



Ref. No: TSSEZL/ ENV/MoEF/1322/2024

Dated: 8th April' 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 October'2023 – March' 2023 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

Saurabh Sugandh

Chief - Gopalpur Project & SEZ
TATA STEEL SPECIAL ECONOMIC ZONE LIMITED
Chief - (Projects)

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 & CRZ Clearance Conditions**

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

Period: October'2023 – March '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' 2023–September' 2023)	I
2	CSR Activities & expenditure details.	II

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

PART A-SPECIFIC CONDITIONS:

I. Construction Phase

Sl	Specific Condition	Compliance Status (October '2023 – March'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, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. CTE has been obtained from OSPCB for Phase I developmental activity on dated: 29.03.2019 and Amended CTE no 3779/IND-II-CTE-6254 ON 17.03.2023.

Signature
Gopalpur Project & SEZ
TATA STEEL SPECIAL ECONOMIC ZONE LIMITED.

Sl	Specific Condition	Compliance Status (October '2023 – March'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 wastes from the project site. 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 collected, treated to the prescribed standards,	Yes, the existing companies in the site are operating on a Zero Liquid Discharge (ZLD) Concept. Hence, recycling of waste has not been taken up by the TSSEZL as of now. However, TSSEZL has plans to set

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SI	Specific Condition	Compliance Status (October '2023 – March'2024)
	and then recycled or reused for the identified uses	up common facilities for waste treatment, recycle and disposal.
(xvi)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the concerned Regional Office of the Ministry along with six monthly monitoring reports.	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.	Compliance shall be ensured.
(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.


 Chief-Gopalpur Project & SEZ
 TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

SI	Specific Condition	Compliance Status (October '2023 – March'2024)
(xxv)	Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms	Being Complied.
(xxvi)	Any hazardous waste generated during development/ construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State.	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.

Signature

Chief-Gopalpur Project & SEZ
ATA STEEL SPECIAL ECONOMIC ZONE LIMITED.

SI	Specific Condition	Compliance Status (October '2023 – March'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 (October '2023 – March'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.
li	No use of ground water for proposed multi - product SEZ/industrial park.	Noted, Compliance shall be ensured.
lii	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).
lv	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.

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 Chief-Copulpur Project & SEZ
 TATA STEEL SPECIAL ECONOMIC ZONE LIMITED.

Sl	Specific Condition	Compliance Status (October '2023 – March'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.

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Sl	Specific Condition	Compliance Status (October '2023 – March'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 (October'2023--March'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.
li	The environmental safeguards contained in the EIA report shall be implemented in letter and spirit.	Noted, Compliance shall be ensured.
lii	Provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Being Complied.
lv	Six Monthly monitoring reports shall be submitted to the Ministry and concerned Regional Office of the Ministry.	Being Complied.
V	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	Complied.
Vi	The project proponent shall set up a separate Environmental Management Cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	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.

Sanjay
Steel Special Economic Zone Limited.

Sl.No.	Stipulated Condition	Compliance Status (October'2023--March'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 (October'2023--March'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.

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Sl.No.	Stipulated Condition	Compliance Status (October'2023--March'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: 8th April' 2024






Ambient Air Quality Analysis Report

Location: Near TSSEZL Project Office

	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-23	65.17	33.03	10.84	15.02	0.4	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-23	65.17	34.41	11.72	16.74	0.44	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-23	64.6	33.07	10.63	16.49	0.41	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-24	64.54	31.9	10.13	15.15	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-24	64.06	31.93	9.85	15.78	0.35	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-24	64.8	33.6	10.3	14.7	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	64.54	34.41	11.72	16.7	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	64.06	31.09	9.85	14.7	0.4	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	64.6	32.9	10.6	15.6	0.4	<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)
Oct-23	66.31	34.2	11.2	15.29	0.55	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-23	66.52	35.72	11.95	16.09	0.59	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-23	66.97	34.43	11.74	15.89	0.52	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-24	64.28	33.49	11.96	15.91	0.49	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-24	63.1	32.74	11.83	15.66	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-24	64.8	33.6	10.3	14.7	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	66.97	35.72	11.96	16.09	0.59	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	63.1	32.74	10.03	14.07	0.45	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	65.3	34.3	11.5	15.6	0.5	<20	<10	<0.01	<0.6	<0.44	<5	<1

Location: Near TSSEZL Main Gate (Chama Khandi)

	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-23	64.16	33.09	8.7	12.88	0.41	<20	<10	<0.01	<0.6	<0.44	<5	<1
Nov-23	66.42	35.61	10.07	16.94	0.47	<20	<10	<0.01	<0.6	<0.44	<5	<1
Dec-23	66.28	34.93	8.85	12.99	0.36	<20	<10	<0.01	<0.6	<0.44	<5	<1
Jan-24	61.9	33.55	10.12	15	0.39	<20	<10	<0.01	<0.6	<0.44	<5	<1
Feb-24	61.29	33.55	9.87	15.37	0.37	<20	<10	<0.01	<0.6	<0.44	<5	<1
Mar-24	62.5	32.6	8.7	12.7	0.39	<20	<10	<0.01	<0.6	<0.44	<5	<1
MAX	66.42	35.61	10.12	16.94	0.47	<20	<10	<0.01	<0.6	<0.44	<5	<1
MIN	61.9	32.6	8.7	12.7	0.36	<20	<10	<0.01	<0.6	<0.44	<5	<1
AVG	63.7	33.8	9.4	14.4	0.4	<20	<10	<0.01	<0.6	<0.44	<5	<1

	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)
Oct-23	62.5	56.95
Nov-23	62.55	60.35
Dec-23	62.4	55.8
Jan-24	61.6	55.2
Feb-24	61.45	55.4
Mar-24	62.4	56.1
MAX	62.55	60.35
MIN	61.45	55.2
AVG	62.2	56.6
Near TSSEZL Main Gate Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Oct-23	66.1	59.3
Nov-23	65.55	60.35
Dec-23	65.6	59.3
Jan-24	66.7	59.5
Feb-24	66.95	60.45
Mar-24	67.8	59.6
MAX	67.8	60.45
MIN	65.6	59.3
AVG	66.5	59.8



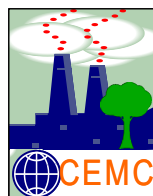
Surface Water Analysis Report

Upstream of Khari Nalla(SW1)		MONTH						Result		
Test Parameters	Unit	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	MAX	MIN	AVG
Colour, Max.	Hazen	15	20	10	11	13	25	20	10	15.6
pH Value @ 25°C	--	7.19	7.62	7.23	7.15	7.09	7.1	7.26	7.1	7.23
Chloride as Cl, Max.	mg/l	36.9	37.1	34.9	36.9	34.9	33.9	37.1	34.9	35.8
Dissolved Solids, Max.	mg/l	191	193	167	171	175	180	193	167	179.5
Dissolved Oxygen, Min.	mg/l	5.8	5.6	5.4	5.2	5.6	6	5.8	5.2	5.6
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	0.7
Sulphate as SO ₄ , Max.	mg/l	24	26	28	34	38	20.8	38	20.8	28.4
Nitrate as NO ₃ , Max.	mg/l	2.2	2.4	2.4	3.2	3.4	1.8	3.4	1.8	2.5
Fluoride as F, Max.	mg/l	0.16	0.19	0.12	0.15	0.16	0.14	0.19	0.12	0.15
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	0.16	0.12	0.15	0.18	0.17	0.18	0.12	0.15
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	177	150	148	152	144	210	210	144	163.5



Surface Water Analysis Report

Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	MAX	MIN	AVG
Colour, Max.	Hazen	25	25	15	16	14	25	25	14	19
pH Value @ 25°C	--	7.72	7.48	7.52	7.48	7.55	7.1	7.72	7.1	7.4
Chloride as Cl, Max.	mg/l	45.9	41.6	41.9	43.9	41.9	33.9	45.9	33.9	41.5
Dissolved Solids, Max.	mg/l	180	185	174	168	154	180	185	168	173.5
Dissolved Oxygen, Min.	mg/l	5.6	5.9	5.2	5	5.4	6	5.9	5	5.5
BOD for 3 days@ 27 ⁰ C, Max.	mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Sulphate as SO ₄ , Max.	mg/l	31.8	32.6	30.8	32.9	30.5	20.8	32.6	20.8	29.9
Nitrate as NO ₃ , Max.	mg/l	2.2	0.19	1.6	1.3	1.1	1.8	2.2	1.8	1.3
Fluoride as F, Max.	mg/l	0.18	0.19	0.14	0.16	0.18	0.16	0.19	0.12	0.16
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	0.32	0.26	0.29	0.31	0.16	0.21	0.29	0.28
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	342	346	41	49	38	210	346	38	171



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Report no.-CEMC/TSSEZL/031123/A1

Issued Date-03.11.2023

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-03112023A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.10.2023	69.8	36.2	12.14	16.42	0.41	--	--	--	--	--	--	--
05.10.2023	65.6	34.4	11.08	15.12	0.47	--	--	--	--	--	--	--
10.10.2023	62.5	30.6	9.26	13.24	0.34	--	--	--	--	--	--	--
12.10.2023	60.4	30.1	8.42	12.58	0.4	--	--	--	--	--	--	--
16.10.2023	67.2	34.8	11.24	15.62	0.44	--	--	--	--	--	--	--
19.10.2023	69.8	35.2	12.78	16.94	0.52	<20	<10	<0.1	<0.6	<0.44	<5	<1
25.10.2023	66.9	34.1	10.44	14.72	0.48	--	--	--	--	--	--	--
27.10.2023	60.5	30.3	10.12	14.38	0.38	--	--	--	--	--	--	--
30.10.2023	63.8	31.6	12.06	16.12	0.52	--	--	--	--	--	--	--
Avg	65.17	33.03	10.84	15.02	0.44	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 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


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Notes:

