



Ref. No: TSSEZL/ ENV/MoEF/1382/2024

Dated: 30th Sep' 2024

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

Sub: Submission of Half yearly compliance status report of Environment Clearance conditions for the period of April' 2024 – September' 2024 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

Satya Narayan Pradhan
Dy. Manager - (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 LIMITED

(A 100% subsidiary of Tata Steel Limited)

Regd. Off.: 2B, 2nd Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar, Odisha – 751023, India

Tel No.: +91-811 438 2585, Website: www.tatasteelsez.com, E-Mail: contact@tatasteelsez.com

CIN: U45201OR2006PLC008971

TATA STEEL SPECIAL ECONOMIC ZONE LTD

Half-Yearly Compliance Report

On Environmental Clearance Conditions

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

Period: April'2024 – September '2024

**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' 2024–September' 2024)	I
2	CSR Activities & expenditure details.	II

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

PART A-SPECIFIC CONDITIONS:

I. Construction Phase

Sl	Specific Condition	Compliance Status (April '2024 – Sept'2024)
(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, Compliance shall be ensured.
(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 '2024 – Sept'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.	Presently, there is no generation of hazardous and other waste from the project site. We have placed an order to vendor for collect the solid waste from our Park. Necessary authorizations will be obtained envisaging the generations of Hazardous and solid waste from the project in due course.
(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. For air pollution prevention, Control, and management: Natural elevations are being maintained by proper planning and engineering assessments. Plantation at designated places along plot boundary has been made to control air pollution right from the construction phase. Optimal quantity of accumulated rainwater is being used for construction activities. PUC- certified vehicles are being used. Regular Environmental monitoring of the pollution parameters by NABL and MoEF &CC accredited lab. Env. Monitoring is being conducted and reported to OSPCB regularly. Environmental Monitoring Report Enclosed as Annexure -I
(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.	Shall be complied as per the requirements of individual member industrial units with respect to EIA notification 2006. 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	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

Sl	Specific Condition	Compliance Status (April '2024 – Sept'2024)
	collected, treated to the prescribed standards, and then recycled or reused for the identified uses	TSSEZL as of now. However, TSSEZL has plans to set 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.	One storm water reservoir has already been constructed inside the project area and two more storm water reservoirs are being excavated inside the project area for catering to the need of the upcoming industries. At present, very small chunk of the harvested storm water is being used for construction/operation purpose. The monitoring & measurement of usage of water by member industries and reporting the same to Regional Office of MOEF shall be made upon commencement of supply from the said reservoirs in future.
(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.	Noted, Compliance shall be ensured.
(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.	No effluent generation inside the Industrial Park. The Common Effluent Treatment Plant (CETP) is yet to be constructed and made operational
(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.	Not applicable as the Common Effluent Treatment Plant (CETP) is yet to be constructed and made operational.
(xxii)	Member industries shall treat the effluent to meet the prescribed CETP inlet norms.	Not applicable as the Common Effluent Treatment Plant (CETP) is yet to be constructed and made operational.
(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.	Environment Monitoring Cell is in place. Environmental monitoring data and suggestions are being reviewed periodically.
(xxiv)	Internal Road widths within the industrial area shall be minimum 18 m ROW.	Complied. All internal roads are & shall be with RoW of >25 m width as per the approved master plan of the project.

Sl	Specific Condition	Compliance Status (April '2024 – Sept'2024)
(xxv)	Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms	Complied. Parking space available at our park.
(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.	No hazardous wastes have been generated during the construction.
(xxvii)	The D.G. sets to be used during development/construction phase shall be low sulphur diesel type and shall conform to Environment (Protection) Rules prescribed for air and noise emission standards	No DG sets are being used at present for construction activities.
(xxviii)	Vehicles hired for bringing 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. Only PUC-certified vehicles are being used in construction activities, water-sprinkled for dust control on unpaved roads, and speed-limit controlled to minimize fugitive dust, good condition vehicles and low or no-horn use maintained for less noise levels, vehicle movement minimized or restricted, periodical monitoring and checking of vehicles as per OSPCB norms.
(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. Ambient noise level monitoring is being carried out by NABL, MoEF & CC accredited environmental consultant on regular basis and being reported to the statutory authorities as per the requirement of the statutes. Enclosed as Annexure-I. Adequate measures have been taken to reduce ambient air and noise level during construction phase.
(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 Fly ash are being used in construction activities along with ready-mix concrete and fly ash-mix bricks or blocks, as building material for construction.
(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. Taken NOC for Ground Water ,As we have taken NOC through Irrigation department for surface water for construction parpose.



SI	Specific Condition	Compliance Status (April '2024 – Sept'2024)
(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.	Water conservation measures like shower-fixtures, use of tap-aerators, pressure reducing or sensor-based control devices for water flow controllers shall be used. Also, segregation of used water, practicing cascade use and recycling treated water.
(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.	Being Complied.
(xxxvi)	The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	The issues raised in the public hearing are being addressed in phased manner and being reported to the relevant statutory authorities in accordance with the conditions of the Environmental Clearance.
(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.	Corporate social responsibility (CSR) is being implemented by M/s. TSSEZL through its CSR and CER arm of Tata Steel Foundation (TSF), for benefit of surrounding localities and its living people in the field of Environment, Health, Education, Skill Development, Agriculture, Drinking Water, Special Commitments (Tata Medica Hospital, Gopalpur, COVID – 19, Entrepreneurship /Empowerment, Ethnicity, Infrastructure development etc. Details expenditure enclosed as annexure – II.
(xxxviii)	Corporate Environment Responsibility:	Corporate social responsibility (CSR) is being implemented by M/s. TSSEZL through its CSR arm TSF, for benefit of surrounding localities and its living people, for improvement of physical infrastructure like development of roads and street lighting, water supply distribution system, agriculture and allied interventions, skill development, entrepreneurship development etc. Detail's report enclosed as annexure – II
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..

Sl	Specific Condition	Compliance Status (April '2024 – Sept'2024)
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, Compliance shall be ensured.
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.	NTTF 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 months. Sufficient fund provision to be made to implement the same.	The suggested measures are under implementation. Biodiversity study was conducted, and report has already been submitted to MoEF&CC.
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.	Shall be complied as per the approved plan of the project in the designated areas. Waterbodies will be protected with adequate protective measures; plantation will be developed all along and/or surrounding waterbodies such as creek, wetlands.
vi	Implementation of Marine Environmental Management Plan in Toto.	Compliance shall be ensured.
vii	All the topsoil excavated during development/construction activities should be stored for use in horticulture/landscape development within the project site.	Being Complied.
viii	Disposal of muck during development/construction phase should not create any adverse effect on the neighbouring communities and be disposed	Being Complied.

Sl	Specific Condition	Compliance Status (April '2024 – Sept'2024)
	taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	
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.	Waste management plan is being and shall be implemented, their collection, handling and disposal, solid waste, municipal waste, construction and demolition waste, hazardous and toxic waste, their compliance with Municipal Solid Waste Management Rules-2016 will be implemented keeping pace with the progress of the project.
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.	Ambient noise level monitoring is being conducted periodically (Monitoring Report Enclosed as annexure – I) necessary corrective and preventive measures including administrative and engineering solutions are being implemented to keep the generation and exposure of the noise within the stipulated limit as per the applicable standard.
xii	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Noted, Compliance shall be ensured.
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.	Noted Compliance shall be ensured.
Xv	The ground water level and its quality shall be monitored regularly in consultation with Central Ground Water Authority.	Noted, Compliance shall be ensured.
xvi	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking, loading	Noted, Compliance shall be ensured.

SI	Specific Condition	Compliance Status (April '2024 – Sept'2024)
	and unloading shall be fully internalized and no public space shall be utilized.	
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.	Noted, Compliance shall be ensured. Necessary energy conservation measures are being and will be continued to be undertaken for optimal energy conservation. Use of LED light, solar energy and construction of energy efficient building will be adopted for conservation of natural resources like energy, water, and forestry resource.
xviii	The buildings shall have adequate distance between them to allow movement of fresh air and passage of natural light, air, and ventilation.	Noted, Compliance shall be ensured. Buildings will be constructed and their spacing between shall be in accordance with ECBC guidelines

PART-B: GENERAL CONDITIONS

Sl.No.	Stipulated Condition	Compliance Status (April'2024- Sept'2024)
i	The responsibility to comply with the EC conditions mentioned in this letter is solely of the project proponent.	Noted, Compliance shall be ensured.
ii	The environmental safeguards contained in the EIA report shall be implemented in letter and spirit.	Noted, Compliance shall be ensured.
iii	Provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Being Complied.
iv	Six Monthly monitoring reports shall be submitted to the Ministry and concerned Regional Office of the Ministry.	Being Complied.
v	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	Complied.
vi	The project proponent shall set up a separate Environmental Management Cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Environment Management cell is in place.
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.

Sl.No.	Stipulated Condition	Compliance Status (April' 2024- Sept' 2024)
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.	Noted and Compliance shall be ensured.
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	Complied.

Sl.No.	Stipulated Condition	Compliance Status (April'2024- Sept'2024)
	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.	
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 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.	Complied. Copy of the clearance Letter has been submitted to all concerned.
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.	Being 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	Noted, Compliance shall be ensured.

Sl.No.	Stipulated Condition	Compliance Status (April'2024- Sept'2024)
	status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry/CPCB/SPCB by e-mail.	
16	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory. The Ministry reserves the right to stipulate additional conditions, if found necessary and project proponent in a time bound manner will implement the stipulated additional conditions.	Noted
17	This issues with the approval of the Hon'ble Minister of Environment, Forest and Climate Change, New Delhi	Noted



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

Date: 24th October' 2024



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-24	65.43	33.27	10.25	15.18	0.42	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-24	66.76	33.07	10.94	14.7	0.44	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-24	64.81	36.04	12.97	17.94	0.55	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-24	51.64	25.84	4.48	8.68	0.17	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-24	48.59	22.99	6.38	10.38	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-24	50.98	25.48	7.03	11.28	0.32	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	66.76	36.04	12.97	17.9	0.55	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	48.59	22.99	4.48	8.7	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	58.0	29.4	8.7	13.0	0.3	<20	<10	<0.01	<0.6	<0.44	<5	<1

Location: Near Anadrone 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-24	68.4	35.68	11.92	16.77	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-24	64.78	33.76	11.56	14.79	0.5	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-24	64.35	34.76	12.98	17.96	0.53	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-24	54.78	27.77	7.56	10.79	0.3	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-24	53.14	25.8	7.9	11.42	0.24	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-24	55.9	28.6	8.33	12.11	0.36	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	68.4	35.68	12.98	17.96	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	55.9	25.8	7.9	10.79	0.3	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	60.2	31.1	10.0	13.9	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-24	64.86	33.16	11.36	14.83	0.48	<20	<10	<0.01	<0.6	<0.44	<5	<1
May-24	61.67	31.84	8.48	12.68	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jun-24	64.35	34.76	12.98	17.96	0.53	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jul-24	53.78	27.07	6.94	10.7	0.24	<20	<10	<0.01	<0.6	<0.44	<5	<1
Aug-24	53.72	25.48	5.93	9.6	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
Sep-24	55.75	27.83	6.89	10.53	0.31	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	64.86	34.76	12.98	17.96	0.48	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	53.72	25.48	5.93	9.6	0.2	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	59.0	30.0	9.4	14.4	0.3	<20	<10	<0.01	<0.6	<0.44	<5	<1

**Surface Water Analysis Report**

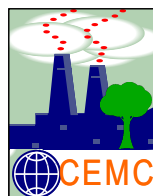
Upstream of Khari Nalla(SW1)		MONTH						Result		
Test Parameters	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	MAX	MIN	AVG
Colour, Max.	Hazen	25	15	60	95	45	40	95	15	46
pH Value @ 25°C	--	7.13	7.34	7.42	7.58	7.19	7.68	7.68	7.13	7.39
Chloride as Cl, Max.	mg/l	36.9	39.9	34	31.3	36.9	17.4	39.9	17.4	32.7
Dissolved Solids, Max.	mg/l	194	290	276	261.4	191	280	290	191	248
Dissolved Oxygen, Min.	mg/l	6.2	6.2	6.9	6.8	5.8	5.8	6.9	6.2	6.2
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	23.4	24.6	5.9	27.4	24	16	27.4	5.9	20.2
Nitrate as NO ₃ , Max.	mg/l	1.6	3.2	1.8	1.1	2.2	2.2	3.2	1.1	2
Fluoride as F, Max.	mg/l	0.18	0.12	0.06	<0.05	0.16	0.16	0.16	<0.05	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	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Iron as Fe, Max.	mg/l	0.15	0.2	0.18	0.15	0.15	2.77	2.77	0.2	0.6
Lead as Pb, Max.	mg/l	<0.01	<0.01	<0.01	<0.01	<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	ND	ND	<0.003	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	234	210	470	1600	177	141	1600	141	472



Surface Water Analysis Report

Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	MAX	MIN	AVG
Colour, Max.	Hazen	25	20	70	75	75	50	75	20	52.5
pH Value @ 25°C	--	7.84	7.24	7.58	7.41	7.72	7.69	7.84	7.24	7.58
Chloride as Cl, Max.	mg/l	46.9	49.9	30	17.4	45.9	20.8	49.9	20.8	35.4
Dissolved Solids, Max.	mg/l	198	580	440	217.8	180	288	580	180	317
Dissolved Oxygen, Min.	mg/l	5.7	6.0	6.7	6.7	5.6	6.1	6.7	5.6	6.1
BOD for 3 days@ 27° 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	29.4	29.8	17.4	29.2	31.8	6.85	31.8	6.85	24
Nitrate as NO ₃ , Max.	mg/l	2.3	<0.05	2.9	34.4	2.2	6.57	2.2	1.8	1.3
Fluoride as F, Max.	mg/l	0.11	0.18	0.09	<0.05	0.18	0.38	0.18	<0.05	0.188
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	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Iron as Fe, Max.	mg/l	0.36	0.4	0.22	0.89	0.36	0.75	0.89	0.4	0.49
Lead as Pb, Max.	mg/l	<0.01	<0.01	<0.01	<0.01	<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	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	356	320	470	900	342	210	900	210	433

	TATA STEEL SPECIAL ECONOMIC ZONE LIMITED	GOPALPUR INDUSTRIAL PARK
Noise Monitoring Report		
Location: Near TSSEZL Anadrone		
Months	DAY TIME dB(A)	NIGHT TIME dB(A)
Apr-24	64.8	53
May-24	61.4	55.4
Jun-24	60.5	56.3
Jul-24	60.4	54.4
Aug-24	62.5	56
Sep-24	62.4	56.1
MAX	64.8	56.1
MIN	60.4	53
AVG	62.0	55.2
Near TSSEZL Main Gate Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Apr-24	68.2	62.7
May-24	66.4	58.5
Jun-24	66.5	57.4
Jul-24	65.4	57.5
Aug-24	66.1	59.3
Sep-24	67.8	59.6
MAX	68.2	62.7
MIN	65.4	57.4
AVG	66.7	59.1



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Report no.-CEMC/TSSEZL/040524/A1

Issued Date-04.05.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

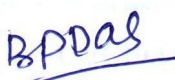
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office
Weather Conditions	Clear
Reference No.	CEMC-04052024A1
Instrument Used	Respirable Dust Sampler, 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)
01.04.2024	66.6	34.4	10.12	15.26	0.46	--	--	--	--	--	--	--
04.04.2024	62.9	31.6	9.34	14.12	0.38	--	--	--	--	--	--	--
08.04.2024	64.8	32.4	10.48	15.34	0.26	--	--	--	--	--	--	--
11.04.2024	68.2	34.8	11.24	15.86	0.32	--	--	--	--	--	--	--
15.04.2024	64.8	33.6	10.48	15.04	0.45	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.04.2024	63.6	32.4	9.16	14.12	0.55	--	--	--	--	--	--	--
22.04.2024	69.6	35.2	12.16	16.24	0.42	--	--	--	--	--	--	--
25.04.2024	62.8	31.6	9.16	15.34	0.51	--	--	--	--	--	--	--
29.04.2024	65.6	33.4	10.12	15.26	0.44	--	--	--	--	--	--	--
Avg	65.43	33.27	10.25	15.18	0.42	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	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

Notes:

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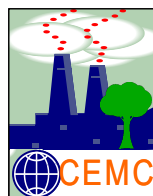
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India, Mobile: 9861032826

E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in.

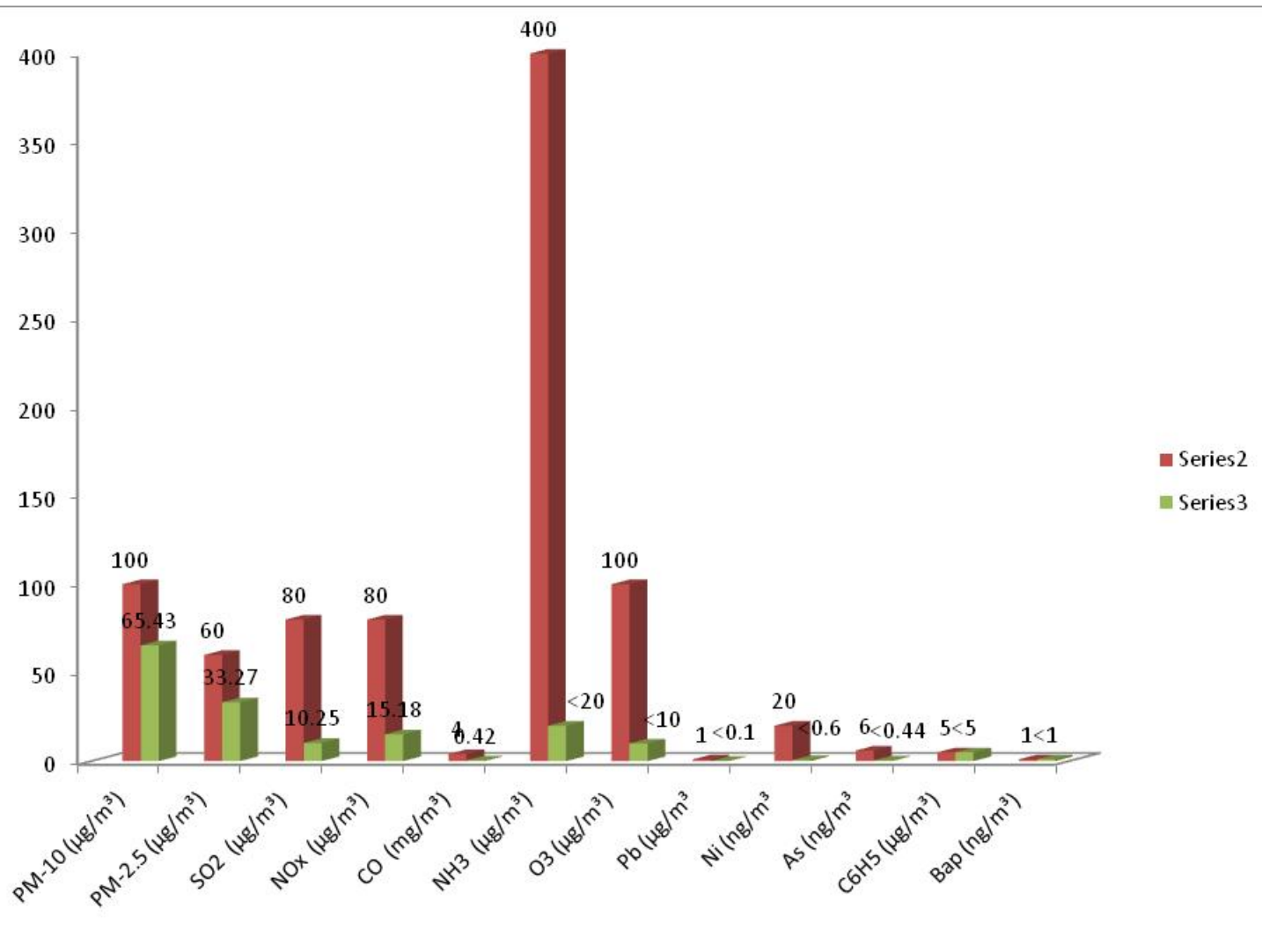
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of April-24

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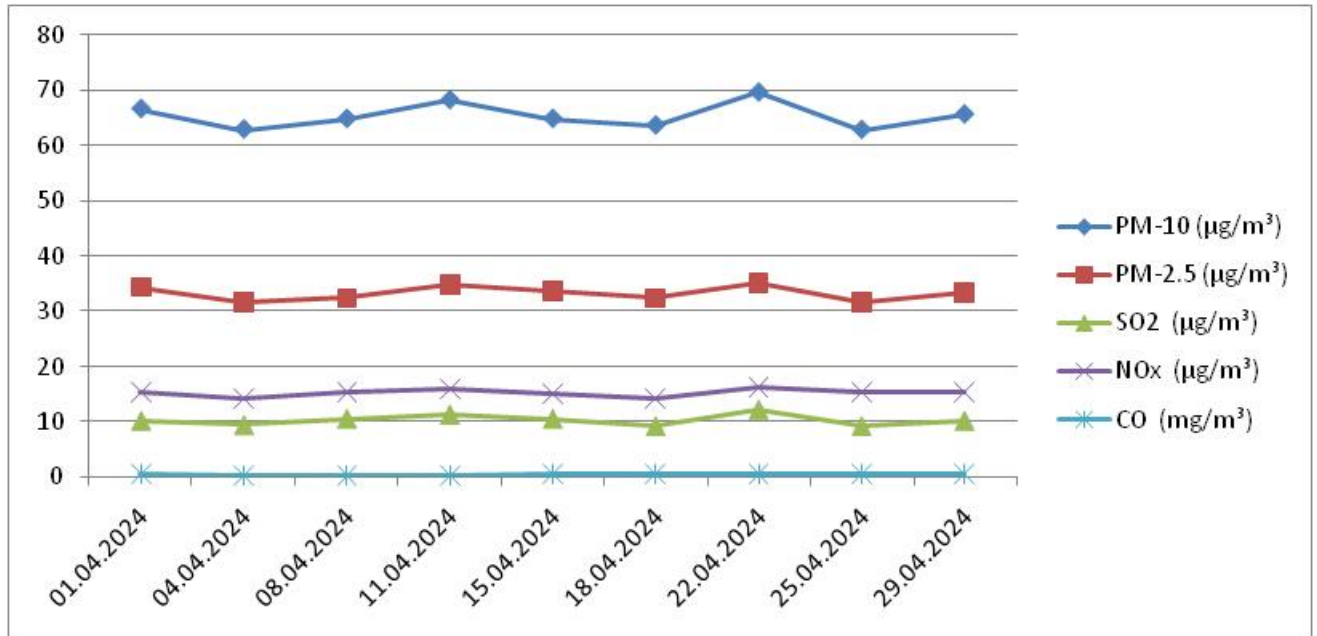
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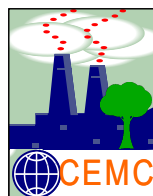
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Report no.-CEMC/TSSEZL/040524/A2

Issued Date-04.05.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Anadrone Office
Weather Conditions	Clear
Reference No.	CEMC-04052024A2
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)
01.04.2024	70.5	37.2	12.08	16.68	0.46	--	--	--	--	--	--	--
04.04.2024	65.8	34.8	11.06	16.24	0.41	--	--	--	--	--	--	--
08.04.2024	67.2	35.4	10.88	15.08	0.46	--	--	--	--	--	--	--
11.04.2024	66.8	36.9	12.82	17.46	0.38	--	--	--	--	--	--	--
15.04.2024	72.2	38.3	13.16	18.06	0.54	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.04.2024	68.6	33.2	10.06	15.44	0.48	--	--	--	--	--	--	--
22.04.2024	63.4	32.5	11.66	16.98	0.44	--	--	--	--	--	--	--
25.04.2024	71.6	37.6	14.46	18.64	0.42	--	--	--	--	--	--	--
29.04.2024	69.5	35.2	11.08	16.38	0.43	--	--	--	--	--	--	--
Avg	68.40	35.68	11.92	16.77	0.45	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	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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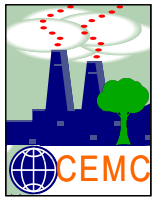
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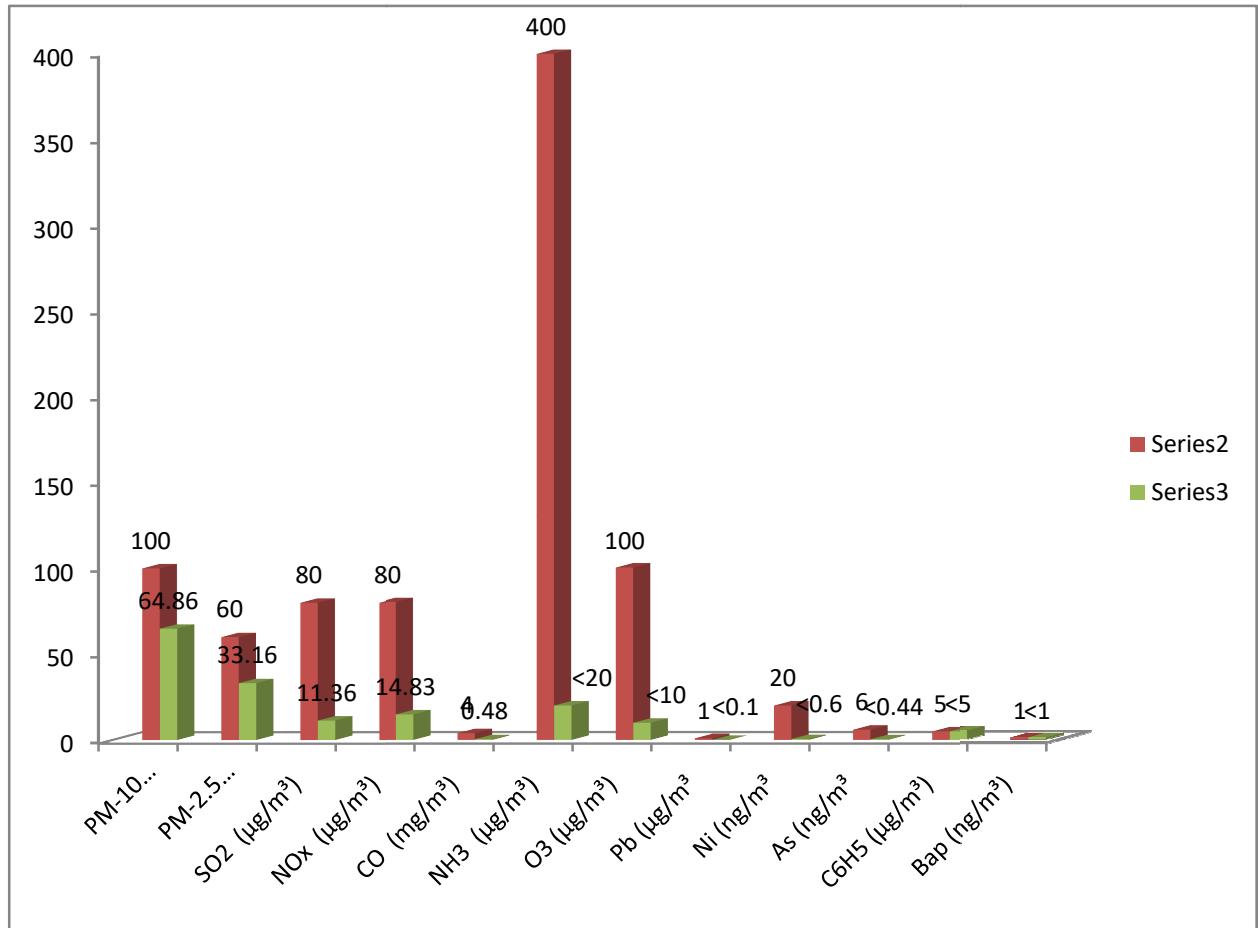
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This Graph is belongs to Station-02(Near Anadrone Office) For the Month of April-24

