college's efforts in maintaining a well-lit and secure campus.



THEME: ENVIRONMENT (Biodiversity)

SDG Linkage



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

Project background

The state of Odisha spread over an area of 155,707 km², 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, one national park and two tiger reserves in Odisha which covers about 4.73% of the state's geographical area. Beyond 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-ridley 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.

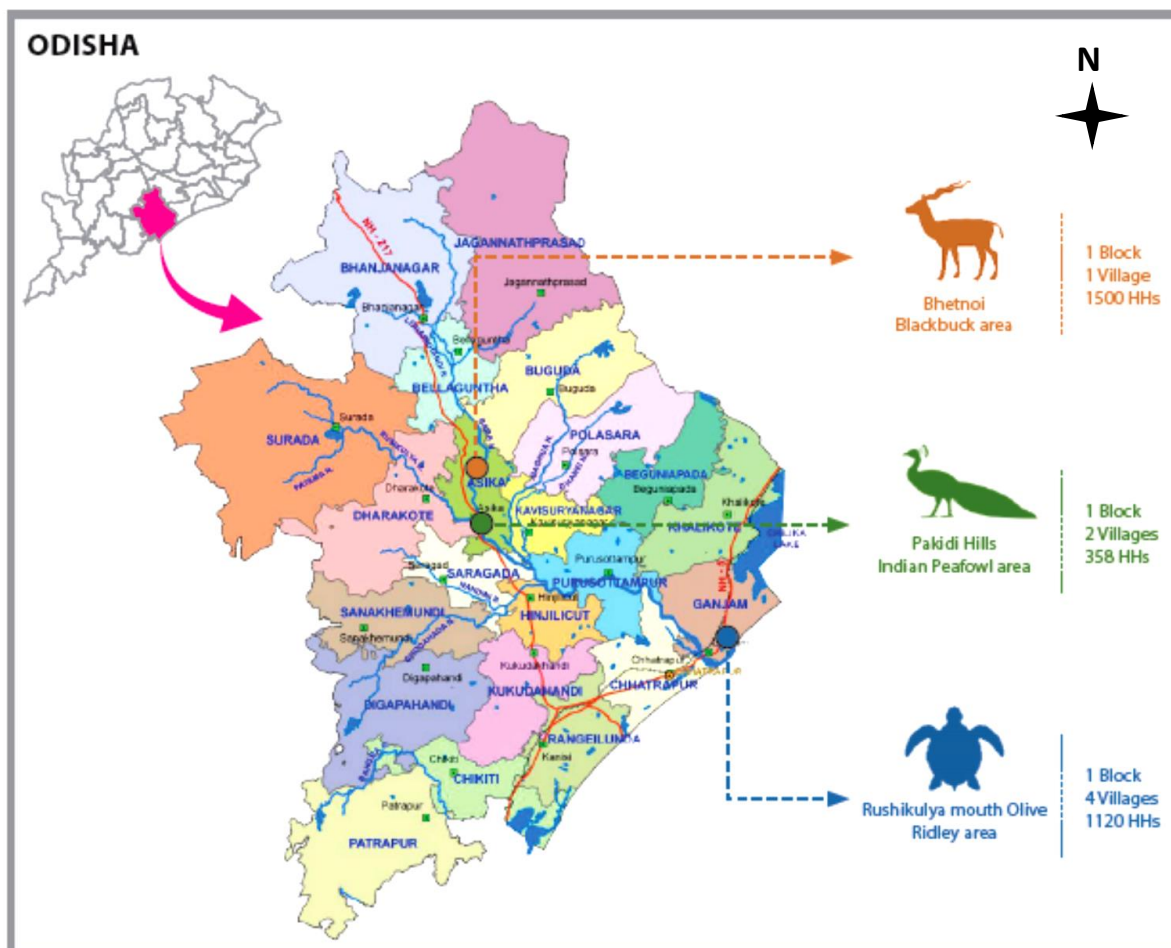
For peaceful co-existence and long-term conservation of these iconic wildlife species, Tata Steel Foundation in collaboration with Kotak Mahindra Bank Ltd has initiated the project on conservation of the key wildlife species by protecting their habitats and addressing the local's societal challenge. 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.