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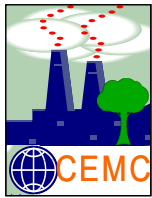
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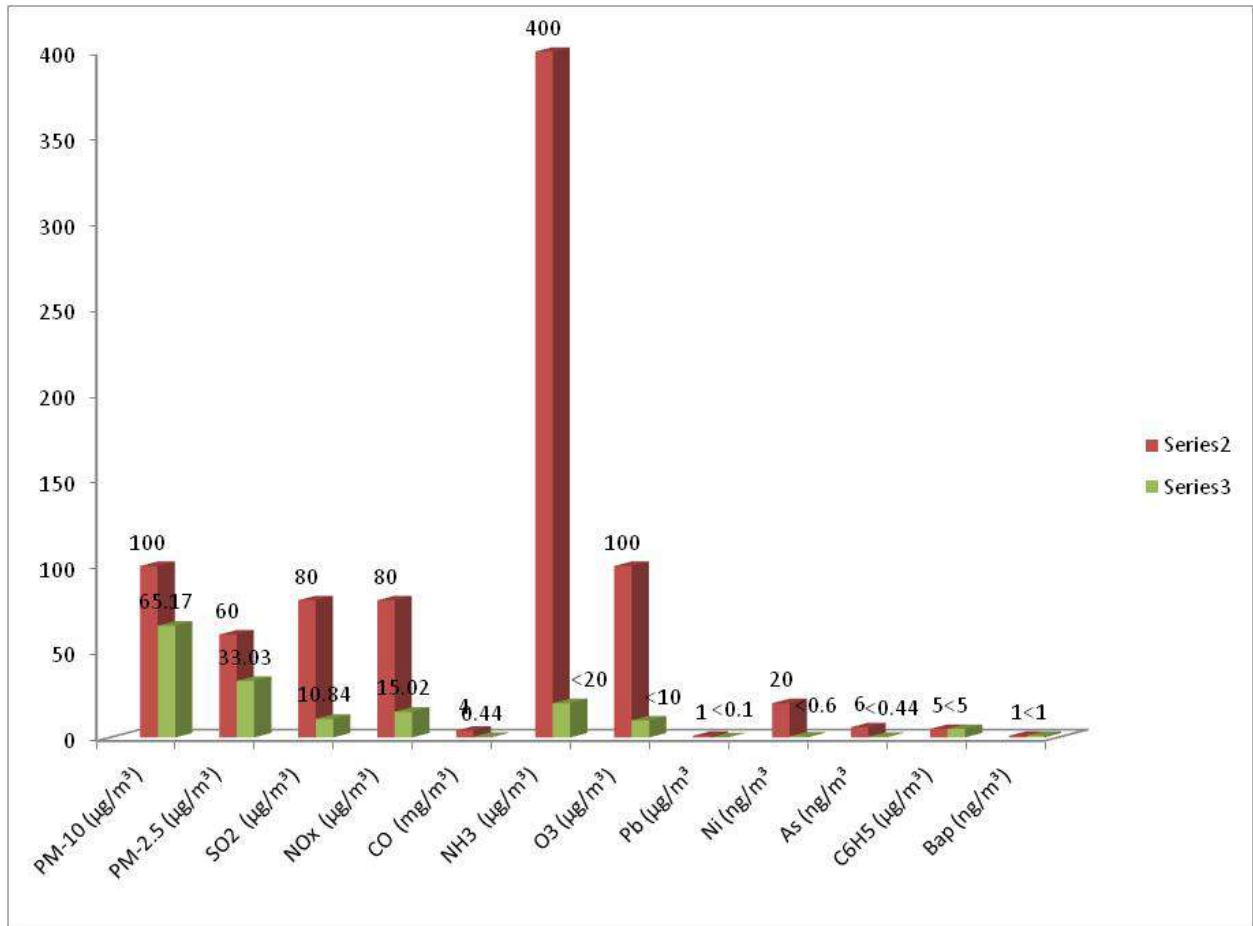
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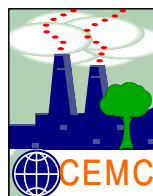
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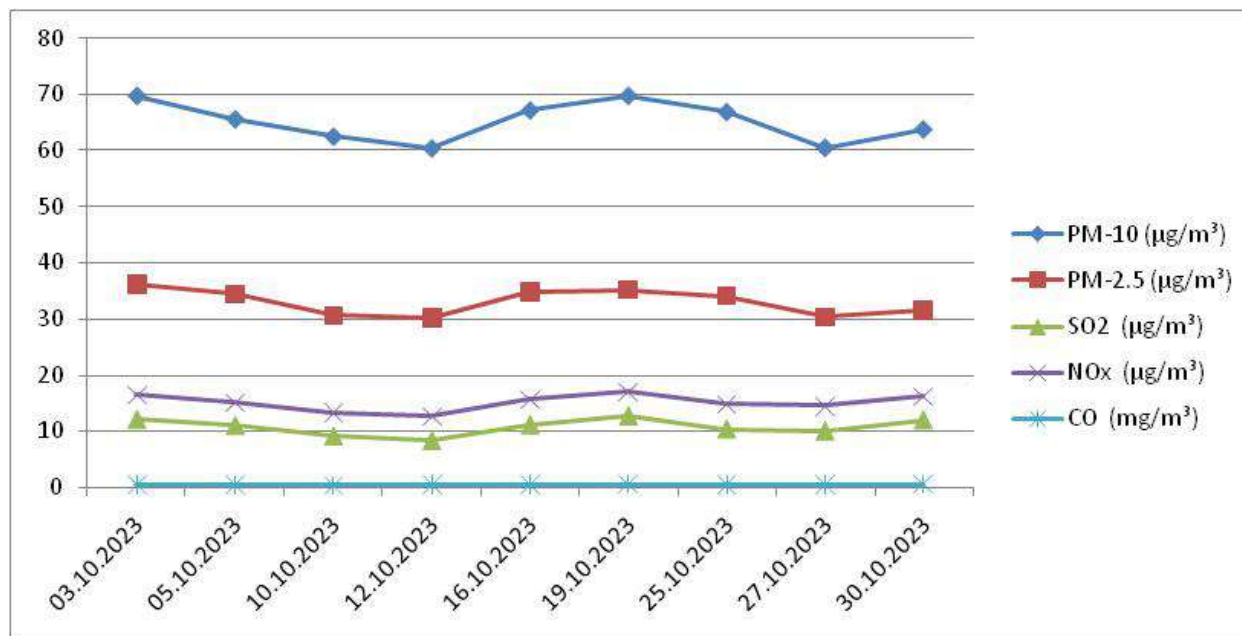
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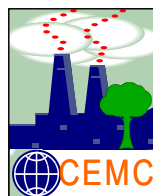
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Report no.-CEMC/TSSEZL/031123/A2

Issued Date-03.11.2023

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-03112023A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
03.10.2023	67.4	35.2	12.31	16.18	0.63	--	--	--	--	--	--	--
05.10.2023	64.8	33.5	10.56	14.28	0.6	--	--	--	--	--	--	--
10.10.2023	69.9	35.9	11.78	15.46	0.56	--	--	--	--	--	--	--
12.10.2023	66.2	34.1	10.44	14.54	0.5	--	--	--	--	--	--	--
16.10.2023	67.3	34.8	10.84	15.76	0.58	--	--	--	--	--	--	--
19.10.2023	68.6	35.1	14.26	18.91	0.61	<20	<10	<0.1	<0.6	<0.44	<5	<1
25.10.2023	65.3	33.9	10.62	14.44	0.44	--	--	--	--	--	--	--
27.10.2023	61.6	31.4	9.08	13.38	0.49	--	--	--	--	--	--	--
30.10.2023	65.7	33.9	10.92	14.62	0.54	--	--	--	--	--	--	--
Avg	66.31	34.20	11.20	15.29	0.55	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 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.

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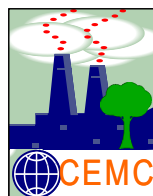
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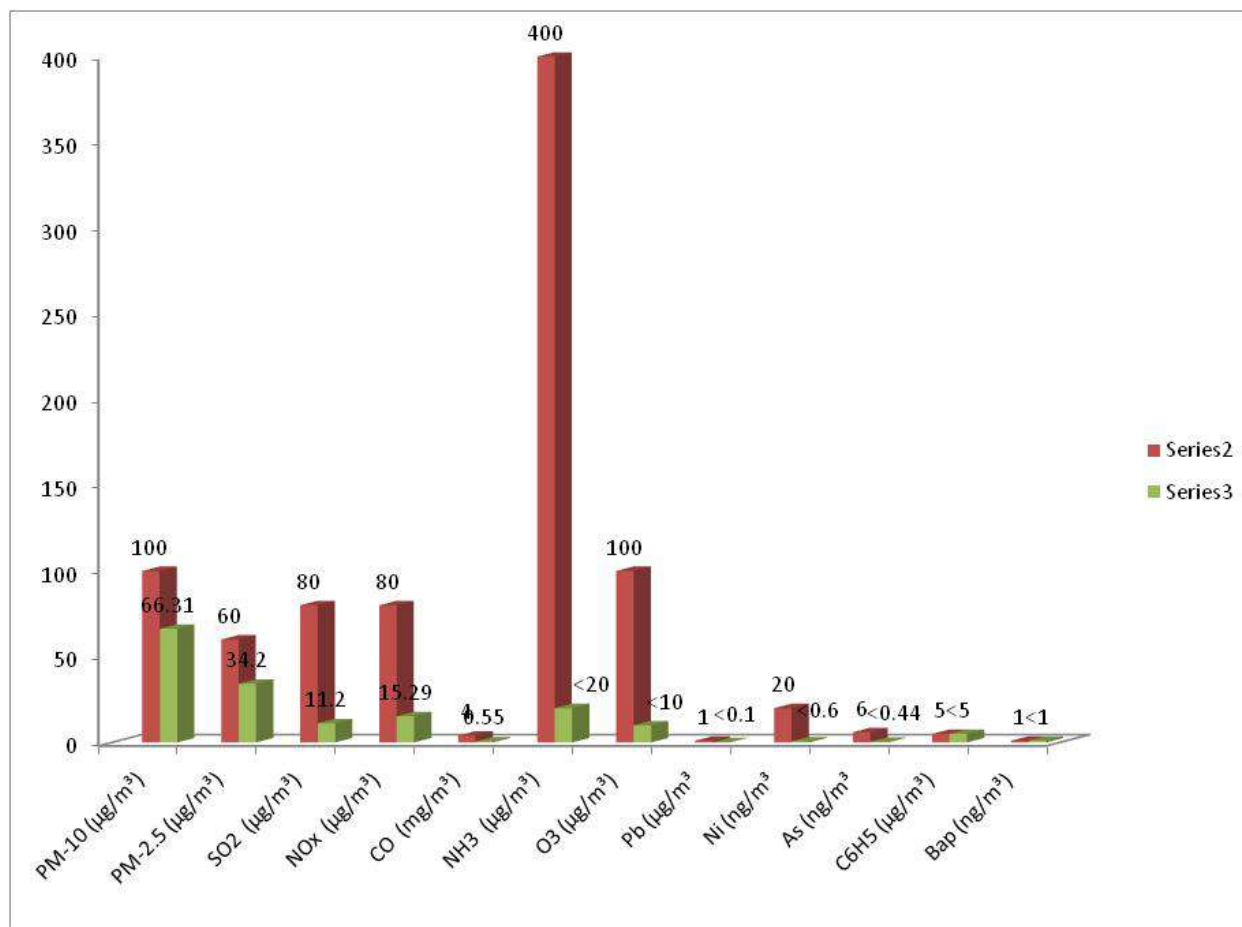
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This Graph is belongs to Station-02(Near Anadrone Office) For the Month of October-23

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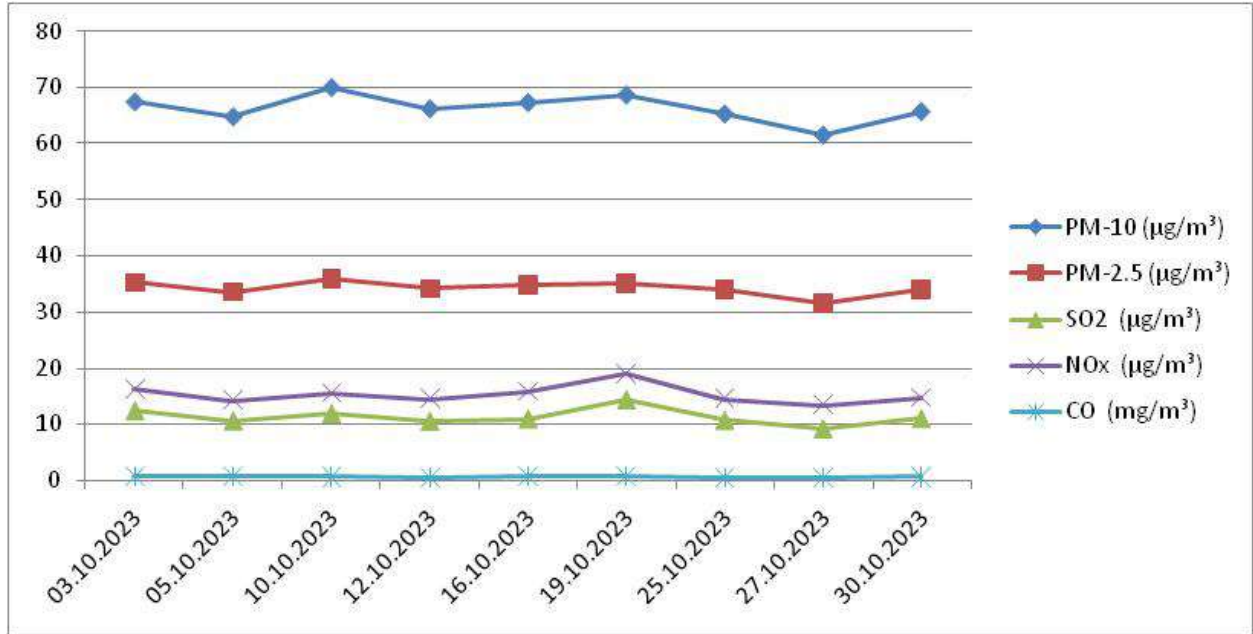
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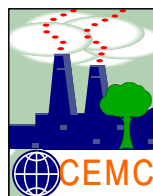
This Graph is belongs to Station-02(Near Anadrone Office) For the Month of October-23