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

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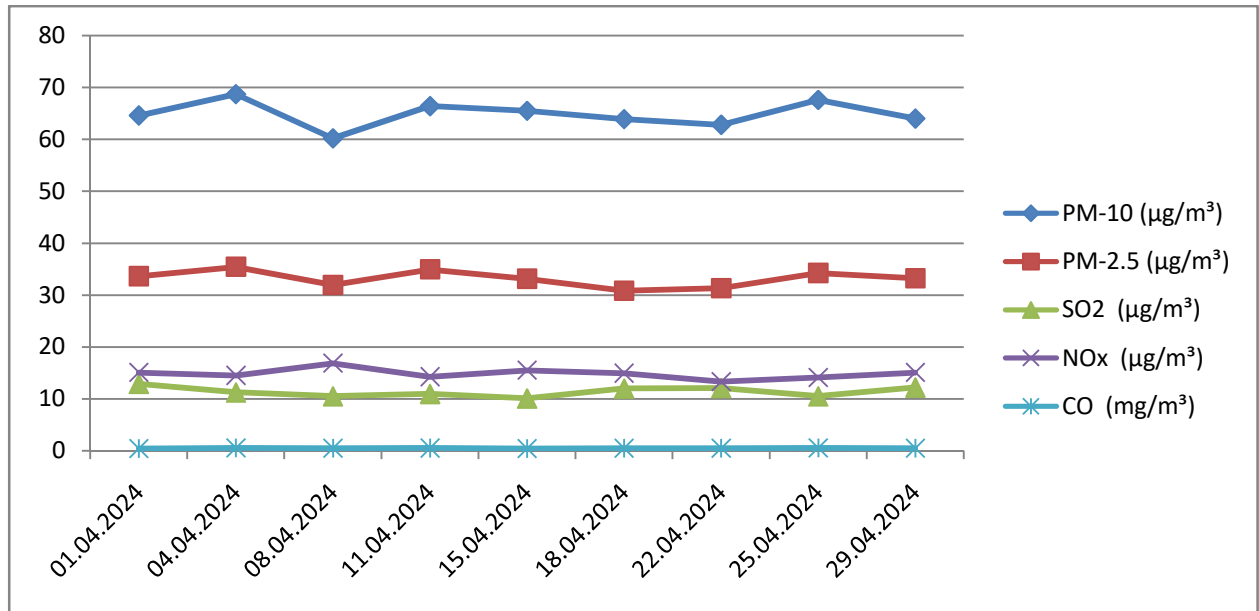
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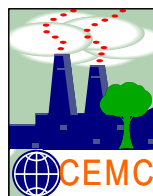
This Graph is belongs to Station-02(Near Anadrone Office) For the Month of April-24

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

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

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
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Report no.-CEMC/TSSEZL/040524/A3

Issued Date-04.05.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

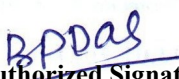
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04052024A3
Instrument Used	Respirable Dust Sampler, 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)
01.04.2024	64.6	33.6	12.86	15.06	0.42	--	--	--	--	--	--	--
04.04.2024	68.7	35.4	11.22	14.48	0.52	--	--	--	--	--	--	--
08.04.2024	60.2	31.9	10.48	16.84	0.46	--	--	--	--	--	--	--
11.04.2024	66.4	34.9	10.94	14.23	0.51	--	--	--	--	--	--	--
15.04.2024	65.5	33.1	10.06	15.48	0.44	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.04.2024	63.9	30.8	11.96	14.92	0.5	--	--	--	--	--	--	--
22.04.2024	62.8	31.3	12.08	13.29	0.48	--	--	--	--	--	--	--
25.04.2024	67.6	34.2	10.48	14.08	0.54	--	--	--	--	--	--	--
29.04.2024	64.0	33.2	12.16	15.06	0.46	--	--	--	--	--	--	--
Avg	64.86	33.16	11.36	14.83	0.48	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	IS: 5182 (Part- 25)	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

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

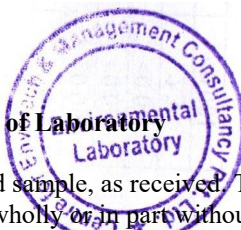
END OF REPORT


Authorized Signatory

Notes:

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Seal of Laboratory



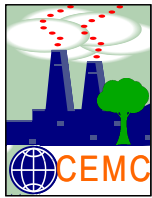
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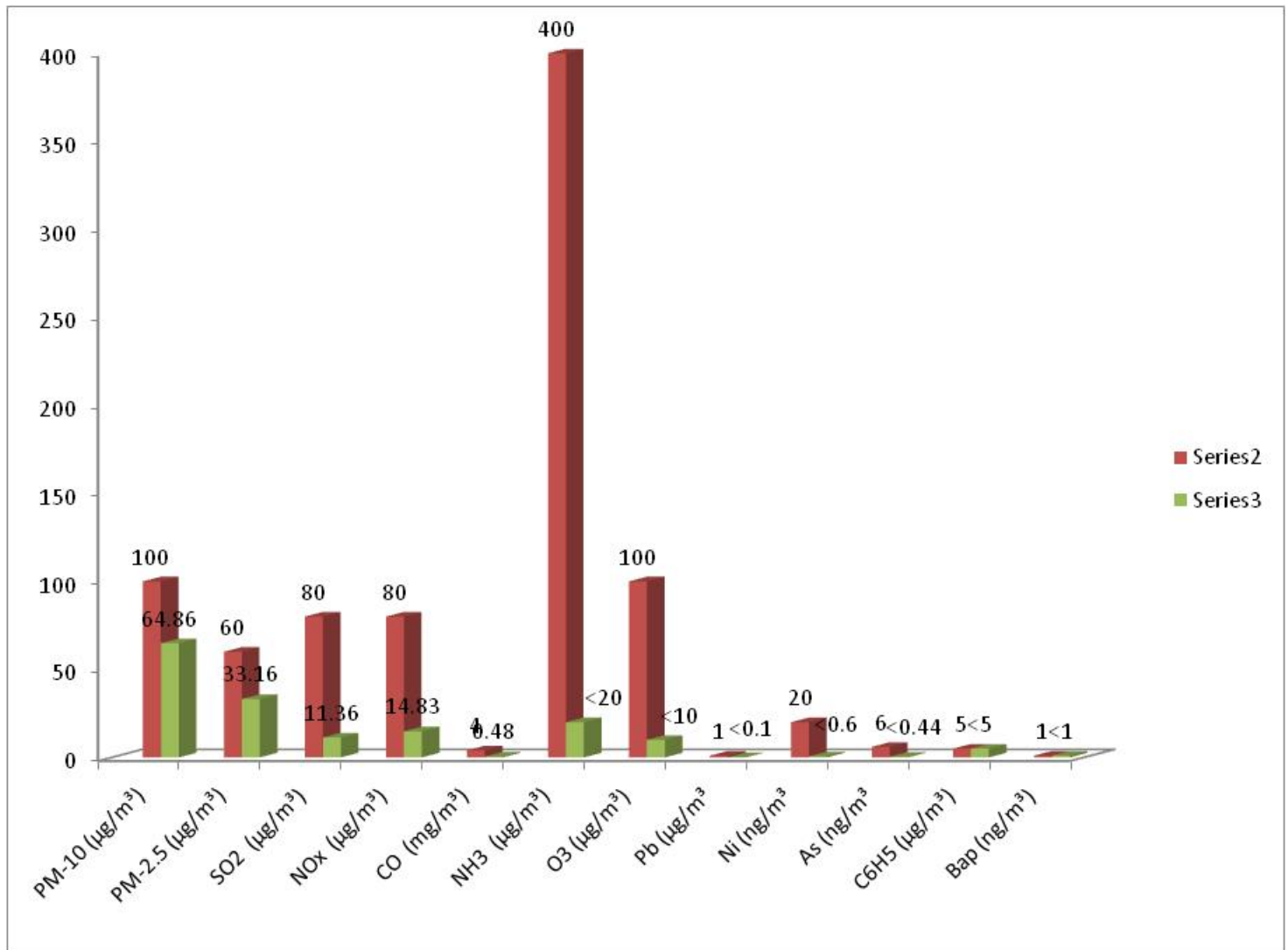
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of April-24

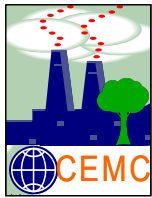
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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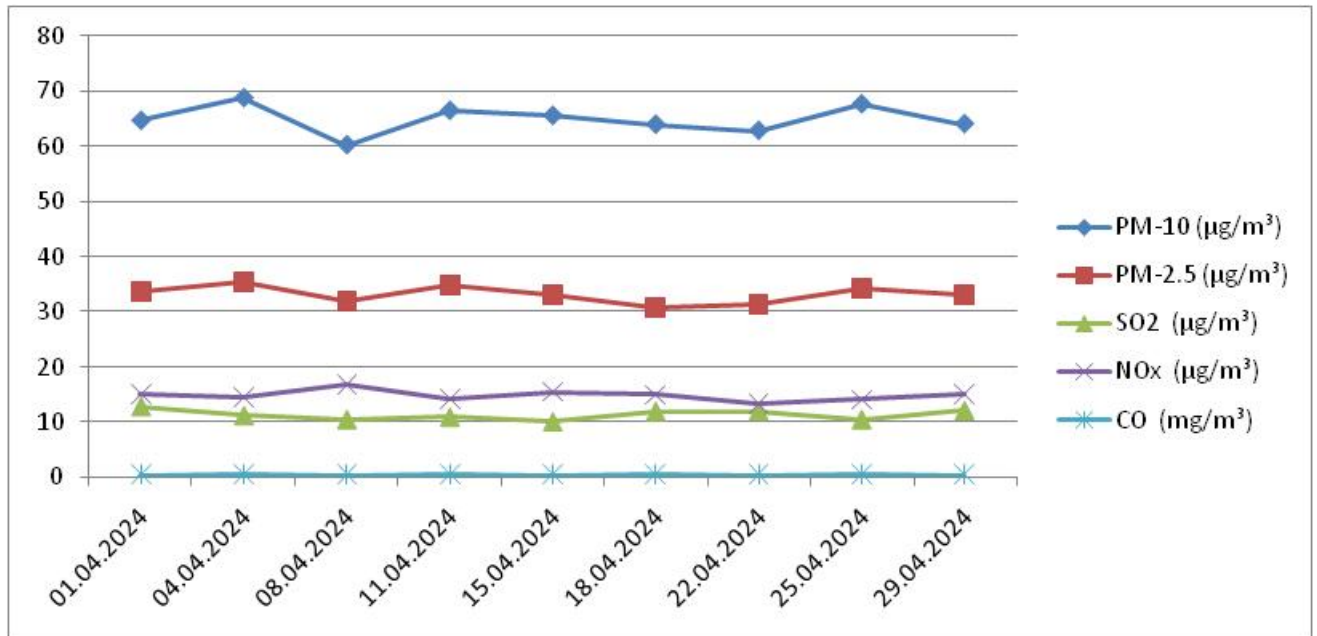
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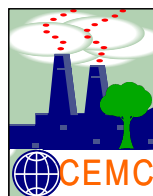
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Report no.-CEMC/TSSEZL/040524/W1

Issued Date-04.05.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 19.04.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 20.04.2024
Date of Analysis : 21.04.2024 to 27.04.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-02052024W1

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	7.13
3	Iron as Fe, Max.	mg/l	0.5	0.19
4	Chloride as Cl, Max.	mg/l	600	36.9
5	Dissolved Solids, Max.	mg/l	1500	194
6	Dissolved Oxygen, Min.	mg/l	4	6.2
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	23.4
11	Nitrate as NO ₃ , Max.	mg/l	50	1.6
12	Fluoride as F, Max.	mg/l	1.5	0.18
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	234
23	Faecal Coliform	MPN/100ml	--	22

, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Notes:

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Seal of Laboratory

Laboratory

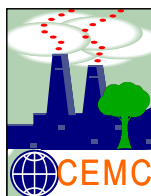
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Report no.-CEMC/TSSEZL/040524/W2

Issued Date-04.05.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 19.04.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 20.04.2024
Date of Analysis : 21.04.2024 to 27.04.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-02052024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	25
2	pH Value @ 25°C	--	6.5 to 8.5	7.84
3	Iron as Fe, Max.	mg/l	0.5	0.33
4	Chloride as Cl, Max.	mg/l	600	46.9
5	Dissolved Solids, Max.	mg/l	1500	198
6	Dissolved Oxygen, Min.	mg/l	4	5.7
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	29.4
11	Nitrate as NO ₃ , Max.	mg/l	50	2.3
12	Fluoride as F, Max.	mg/l	1.5	0.11
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	356
23	Faecal Coliform	MPN/100ml	--	32

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

Notes:

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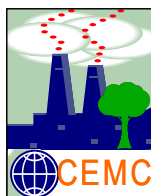
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Report No. - CEMC/ TSSEZL /040524/N

Issued Date-04.05.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04052024N
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.
19.04.2024	Near Anadrone Office	67.1	62.5	64.8	57.3	48.7	53.0
19.04.2024	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


Authorized Signatory

Seal of Laboratory

Notes:

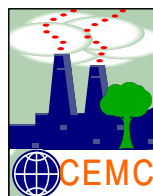
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Report no.-CEMC/TSSEZL/040624/A1

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

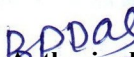
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office
Weather Conditions	Clear
Reference No.	CEMC-04062024A1
Instrument Used	Respirable Dust Sampler, 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)
02.05.2024	66.5	34.5	11.25	15.34	0.49	--	--	--	--	--	--	--
06.05.2024	61.7	32.5	10.82	14.34	0.46	--	--	--	--	--	--	--
09.05.2024	63.1	33.2	11.62	16.22	0.4	--	--	--	--	--	--	--
14.05.2024	60.3	31.8	11.38	15.62	0.51	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	64.8	33.6	10.65	14.56	0.49	--	--	--	--	--	--	--
20.05.2024	65.4	34.2	10.73	13.86	0.34	--	--	--	--	--	--	--
24.05.2024	62.6	31.7	10.49	14.65	0.45	--	--	--	--	--	--	--
27.05.2024	63.7	32.5	11.25	14.32	0.47	--	--	--	--	--	--	--
30.05.2024	65.9	33.6	10.24	13.36	0.36	--	--	--	--	--	--	--
Avg	63.76	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


Authorized Signatory

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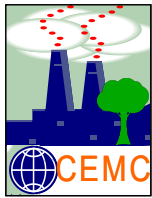


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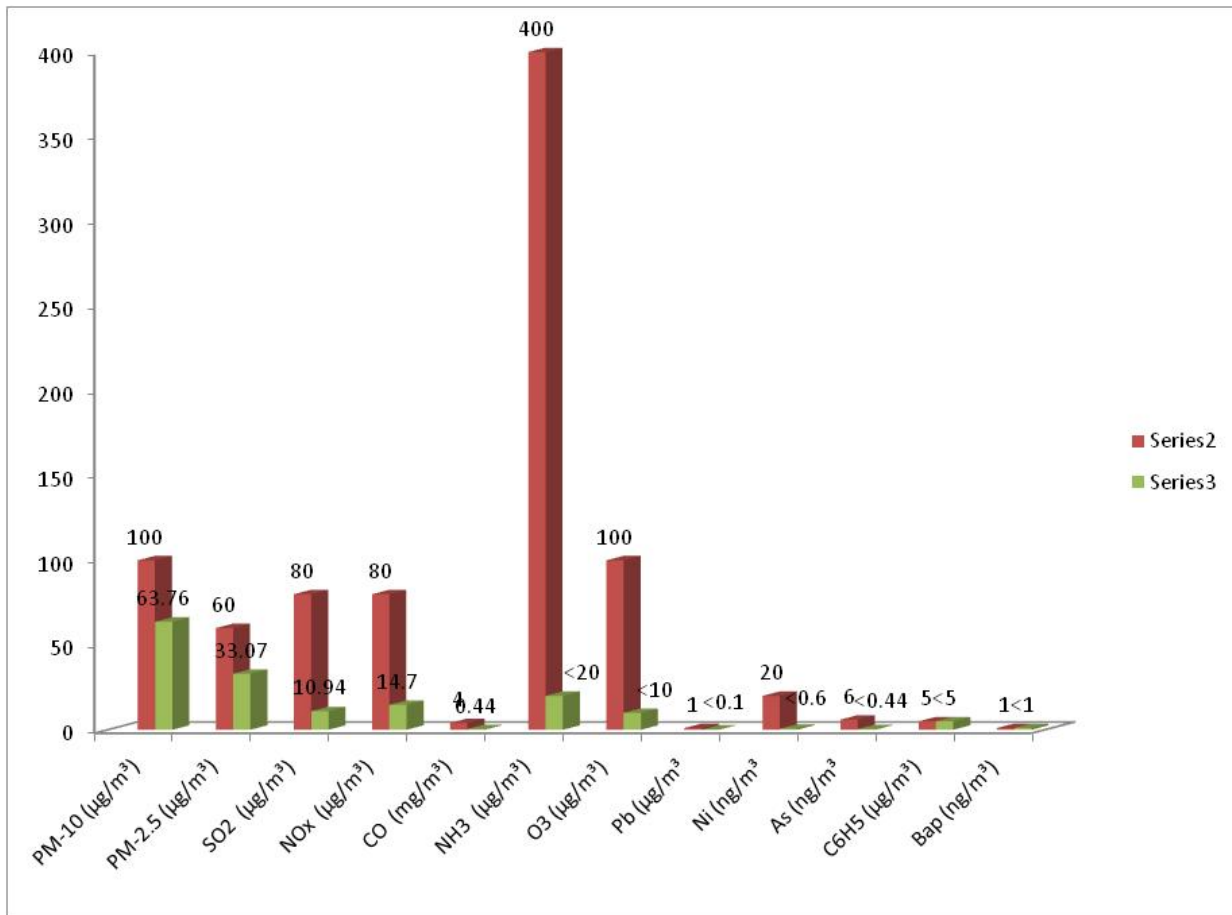
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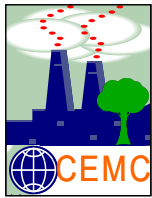
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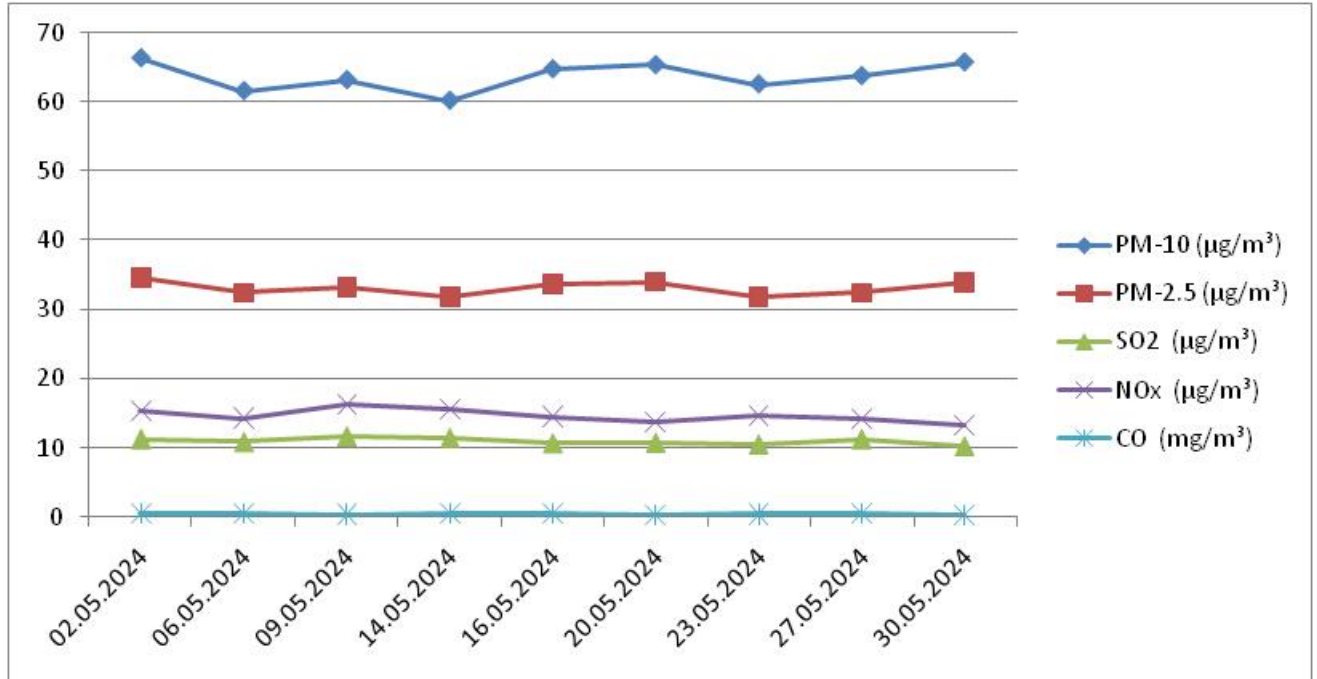
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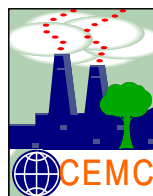
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Report no.-CEMC/TSSEZL/040624/A2

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Anadrone Office
Weather Conditions	Clear
Reference No.	CEMC-04062024A2
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)
02.05.2024	65.6	34.4	10.41	14.32	0.51	--	--	--	--	--	--	--
06.05.2024	67.4	35.8	12.88	16.12	0.47	--	--	--	--	--	--	--
09.05.2024	63.2	32.2	10.14	14.32	0.51	--	--	--	--	--	--	--
14.05.2024	64.4	33.8	11.34	14.43	0.44	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	65.6	34.6	11.62	13.92	0.52	--	--	--	--	--	--	--
20.05.2024	66.2	35.4	11.12	13.73	0.49	--	--	--	--	--	--	--
24.05.2024	63.6	32.0	10.76	15.62	0.51	--	--	--	--	--	--	--
27.05.2024	62.2	33.2	13.82	15.34	0.61	--	--	--	--	--	--	--
30.05.2024	64.8	32.5	11.92	15.32	0.46	--	--	--	--	--	--	--
Avg	64.78	33.76	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


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Notes:

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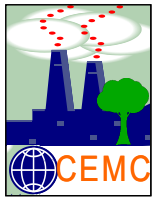
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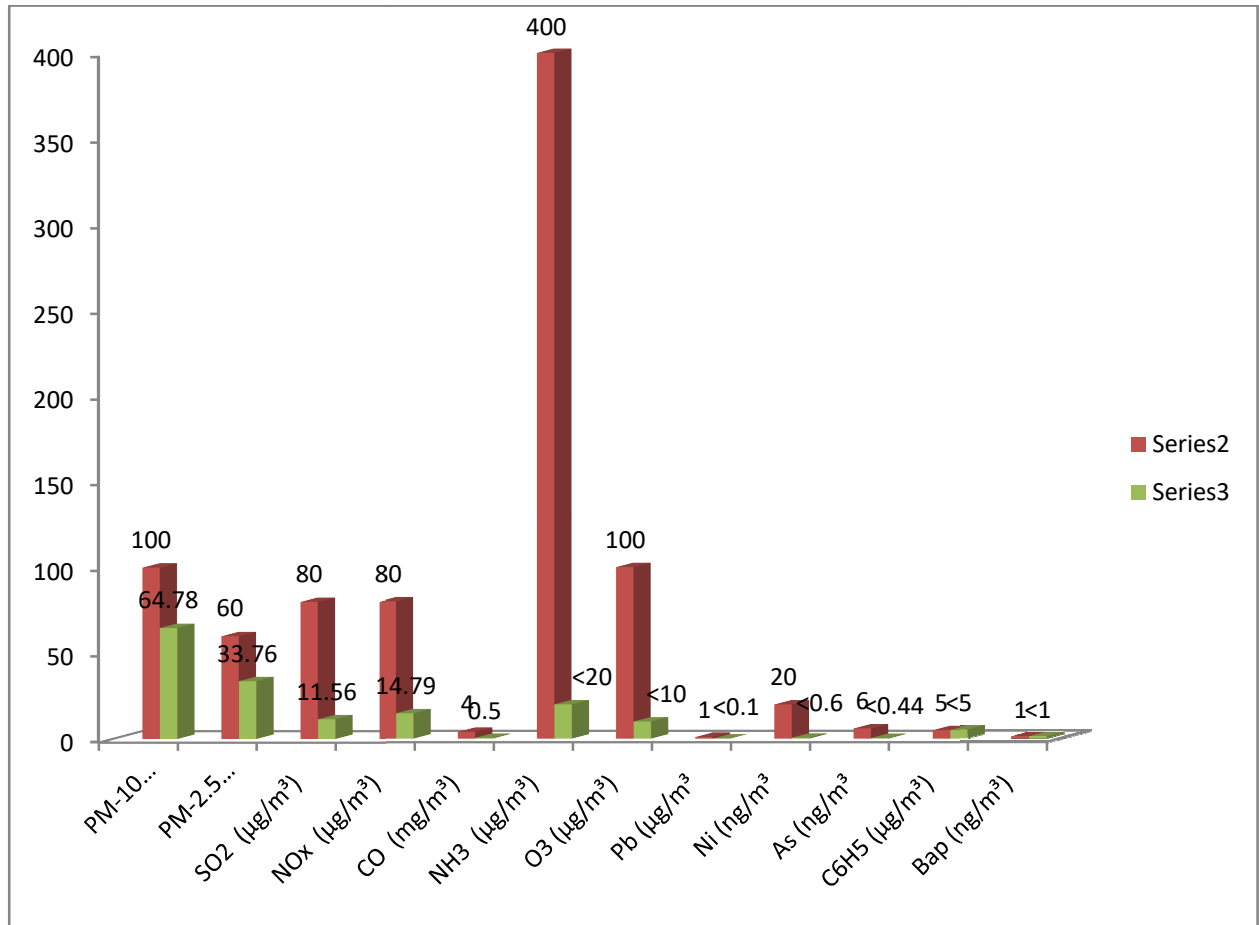
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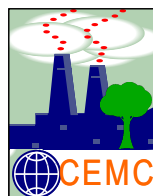
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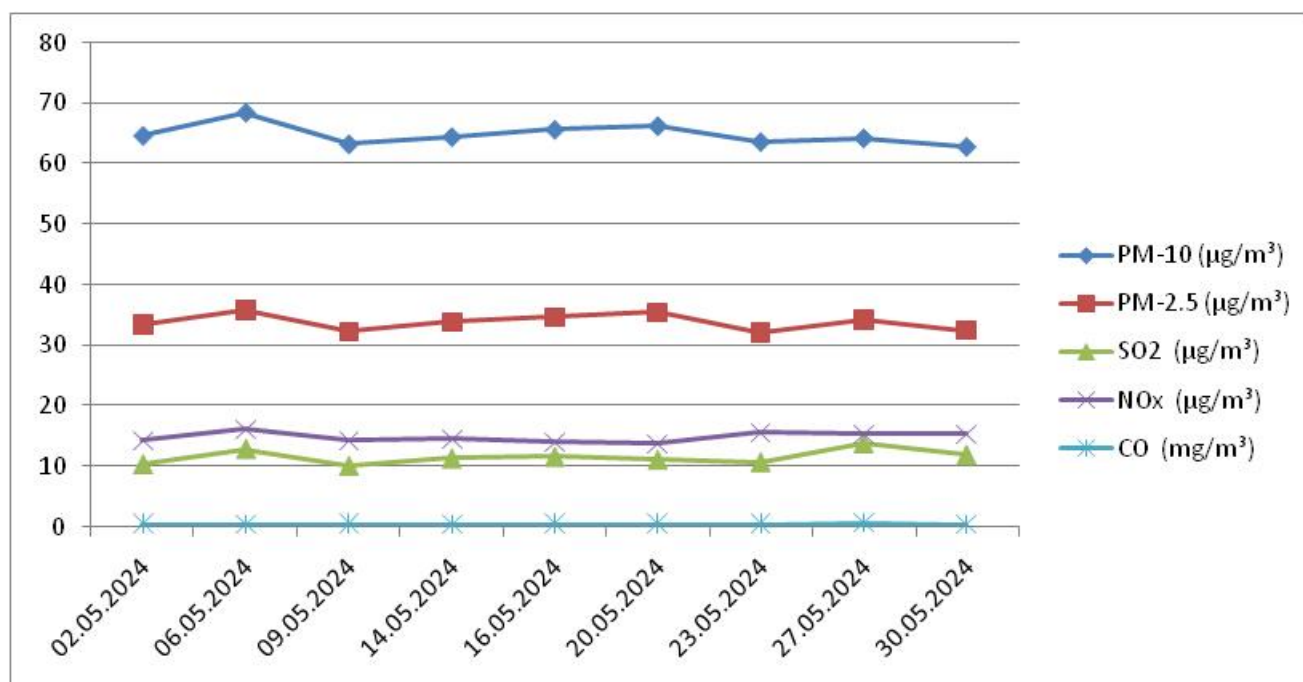
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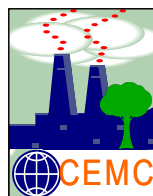
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Report no.-CEMC/TSSEZL/040624/A3

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04062024A3
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)
02.05.2024	63.6	33.2	9.42	13.34	0.41	--	--	--	--	--	--	--
06.05.2024	59.8	30.6	9.86	14.12	0.38	--	--	--	--	--	--	--
09.05.2024	61.4	32.6	8.58	12.45	0.36	--	--	--	--	--	--	--
14.05.2024	60.2	30.4	7.94	12.34	0.4	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	63.8	34.6	7.72	11.38	0.38	--	--	--	--	--	--	--
20.05.2024	62.9	32.4	7.42	11.96	0.3	--	--	--	--	--	--	--
24.05.2024	60.1	31.4	8.38	13.24	0.35	--	--	--	--	--	--	--
27.05.2024	60.8	30.2	8.32	12.34	0.41	--	--	--	--	--	--	--
30.05.2024	62.2	31.2	8.66	12.92	0.36	--	--	--	--	--	--	--
Avg	61.67	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)

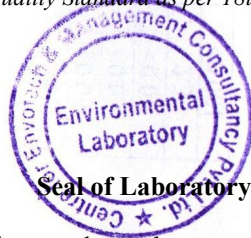
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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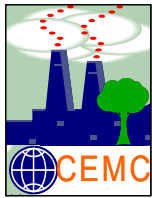
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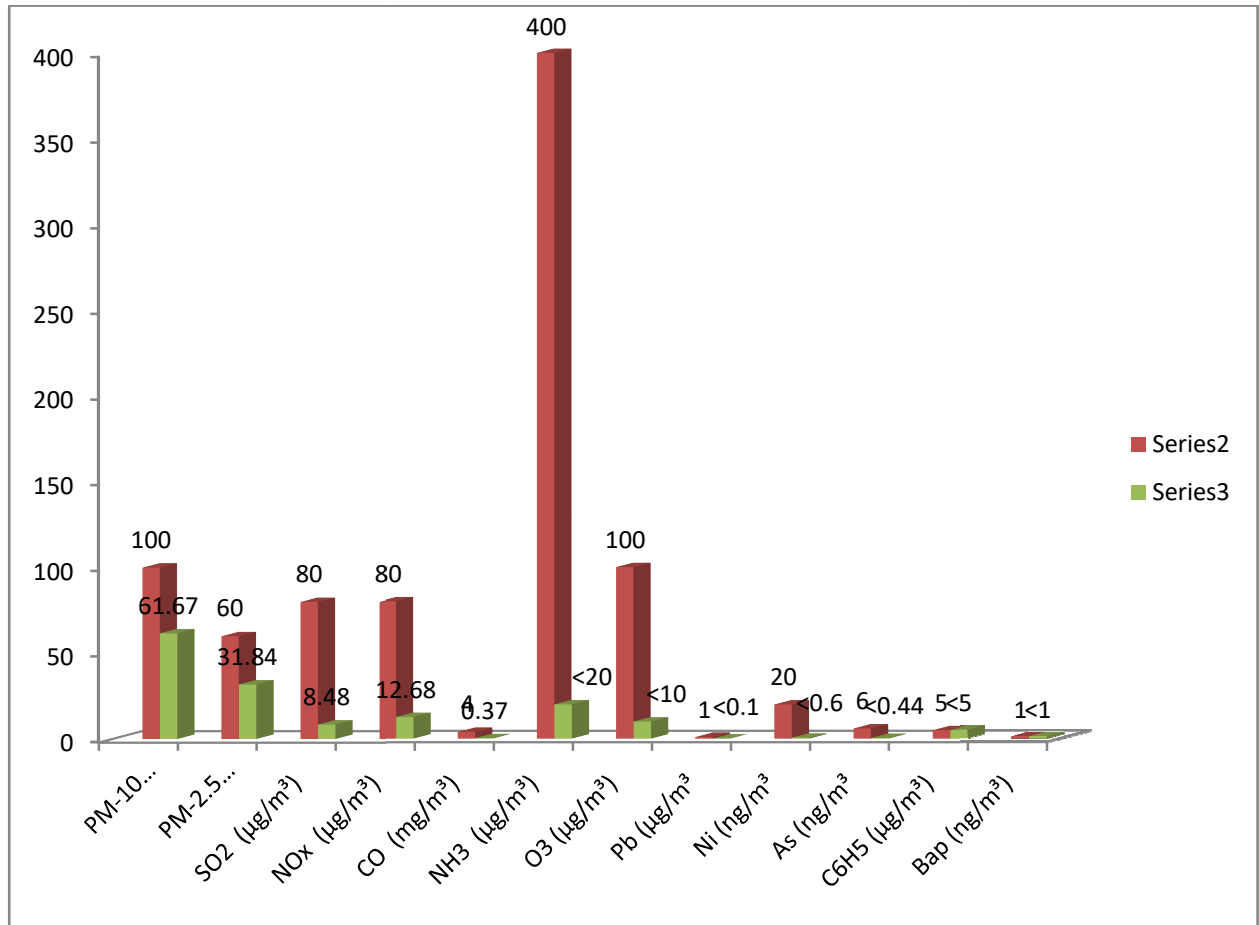
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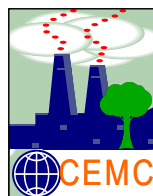
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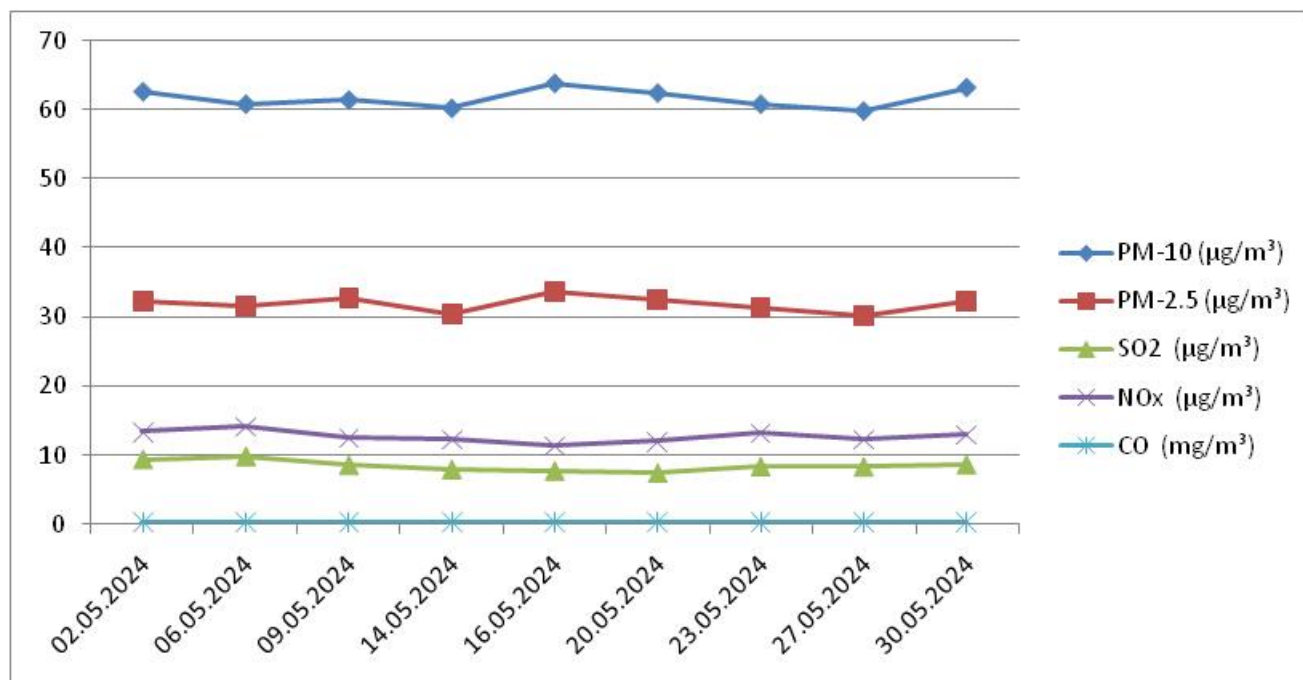
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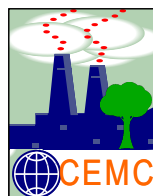
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Report no.-CEMC/TSSEZL/040624/A

Issued Date-04.06.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04062024A
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadron Office	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

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

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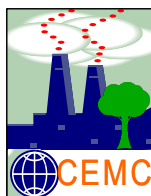
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Report no.-CEMC/TSSEZL/040624/W1

Issued Date-04.06.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.05.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 25.05.2024
Date of Analysis : 25.05.2024 to 30.05.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-04062024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	7.34
3	Iron as Fe, Max.	mg/l	50	0.2
4	Chloride as Cl, Max.	mg/l	600	39.9
5	Dissolved Solids, Max.	mg/l	1500	290
6	Dissolved Oxygen, Min.	mg/l	4	6.2
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	24.6
11	Nitrate as NO ₃ , Max.	mg/l	50	3.2
12	Fluoride as F, Max.	mg/l	1.5	0.12
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	210
24	Faecal Coliform	MPN/100ml	--	11

, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Notes:

- The result given above related to the tested sample, as received. The customer asked for the above test only.
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Seal of Laboratory

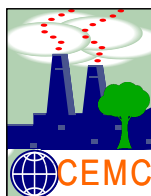
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Report no.-CEMC/TSSEZL/040624/W2

Issued Date-04.06.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.05.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 25.05.2024
Date of Analysis : 25.05.2024 to 30.05.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04062024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	20
2	pH Value @ 25°C	--	6.5 to 8.5	7.24
3	Iron as Fe, Max.	mg/l	50	0.4
4	Chloride as Cl, Max.	mg/l	600	49.9
5	Dissolved Solids, Max.	mg/l	1500	580
6	Dissolved Oxygen, Min.	mg/l	4	6.0
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	29.8
11	Nitrate as NO ₃ , Max.	mg/l	50	3.8
12	Fluoride as F, Max.	mg/l	1.5	0.18
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	320
24	Faecal Coliform	MPN/100ml	--	21

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

END OF REPORT

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Seal of Laboratory

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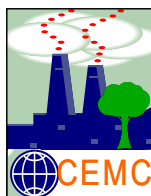
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Report No. - CEMC/ TSSEZL /040624/N

Issued Date-04.06.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04062024N
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.
24.05.2024	Near Anadrone Office	63.3	59.5	61.4	57.4	53.4	55.4
24.05.2024	Near main gate(Chamakhandi)	68.7	64.1	66.4	60.4	56.6	58.5

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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Seal of Laboratory

Notes:

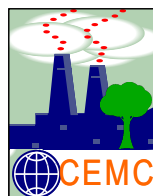
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Report no.-CEMC/TSSEZL/040624/A1

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office
Weather Conditions	Clear
Reference No.	CEMC-04062024A1
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)
02.05.2024	66.5	34.5	11.25	15.34	0.49	--	--	--	--	--	--	--
06.05.2024	61.7	32.5	10.82	14.34	0.46	--	--	--	--	--	--	--
09.05.2024	63.1	33.2	11.62	16.22	0.4	--	--	--	--	--	--	--
14.05.2024	60.3	31.8	11.38	15.62	0.51	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	64.8	33.6	10.65	14.56	0.49	--	--	--	--	--	--	--
20.05.2024	65.4	34.2	10.73	13.86	0.34	--	--	--	--	--	--	--
24.05.2024	62.6	31.7	10.49	14.65	0.45	--	--	--	--	--	--	--
27.05.2024	63.7	32.5	11.25	14.32	0.47	--	--	--	--	--	--	--
30.05.2024	65.9	33.6	10.24	13.36	0.36	--	--	--	--	--	--	--
Avg	63.76	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

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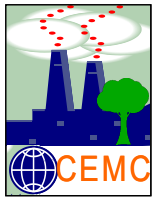
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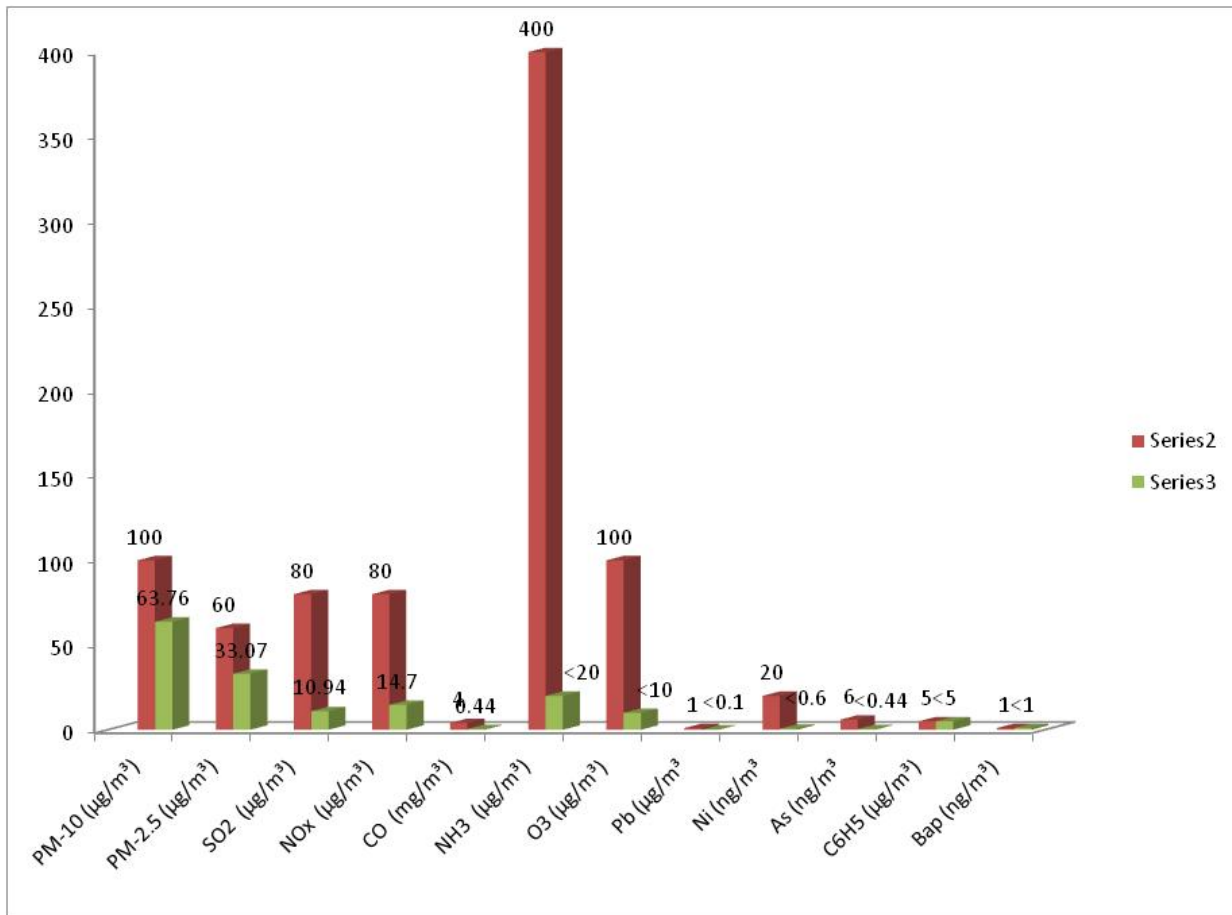
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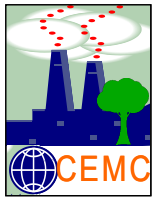
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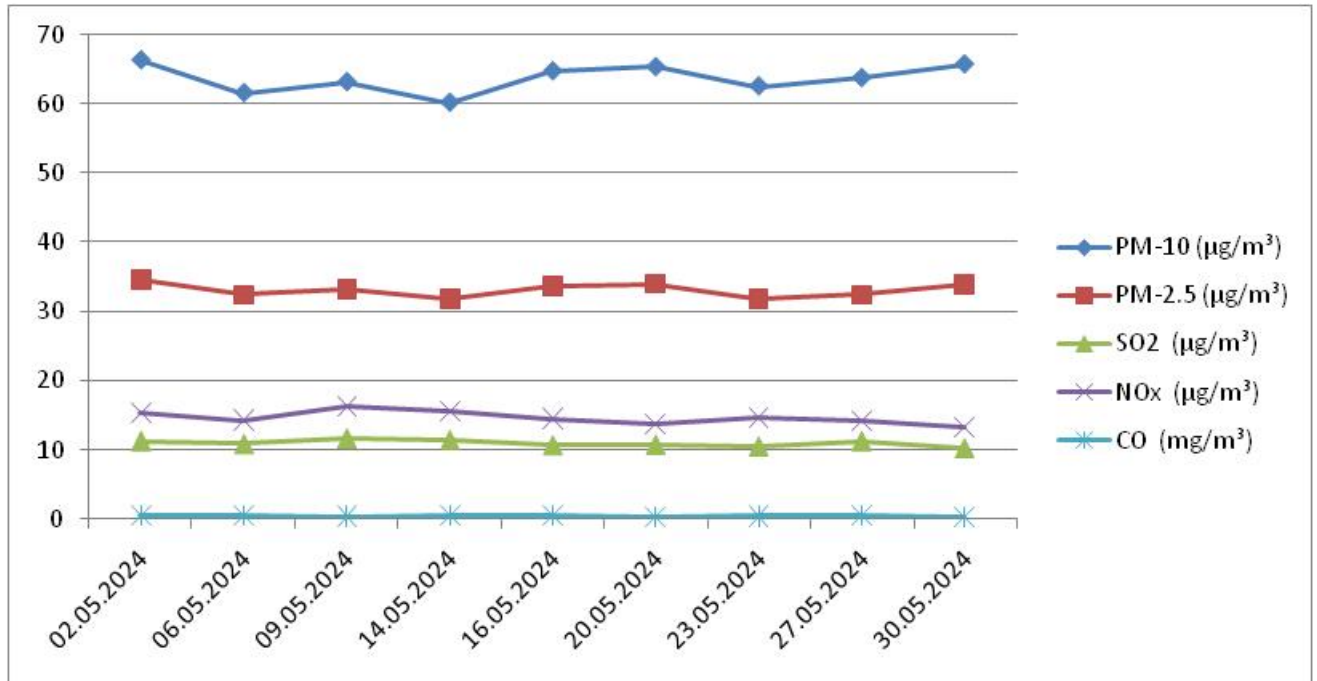
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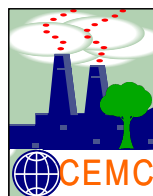
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Report no.-CEMC/TSSEZL/040624/A2

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Anadrone Office
Weather Conditions	Clear
Reference No.	CEMC-04062024A2
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)
02.05.2024	65.6	34.4	10.41	14.32	0.51	--	--	--	--	--	--	--
06.05.2024	67.4	35.8	12.88	16.12	0.47	--	--	--	--	--	--	--
09.05.2024	63.2	32.2	10.14	14.32	0.51	--	--	--	--	--	--	--
14.05.2024	64.4	33.8	11.34	14.43	0.44	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	65.6	34.6	11.62	13.92	0.52	--	--	--	--	--	--	--
20.05.2024	66.2	35.4	11.12	13.73	0.49	--	--	--	--	--	--	--
24.05.2024	63.6	32.0	10.76	15.62	0.51	--	--	--	--	--	--	--
27.05.2024	62.2	33.2	13.82	15.34	0.61	--	--	--	--	--	--	--
30.05.2024	64.8	32.5	11.92	15.32	0.46	--	--	--	--	--	--	--
Avg	64.78	33.76	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.