Mass nesting of Olive Ridley Sea Turtle along Rushikulya beach during Feb 2025

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. The project activities are also planned to reach around 3200 households of the seven villages across the project area.



Location map of project sites in Ganjam District, Odisha

Village wise HH details of the project sites across locations

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

Key interventions during Apr 2025 – Sep 2025

1. Awareness on species and habitat conservation



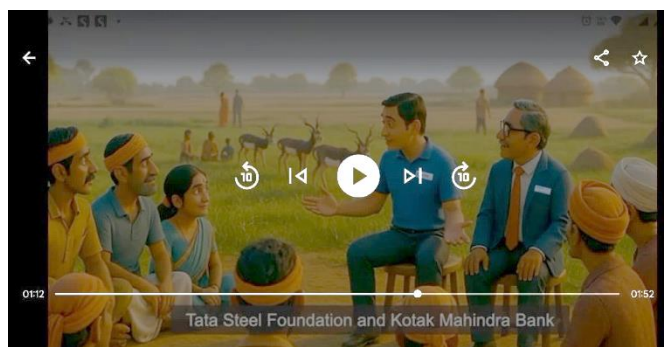
Awareness on sustainable fishing



Celebration of World Sea Turtle Day 2025



State level sensitization program on Community-based Biodiversity Conservation



Animated awareness video on Human-Blackbuck coexistence in Ganjam



A coffee table book of the ongoing project

Key highlights	Activity	Numbers
	Awareness program on sustainable fishing	03
	Celebration of important days	01 (World Sea Turtle Day)
	State level sensitization programs	01
	Knowledge product (Animated video)	01
	Knowledge product (Coffee table book)	01

2. Alternate livelihood development of the conservation-driven and wildlife affected communities



Support through backyard poultry for fishing ban affected families of Rushikulya



Goatery for wildlife resilient livelihood in Ambuabadi



Support for paper plate making among fishing ban affected families of Rushikulya



Support for incense stick making among fishing ban affected families of Rushikulya



Fruit crop saplings for distribution among Blackbuck and Peafowl affected farming communities



Distribution of vermibed for climate resilient agriculture among wildlife affected farming communities

Key highlights	Activity	Numbers of HHs supported
	Backyard poultry	65
	Goatery	08
	Paper plate making	25
	Incense stick making	18
	Agriculture and allied activities	404
Total		520

3. Additional essential interventions for the wildlife affected communities



Cataract screening camp for the communities of Rushikulya area



Sensitization among students on village level cleanliness drive in Rushikulya area

Key highlights	Activity	Numbers
	Cataract screening camps	
	No of camps	05
	Villages covered	07
	Individuals screened	540
	Cleanliness drive	
	Villages covered under cleanliness drive	04

TSF Gopalpur Unit budget FY 2025-26		
SI No	Thematic area	Budget (in lakhs)
1	Agriculture	120.00
2	Education	111.49
3	Environment	76.64
4	Gender and Community Enterprises	102.00
5	Public Health	100.98
6	Drinking Water	12.00
7	Development Corridor	1.75
8	Skill Development	435.73
9	Sports	5.50
10	Rural Infrastructure	22.00
11	Disability Linked Programs	1.00
12	Water Conservation initiatives	40.00
13	Admin Expenses	299.64
	Total	1328.73



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050525/A1

Issued Date-05.05.2025

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-05052025A1
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)
01.04.2025	71.3	36.6	10.52	14.24	0.33	--	--	--	--	--	--	--
04.04.2025	69.7	36.0	10.76	14.82	0.3	--	--	--	--	--	--	--
07.04.2025	60.2	30.9	9.58	13.25	0.28	--	--	--	--	--	--	--
10.04.2025	59.0	29.7	8.94	13.14	0.32	--	--	--	--	--	--	--
14.04.2025	62.6	31.9	8.72	12.18	0.2	--	--	--	--	--	--	--
17.04.2025	61.2	29.7	8.42	12.76	0.22	--	--	--	--	--	--	--
21.04.2025	59.6	28.7	9.38	14.04	0.17	--	--	--	--	--	--	--
24.04.2025	58.6	27.5	9.32	13.14	0.13	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.04.2025	62.0	31.5	9.66	13.72	0.08	--	--	--	--	--	--	--
Avg	62.69	31.39	9.48	13.48	0.23	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

Notes:

- The result given above related to the tested sample, as received. The customer asked for the above test only.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
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CEMC PVT. LTD., NABET(QCI) Accredited Category 'A' Consultant Organization.