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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Report no.-CEMC/TSSEZL/031123/A3

Issued Date-03.11.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

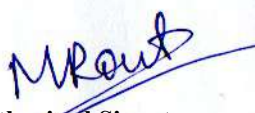
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-03112023A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

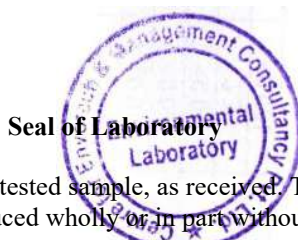
ANALYSIS RESULT

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2023	66.8	34.6	9.28	13.18	0.34	--	--	--	--	--	--	--
05.10.2023	63.4	33.8	8.52	12.26	0.41	--	--	--	--	--	--	--
10.10.2023	62.3	32.9	9.44	13.54	0.38	--	--	--	--	--	--	--
12.10.2023	61.7	31.3	8.82	12.78	0.43	--	--	--	--	--	--	--
16.10.2023	67.5	35.4	9.66	13.56	0.49	--	--	--	--	--	--	--
19.10.2023	63.9	32.6	7.38	12.22	0.43	<20	<10	<0.1	<0.6	<0.44	<5	<1
25.10.2023	60.4	30.2	6.14	11.32	0.42	--	--	--	--	--	--	--
27.10.2023	65.3	33.0	9.98	13.86	0.35	--	--	--	--	--	--	--
30.10.2023	66.1	34.0	9.12	13.24	0.44							
Avg	64.16	33.09	8.70	12.88	0.41	--	--	--	--	--	--	--
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 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


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Notes:



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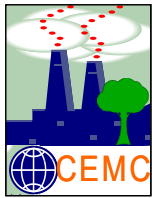
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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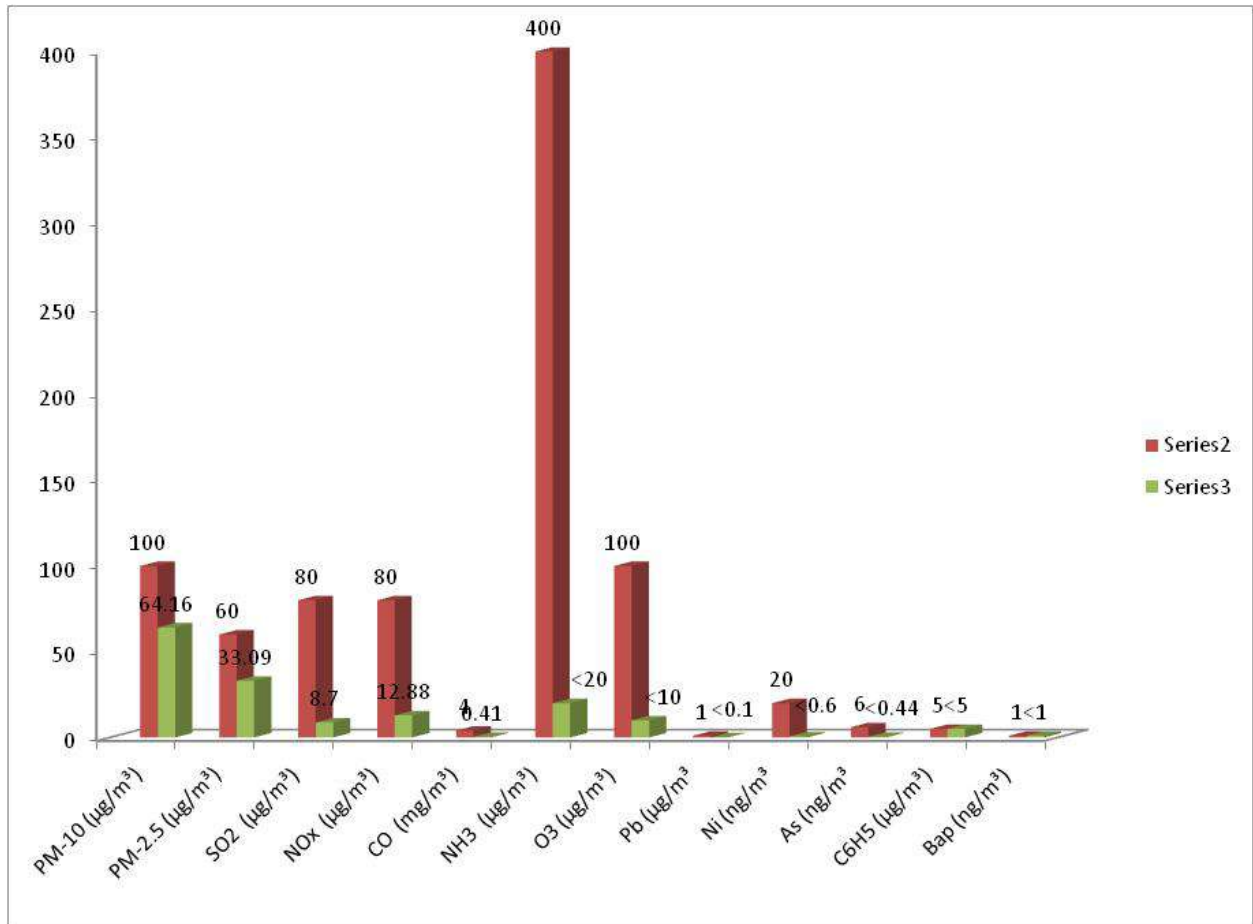
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of October-23

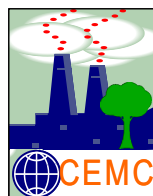
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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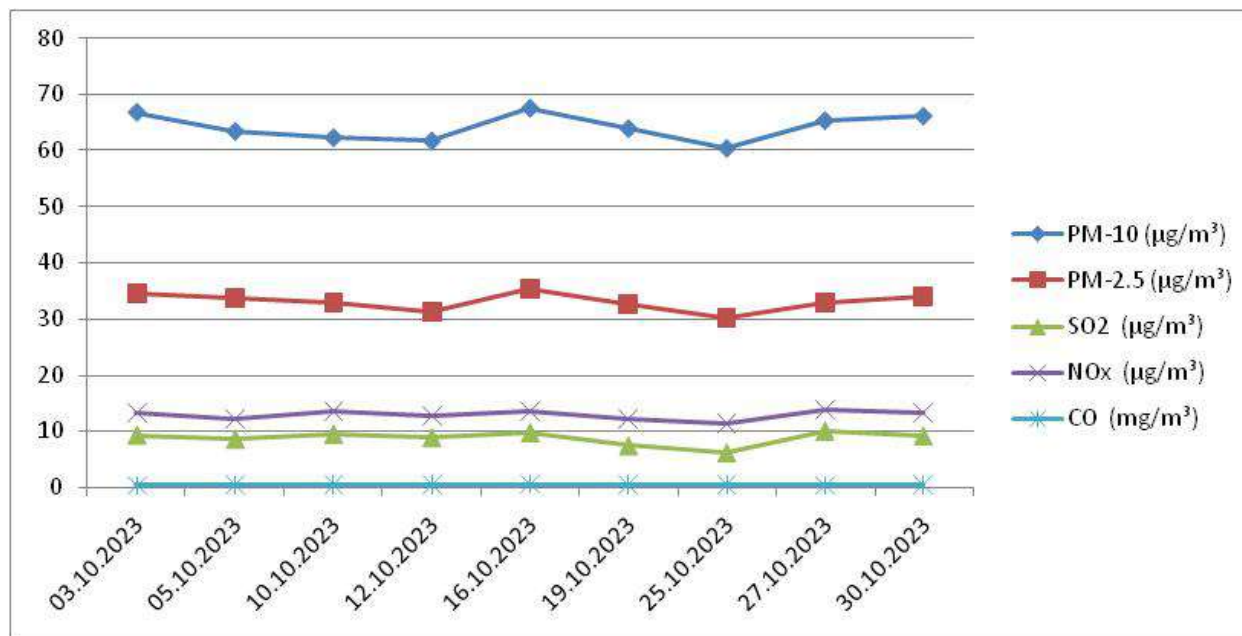
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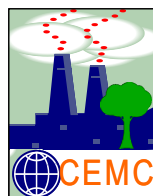
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Report no.-CEMC/TSSEZL/031123/W1

Issued Date-03.11.2023

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 20.10.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 20.10.2023
Date of Analysis : 21.10.2023 to 27.10.2023
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-03112023W1

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	7.19
3	Iron as Fe, Max.	mg/l	50	0.15
4	Chloride as Cl, Max.	mg/l	600	36.9
5	Dissolved Solids, Max.	mg/l	1500	191
6	Dissolved Oxygen, Min.	mg/l	4	5.8
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
11	Nitrate as NO ₃ , Max.	mg/l	50	2.2
12	Fluoride as F, Max.	mg/l	1.5	0.16
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	177
23	Faecal Coliform	MPN/100ml	--	11

, MPN-Most Probable Number

END OF REPORT

MPRout

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Notes:

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Seal of Laboratory

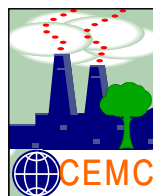
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Report no.-CEMC/TSSEZL/031123/W2

Issued Date-03.11.2023

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 20.10.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 20.10.2023
Date of Analysis : 21.10.2023 to 27.10.2023
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-03112023W2

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	7.72
3	Iron as Fe, Max.	mg/l	50	0.36
4	Chloride as Cl, Max.	mg/l	600	45.9
5	Dissolved Solids, Max.	mg/l	1500	180
6	Dissolved Oxygen, Min.	mg/l	4	5.6
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	31.8
11	Nitrate as NO ₃ , Max.	mg/l	50	2.2
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	342
23	Faecal Coliform	MPN/100ml	--	20

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

END OF REPORT

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Seal of Laboratory

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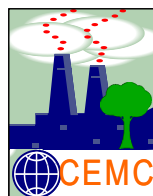
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Report No. - CEMC/ TSSEZL /031123/N

Issued Date-03.11.2023

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03112023N
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.
20.10.2023	Near Anadrone Office	65.4	59.6	62.5	58.8	53.2	56.0
20.10.2023	Near main gate(Chamakhandi)	67.9	64.3	66.1	61.5	57.1	59.3

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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Seal of Laboratory

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Report no.-CEMC/TSSEZL/031223/A1

Issued Date-03.12.2023

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-03122023A1
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)
02.11.2023	70.2	35.4	11.15	17.65	0.42	--	--	--	--	--	--	--
08.11.2023	63.5	33.6	11.39	16.47	0.44	--	--	--	--	--	--	--
10.11.2023	66.1	32.9	10.54	16.11	0.42	--	--	--	--	--	--	--
13.11.2023	62.5	31.4	10.47	15.48	0.41	--	--	--	--	--	--	--
16.11.2023	64.9	36.1	11.12	16.32	0.47	--	--	--	--	--	--	--
21.11.2023	61.5	36.2	14.14	17.89	0.48	<20	<10	<0.1	<0.6	<0.44	<5	<1
23.11.2023	65.3	36.9	11.47	16.19	0.42	--	--	--	--	--	--	--
27.11.2023	63.9	32.5	12.14	17.45	0.44	--	--	--	--	--	--	--
29.11.2023	68.6	34.7	13.05	17.14	0.50							
Avg	65.17	34.41	11.72	16.74	0.44	<20	<10	<0.1	<0.6	<0.44	<5	<1
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