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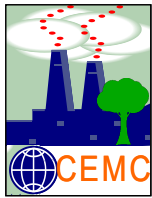
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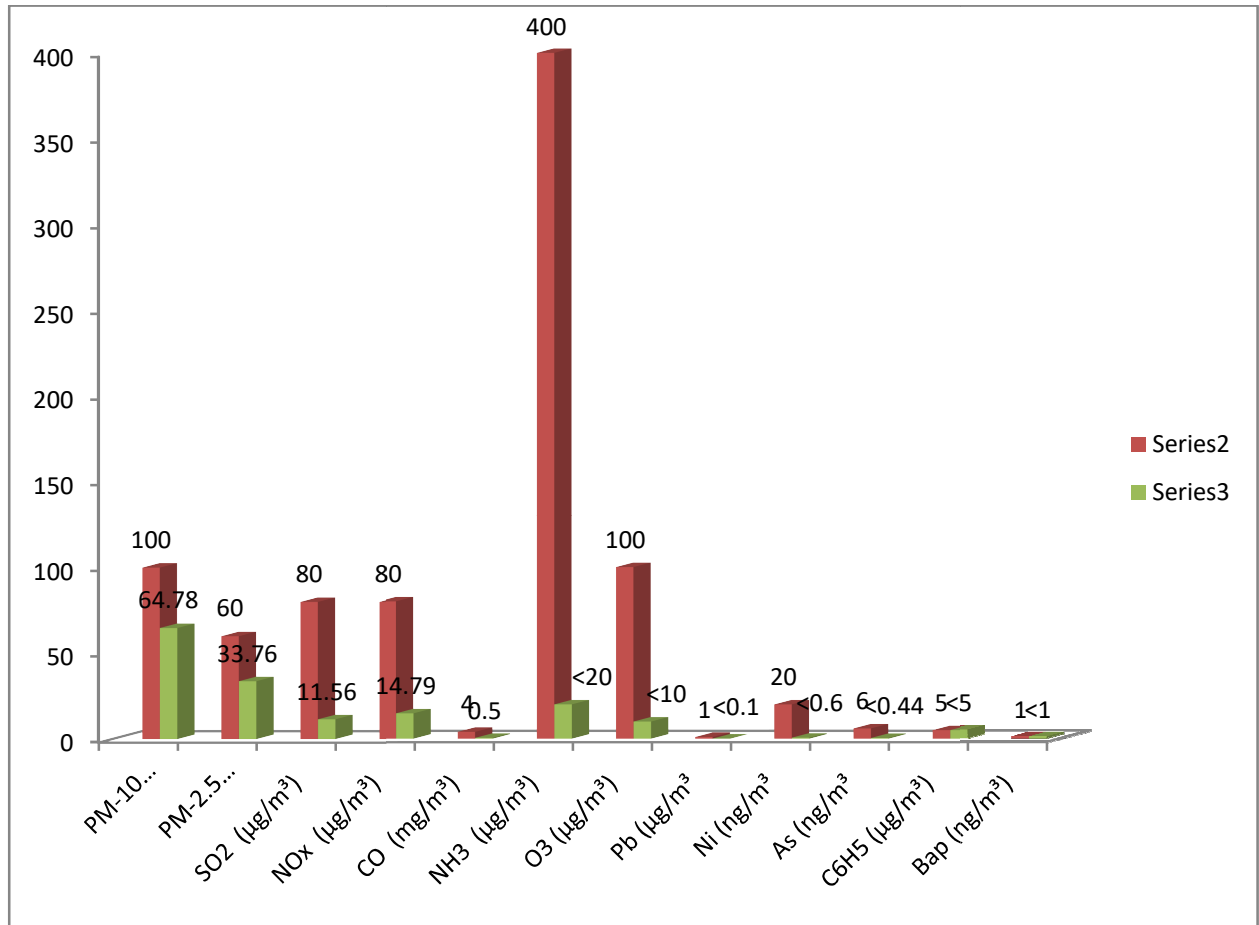
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NB-Series2 –Stands for Standard, Series3 –Stands for Result

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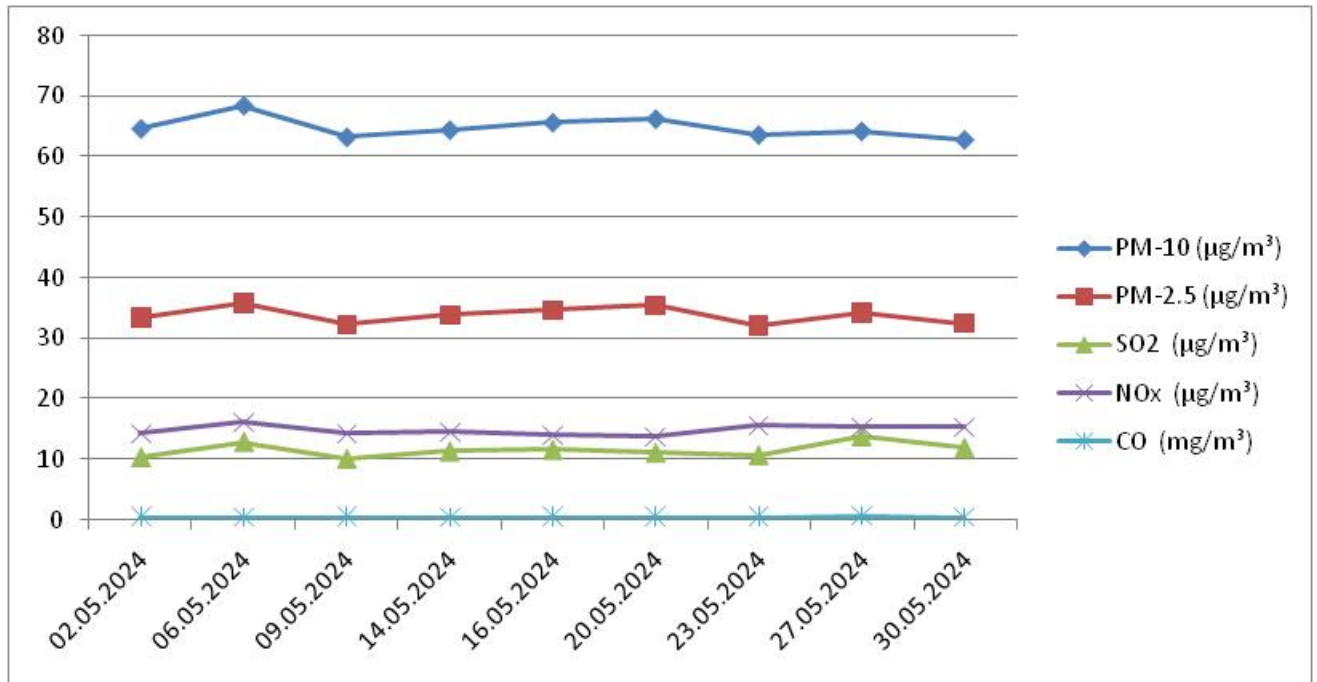
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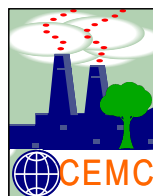
This Graph is belongs to Station-02(Near Anadron Office) For the Month of May-24

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Report no.-CEMC/TSSEZL/040624/A3

Issued Date-04.06.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-04062024A3
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)
02.05.2024	63.6	33.2	9.42	13.34	0.41	--	--	--	--	--	--	--
06.05.2024	59.8	30.6	9.86	14.12	0.38	--	--	--	--	--	--	--
09.05.2024	61.4	32.6	8.58	12.45	0.36	--	--	--	--	--	--	--
14.05.2024	60.2	30.4	7.94	12.34	0.4	<20	<10	<0.1	<0.6	<0.44	<5	<1
16.05.2024	63.8	34.6	7.72	11.38	0.38	--	--	--	--	--	--	--
20.05.2024	62.9	32.4	7.42	11.96	0.3	--	--	--	--	--	--	--
24.05.2024	60.1	31.4	8.38	13.24	0.35	--	--	--	--	--	--	--
27.05.2024	60.8	30.2	8.32	12.34	0.41	--	--	--	--	--	--	--
30.05.2024	62.2	31.2	8.66	12.92	0.36	--	--	--	--	--	--	--
Avg	61.67	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)

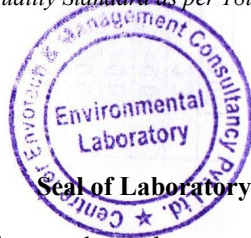
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT

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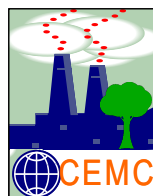
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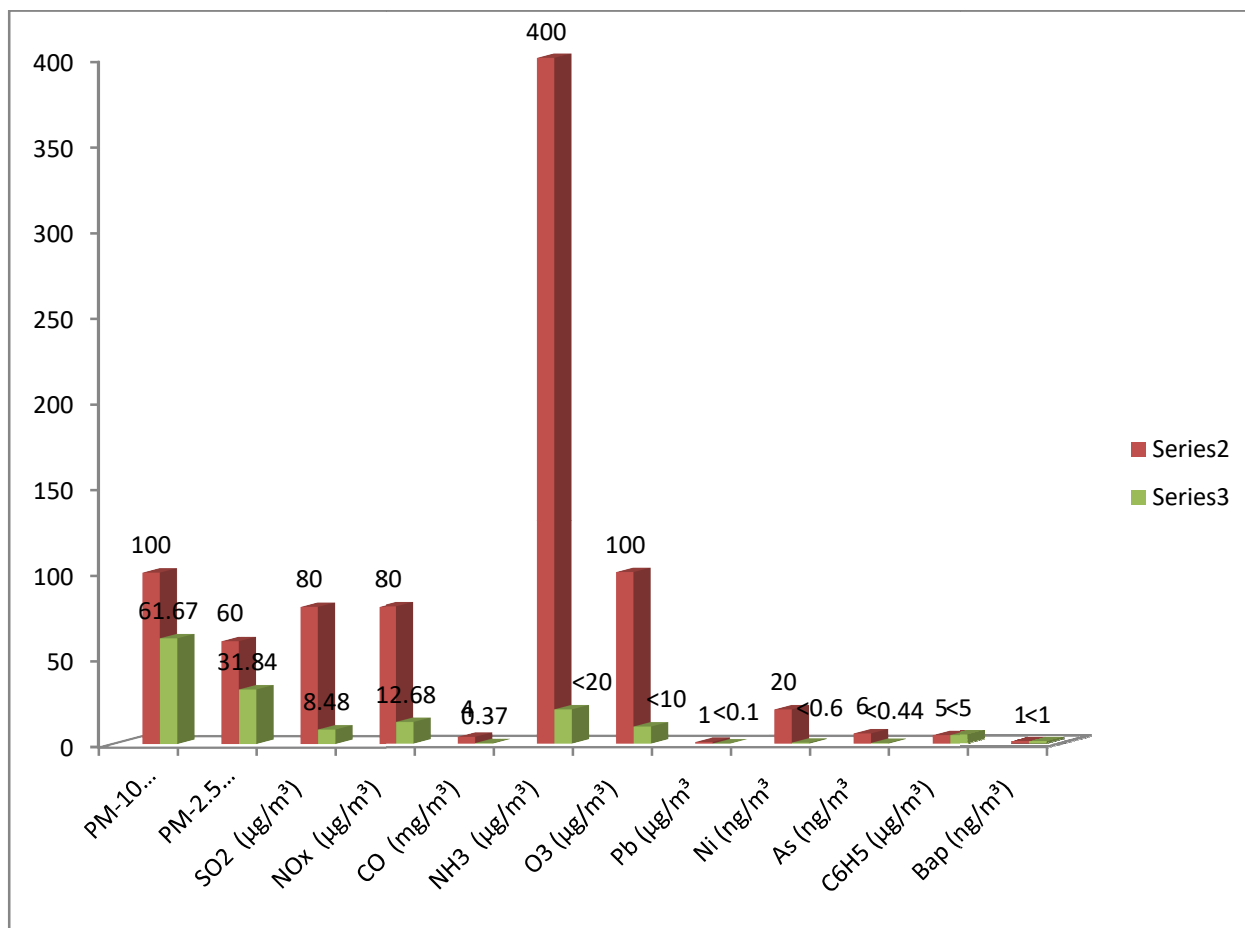
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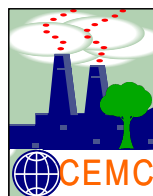
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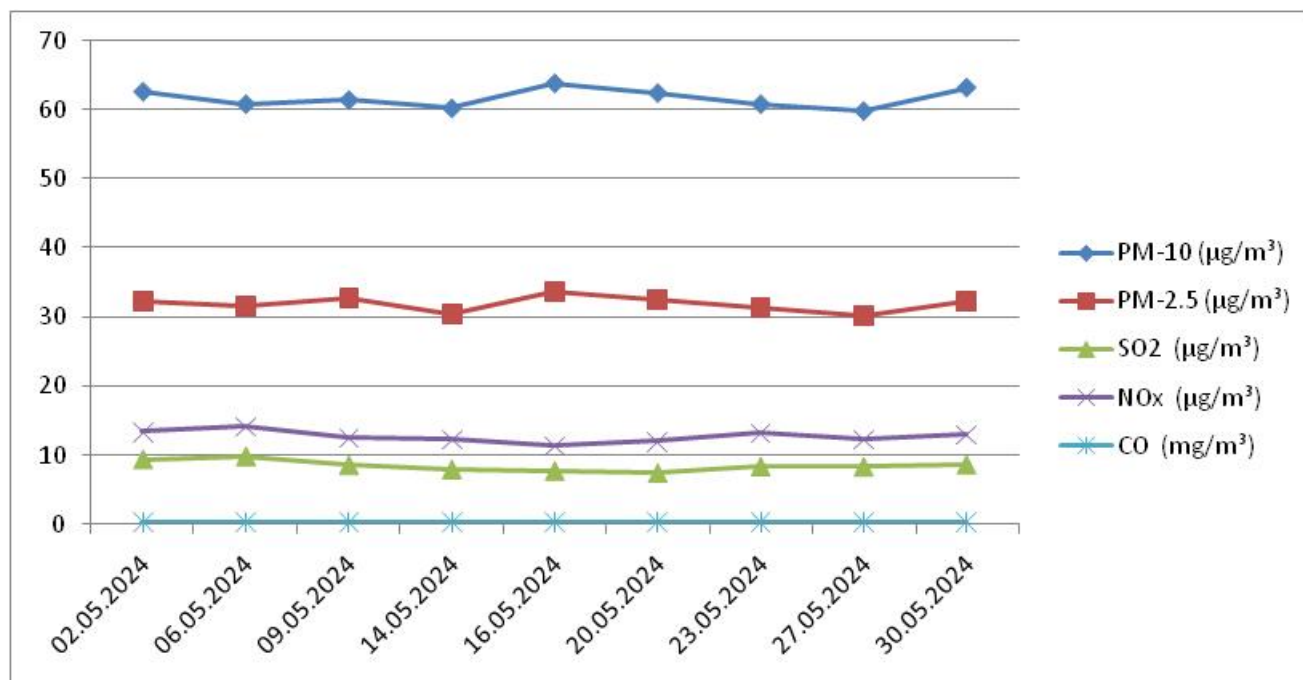
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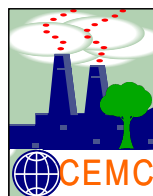
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Report no.-CEMC/TSSEZL/040624/A

Issued Date-04.06.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04062024A
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadron Office	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	14.05.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

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

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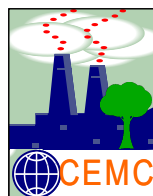
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Report no.-CEMC/TSSEZL/040624/W1

Issued Date-04.06.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.05.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 25.05.2024
Date of Analysis : 25.05.2024 to 30.05.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-04062024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	7.34
3	Iron as Fe, Max.	mg/l	50	0.2
4	Chloride as Cl, Max.	mg/l	600	39.9
5	Dissolved Solids, Max.	mg/l	1500	290
6	Dissolved Oxygen, Min.	mg/l	4	6.2
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	24.6
11	Nitrate as NO ₃ , Max.	mg/l	50	3.2
12	Fluoride as F, Max.	mg/l	1.5	0.12
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	210
24	Faecal Coliform	MPN/100ml	--	11

, MPN-Most Probable Number

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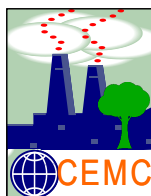
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Report no.-CEMC/TSSEZL/040624/W2

Issued Date-04.06.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 24.05.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 25.05.2024
Date of Analysis : 25.05.2024 to 30.05.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04062024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	20
2	pH Value @ 25°C	--	6.5 to 8.5	7.24
3	Iron as Fe, Max.	mg/l	50	0.4
4	Chloride as Cl, Max.	mg/l	600	49.9
5	Dissolved Solids, Max.	mg/l	1500	580
6	Dissolved Oxygen, Min.	mg/l	4	6.0
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	29.8
11	Nitrate as NO ₃ , Max.	mg/l	50	3.8
12	Fluoride as F, Max.	mg/l	1.5	0.18
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	320
24	Faecal Coliform	MPN/100ml	--	21

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

END OF REPORT

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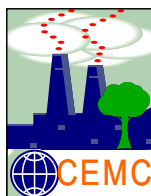
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Report No. - CEMC/ TSSEZL /040624/N

Issued Date-04.06.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04062024N
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.
24.05.2024	Near Anadrone Office	63.3	59.5	61.4	57.4	53.4	55.4
24.05.2024	Near main gate(Chamakhandi)	68.7	64.1	66.4	60.4	56.6	58.5

End of Report

NATIONAL STANDARD NOISE LEVEL

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

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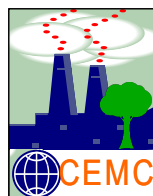
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Report no.-CEMC/TSSEZL/030724/A1

Issued Date-03.07.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

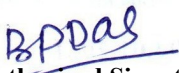
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office gate
Weather Conditions	Clear
Reference No.	CEMC-03072024A1
Instrument Used	Respirable Dust 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 ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
03.06.2024	67.4	38.3	13.24	18.21	0.56
06.06.2024	63.8	36.2	12.72	17.32	0.46
10.06.2024	65.7	36.8	12.85	17.88	0.53
13.06.2024	66.9	37.2	12.96	17.91	0.56
18.06.2024	62.6	32.1	13.64	18.49	0.61
20.06.2024	61.2	37.7	12.80	17.91	0.5
24.06.2024	64.9	35.6	12.85	17.88	0.55
27.06.2024	66.0	34.4	12.72	17.91	0.6
Avg	64.81	36.04	12.97	17.94	0.55
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

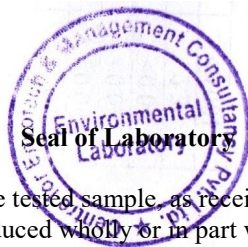
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

END OF REPORT


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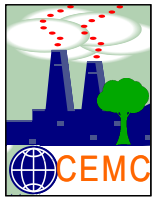
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS&GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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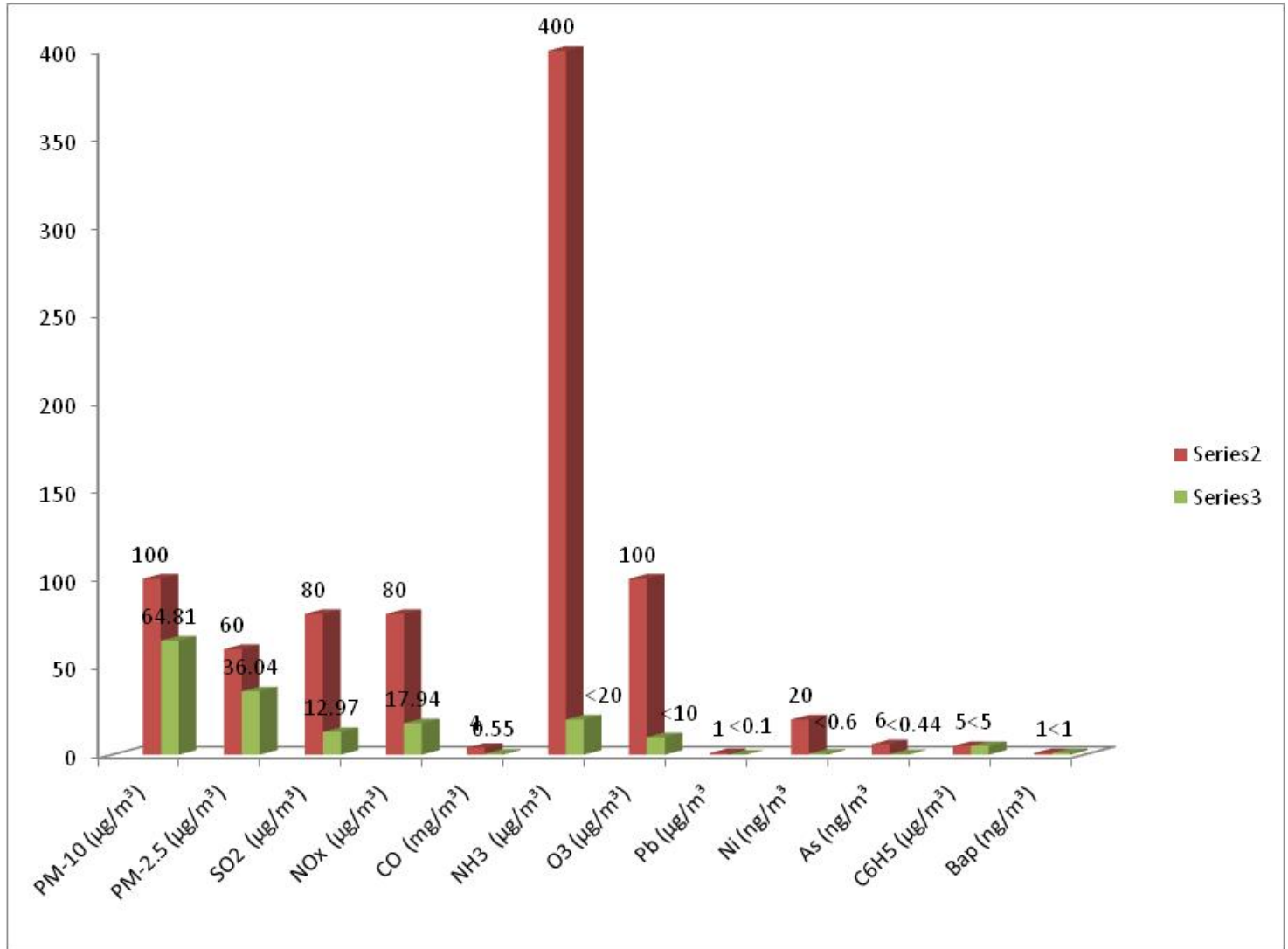
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of June-24

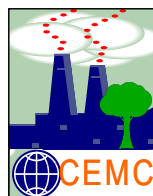
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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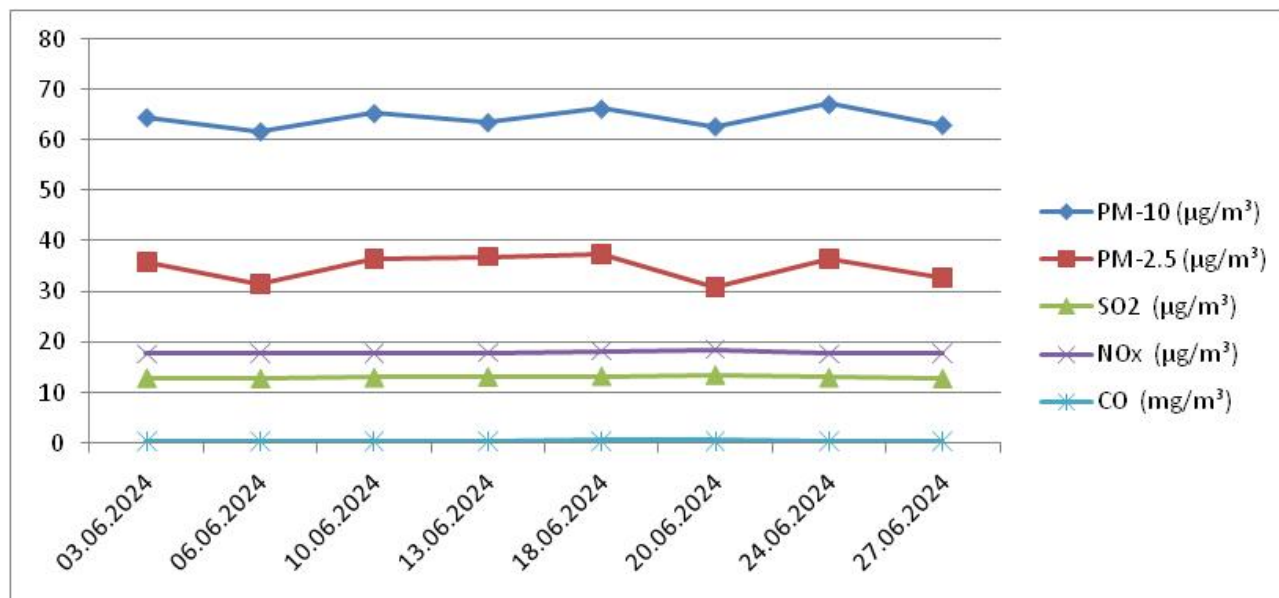
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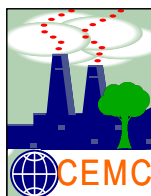
This Graph is belongs to Station-01(Near TSSEZL Project Office gate) For the Month of June-24

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Report no.-CEMC/TSSEZL/030724/A2

Issued Date-03.07.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

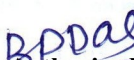
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-03072024A2
Instrument Used	Respirable Dust Sampler, Fine Dust 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)
03.06.2024	64.6	35.9	12.85	17.74	0.53
06.06.2024	61.8	31.4	12.72	17.79	0.49
10.06.2024	65.4	36.5	12.91	17.85	0.53
13.06.2024	63.6	36.9	13.08	17.93	0.52
18.06.2024	66.3	37.4	13.21	18.22	0.56
20.06.2024	62.8	30.8	13.43	18.56	0.61
24.06.2024	67.2	36.4	12.91	17.74	0.53
27.06.2024	63.1	32.8	12.72	17.85	0.49
Average	64.35	34.76	12.98	17.96	0.53
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

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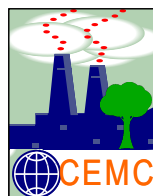