Regd. Office: Plot No. 522/3458, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemcpl.com

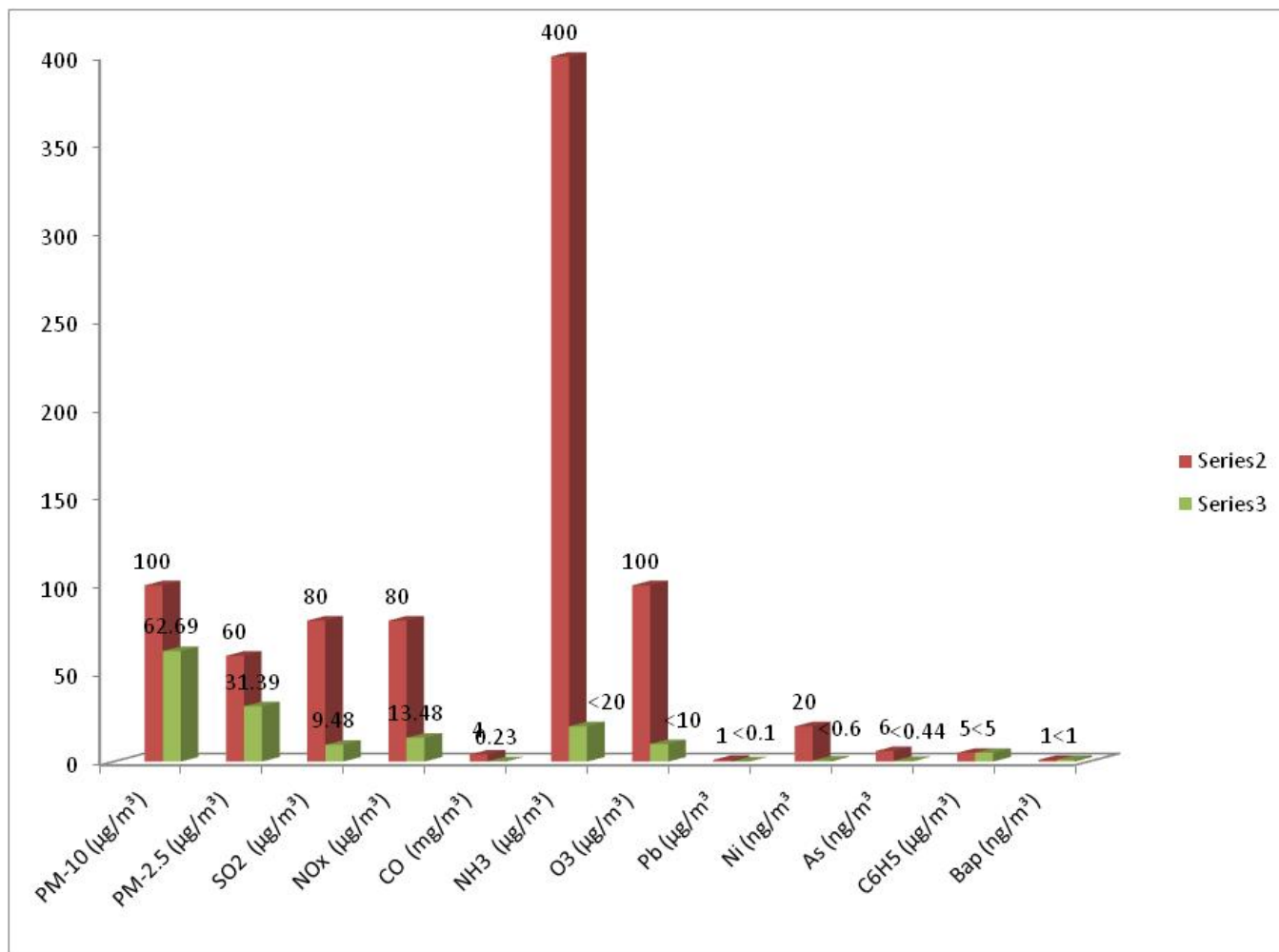
Deals with Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Hydrological Studies, Socio-economic Studies, DGPS & ETS Survey.