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Seal of Laboratory

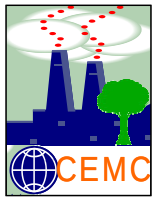
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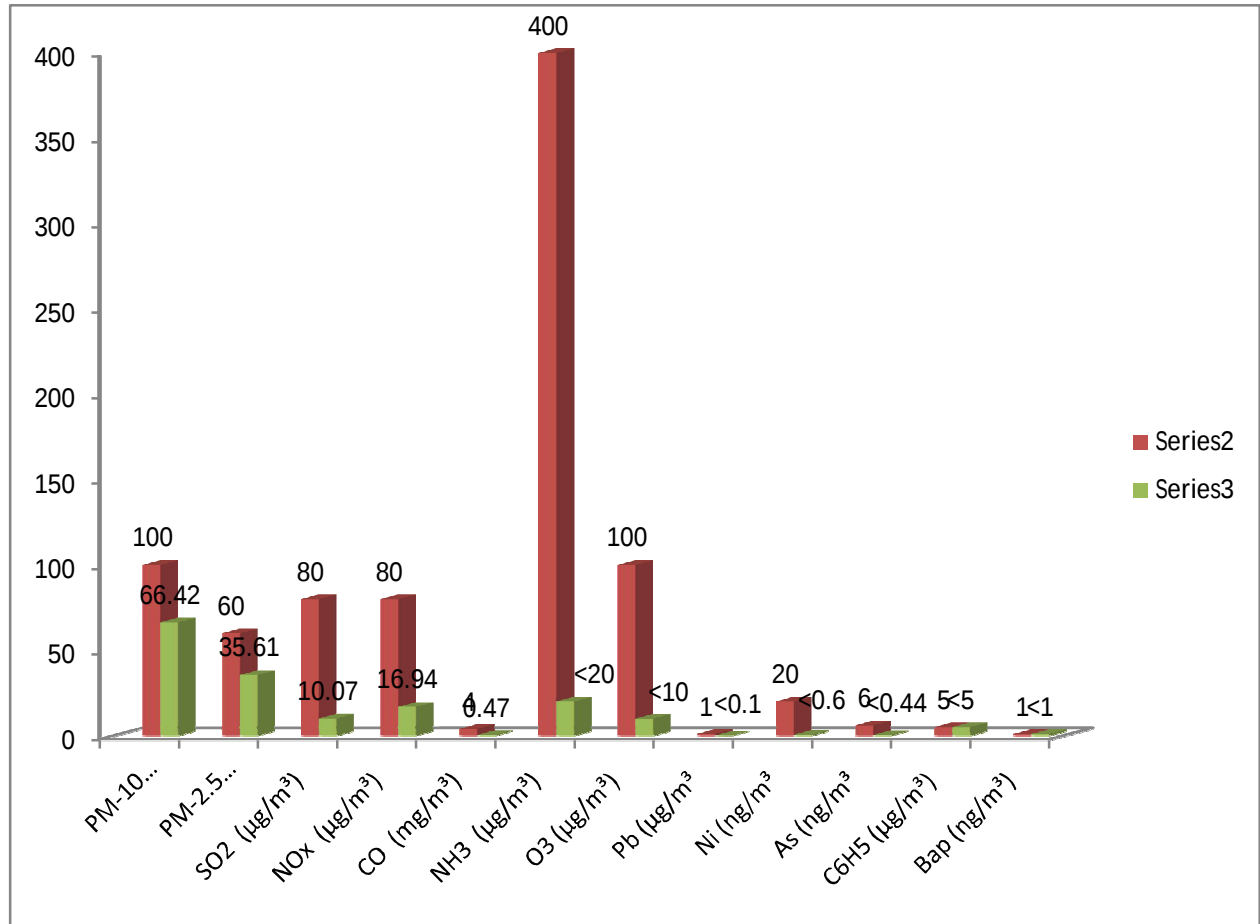
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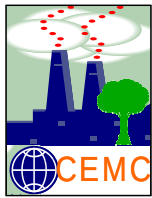
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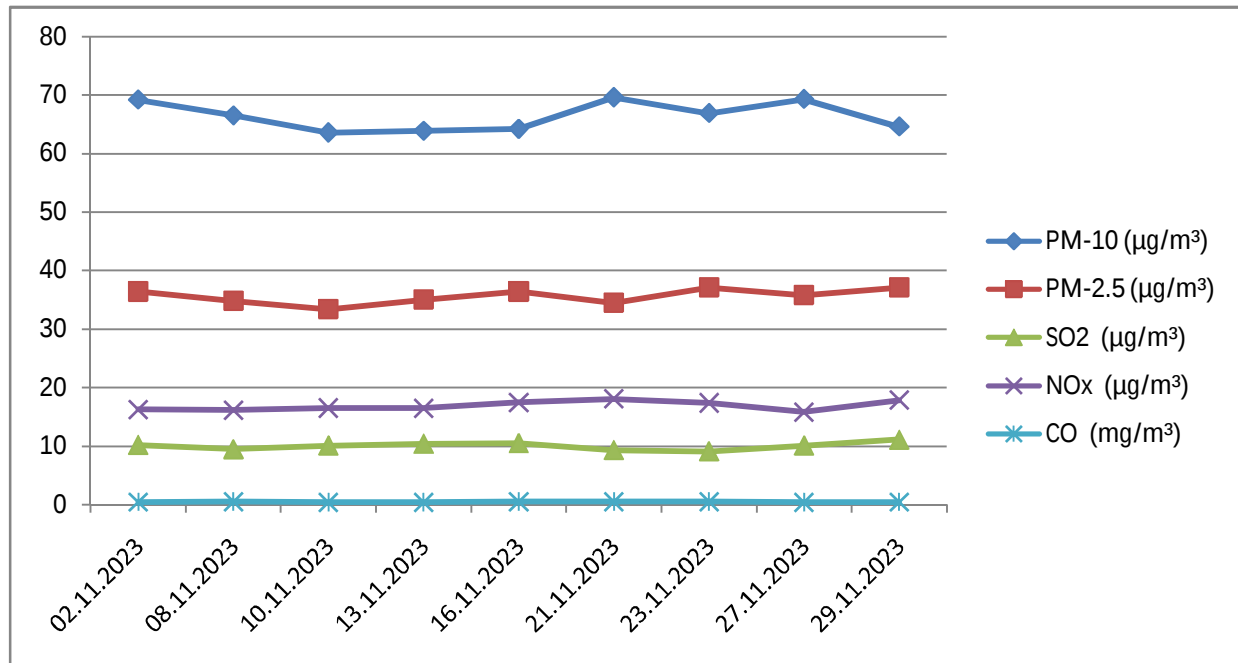
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Report no.-CEMC/TSSEZL/031223/A2

Issued Date-03.12.2023

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-03122023A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

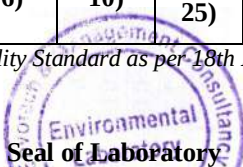
ANALYSIS RESULT

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)
02.11.2023	68.5	36.9	13.15	17.18	0.66	--	--	--	--	--	--	--
08.11.2023	65.6	34.8	11.14	15.42	0.62	--	--	--	--	--	--	--
10.11.2023	70.2	37.4	12.74	15.48	0.59	--	--	--	--	--	--	--
13.11.2023	66.2	36.7	11.41	15.62	0.52	--	--	--	--	--	--	--
16.11.2023	69.3	37.1	11.11	16.21	0.51	--	--	--	--	--	--	--
21.11.2023	62.5	34.3	15.21	17.56	0.63	<20	<10	<0.1	<0.6	<0.44	<5	<1
23.11.2023	69.6	36.8	11.15	15.65	0.65	--	--	--	--	--	--	--
27.11.2023	60.5	32.7	10.54	15.96	0.51	--	--	--	--	--	--	--
29.11.2023	66.3	34.8	11.12	15.69	0.58	--	--	--	--	--	--	--
Avg	66.52	35.72	11.95	16.09	0.59	<20	<10	<0.1	<0.6	<0.44	<5	<1
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


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Notes:

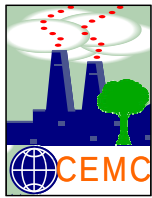
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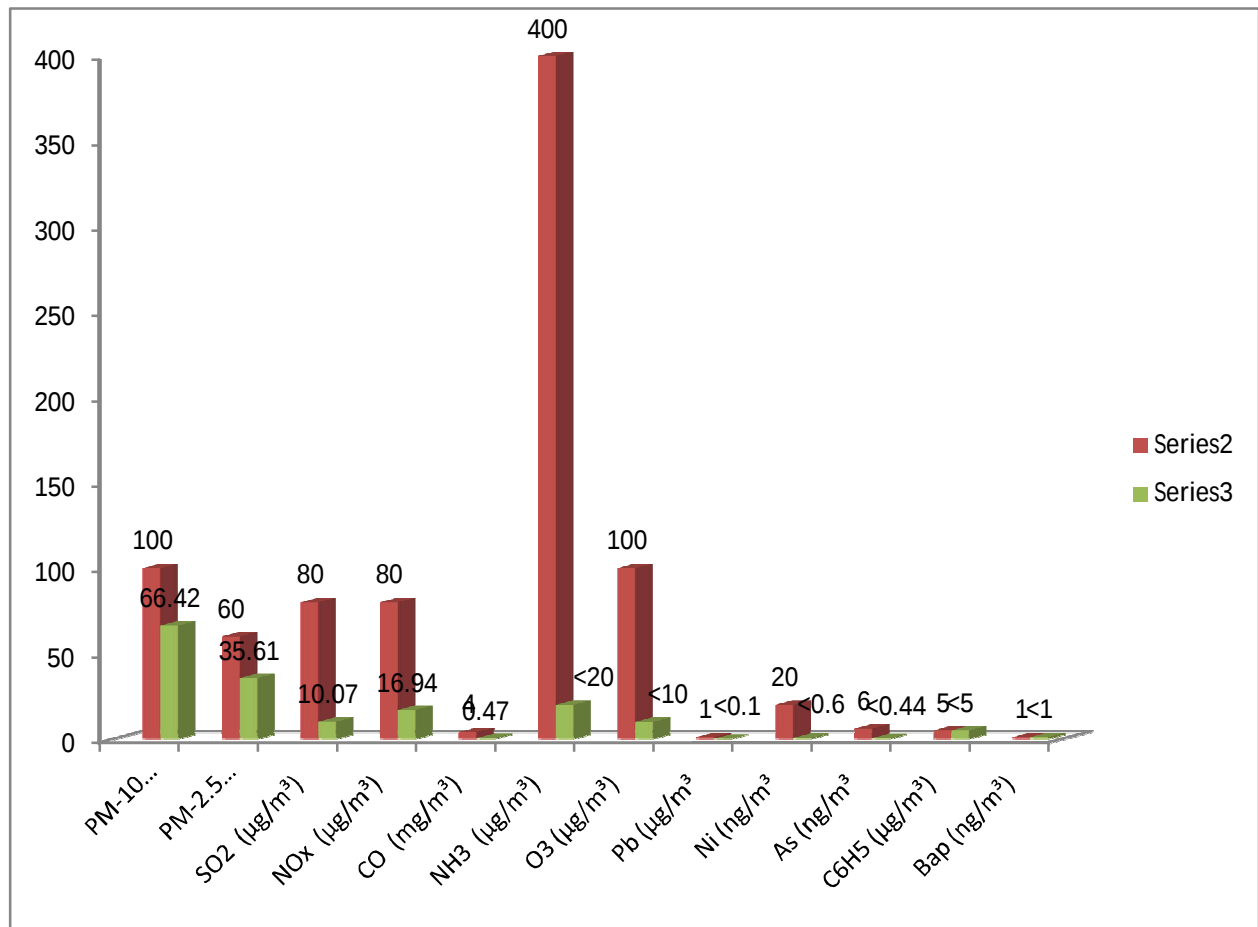
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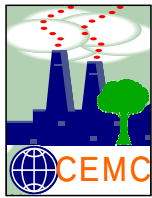
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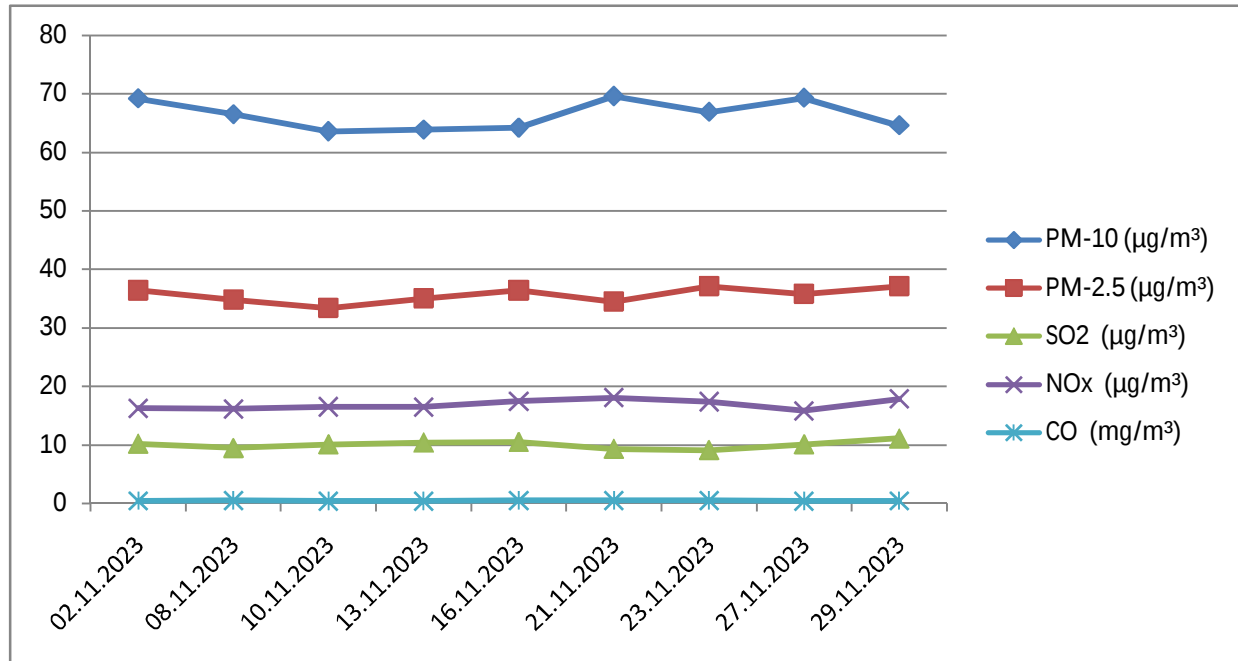
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Report no.-CEMC/TSSEZL/031223/A3