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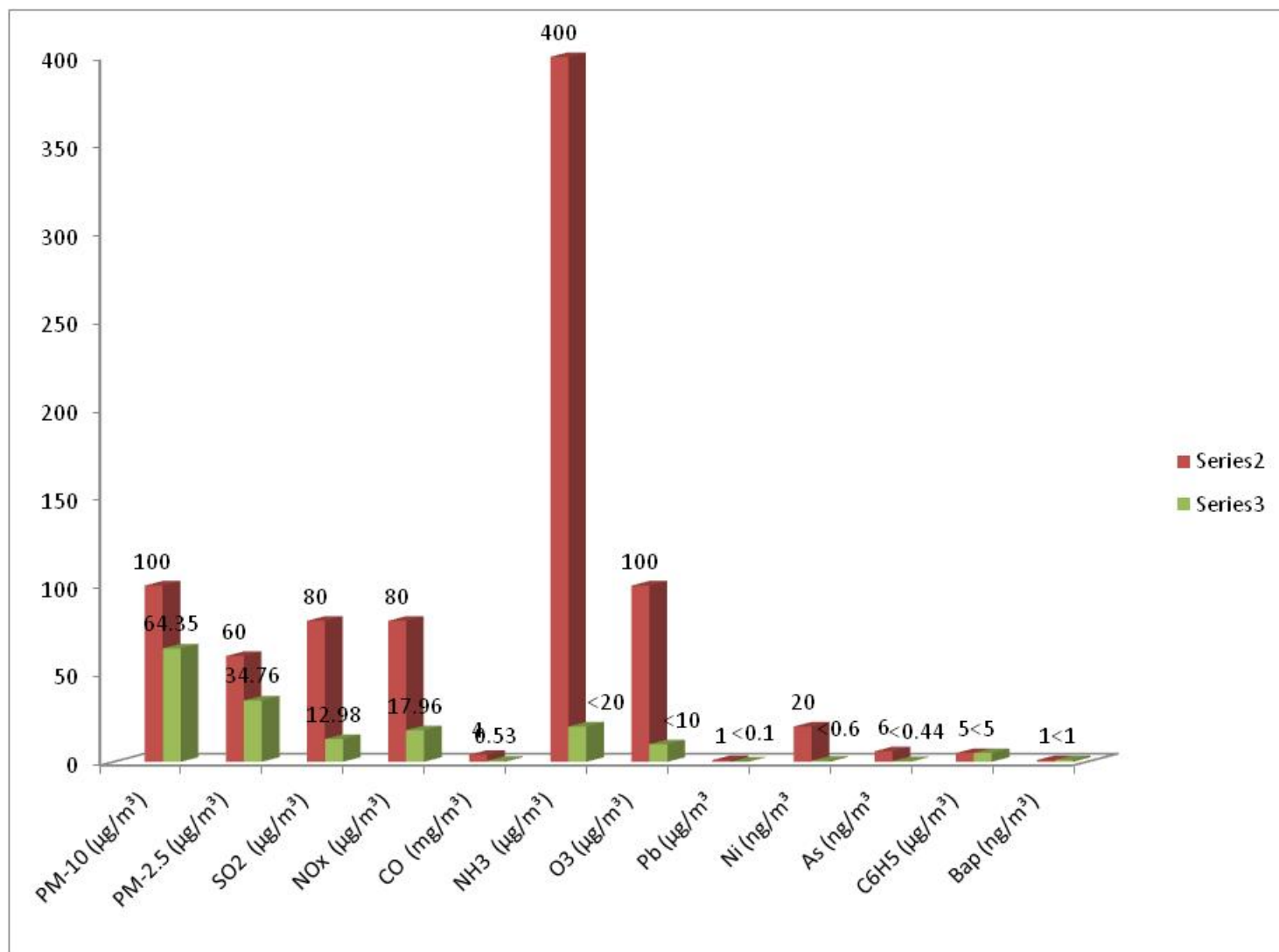
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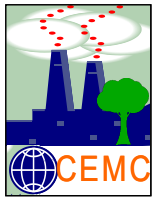
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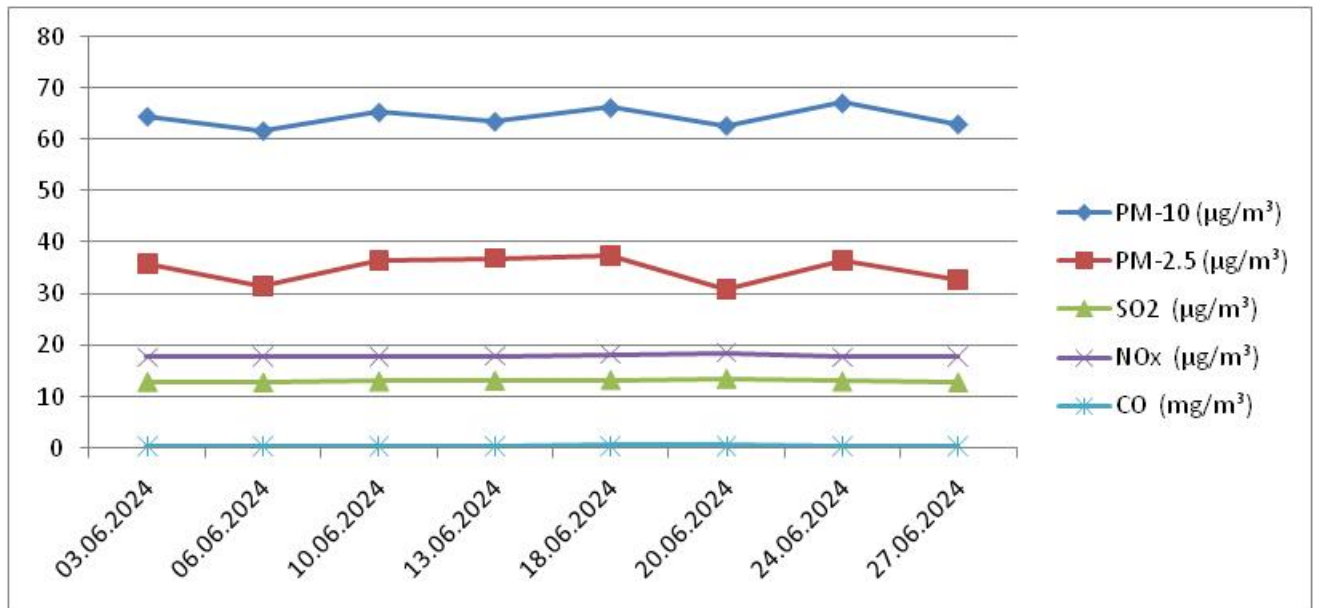
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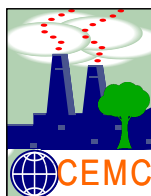
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Report no.-CEMC/TSSEZL/030724/A3

Issued Date-03.07.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

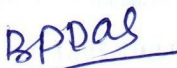
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-03072024A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

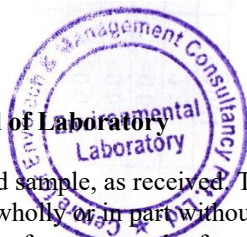
ANALYSIS RESULT

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)
03.06.2024	61.4	32.9	9.9	14.8	0.45
06.06.2024	60.8	30.4	9.2	14.75	0.44
10.06.2024	61.6	31.3	10.3	15.71	0.41
13.06.2024	60	30.8	9.2	15.52	0.43
18.06.2024	59.8	30.2	8.6	13.44	0.38
20.06.2024	63.4	32.8	10.3	15.71	0.4
24.06.2024	61.8	31.6	10.8	14.68	0.41
27.06.2024	62.2	33	12.4	15.52	0.39
Avg	61.38	31.63	10.09	15.02	0.41
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

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Seal of Laboratory

Notes:

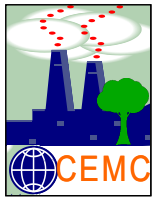
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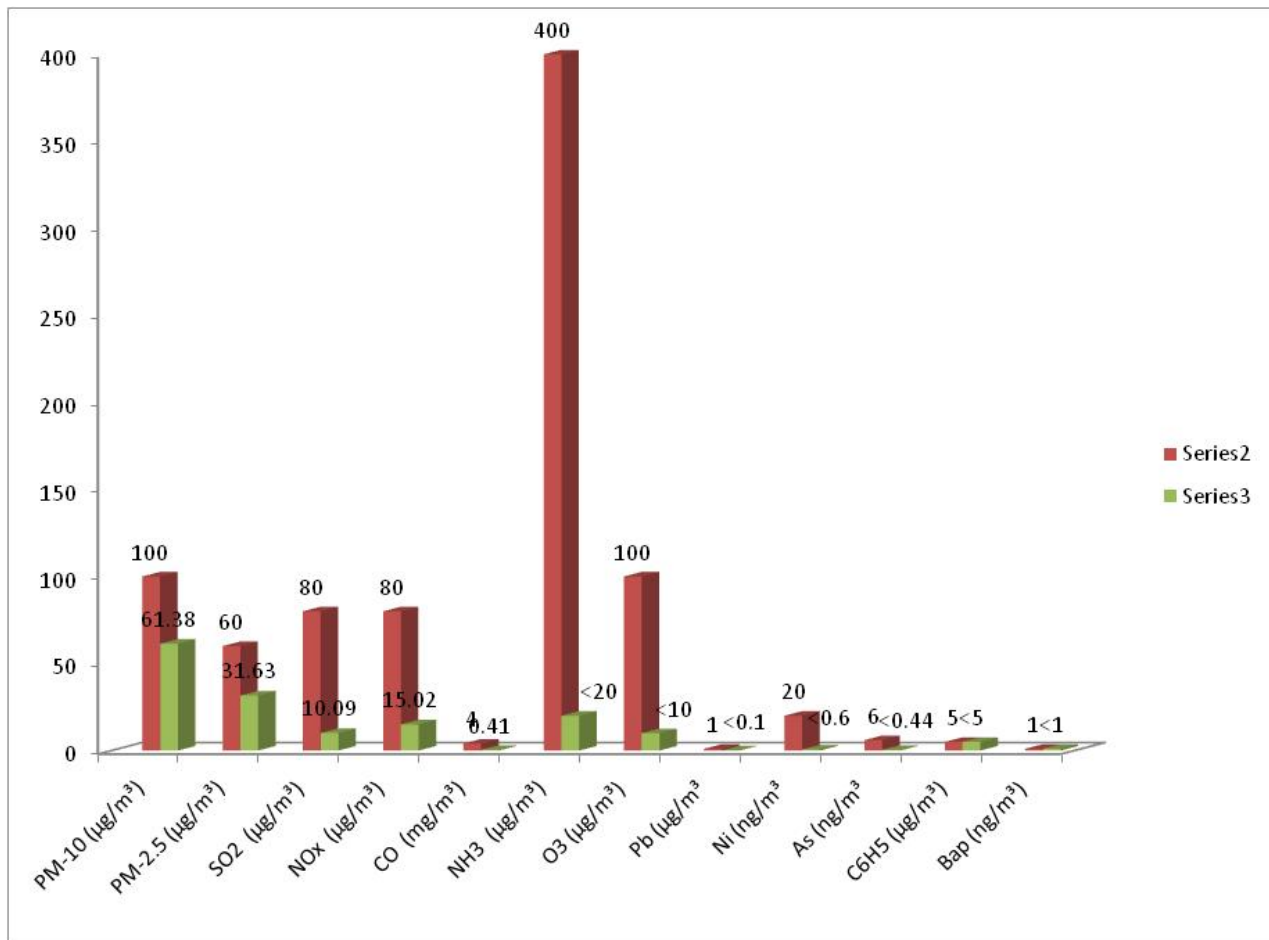
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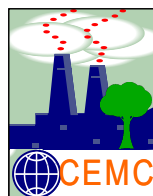
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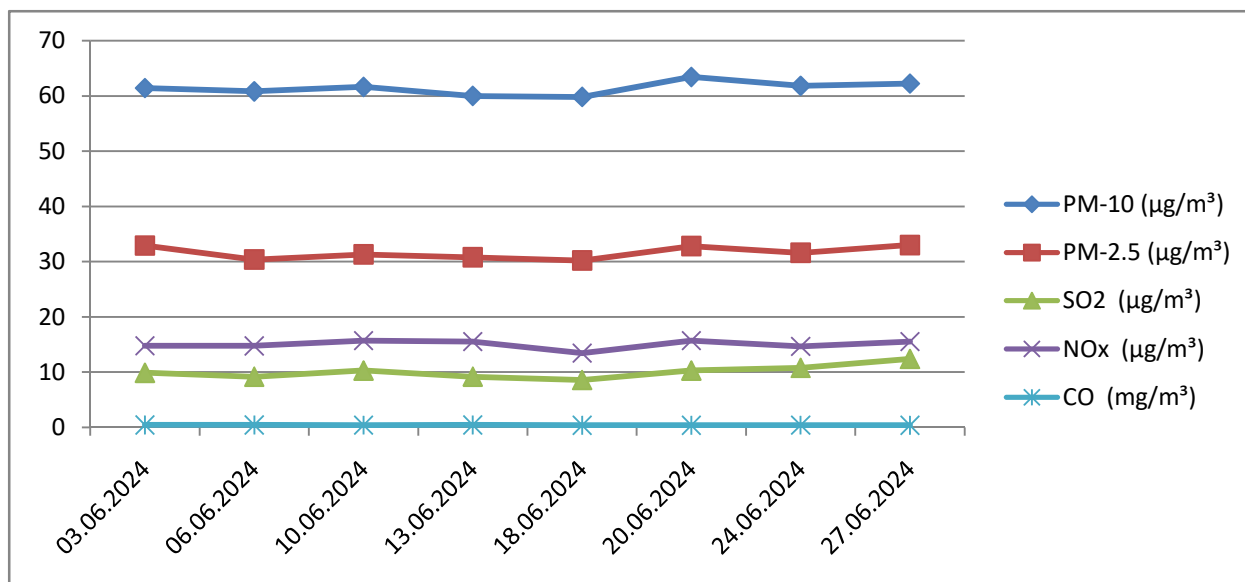
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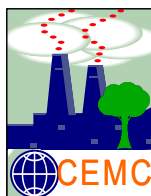
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Report no.-CEMC/TSSEZL/030724/A4

Issued Date-03.07.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-03072024A4
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	13.06.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Crusher Office	13.06.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	13.06.2024	<20	<10	<0.1	<0.6	<0.44	<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.

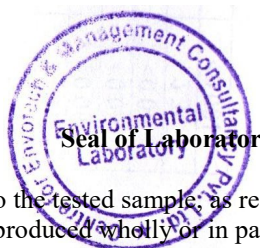
END OF REPORT

BPDAS

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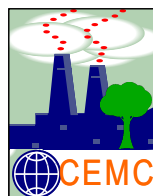
Seal of Laboratory

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Report no.-CEMC/TSSEZL/030724/W1

Issued Date-03.07.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.06.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.06.2024
Date of Analysis : 13.06.2024 to 19.06.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-03072024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	60
2	pH Value @ 25°C	--	6.5 to 8.5	7.42
3	Iron as Fe, Max.	mg/l	50	0.18
4	Chloride as Cl, Max.	mg/l	600	34.0
5	Dissolved Solids, Max.	mg/l	1500	276.0
6	Dissolved Oxygen, Min.	mg/l	4	6.9
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	5.9
11	Nitrate as NO ₃ , Max.	mg/l	50	1.8
12	Fluoride as F, Max.	mg/l	1.5	0.06
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	470
23	Faecal Coliform	MPN/100ml	--	21

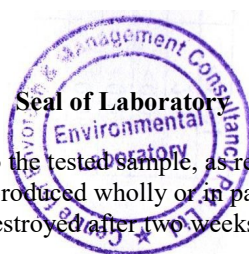
, MPN-Most Probable Number

END OF REPORT

BPDas
Authorized Signatory

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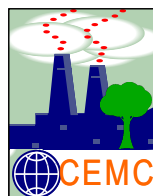
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Report no.-CEMC/TSSEZL/030724/W2

Issued Date-03.07.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.06.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.06.2024
Date of Analysis : 13.06.2024 to 19.06.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-03072024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW3
1	Colour, Max.	Hazen	300	70
2	pH Value @ 25°C	--	6.5 to 8.5	7.58
3	Iron as Fe, Max.	mg/l	50	0.22
4	Chloride as Cl, Max.	mg/l	600	30.0
5	Dissolved Solids, Max.	mg/l	1500	440.0
6	Dissolved Oxygen, Min.	mg/l	4	6.7
7	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
8	Oil & Grease, Max.	mg/l	0.1	ND
9	Copper as Cu, Max.	mg/l	1.5	<0.03
10	Sulphate as SO ₄ , Max.	mg/l	400	17.4
11	Nitrate as NO ₃ , Max.	mg/l	50	2.9
12	Fluoride as F, Max.	mg/l	1.5	0.09
13	Anionic detergent	mg/l	1	ND
14	Cadmium as Cd, Max.	mg/l	0.01	<0.003
15	Selenium as Se, Max.	mg/l	0.05	<0.001
16	Arsenic as As, Max.	mg/l	0.2	<0.001
17	Cyanide as CN, Max.	mg/l	0.05	ND
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
19	Lead as Pb, Max.	mg/l	0.1	<0.01
20	Zinc as Zn, Max.	mg/l	15	<0.05
21	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
22	Total Coliform, Max.	MPN/100ml	5000	470
23	Faecal Coliform	MPN/100ml	--	40

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

END OF REPORT

Authorized Signatory

Seal of Laboratory

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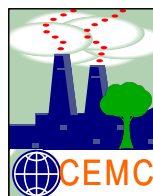
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Report No. - CEMC/ TSSEZL /030724/N

Issued Date-03.07.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03072024N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

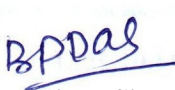
NOISE MONITORING REPORT

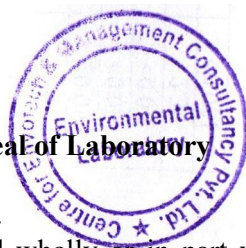
Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
13.06.2024	Near Project office	62.2	58.8	60.5	58.1	54.5	56.3
13.06.2024	Near main gate(Chamakhandi)	69.6	63.4	66.5	59.5	55.3	57.4

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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Report no.-CEMC/TSSEZL/030824/A1

Issued Date-03.08.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office Gate
Weather Conditions	Cloudy
Reference No.	CEMC-03082024A1
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)
01.07.2024	53.6	27.2	5.42	9.34	0.21	--	--	--	--	--	--	--
04.07.2024	49.8	24.6	5.86	10.12	0.18	--	--	--	--	--	--	--
08.07.2024	51.4	26.6	4.58	8.45	0.16	--	--	--	--	--	--	--
11.07.2024	50.2	24.4	3.94	8.34	0.2	--	--	--	--	--	--	--
15.07.2024	53.8	28.6	3.72	7.38	0.18	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.07.2024	52.9	26.4	3.42	7.96	0.1	--	--	--	--	--	--	--
22.07.2024	50.1	25.4	4.38	9.24	0.15	--	--	--	--	--	--	--
25.07.2024	50.8	24.2	4.32	8.34	0.21	--	--	--	--	--	--	--
30.07.2024	52.2	25.2	4.66	8.92	0.16	--	--	--	--	--	--	--
Avg	51.64	25.84	4.48	8.68	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)

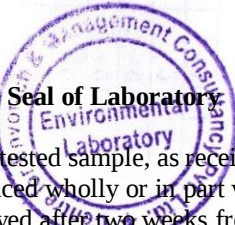
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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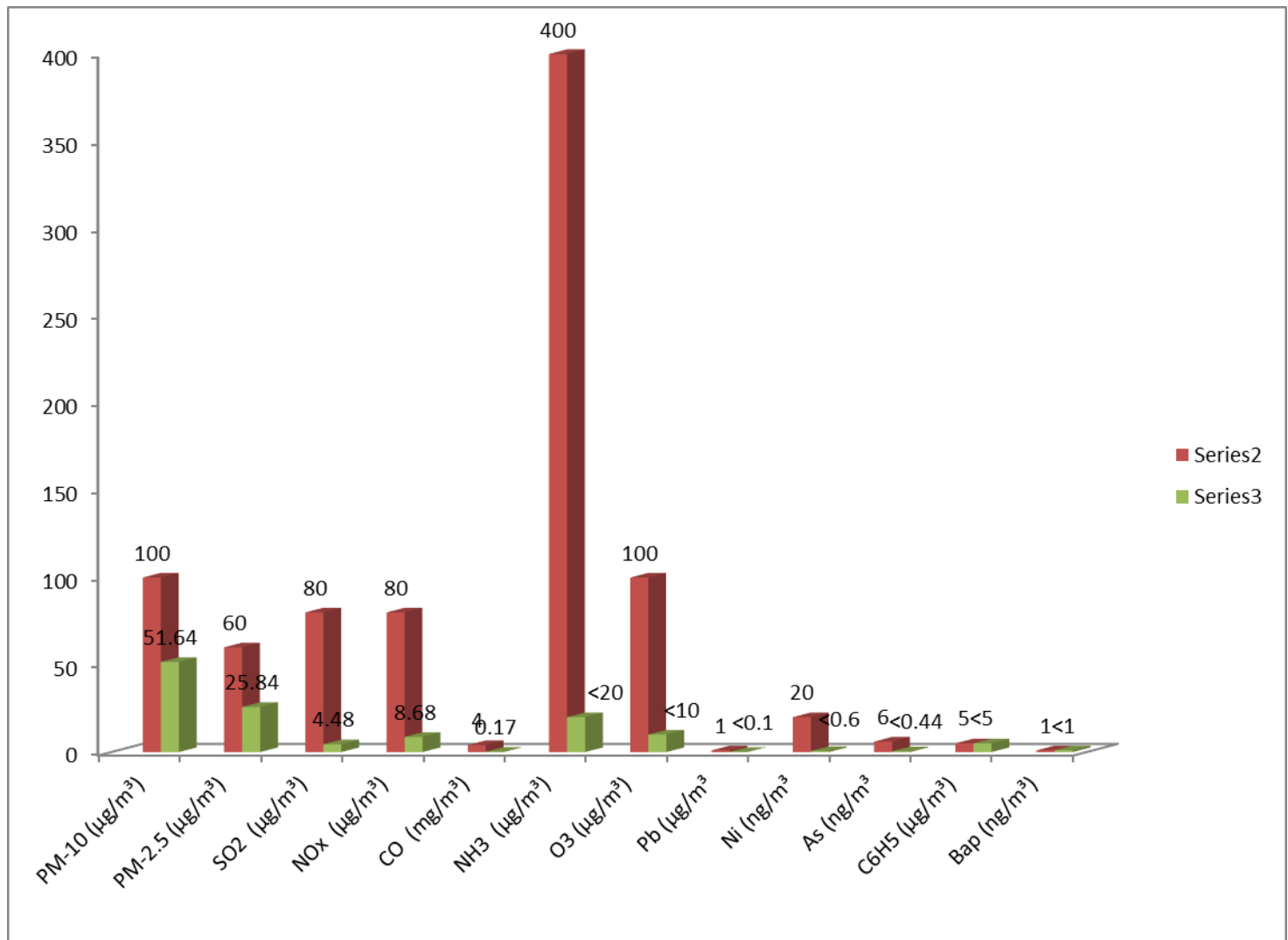
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This Graph is belongs to Station-01(Near TSSEZL Project Office Gate) For the Month of July-24

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

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

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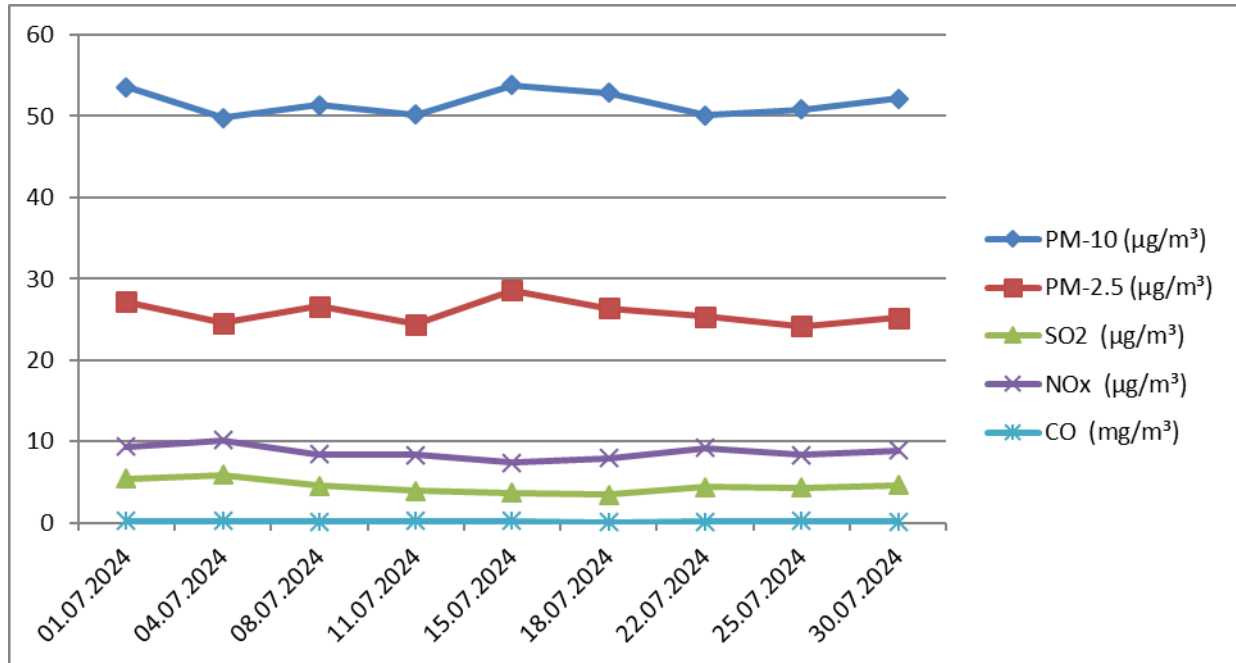
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Report no.-CEMC/TSSEZL/030824/A2

Issued Date-03.08.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

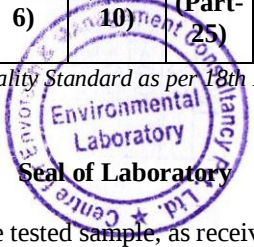
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher Area
Weather Conditions	Cloudy
Reference No.	CEMC-03082024A2
Instrument Used	Respirable Dust Sampler, Fine 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)
01.07.2024	55.6	28.4	6.41	10.32	0.31	--	--	--	--	--	--	--
04.07.2024	57.4	29.8	8.88	12.12	0.27	--	--	--	--	--	--	--
08.07.2024	53.2	26.2	6.14	10.32	0.31	--	--	--	--	--	--	--
11.07.2024	54.4	27.8	7.34	10.43	0.24	--	--	--	--	--	--	--
15.07.2024	55.6	28.6	7.62	9.92	0.32	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.07.2024	56.2	29.4	7.12	9.73	0.29	--	--	--	--	--	--	--
22.07.2024	53.6	26	6.76	11.62	0.31	--	--	--	--	--	--	--
25.07.2024	52.2	27.2	9.82	11.34	0.41	--	--	--	--	--	--	--
30.07.2024	54.8	26.5	7.92	11.32	0.26	--	--	--	--	--	--	--
Avg	54.78	27.77	7.56	10.79	0.30	--	--	--	--	--	--	--
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.