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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of April-25

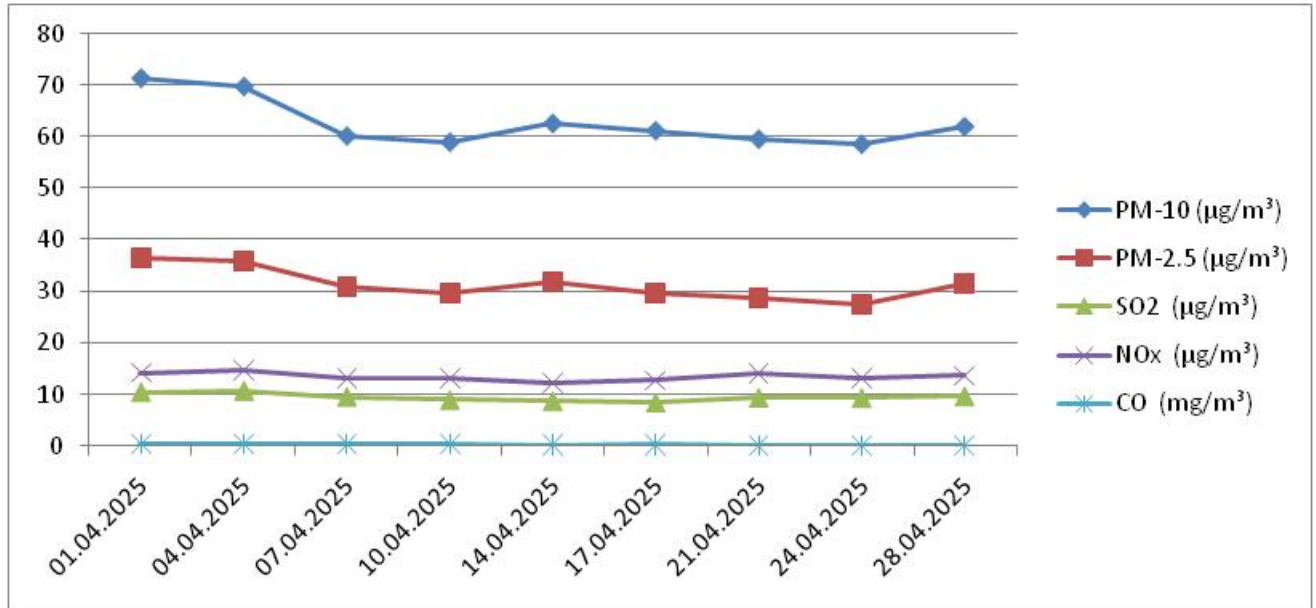
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of April-25



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Report no.-CEMC/TSSEZL/050525/A2

Issued Date-05.05.2025

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-05052025A2
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)
01.04.2025	73.5	36.8	9.31	13.12	0.43	--	--	--	--	--	--	--
04.04.2025	75.1	38.0	8.98	11.92	0.39	--	--	--	--	--	--	--
07.04.2025	69.0	35.5	10.14	14.12	0.33	--	--	--	--	--	--	--
10.04.2025	63.2	32.1	11.34	15.23	0.26	--	--	--	--	--	--	--
14.04.2025	64.4	33.9	11.62	14.72	0.24	--	--	--	--	--	--	--
17.04.2025	65.0	33.7	12.12	15.53	0.21	--	--	--	--	--	--	--
21.04.2025	62.4	31.5	11.76	15.42	0.23	--	--	--	--	--	--	--
24.04.2025	69.0	34.5	10.82	14.14	0.13	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.04.2025	63.6	31.8	12.92	16.46	0.18	--	--	--	--	--	--	--
Avg	67.24	34.20	11.00	14.52	0.27	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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