Issued Date-03.12.2023

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-03122023A3
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)
02.11.2023	69.2	36.4	10.25	16.33	0.47	--	--	--	--	--	--	--
08.11.2023	66.5	34.8	9.52	16.19	0.51	--	--	--	--	--	--	--
10.11.2023	63.6	33.4	10.12	16.58	0.42	--	--	--	--	--	--	--
13.11.2023	63.9	35.0	10.44	16.54	0.41	--	--	--	--	--	--	--
16.11.2023	64.2	36.4	10.54	17.51	0.51	--	--	--	--	--	--	--
21.11.2023	69.6	34.5	9.36	18.12	0.54	<20	<10	<0.1	<0.6	<0.44	<5	<1
23.11.2023	66.9	37.1	9.15	17.42	0.49	--	--	--	--	--	--	--
27.11.2023	69.3	35.8	10.12	15.89	0.42	--	--	--	--	--	--	--
29.11.2023	64.6	37.1	11.15	17.90	0.47							
Avg	66.42	35.61	10.07	16.94	0.47	<20	<10	<0.1	<0.6	<0.44	<5	<1
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

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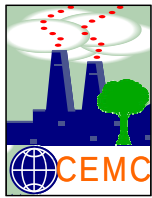
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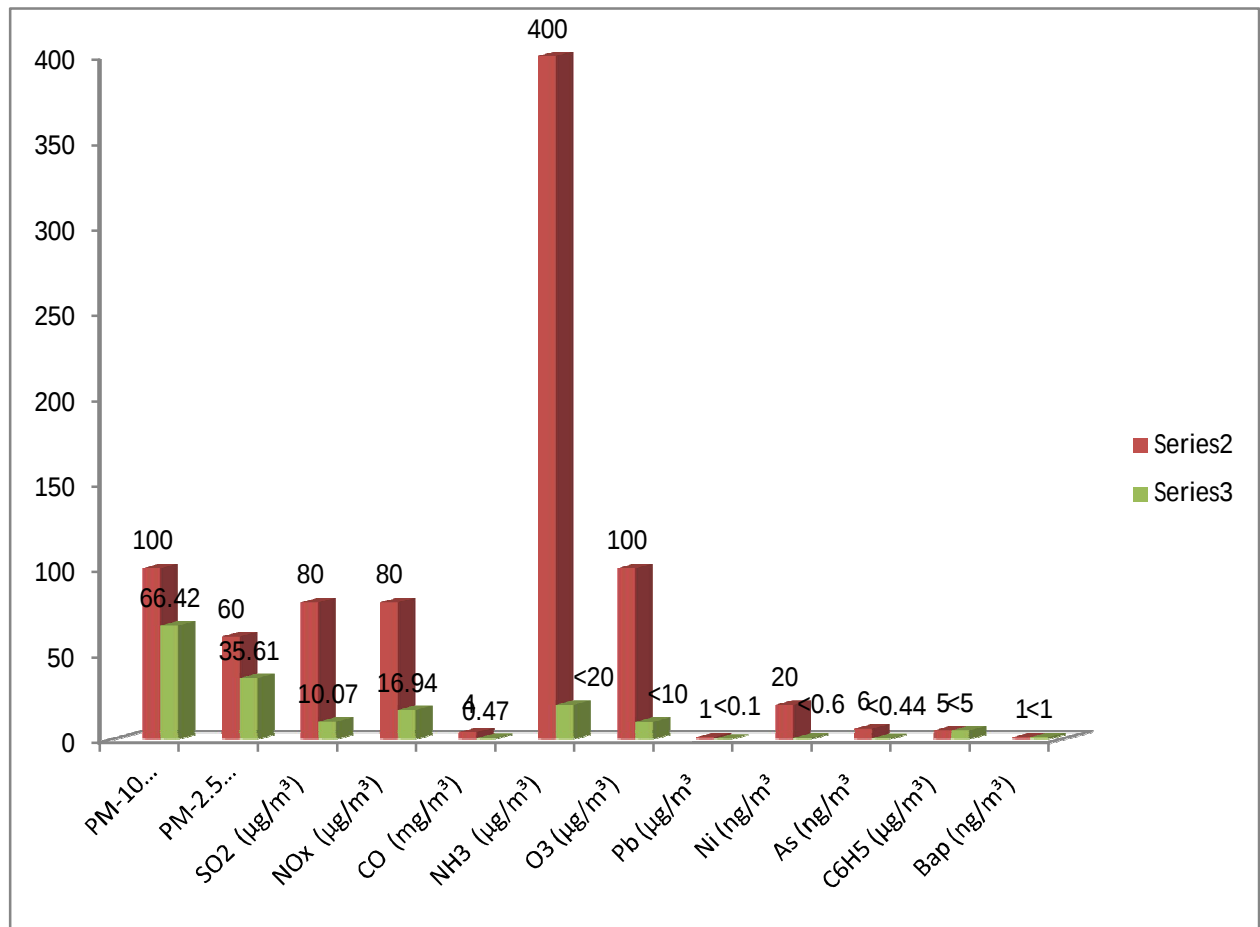
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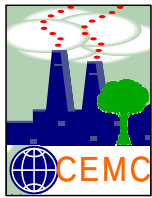
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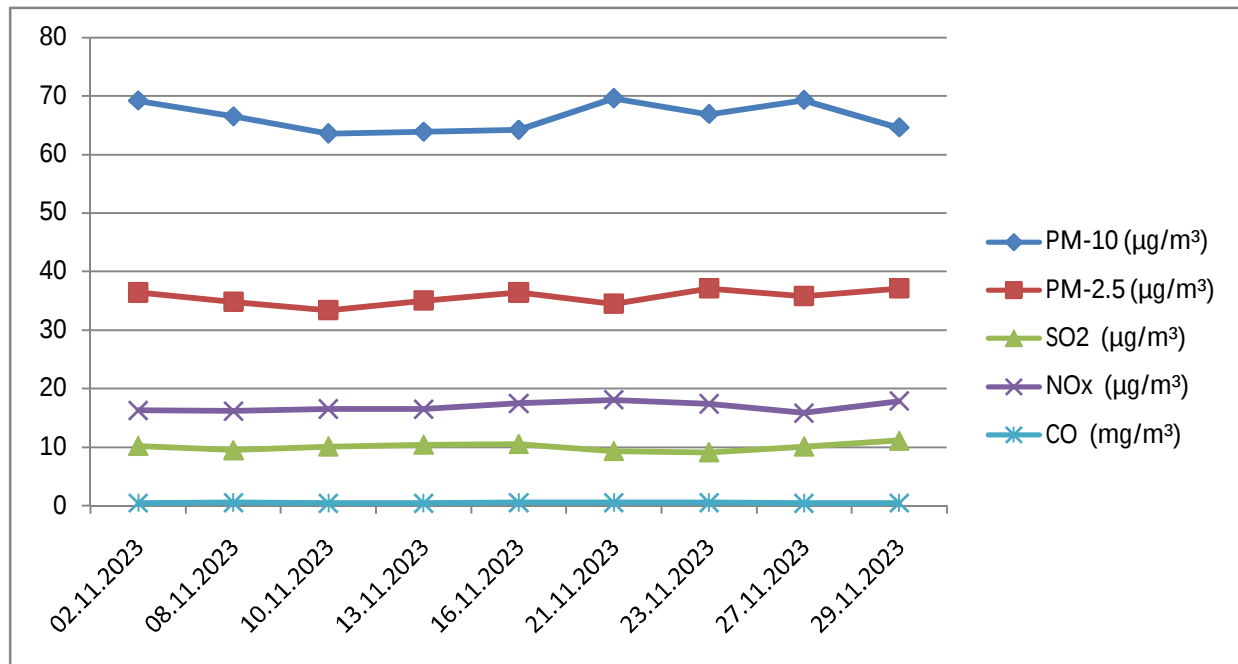
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Report no.-CEMC/TSSEZL/031223/A

Issued Date-03.12.2023

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-03122023A
Instrument Used	Respirable Dust Sampler,

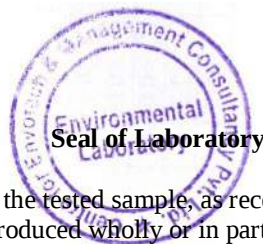
ANALYSIS RESULT

Locations	Date	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
Near TSSEZL Project Office	21.11.2023	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadrone Office	21.11.2023	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	21.11.2023	<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)


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Report no.-CEMC/TSSEZL/031223/W1

Issued Date-03.12.2023

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 17.11.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 18.11.2023
Date of Analysis : 18.11.2023 to 30.11.2023
Sample Location : Khari Nalla, Up Stream (SW1)
Reference No. : CEMC-03122023W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	20
2	pH Value @ 25°C	--	6.5 to 8.5	7.25
3	Iron as Fe, Max.	mg/l	50	0.16
4	Chloride as Cl, Max.	mg/l	600	37.1
5	Dissolved Solids, Max.	mg/l	1500	193
6	Dissolved Oxygen, Min.	mg/l	4	5.6
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	26
11	Nitrate as NO ₃ , Max.	mg/l	50	2.4
12	Fluoride as F, Max.	mg/l	1.5	0.19
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	157
23	Faecal Coliform	MPN/100ml	--	8

MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Notes:

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Seal of Laboratory

Environmental Laboratory

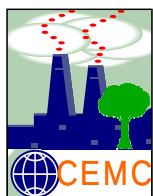
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Report no.-CEMC/TSSEZL/031223/W2