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Seal of Laboratory

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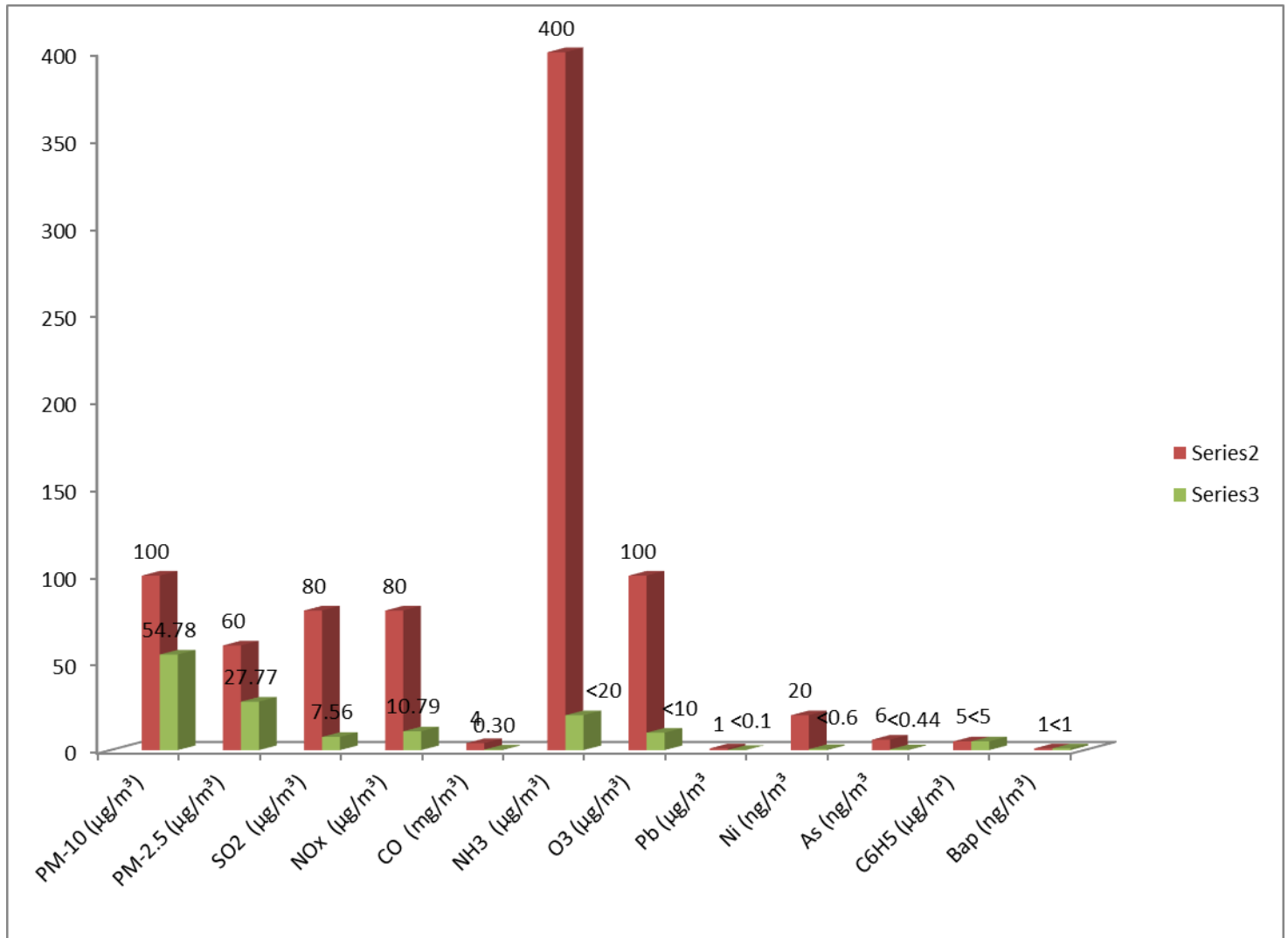
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This Graph is belongs to Station-02(Near Crusher Area) For the Month of July-24

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

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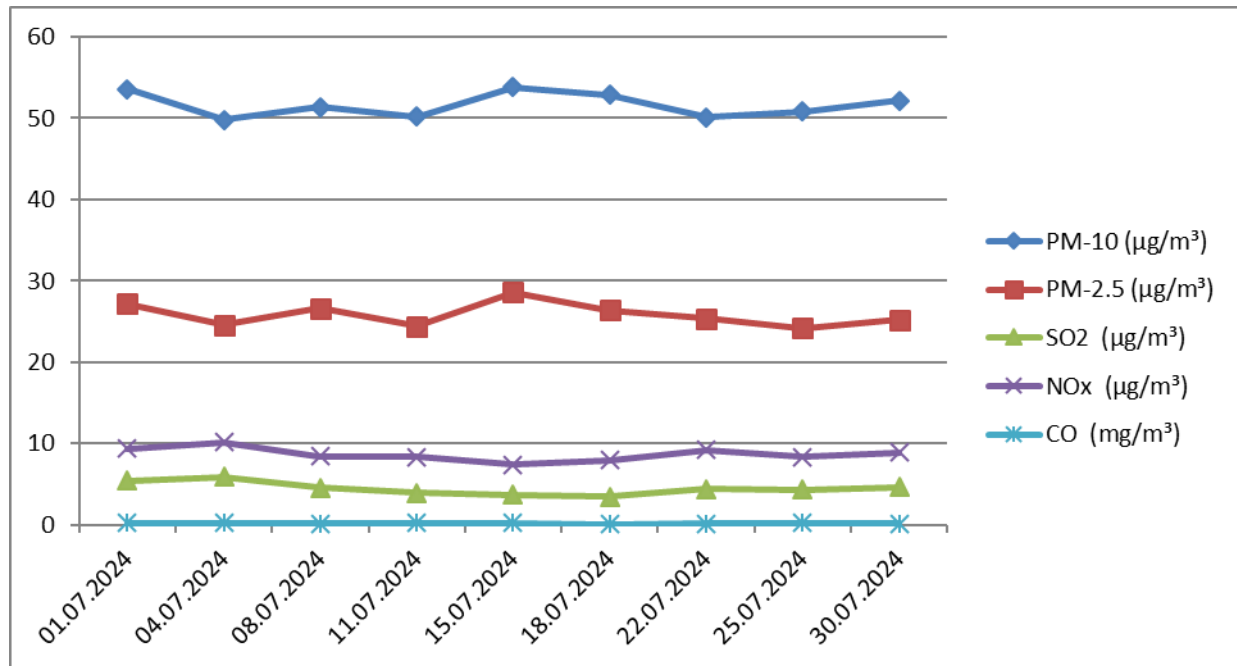
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Report no.-CEMC/TSSEZL/030824/A3

Issued Date-03.08.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Cloudy
Reference No.	CEMC-03082024A3
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)
01.07.2024	56.5	28.5	7.25	11.34	0.29	--	--	--	--	--	--	--
04.07.2024	51.7	26.5	6.82	10.34	0.26	--	--	--	--	--	--	--
08.07.2024	53.1	27.2	7.62	12.22	0.2	--	--	--	--	--	--	--
11.07.2024	50.3	25.8	7.38	11.62	0.31	--	--	--	--	--	--	--
15.07.2024	54.8	27.6	6.65	10.56	0.29	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.07.2024	55.4	28.2	6.73	9.86	0.14	--	--	--	--	--	--	--
22.07.2024	52.6	25.7	6.49	10.65	0.25	--	--	--	--	--	--	--
25.07.2024	53.7	26.5	7.25	10.32	0.27	--	--	--	--	--	--	--
30.07.2024	55.9	27.6	6.24	9.36	0.16	--	--	--	--	--	--	--
Avg	53.78	27.07	6.94	10.70	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


Authorized Signatory

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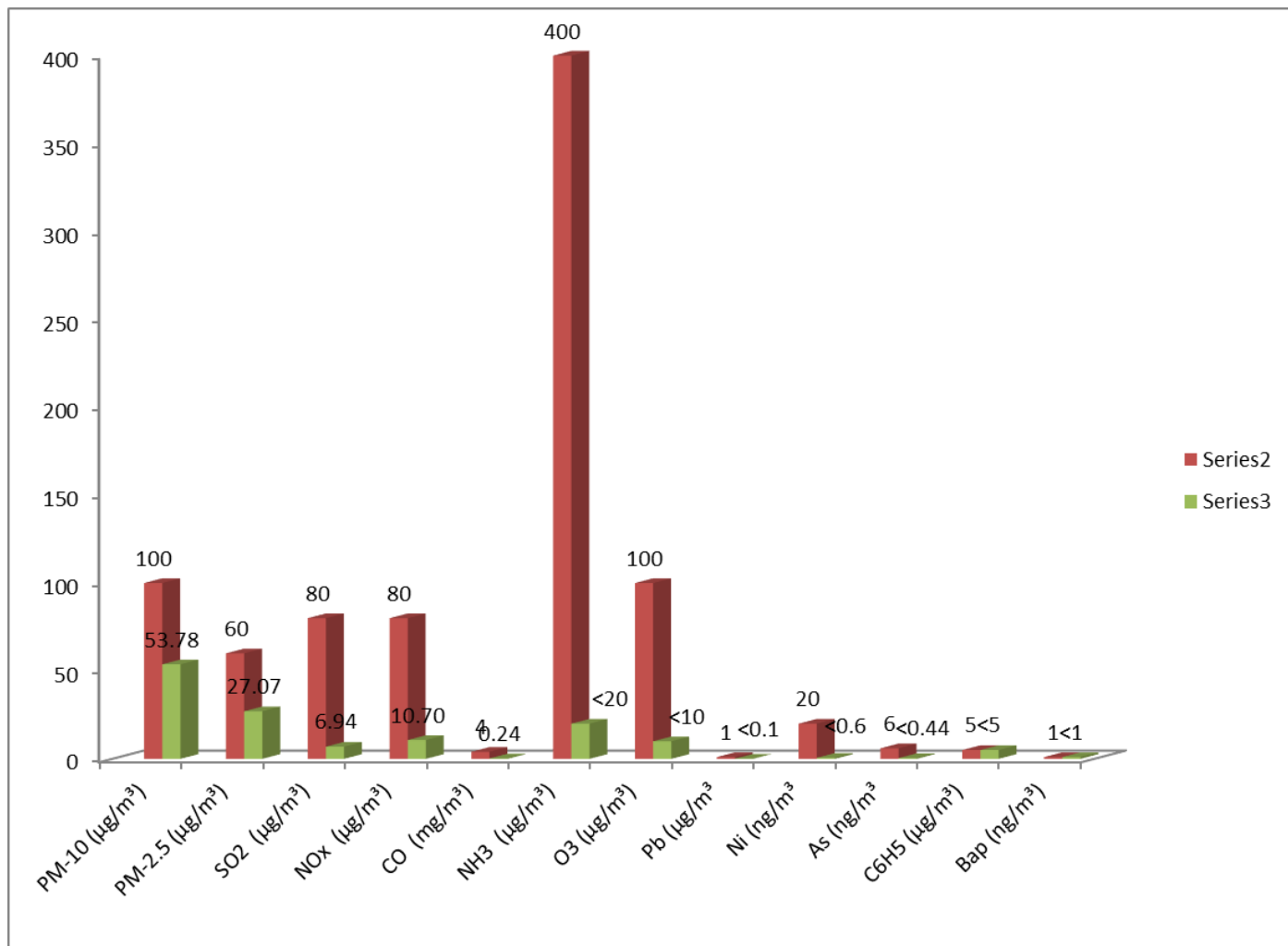
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of July-24

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

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

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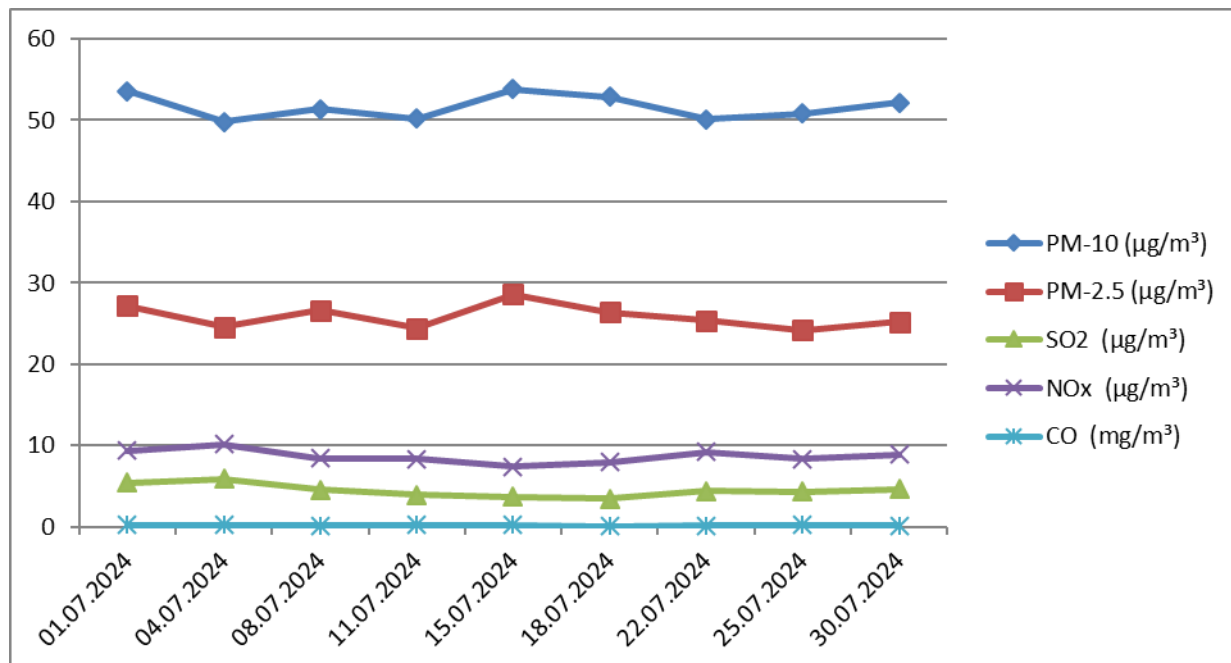
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Report no.-CEMC/TSSEZL/030824/A

Issued Date-03.08.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-03082024A
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office Gate	15.07.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Crusher Area	15.07.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	15.07.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
NAAQ* Standard		400	100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-25)	IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

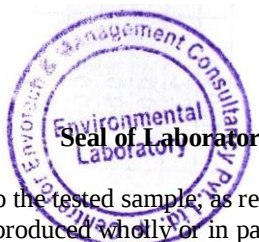
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

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Report No. - CEMC/ TSSEZL /030824/N

Issued Date-03.08.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03082024N
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.
27.07.2024	Near Crusher Area	62.3	58.5	60.4	56.4	52.4	54.4
27.07.2024	Near Main Gate(Chamakhandi)	67.7	63.1	65.4	59.4	55.6	57.5

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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Report no.-CEMC/TSSEZL/030824/W1

Issued Date-03.08.2024

SURFACE WATER QUALITY TEST REPORT

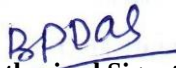
Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 27.07.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.07.2024
Date of Analysis : 29.07.2024 to 02.08.2024
Sample Location : Khari Nalla, Up stream (SW1)
Reference No. : CEMC-03082024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	95
2	pH Value @ 25°C	--	6.5 to 8.5	7.58
3	Turbidity	NTU	--	15
4	Total Suspended Solids	mg/l	--	7.2
5	Iron as Fe, Max.	mg/l	50	0.95
6	Chloride as Cl, Max.	mg/l	600	31.3
7	Dissolved Solids, Max.	mg/l	1500	261.4
8	Dissolved Oxygen, Min.	mg/l	4	6.8
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	27.5
13	Nitrate as NO ₃ , Max.	mg/l	50	18.1
14	Fluoride as F, Max.	mg/l	1.5	<0.05
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	1600
25	Faecal Coliform	MPN/100ml	--	900

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

END OF REPORT


Authorized Signatory

Seal of Laboratory

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Report no.-CEMC/TSSEZL/030824/W2

Issued Date-03.08.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 27.07.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.07.2024
Date of Analysis : 29.07.2024 to 02.08.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream (SW2)
Reference No. : CEMC-03082024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	75
2	pH Value @ 25°C	--	6.5 to 8.5	7.41
3	Turbidity	NTU	--	20
4	Total Suspended Solids	mg/l	--	10.6
5	Iron as Fe, Max.	mg/l	50	0.89
6	Chloride as Cl, Max.	mg/l	600	17.37
7	Dissolved Solids, Max.	mg/l	1500	217.8
8	Dissolved Oxygen, Min.	mg/l	4	6.7
9	BOD for 3 days@ 27° C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	29.2
13	Nitrate as NO ₃ , Max.	mg/l	50	34.4
14	Fluoride as F, Max.	mg/l	1.5	<0.05
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	900
25	Faecal Coliform	MPN/100ml	--	500

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

END OF REPORT

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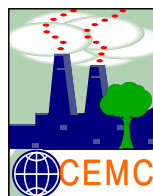
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Report no.-CEMC/TSSEZL/030924/A1

Issued Date-03.09.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office gate
Weather Conditions	Clear
Reference No.	CEMC-03092024A1
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)	NOx (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)
01.08.2024	57.2	28.2	7.42	11.14	0.3	--	--	--	--	--	--	--
05.08.2024	55.6	27.6	7.66	11.72	0.27	--	--	--	--	--	--	--
08.08.2024	46.1	22.5	6.48	10.15	0.25	--	--	--	--	--	--	--
12.08.2024	44.9	21.3	5.84	10.04	0.29	--	--	--	--	--	--	--
15.08.2024	48.5	23.5	5.62	9.08	0.17	<20	<10	<0.05	<3.2	<0.1	<5	<1
20.08.2024	47.1	21.3	5.32	9.66	0.19	--	--	--	--	--	--	--
22.08.2024	45.5	20.3	6.28	10.94	0.14	--	--	--	--	--	--	--
26.08.2024	44.5	19.1	6.22	10.04	0.1	--	--	--	--	--	--	--
29.08.2024	47.9	23.1	6.56	10.62	0.05	--	--	--	--	--	--	--
Avg	48.59	22.99	6.38	10.38	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


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Seal of Laboratory

Notes:

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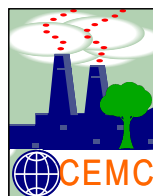
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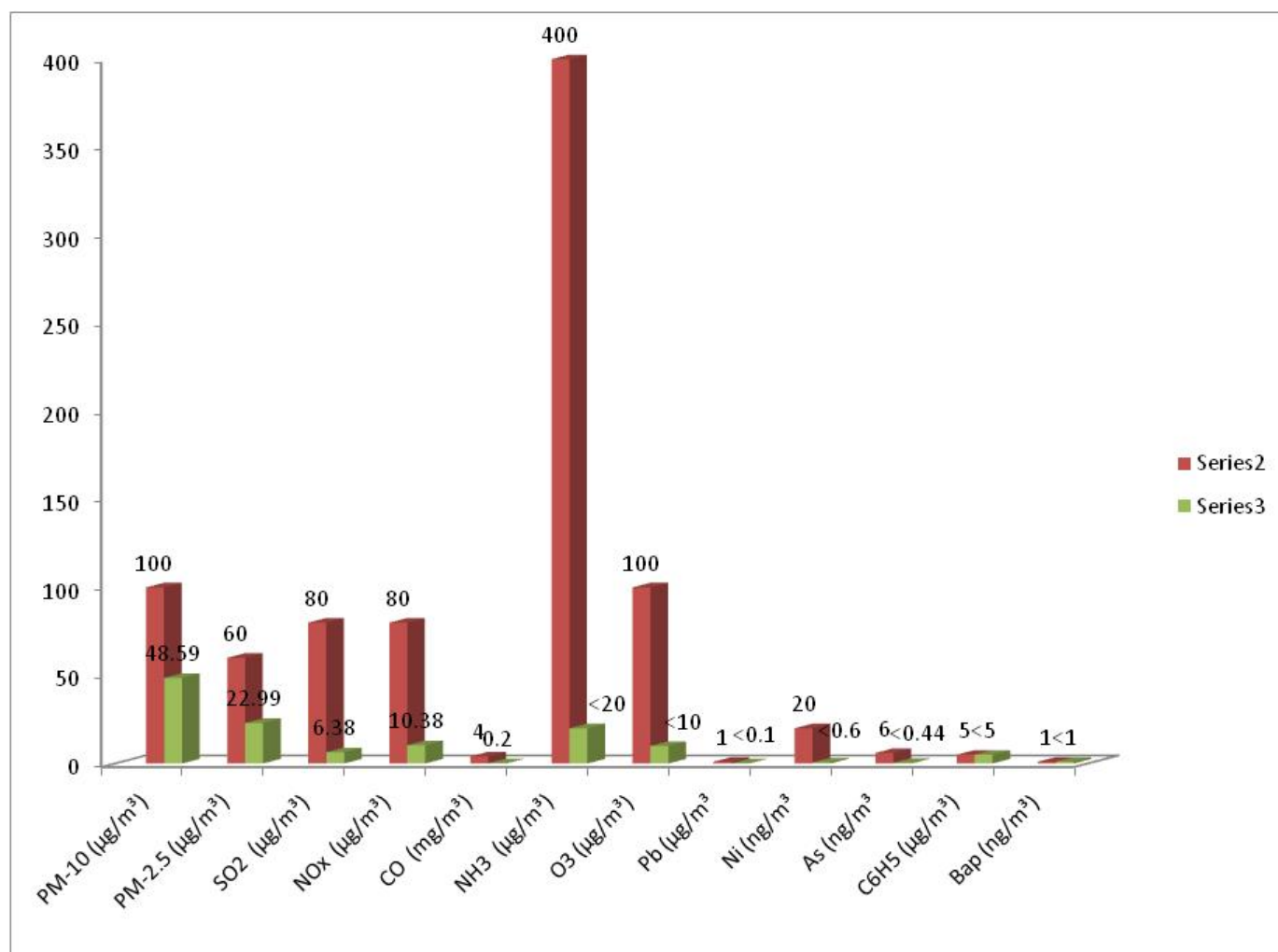
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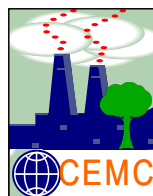
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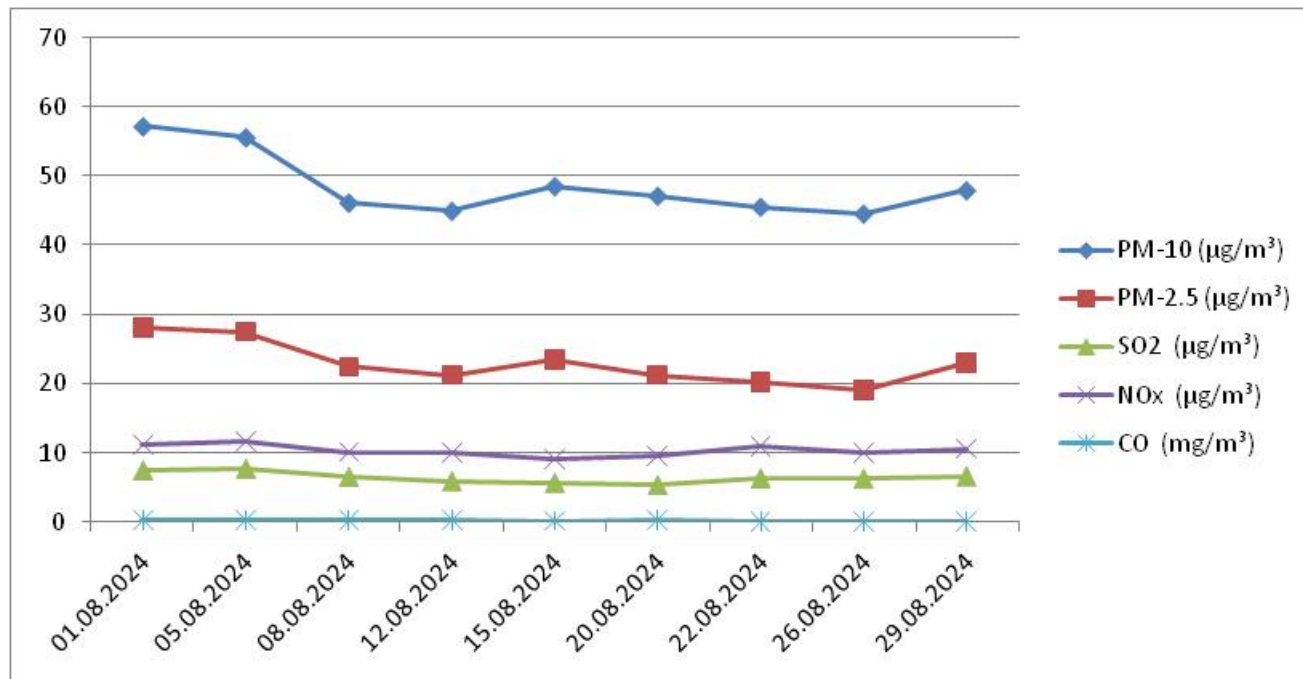
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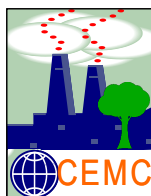
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Report no.-CEMC/TSSEZL/030924/A2

Issued Date-03.09.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-03092024A2
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)
01.08.2024	59.4	28.4	6.21	10.02	0.4	--	--	--	--	--	--	--
05.08.2024	61	29.6	5.88	8.82	0.36	--	--	--	--	--	--	--
08.08.2024	54.9	27.1	7.04	11.02	0.3	--	--	--	--	--	--	--
12.08.2024	49.1	23.7	8.24	12.13	0.23							
15.08.2024	50.3	25.5	8.52	11.62	0.21	<20	<10	<0.05	<3.2	<0.1	<5	<1
20.08.2024	50.9	25.3	9.02	12.43	0.18	--	--	--	--	--	--	--
22.08.2024	48.3	23.1	8.66	12.32	0.2	--	--	--	--	--	--	--
26.08.2024	54.9	26.1	7.72	11.04	0.1	--	--	--	--	--	--	--
29.08.2024	49.5	23.4	9.82	13.36	0.15	--	--	--	--	--	--	--
Avg	53.14	25.80	7.90	11.42	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