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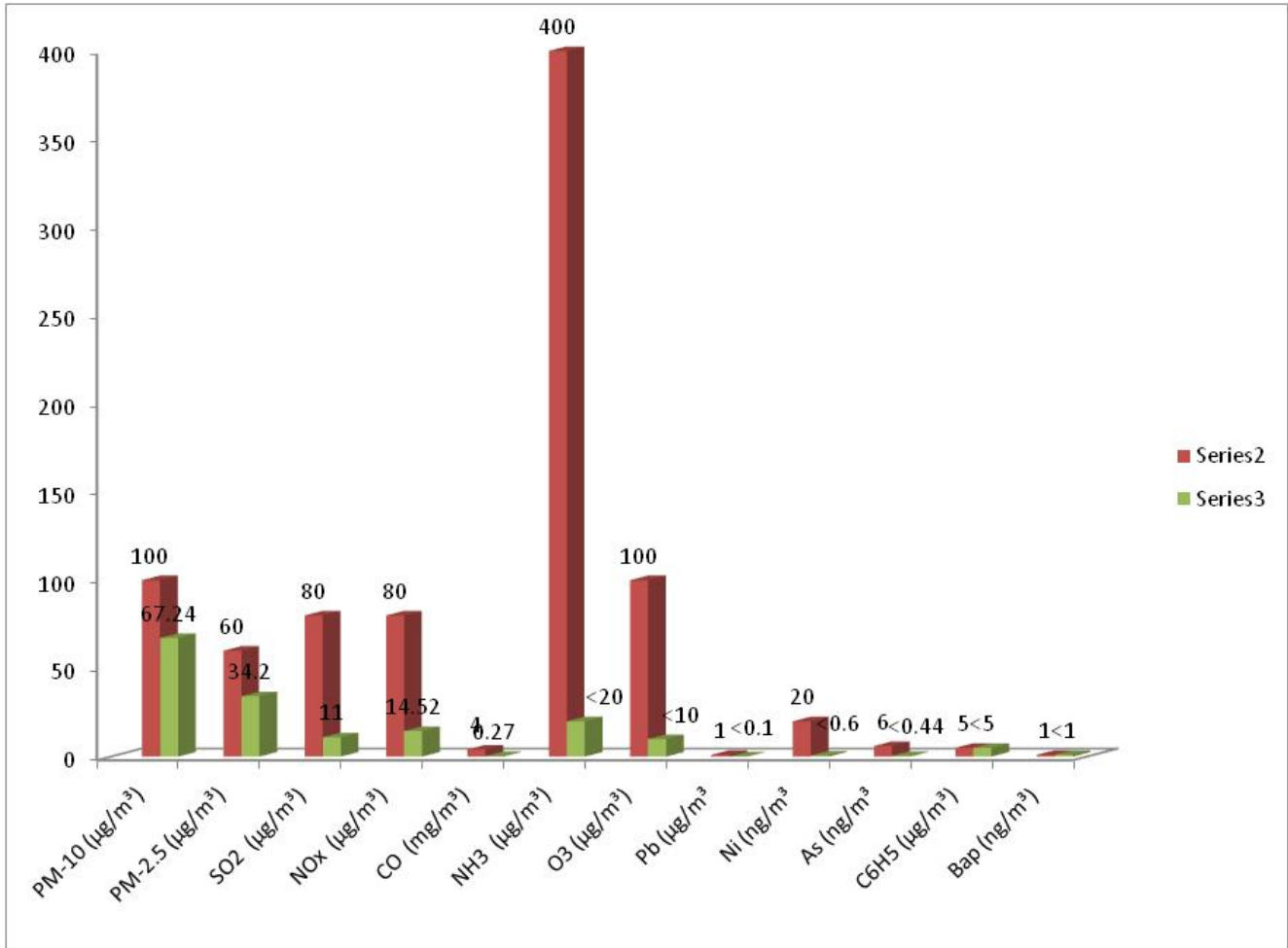
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This Graph is belongs to Station-02(Near Crusher) For the Month of April-25