Issued Date-03.12.2023

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 17.11.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 18.11.2023
Date of Analysis : 18.11.2023 to 30.11.2023
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream (SW2)
Reference No. : CEMC-03122023W2

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	7.48
3	Iron as Fe, Max.	mg/l	50	0.32
4	Chloride as Cl, Max.	mg/l	600	41.6
5	Dissolved Solids, Max.	mg/l	1500	185
6	Dissolved Oxygen, Min.	mg/l	4	5.9
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	32.6
11	Nitrate as NO ₃ , Max.	mg/l	50	2.4
12	Fluoride as F, Max.	mg/l	1.5	0.19
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	346
23	Faecal Coliform	MPN/100ml	--	25

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

END OF REPORT

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Seal of Laboratory

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Report No. - CEMC/ TSSEZL /031223/N

Issued Date-03.12.2023

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-03122023N
Nature of Sampling	Noise Monitoring
Sampling By	Mr. R.N Das
Instrument Used	Noise Level Meter
Sampling Period	24 Hours

NOISE MONITORING REPORT

Date of Sampling	Locations	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
17.11.2023	Near Anadrone Office	66.5	58.6	62.55	59.6	54.3	56.95
17.11.2023	Near main gate(Chamakhandi)	68.4	62.7	65.55	62.6	58.1	60.35

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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Notes:

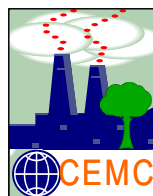
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Report no.-CEMC/TSSEZL/040124/A1

Issued Date-04.01.2024

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-04012024A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
04.12.2023	68.2	35.6	11.12	18.42	0.46	--	--	--	--	--	--	--
11.12.2023	66.4	33.8	10.34	16.12	0.43	--	--	--	--	--	--	--
13.12.2023	64.8	32.6	9.46	15.24	0.37	<20	<10	<0.05	<3.2	<0.1	<5	<1
18.12.2023	62.6	31.8	9.52	14.58	0.31	--	--	--	--	--	--	--
22.12.2023	60.2	30.2	10.26	16.62	0.4	--	--	--	--	--	--	--
26.12.2023	65.4	34.4	13.08	17.94	0.49	--	--	--	--	--	--	--
Avg	64.60	33.07	10.63	16.49	0.41	--	--	--	--	--	--	--
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


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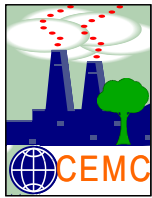
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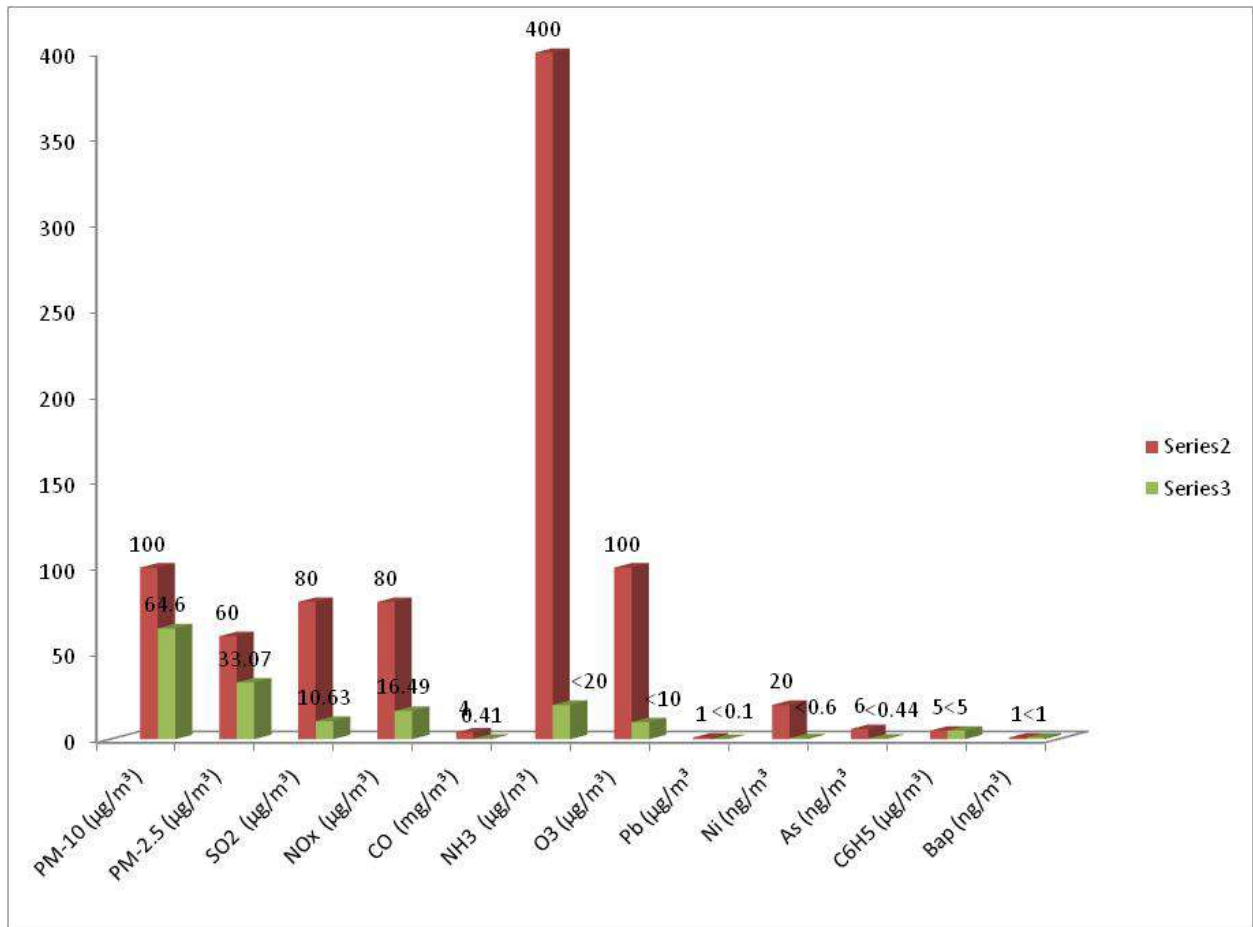
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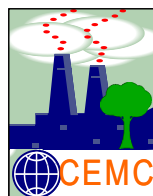
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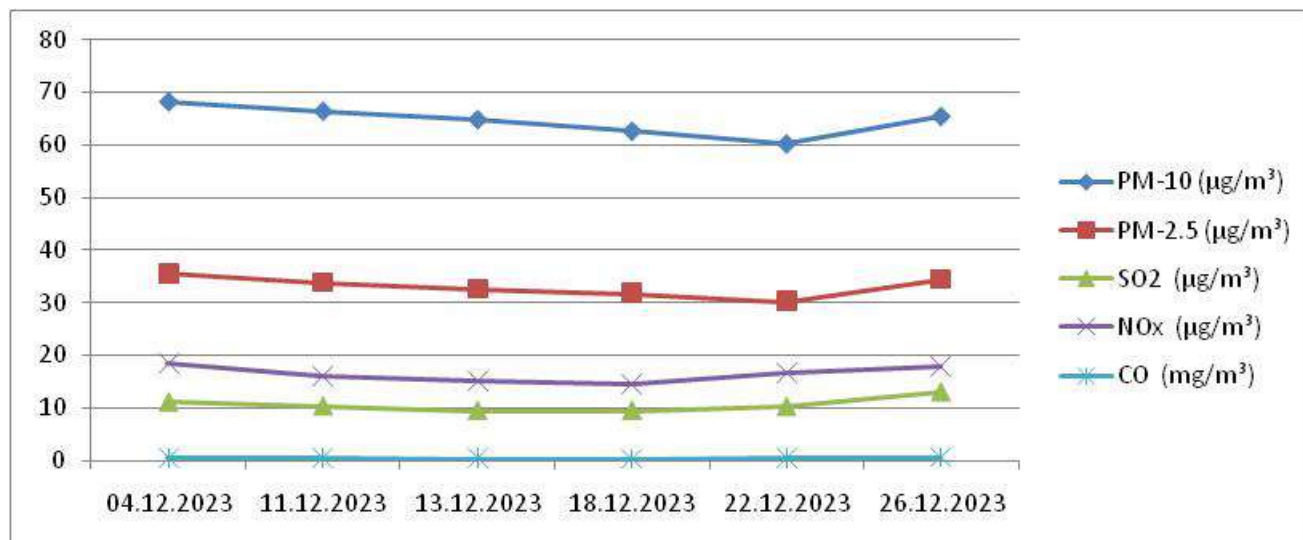
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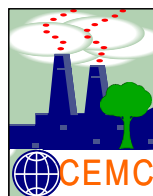
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Report no.-CEMC/TSSEZL/040124/A2

Issued Date-04.01.2024

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-04012024A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
04.12.2023	66.2	34.4	12.12	16.22	0.61	--	--	--	--	--	--	--
11.12.2023	68.6	35.2	13.56	14.32	0.58	--	--	--	--	--	--	--
13.12.2023	67.6	34.8	12.78	15.58	0.52	<20	<10	<0.05	<3.2	<0.1	<5	<1
18.12.2023	65.8	33.2	11.44	14.66	0.5	--	--	--	--	--	--	--
22.12.2023	64.4	33.6	10.72	15.74	0.48	--	--	--	--	--	--	--
26.12.2023	69.2	35.4	9.84	18.84	0.45	--	--	--	--	--	--	--
Avg	66.97	34.43	11.74	15.89	0.52	--	--	--	--	--	--	--
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.