B.P. Das

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Seal of Laboratory

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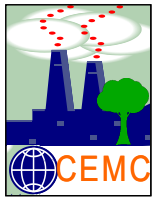
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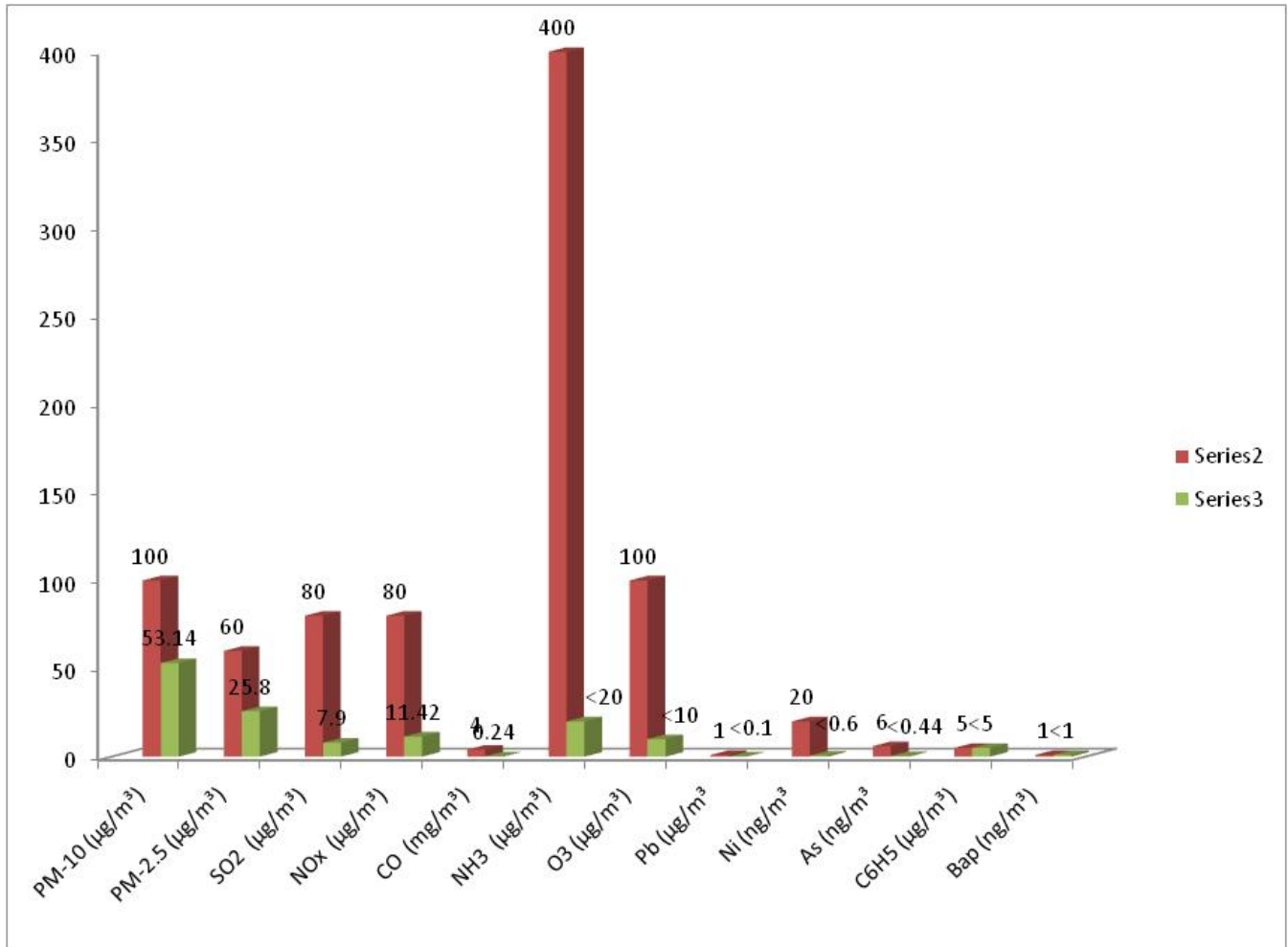
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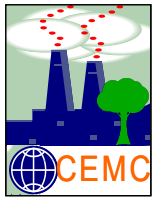
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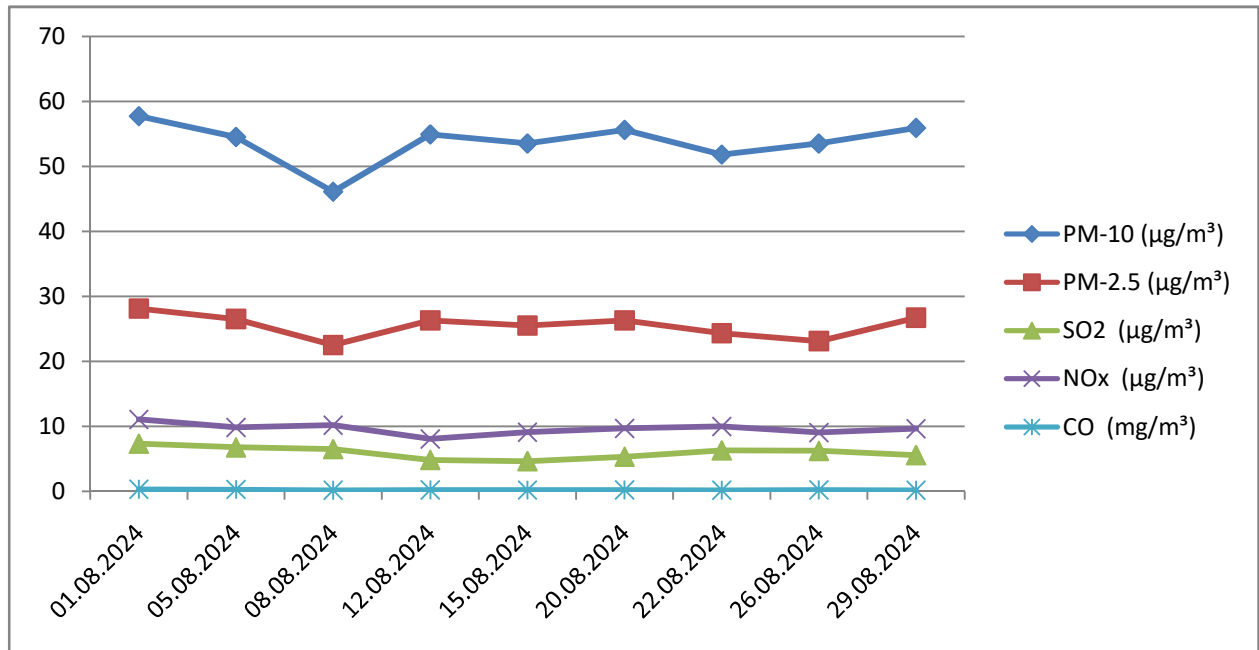
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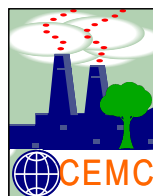
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Report no.-CEMC/TSSEZL/030924/A3

Issued Date-03.09.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-03092024A3
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)
01.08.2024	57.7	28.1	7.32	11.04	0.3	--	--	--	--	--	--	--
05.08.2024	54.5	26.5	6.76	9.82	0.27	--	--	--	--	--	--	--
08.08.2024	46.1	22.5	6.48	10.15	0.15	--	--	--	--	--	--	--
12.08.2024	54.9	26.3	4.84	8.04	0.19	--	--	--	--	--	--	--
15.08.2024	53.5	25.5	4.62	9.08	0.17	--	--	--	--	--	--	--
20.08.2024	55.6	26.3	5.32	9.66	0.19	<20	<10	<0.05	<3.2	<0.1	<5	<1
22.08.2024	51.8	24.3	6.28	9.94	0.14	--	--	--	--	--	--	--
26.08.2024	53.5	23.1	6.22	9.04	0.2	--	--	--	--	--	--	--
29.08.2024	55.9	26.7	5.56	9.62	0.15	--	--	--	--	--	--	--
Avg	53.72	25.48	5.93	9.60	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


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Seal of Laboratory

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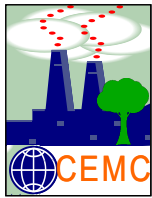
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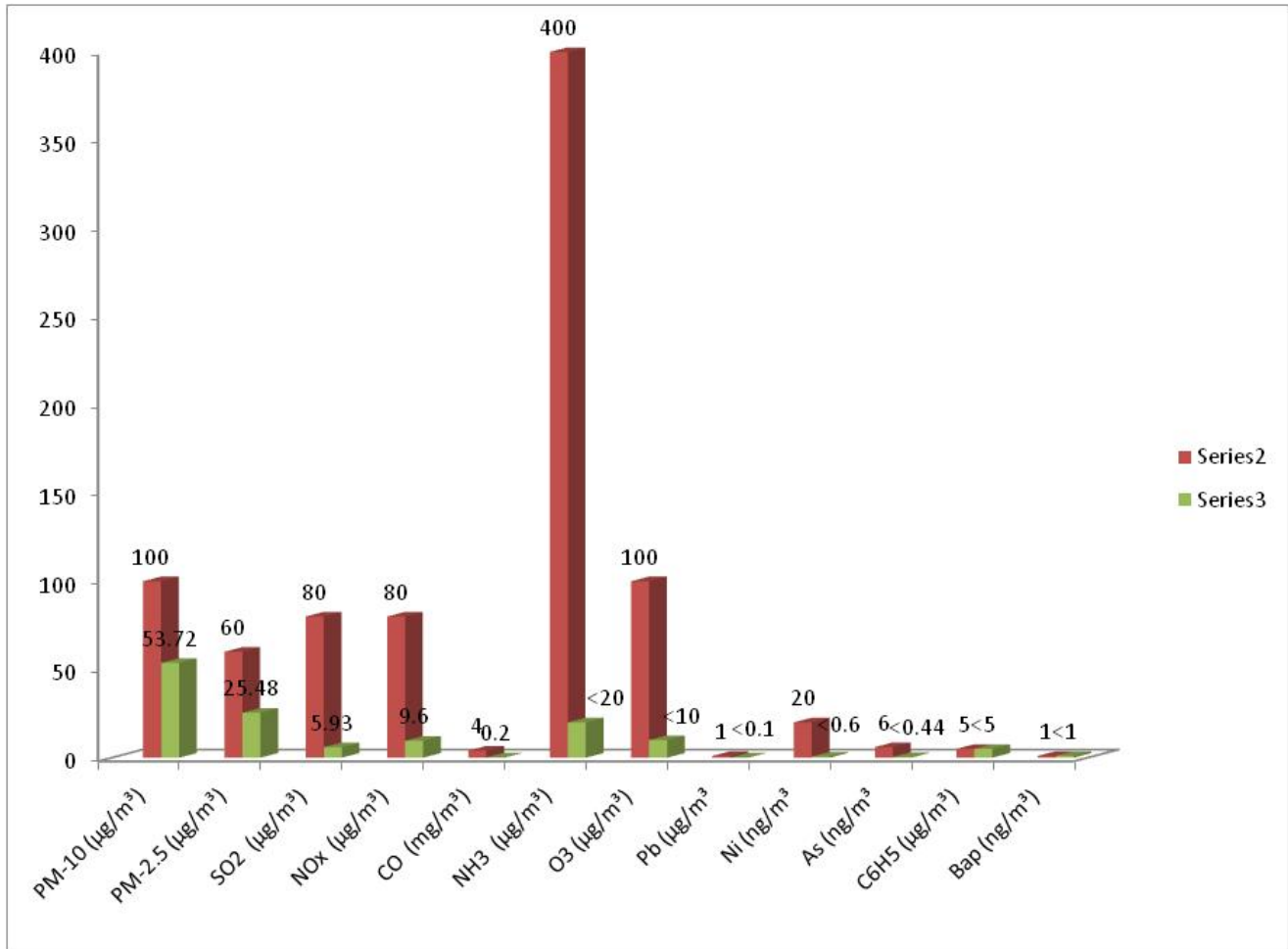
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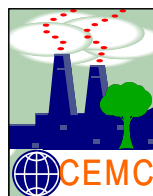
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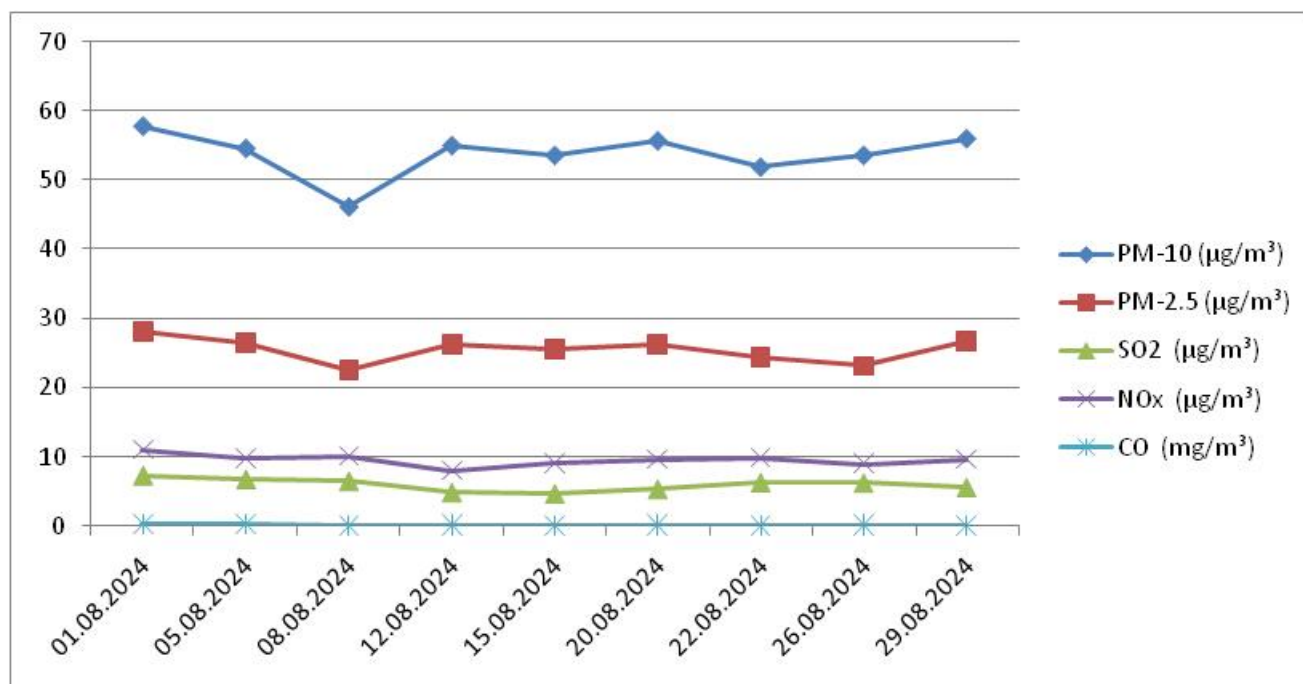
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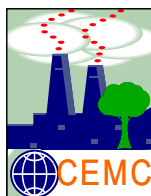
This Graph is belongs to Station-03(Near Main Gate (Chamakhandi)) For the Month of August-24

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Report no.-CEMC/TSSEZL/030924/A4

Issued Date-03.09.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-03092024A4
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	15.08.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Crusher Office	15.08.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	15.08.2024	<20	<10	<0.1	<0.6	<0.44	<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

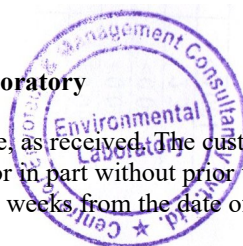
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Seal of Laboratory



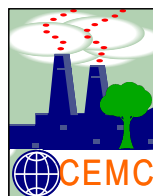
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Report no.-CEMC/TSSEZL/030924/W1

Issued Date-03.09.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.08.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.08.2024
Date of Analysis : 13.08.2024 to 19.08.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-03092024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	45
2	pH Value @ 25°C	--	6.5 to 8.5	7.19
3	Turbidity	NTU	--	84.2
4	Total Suspended Solids	mg/l	--	47
5	Iron as Fe, Max.	mg/l	50	0.15
6	Chloride as Cl, Max.	mg/l	600	36.9
7	Dissolved Solids, Max.	mg/l	1500	191
8	Dissolved Oxygen, Min.	mg/l	4	5.8
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	24
13	Nitrate as NO ₃ , Max.	mg/l	50	2.2
14	Fluoride as F, Max.	mg/l	1.5	0.16
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	177
25	Faecal Coliform	MPN/100ml	--	21

, MPN-Most Probable Number

END OF REPORT


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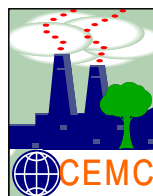
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Report no.-CEMC/TSSEZL/030924/W2

Issued Date-03.09.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.08.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.08.2024
Date of Analysis : 13.08.2024 to 19.08.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-03092024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	75
2	pH Value @ 25°C	--	6.5 to 8.5	7.72
3	Turbidity	NTU	--	73.8
4	Total Suspended Solids	mg/l	--	40
5	Iron as Fe, Max.	mg/l	50	0.36
6	Chloride as Cl, Max.	mg/l	600	45.9
7	Dissolved Solids, Max.	mg/l	1500	180
8	Dissolved Oxygen, Min.	mg/l	4	5.6
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	31.8
13	Nitrate as NO ₃ , Max.	mg/l	50	2.2
14	Fluoride as F, Max.	mg/l	1.5	0.18
15	Anionic detergent	mg/l	1	ND
16	Cadmium as Cd, Max.	mg/l	0.01	<0.003
17	Selenium as Se, Max.	mg/l	0.05	<0.001
18	Arsenic as As, Max.	mg/l	0.2	<0.001
19	Cyanide as CN, Max.	mg/l	0.05	ND
20	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	0.005	ND
21	Lead as Pb, Max.	mg/l	0.1	<0.01
22	Zinc as Zn, Max.	mg/l	15	<0.05
23	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	0.05	<0.05
24	Total Coliform, Max.	MPN/100ml	5000	342
25	Faecal Coliform	MPN/100ml	--	20

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

END OF REPORT

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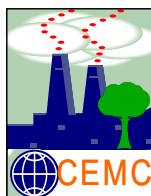
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Report No. - CEMC/ TSSEZL /030924/N

Issued Date-03.09.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03092024N
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.
20.08.2024	Near Project office	65.4	59.6	62.5	58.8	53.2	56.0
20.08.2024	Near main gate(Chamakhandi)	67.9	64.3	66.1	61.5	57.1	59.3

End of Report

NATIONAL STANDARD NOISE LEVEL

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

ppdas
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Notes:

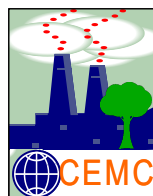
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Report no.-CEMC/TSSEZL/031024/A1

Issued Date-03.10.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near TSSEZL Project Office gate
Weather Conditions	Clear
Reference No.	CEMC-03102024A1
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)	NOx (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)
02.09.2024	59.5	30.7	8.09	12.07	0.41	--	--	--	--	--	--	--
05.09.2024	57.9	30.1	8.33	12.65	0.38	--	--	--	--	--	--	--
10.09.2024	48.4	25	7.15	11.08	0.36	<20	<10	<0.05	<3.2	<0.1	<5	<1
12.09.2024	47.2	23.8	6.51	10.97	0.4	--	--	--	--	--	--	--
17.09.2024	50.8	26	6.29	10.01	0.28	--	--	--	--	--	--	--
19.09.2024	49.4	23.8	5.99	10.59	0.3	--	--	--	--	--	--	--
23.09.2024	47.8	22.8	6.95	11.87	0.25	--	--	--	--	--	--	--
26.09.2024	46.8	21.6	6.89	10.97	0.21	--	--	--	--	--	--	--
Avg	50.98	25.48	7.03	11.28	0.32	--	--	--	--	--	--	--
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.

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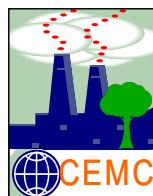
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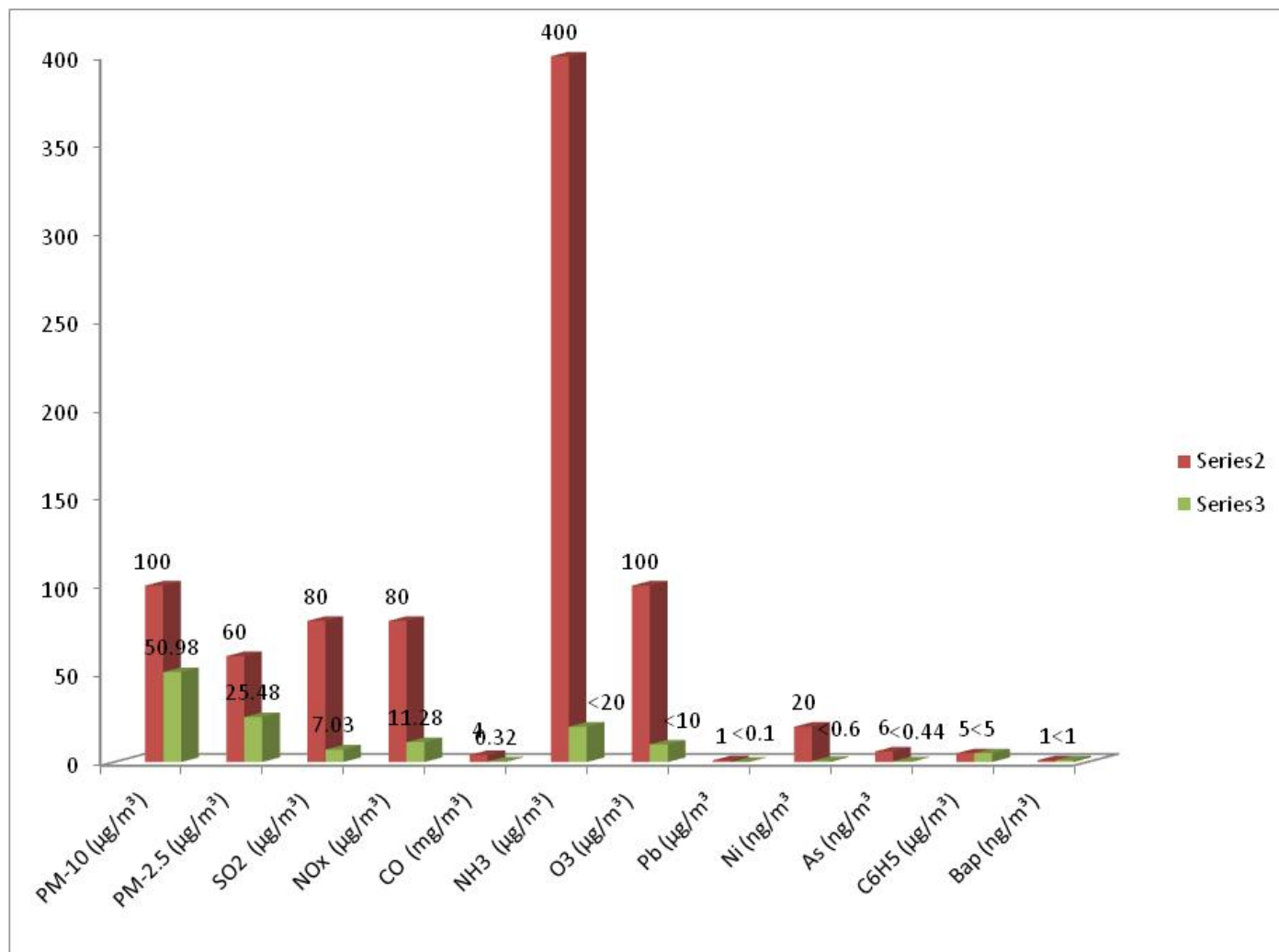
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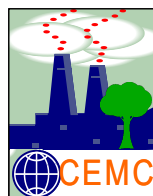
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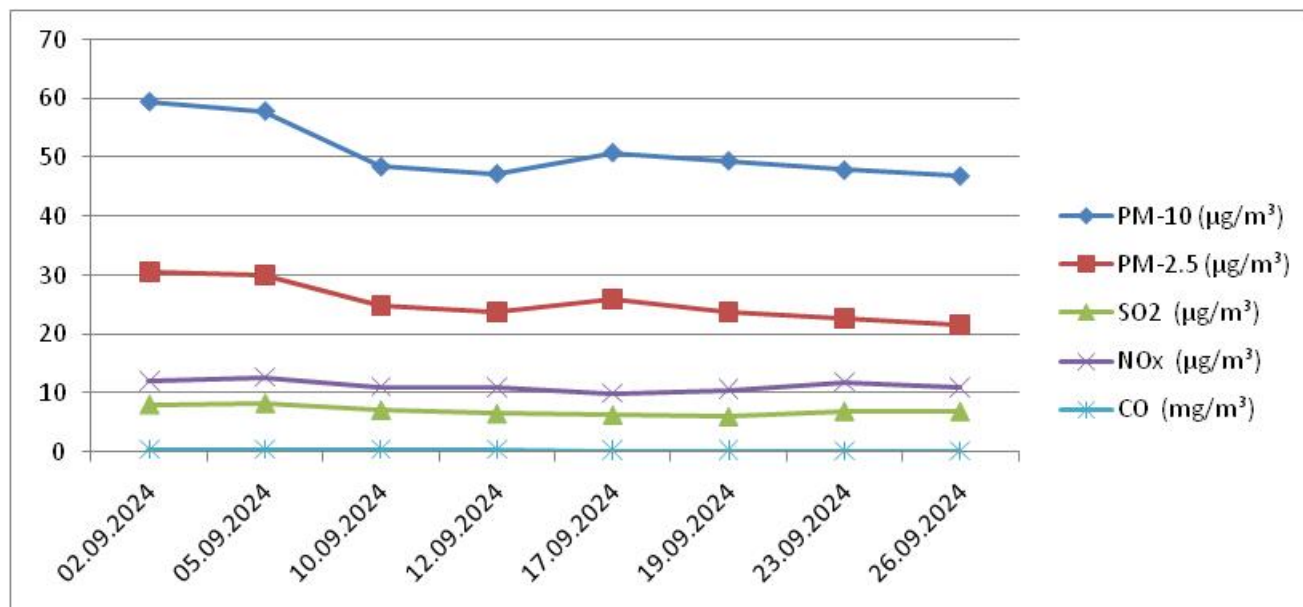
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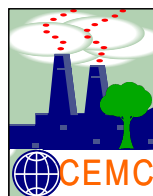
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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
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Report no.-CEMC/TSSEZL/031024/A2

Issued Date-03.10.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Crusher
Weather Conditions	Clear
Reference No.	CEMC-03102024A2
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)
02.09.2024	61.7	30.9	6.88	10.95	0.51	--	--	--	--	--	--	--
05.09.2024	63.3	32.1	6.55	9.75	0.47	--	--	--	--	--	--	--
10.09.2024	57.2	29.6	7.71	11.95	0.41	<20	<10	<0.05	<3.2	<0.1	<5	<1
12.09.2024	51.4	26.2	8.91	13.06	0.34	--	--	--	--	--	--	--
17.09.2024	52.6	28	9.19	12.55	0.32	--	--	--	--	--	--	--
19.09.2024	53.2	27.8	9.69	13.36	0.29	--	--	--	--	--	--	--
23.09.2024	50.6	25.6	9.33	13.25	0.31	--	--	--	--	--	--	--
26.09.2024	57.2	28.6	8.39	11.97	0.21	--	--	--	--	--	--	--
Avg	55.90	28.60	8.33	12.11	0.36	--	--	--	--	--	--	--
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