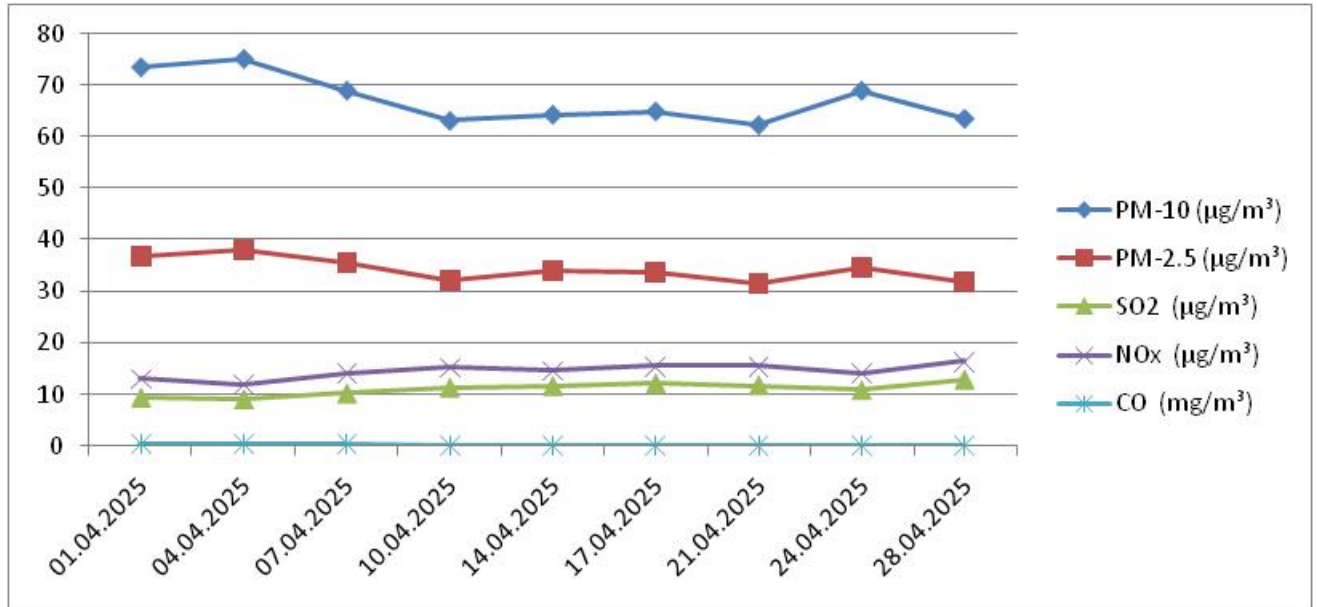
NB-Series2 –Stands for Standard, Series3 –Stands for Result



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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050525/A3

Issued Date-05.05.2025

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-05052025A3
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)
01.04.2025	67.8	36.5	10.42	14.14	0.33	--	--	--	--	--	--	--
04.04.2025	64.6	34.9	9.86	12.92	0.3	--	--	--	--	--	--	--
07.04.2025	56.2	30.9	9.58	13.25	0.18	--	--	--	--	--	--	--
10.04.2025	65.0	34.7	7.94	11.14	0.22	--	--	--	--	--	--	--
14.04.2025	63.6	33.9	7.72	12.18	0.2	--	--	--	--	--	--	--
17.04.2025	65.7	34.7	8.42	12.76	0.22	--	--	--	--	--	--	--
21.04.2025	61.9	32.7	9.38	13.04	0.17	--	--	--	--	--	--	--
24.04.2025	63.6	31.5	9.32	12.14	0.23	<20	<10	<0.05	<3.2	<0.1	<5	<1
28.04.2025	66.0	35.1	8.66	12.72	0.18	--	--	--	--	--	--	--
Avg	63.82	33.88	9.03	12.70	0.23	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-24)	IS: 5182 (Part-24)	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)

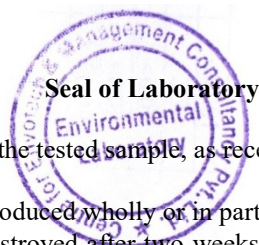
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