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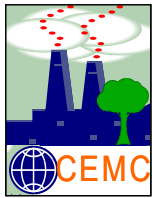
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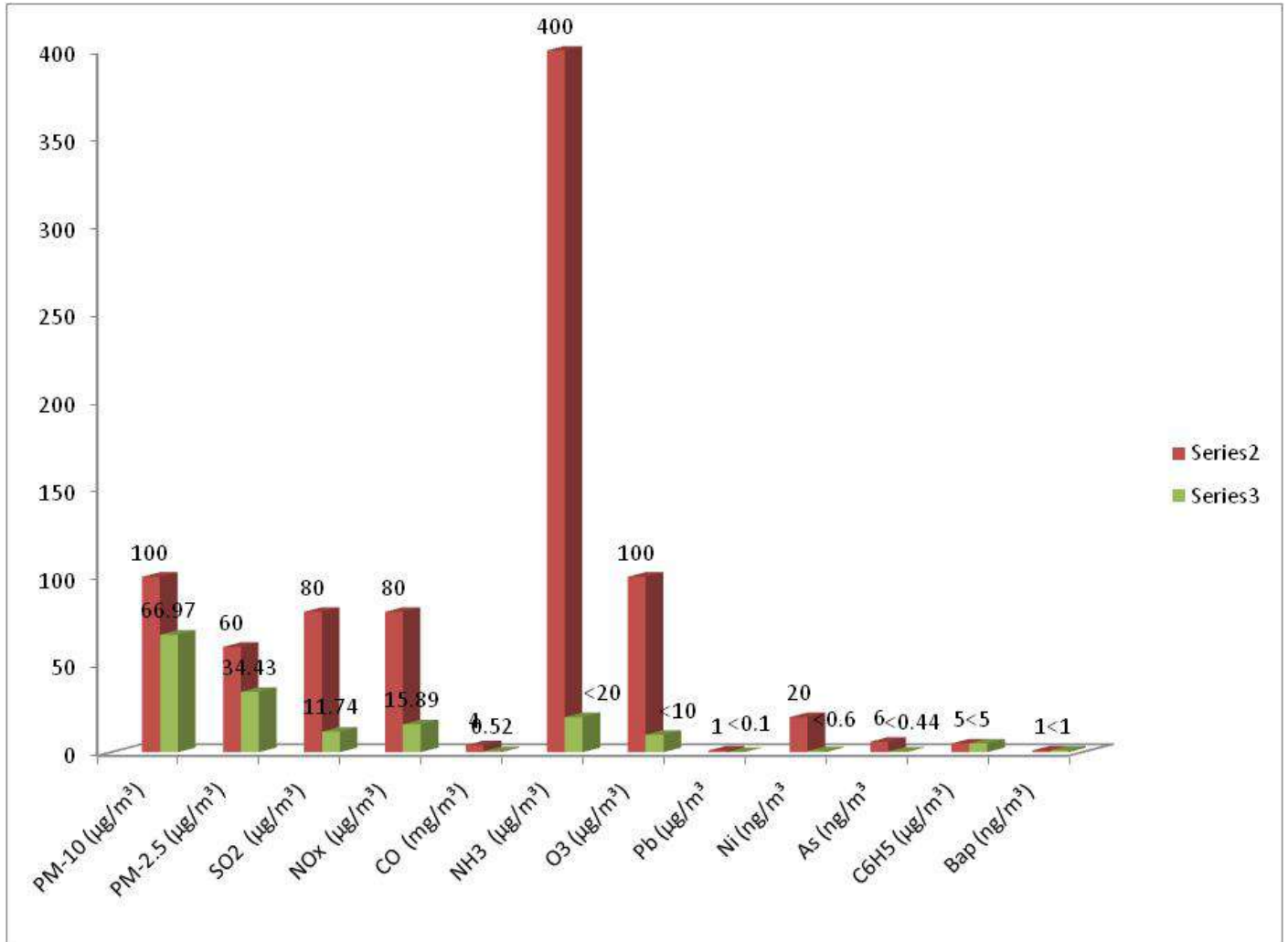
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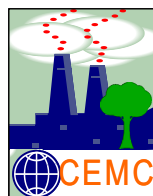
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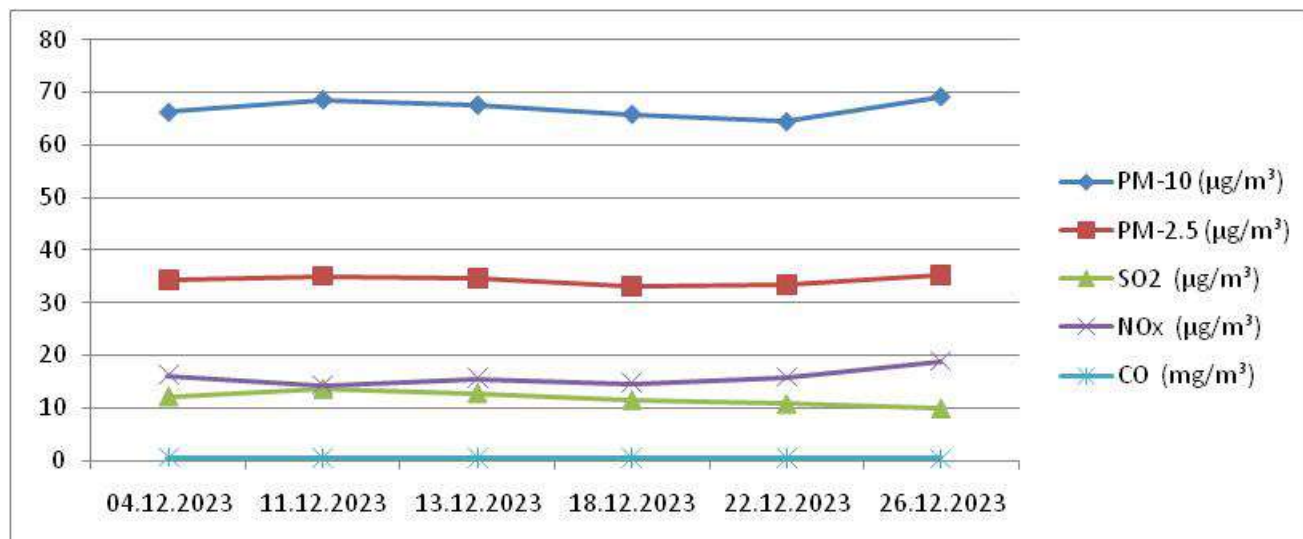
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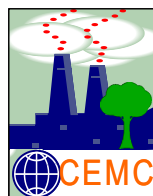
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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842
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Report no.-CEMC/TSSEZL/040124/A3

Issued Date-04.01.2024

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-04012024A3
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

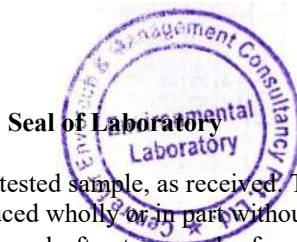
ANALYSIS RESULT

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)
04.12.2023	67.0	35.4	9.46	13.56	0.22	--	--	--	--	--	--	--
11.12.2023	62.4	34.2	8.94	12.42	0.38	--	--	--	--	--	--	--
13.12.2023	68.3	33.8	9.68	13.68	0.41	<20	<10	<0.1	<0.6	<0.44	<5	<1
18.12.2023	69.7	37.6	8.42	12.84	0.36	--	--	--	--	--	--	--
22.12.2023	65.5	35.2	9.58	13.08	0.44	--	--	--	--	--	--	--
26.12.2023	64.8	33.4	7.04	12.34	0.32	--	--	--	--	--	--	--
Avg	66.28	34.93	8.85	12.99	0.36	--	--	--	--	--	--	--
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


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Notes:

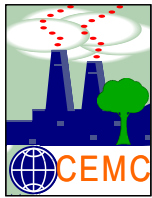
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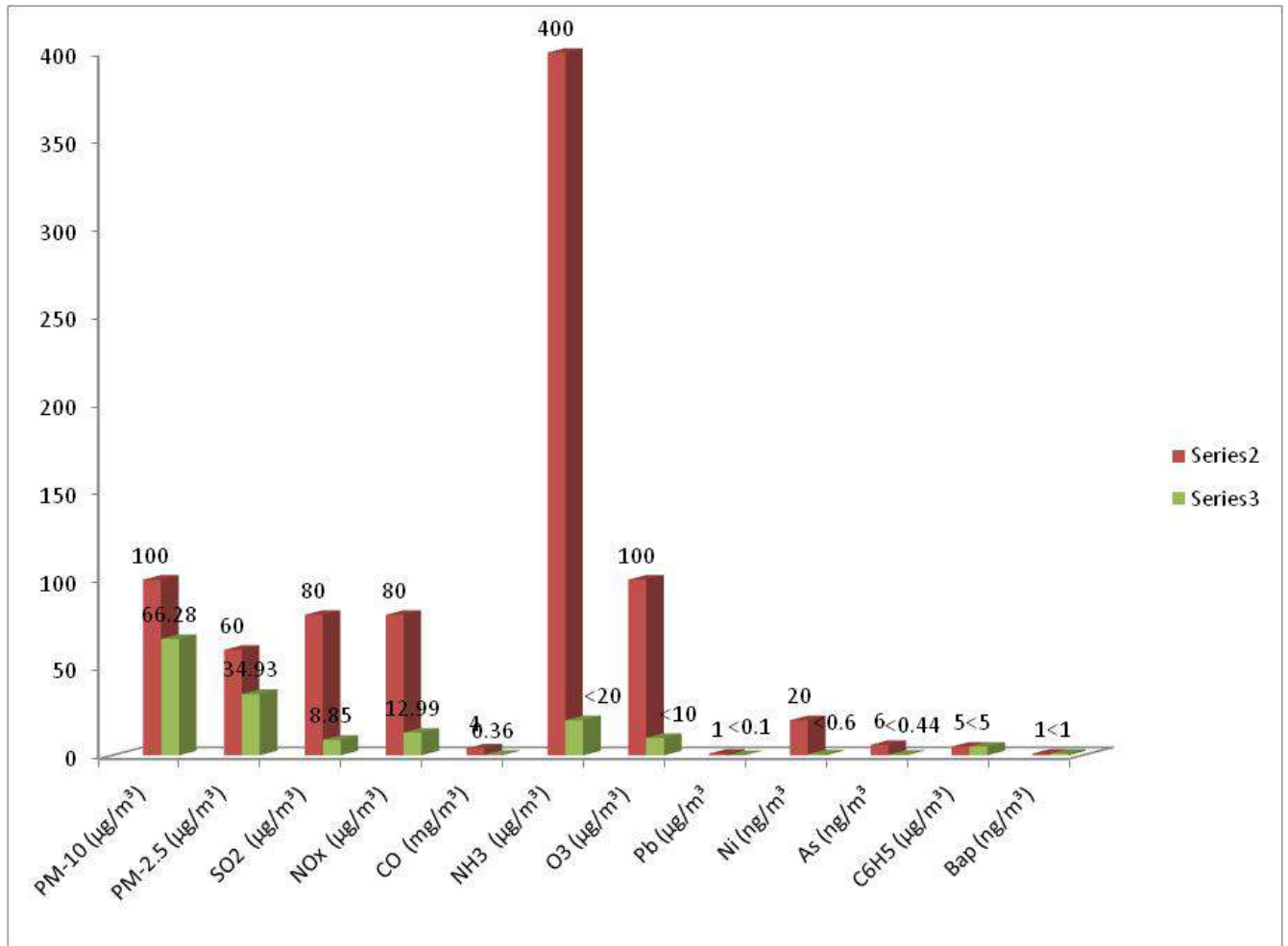
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This Graph is belongs to Station-03(Near Main Gate (Chamakhandi) For the Month of December-23

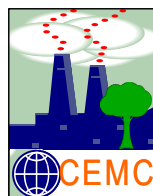
NB-Series2 –Stands for Standard, Series3 –Stands for Result

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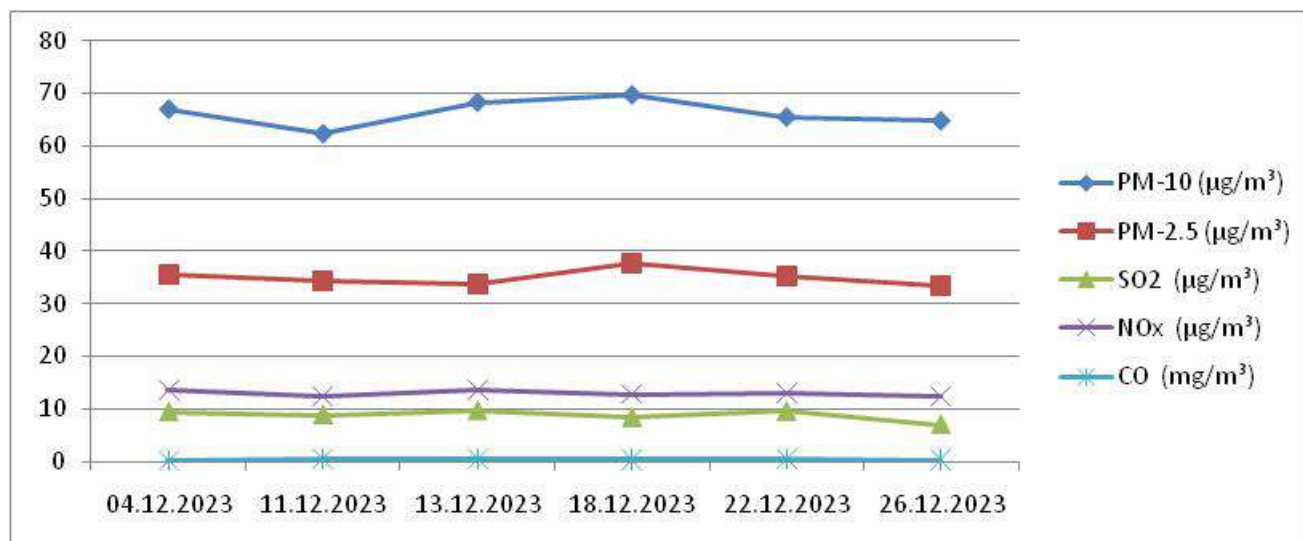
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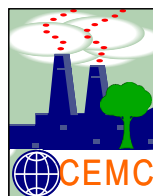
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Report no.-CEMC/TSSEZL/040124/W1