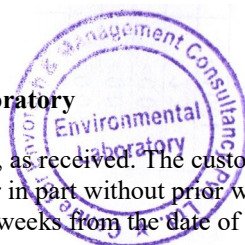
BPDas

Authorized Signatory

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Seal of Laboratory



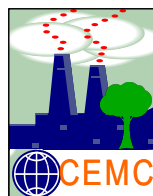
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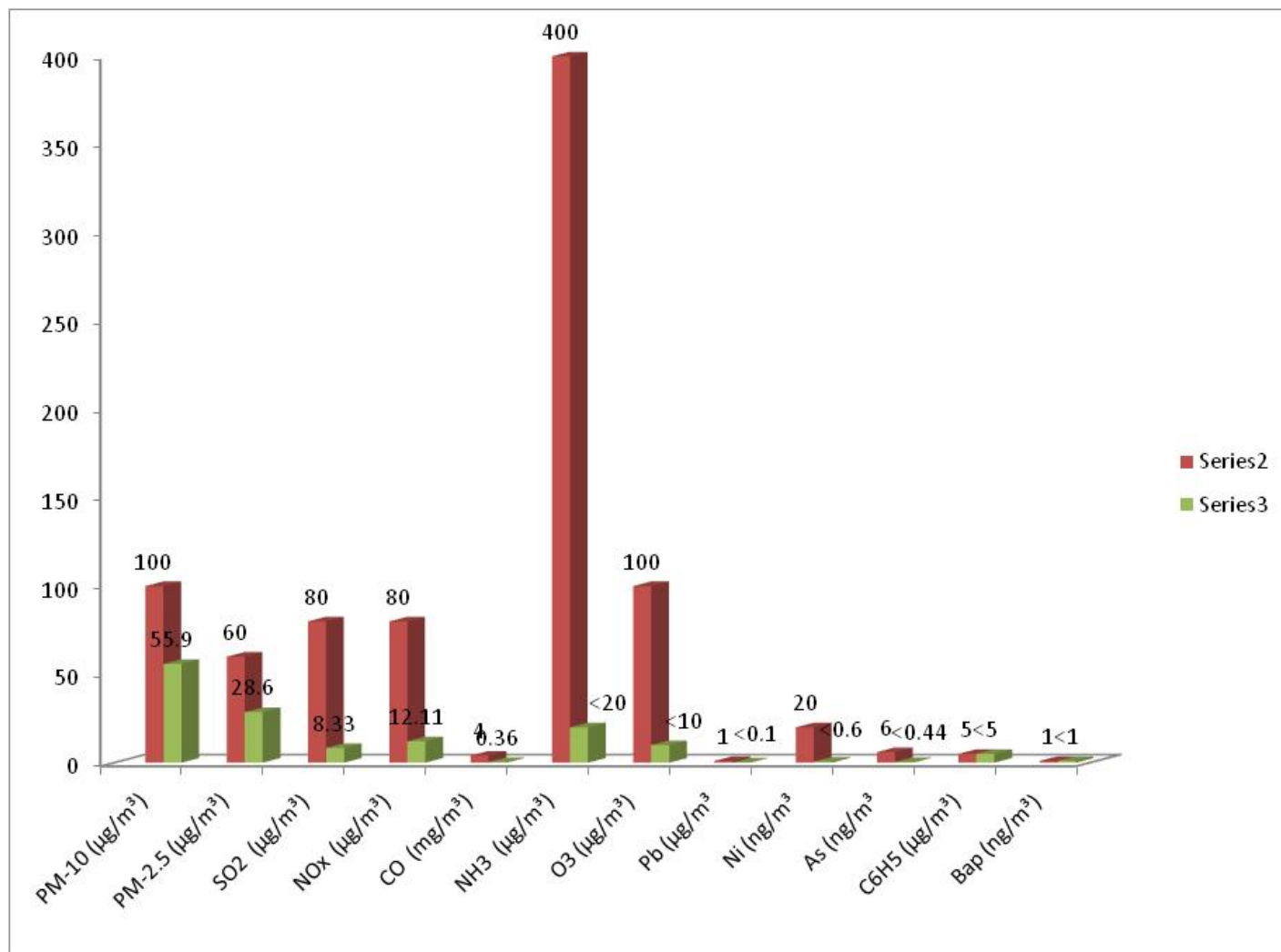
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This Graph is belongs to Station-02(Near Crusher Office) For the Month of September-24

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

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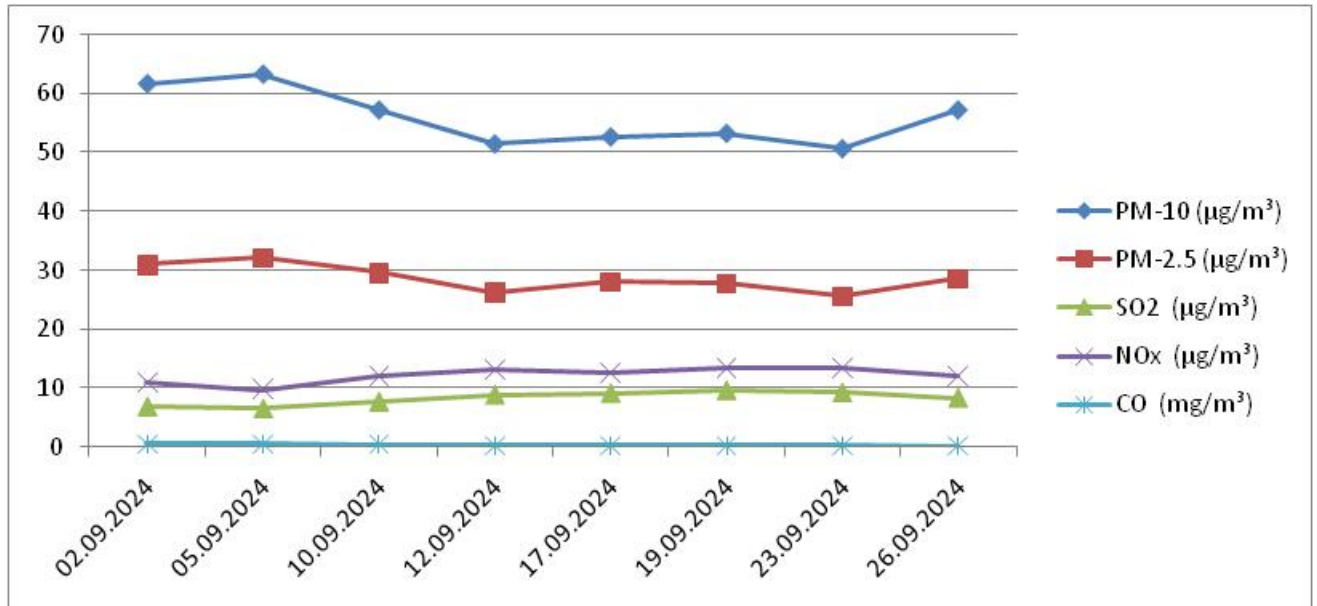
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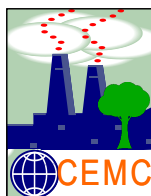
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Report no.-CEMC/TSSEZL/031024/A3

Issued Date-03.10.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-03102024A3
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)
02.09.2024	60.0	30.6	7.99	11.97	0.41	--	--	--	--	--	--	--
05.09.2024	56.8	29	7.43	10.75	0.38	--	--	--	--	--	--	--
10.09.2024	48.4	25	7.15	11.08	0.26	<20	<10	<0.05	<3.2	<0.1	<5	<1
12.09.2024	57.2	28.8	5.51	8.97	0.3	--	--	--	--	--	--	--
17.09.2024	55.8	28	5.29	10.01	0.28	--	--	--	--	--	--	--
19.09.2024	57.9	28.8	5.99	10.59	0.3	--	--	--	--	--	--	--
23.09.2024	54.1	26.8	6.95	10.87	0.25	--	--	--	--	--	--	--
26.09.2024	55.8	25.6	6.89	9.97	0.31	--	--	--	--	--	--	--
Avg	55.75	27.83	6.65	10.53	0.31	--	--	--	--	--	--	--
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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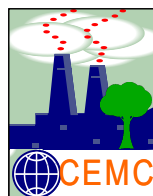
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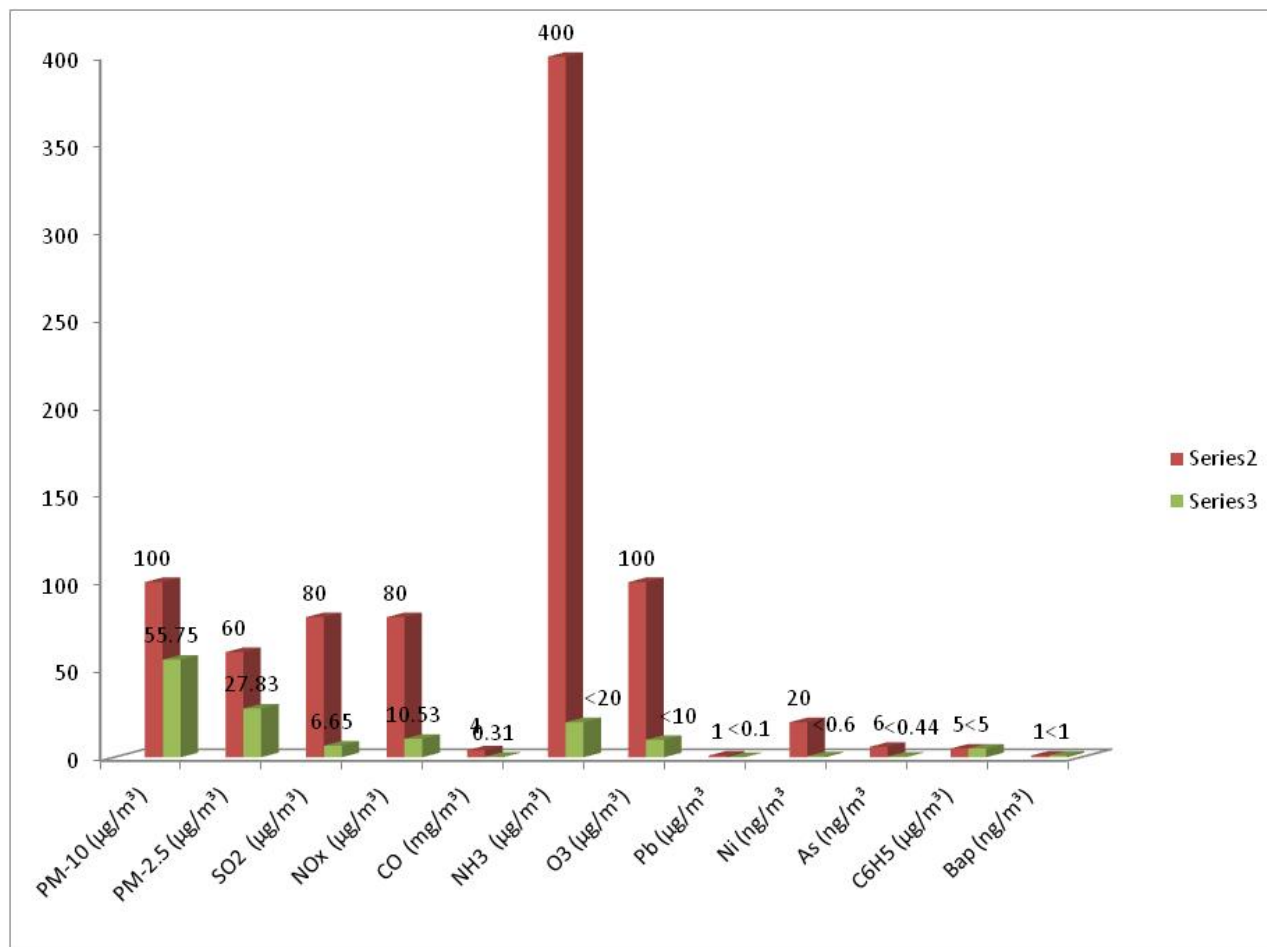
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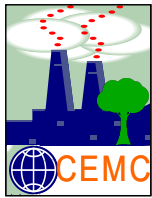
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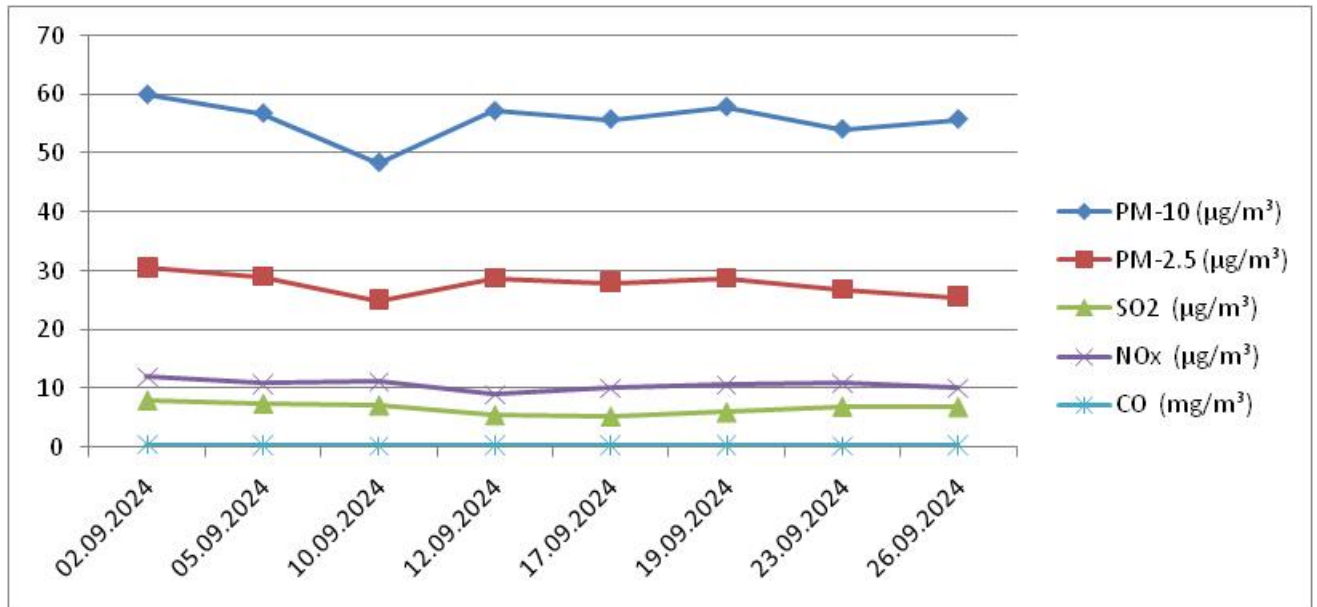
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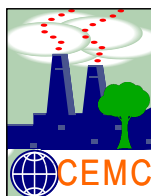
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Report no.-CEMC/TSSEZL/031024/A4

Issued Date-03.10.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-03102024A4
Instrument Used	Respirable Dust Sampler,

ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	10.09.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Crusher Office	10.09.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	10.09.2024	<20	<10	<0.1	<0.6	<0.44	<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

Notes:

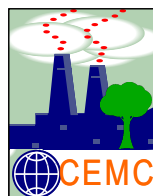
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Report no.-CEMC/TSSEZL/031024/W1

Issued Date-03.10.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.09.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.09.2024
Date of Analysis : 13.09.2024 to 19.09.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-03102024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	40
2	pH Value @ 25°C	--	6.5 to 8.5	7.68
3	Turbidity	NTU	--	56.3
4	Total Suspended Solids	mg/l	--	63.8
5	Iron as Fe, Max.	mg/l	50	2.77
6	Chloride as Cl, Max.	mg/l	600	17.4
7	Dissolved Solids, Max.	mg/l	1500	280
8	Dissolved Oxygen, Min.	mg/l	4	5.8
9	BOD for 3 days@ 27°C, Max.	mg/l	3	<2.0
10	Oil & Grease, Max.	mg/l	0.1	ND
11	Copper as Cu, Max.	mg/l	1.5	<0.03
12	Sulphate as SO ₄ , Max.	mg/l	400	16.0
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	141
25	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

END OF REPORT

R.P.Das
Authorized Signatory

Seal of Laboratory

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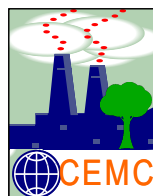
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Report no.-CEMC/TSSEZL/031024/W2

Issued Date-03.10.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 13.09.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 13.09.2024
Date of Analysis : 13.09.2024 to 19.09.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-03102024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	50
2	pH Value @ 25°C	--	6.5 to 8.5	7.69
3	Turbidity	NTU	--	45.8
4	Total Suspended Solids	mg/l	--	28.6
5	Iron as Fe, Max.	mg/l	50	0.75
6	Chloride as Cl, Max.	mg/l	600	20.84
7	Dissolved Solids, Max.	mg/l	1500	288
8	Dissolved Oxygen, Min.	mg/l	4	6.1
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	6.85
13	Nitrate as NO ₃ , Max.	mg/l	50	6.57
14	Fluoride as F, Max.	mg/l	1.5	0.38
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	--	37

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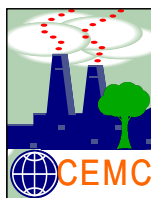
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842

E-mail: cemclab@yahoo.in



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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986 & NABL Accredited Laboratory

Report No. - CEMC/ TSSEZL /031024/N

Issued Date-03.10.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03102024N
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.
13.09.2024	Near Project office	64.6	60.2	62.4	58.3	53.9	56.1
13.09.2024	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

ppdas
Authorized Signatory

Seal of Laboratory

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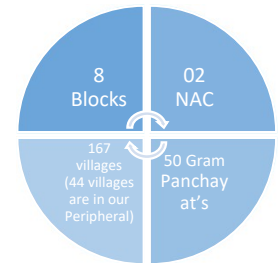
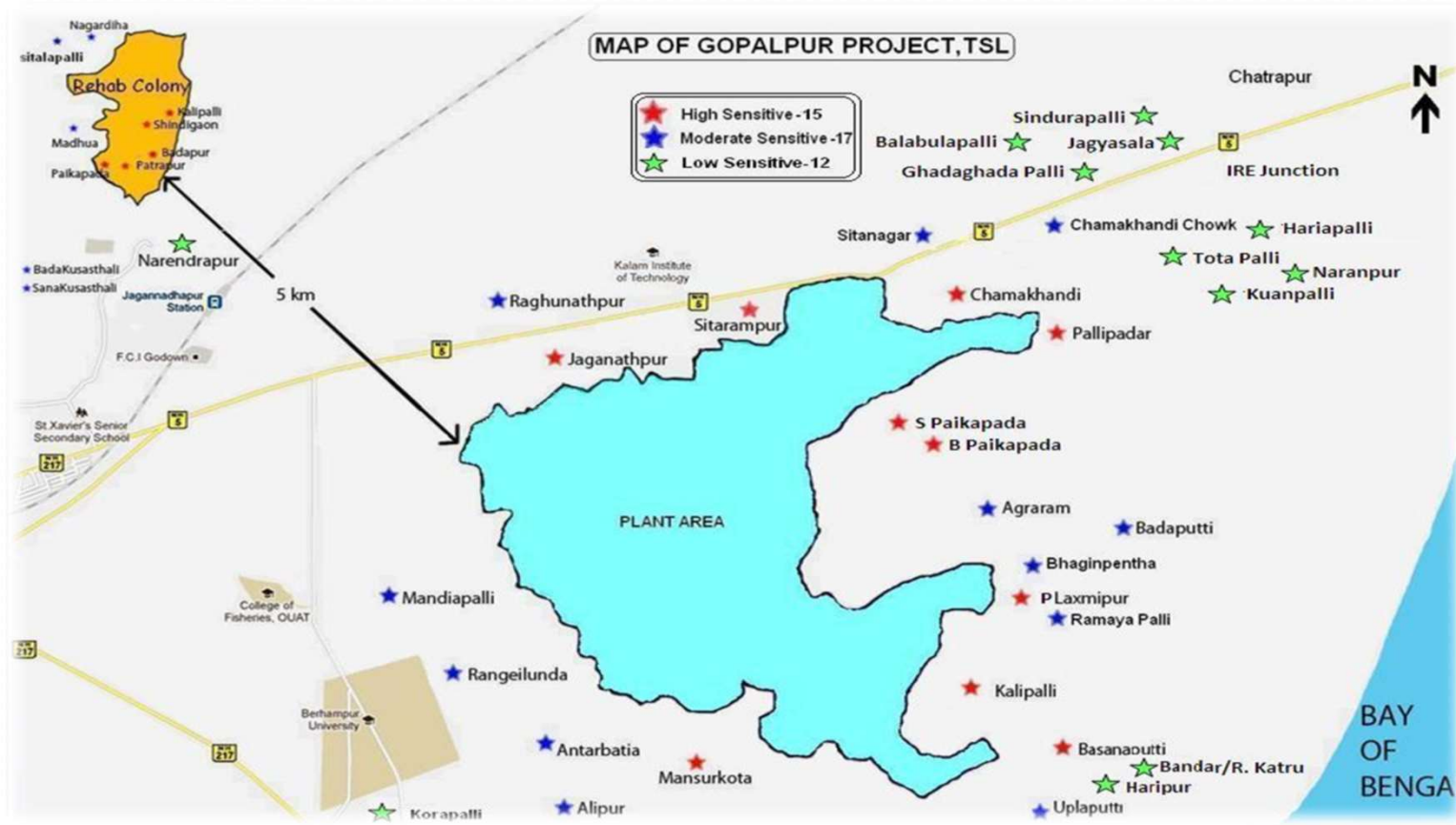
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Sum of Amount in Cr.	Thematic Area	FY25
Thematic		Apr-24 to Sep-24
Enterprise Cost	Administrative, IT, Safety, Communications, etc.	0.13
Enterprise Cost Total		0.13
Proximate community Development	Drinking water	0.09
	Education Support through Scholarships	0
	Livelihood (Agri., Skill Dev., & Emp.)	0.77
	Other Educational Programmes and Infrastructure	0.33
	Primary Healthcare Services	1.25
	Renewable energy, Bio-diversity Programmes & Other Rural Infra.	0.31
Proximate community Development Total		2.74
Total		2.87

CSR Initiatives through TSF



- Public Health
- Water & Civil Infra
- Education
- Livelihood (Agriculture & Allied)
- Gender & Community Enterprise
- Skill Development
- Sports
- Environment

TATA STEEL SPECIAL ECONOMIC ZONE

CSR Initiatives



Livelihood - Agriculture

TSF has been the driving force in Gopalpur area for community development through income generation activities covering farm, off-farm and enterprise based interventions with 20,000 HH.

- SRI & Dryland agriculture
- Promotion of 2nd crops
- Dairy Development
- Commercial Fish Farming
- Kewda Distillation Plant
- Farm Mechanisation
- Poly house rose cultivation



Other CSR Initiatives



Gender Community Enterprise:

This initiative fosters gender equality, women's empowerment, and inclusive community development by recognizing and harnessing the leadership potential of women so that they participate in decision-making processes at the community level. It focuses on providing training and support, with access to information and networks to enable women to actively participate in community development initiatives.

- DISHA module training
- We for change initiative
- Exposure visits of Entrepreneurs
- Financial support to Entrepreneurs
- Development of Artisans
- Marketing & capacity building



TATA STEEL SPECIAL ECONOMIC ZONE



Other CSR Initiatives



Public Health

Multi Specialized health camp

Multi- specialized health camp being organized with free check-ups and medications.

Mobile Public Health Unit

Mobile Public health unit is being run with three vans for door step services covering 44 nos of vilages of Rangeilunda & Chatrapur blocks . Also testing of blood with bcc session & collect patient role data through Epp collect app.

Drishti Project

Cataract surgery camps were organized and screened Cataract cases were diagnosed with the help of Sankara Eye Hospital total of 33 cases were screened for surgery done exclusively for Rangeilunda block.

VBD & NCD Program

Non-communicable diseases and vector bone diseases were identified. Door-to-door screening for blood pressure, blood sugar, oral cancer, and breast cancer being done.

Planned for anti-larval activity to destroy breeding sites.

RISHTA Project

Adolescence is a critical phase defined by rapid growth and transition. Hence through this program, we provide knowledge to adolescents on safe sexual health at the school level & and village level through sessions. (Rangailunda and Chhatrapur Block)

Poshan Project

151 villages being covered under the nutritional project of poshan pakhwada to raise awareness on the importance of nutrition and promote healthy eating habits.

TB Eradication Program

10 villages being covered under the scheme to provide nutritional food to TB patients to increasy immunity for speedy recovery.



Other CSR Initiatives



Education & Sports:

- 30 Primary Learning Centers (PLCs) are being run across 10 gram panchayats (GPs) with 1206 children.
- 544 students from 75 school/colleges have been awarded under Jyoti Fellowship Program.
- Supported in development of 5 Model Schools.
- 180 youths got trained through NIIT Foundation.



Other CSR Initiatives



Environment:

- Ganjam being on India's eastern coastline has a rich biodiversity. TSF has been working actively for conservation of flora and fauna unique to this region and enhancing resilient livelihood of the local community
- Key species targeted under Flora and Fauna conservation
 - Blackbuck
 - Olive Ridely Sea Turtle
 - Indian Peafowl
- Consultative meetings with community stakeholders.



Other CSR Initiatives



JNTTEC - Gopalpur



- **Introduction:**

JNTTEC (JN Tata Technical Education Centre) was founded in 2005 through a collaborative effort between Tata Steel and EduTech NTTF Pvt. Ltd..

- **Course Offered:** Diploma in Mechatronics Engineering & Smart Factory.

Duration: 3 years

- **Eligibility Criteria:** Class 10th, Class 12th, or ITI pass out students

- **Affiliation:** National Council for Vocational Education and Training (NCEVT).

- **Placement Opportunities:**

TATA Electronics, Schneider Electric, BIESSE, and Lohia Group, CEAT Tyres, Lenskart actively participate in the campus recruitment process.

The average salary package: INR 2.9 LPA. (Lakhs per Annum)

TATA STEEL SPECIAL ECONOMIC ZONE

Proposed Short Term Training Courses from FY 2024-25 at JNTTEC

Existing Partner shifting to JNTTEC:

No	PARTNERS	PROPOSED TRADES	DURATION	INTAKE
1	PRATHAM EDUCATION	Food and Beverage Service	45 Days	25
2		Food Production	60 Days	25
3		Multifunctional Office Associate	45 Days	25

Partners in the MoU signing stage:

No.	PARTNERS	PROPOSED TRADES	DURATION	INTAKE
1	TATA STRIVE	Food Production	3 months	20
2	LOGISTIC SSC	Forklift Operator	20 Days	25

Partners in the discussion stage:

No	PARTNERS	PROPOSED TRADES	DURATION	INTAKE
1	Innodust Techsolution	Green Hydrogen Plant Technician	2.5 Months	30