BPDal
Authorized Signatory

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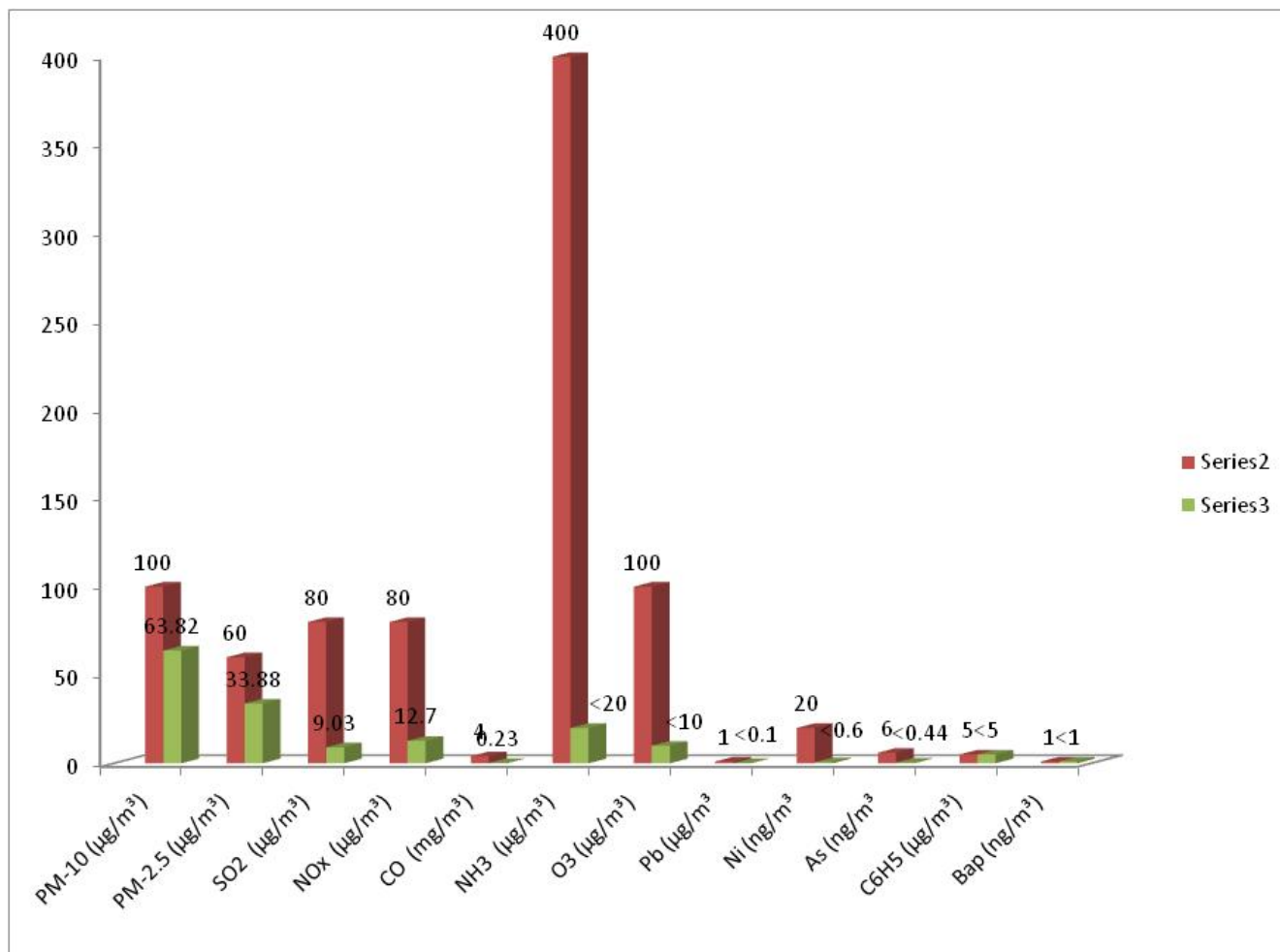
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of April-25

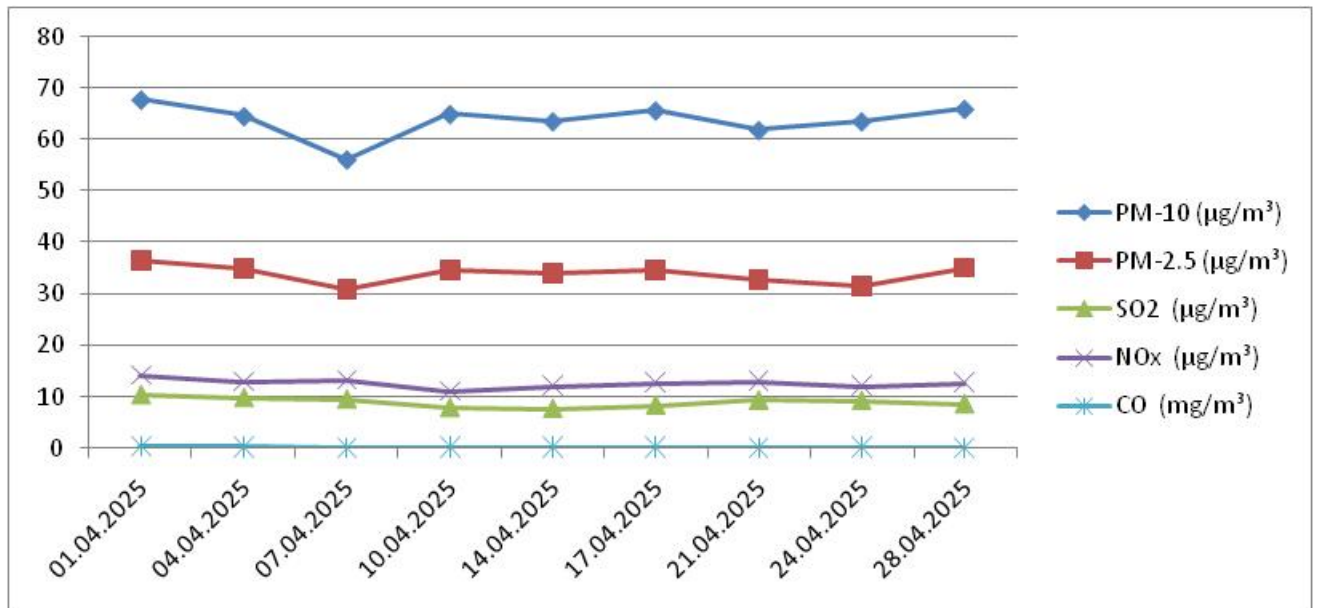
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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050525/A4

Issued Date-05.05.2025

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-05052025A4
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	24.04.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Crusher	24.04.2025	<20	<10	<0.05	<3.2	<0.1	<5	<1
Near Main Gate(Chamakhandi)	24.04.2025	<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

R. P. Das
Authorized Signatory

Seal of Laboratory

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Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: cemclab@yahoo.in. Mobile: 9439050689

Report no.-CEMC/TSSEZL/050525/W1

Issued Date-05.05.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.04.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.04.2025
Date of Analysis : 25.04.2025 to 01.05.2025
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-05052025W1

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	7.22
3	Turbidity	NTU	--	4.2
4	Total Suspended Solids	mg/l	--	17
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	167
8	Dissolved Oxygen, Min.	mg/l	4	5.8
9	BOD for 3 days@ 27 ⁰ 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	20.2
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	90
25	Faecal Coliform	MPN/100ml	--	11

, MPN-Most Probable Number

Authorized Signatory

Seal of Laboratory

END OF REPORT

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Report no.-CEMC/TSSEZL/050525/W2

Issued Date-05.05.2025

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.04.2025
Sampling by : Mr. R.N Das
Date of Sample Received : 25.04.2025
Date of Analysis : 25.04.2025 to 01.05.2025
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-05052025W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	35
2	pH Value @ 25°C	--	6.5 to 8.5	7.55
3	Turbidity	NTU	--	13.8
4	Total Suspended Solids	mg/l	--	20
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 ⁰ 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	190
25	Faecal Coliform	MPN/100ml	--	21

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

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Report No. - CEMC/ TSSEZL /050525/N

Issued Date-05.05.2025

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-05052025N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

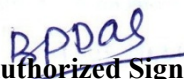
NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
24.04.2025	Near Project office	65.6	59.6	62.6	58.6	53.4	56.0
24.04.2025	Near main gate(Chamakhandi)	67.8	64.4	66.1	61.4	57.2	59.3

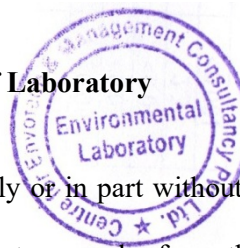
End of Report

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



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