Issued Date-04.01.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 18.12.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 18.12.2023
Date of Analysis : 19.12.2023 to 26.12.2023
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-04012024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	10
2	pH Value @ 25°C	--	6.5 to 8.5	7.23
3	Iron as Fe, Max.	mg/l	50	0.12
4	Chloride as Cl, Max.	mg/l	600	34.9
5	Dissolved Solids, Max.	mg/l	1500	167
6	Dissolved Oxygen, Min.	mg/l	4	5.4
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	28
11	Nitrate as NO ₃ , Max.	mg/l	50	2.4
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	148
23	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

END OF REPORT

MPRout

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Notes:

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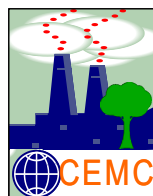
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Report no.-CEMC/TSSEZL/040124/W2

Issued Date-04.01.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 18.12.2023
Sampling by : Mr. R.N Das
Date of Sample Received : 18.12.2023
Date of Analysis : 19.12.2023 to 26.12.2023
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-04012024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	15
2	pH Value @ 25°C	--	6.5 to 8.5	7.52
3	Iron as Fe, Max.	mg/l	50	0.26
4	Chloride as Cl, Max.	mg/l	600	41.9
5	Dissolved Solids, Max.	mg/l	1500	174
6	Dissolved Oxygen, Min.	mg/l	4	5.2
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	30.8
11	Nitrate as NO ₃ , Max.	mg/l	50	1.6
12	Fluoride as F, Max.	mg/l	1.5	0.14
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	41
23	Faecal Coliform	MPN/100ml	--	8

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

END OF REPORT

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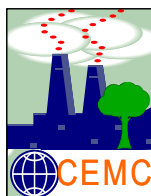
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Report No. - CEMC/ TSSEZL /040124/N

Issued Date-04.01.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04012024N
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.
18.12.2023	Near Anadrone Office	65.3	59.5	62.4	58.6	53.0	55.8
18.12.2023	Near main gate(Chamakhandi)	67.0	64.2	65.6	61.4	57.2	59.3

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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Notes:

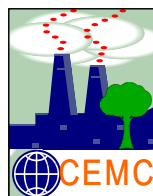
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Report no.-CEMC/TSSEZL/040124/A3

Issued Date-04.01.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

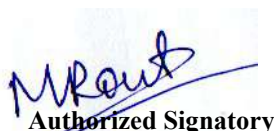
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-04012024A3
Instrument Used	Respirable Dust Sampler,

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	13.12.2023	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadron Office	13.12.2023	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	13.12.2023	<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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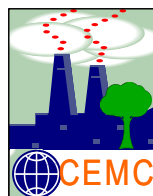
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Report no.-CEMC/TSSEZL/050224/A1

Issued Date-05.02.2024

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-05022024A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.01.24	67.5	34.4	11.26	17.84	0.41	--	--	--	--	--	--	--
09.01.24	61.8	29.6	10.69	15.17	0.46	--	--	--	--	--	--	--
11.01.24	65.9	31.8	10.87	14.18	0.40	--	--	--	--	--	--	--
16.01.24	66.4	32.9	10.14	13.59	0.33	--	--	--	--	--	--	--
18.01.24	63.8	28.8	9.58	15.48	0.41	<20	<10	<0.05	<3.2	<0.1	<5	<1
23.01.24	60.1	30.1	9.02	14.87	0.33	--	--	--	--	--	--	--
25.01.24	66.6	34.2	10.32	15.24	0.28	--	--	--	--	--	--	--
29.01.24	64.2	33.4	9.18	14.86	0.3	--	--	--	--	--	--	--
Avg	64.54	31.90	10.13	15.15	0.37	--	--	--	--	--	--	--
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 8th Nov, 2009 Gatt. Notification.

END OF REPORT

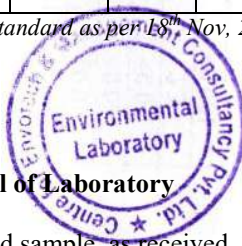
M. Raut

Authorized Signatory

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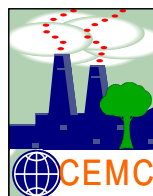


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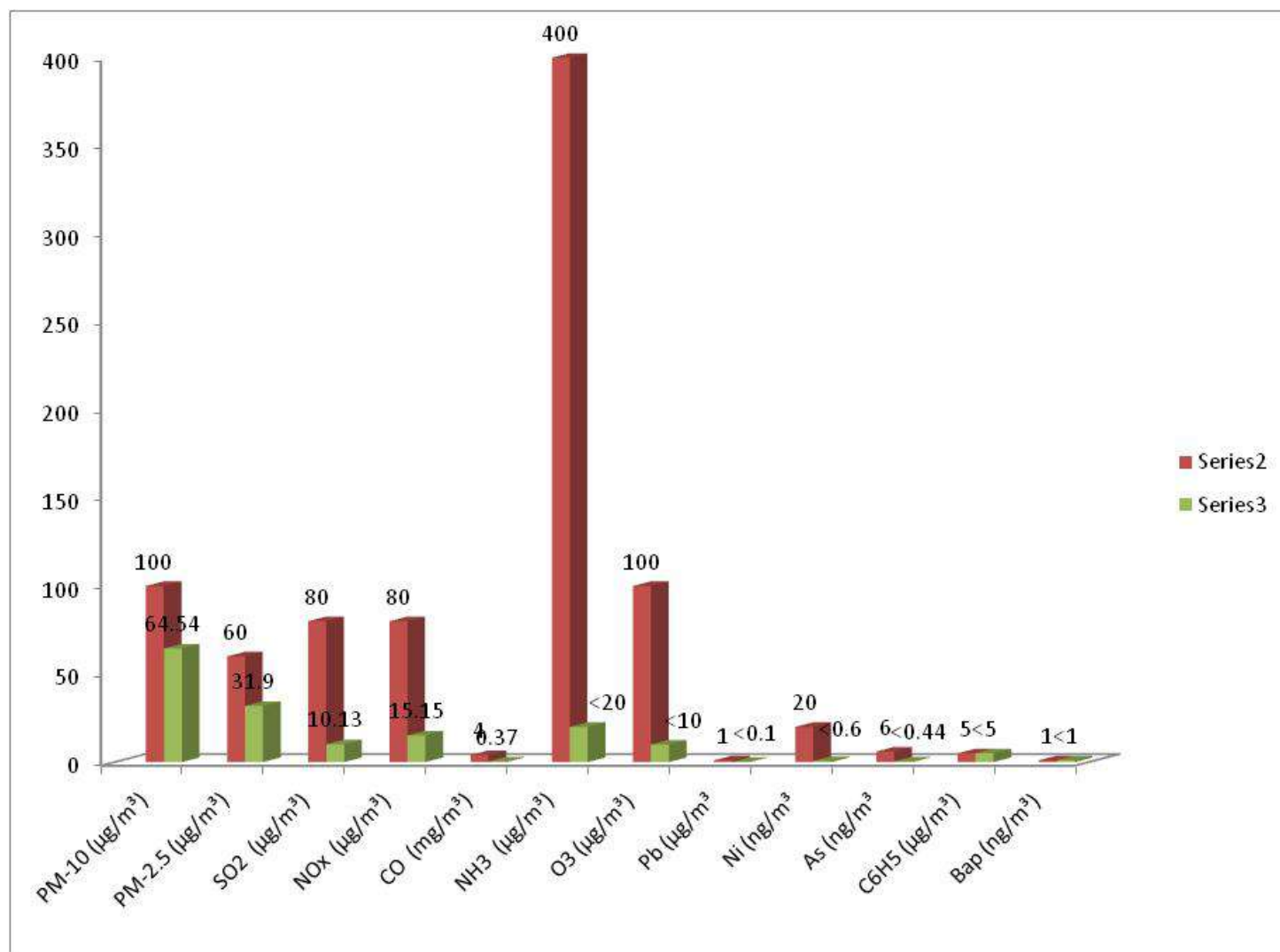
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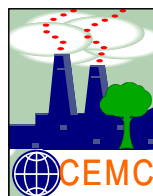
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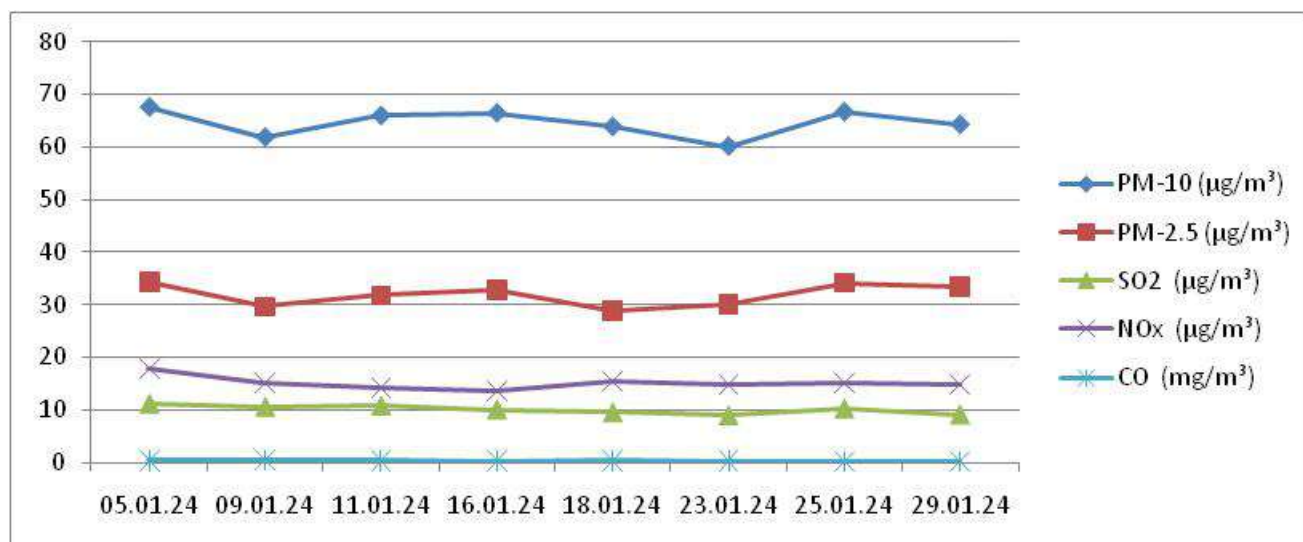
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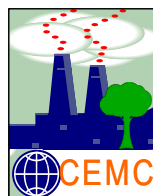
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Report no.-CEMC/TSSEZL/050224/A2

Issued Date-05.02.2024

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 Anadrome Office
Weather Conditions	Clear
Reference No.	CEMC-05022024A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.01.24	67.8	35.1	13.15	17.47	0.58	--	--	--	--	--	--	--
09.01.24	65.9	34.8	12.77	14.12	0.55	--	--	--	--	--	--	--
11.01.24	69.6	36.1	13.47	16.11	0.58	--	--	--	--	--	--	--
16.01.24	62.4	31.8	12.44	15.12	0.51	--	--	--	--	--	--	--
18.01.24	66.8	34.7	12.89	16.44	0.52	<20	<10	<0.05	<3.2	<0.1	<5	<1
23.01.24	61.5	31.4	10.14	15.47	0.44	--	--	--	--	--	--	--
25.01.24	60.4	33.2	11.62	17.12	0.38	--	--	--	--	--	--	--
29.01.24	59.8	30.8	9.18	15.42	0.32	--	--	--	--	--	--	--
Avg	64.28	33.49	11.96	15.91	0.49	--	--	--	--	--	--	--
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.

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Seal of Laboratory

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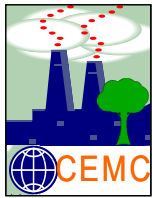
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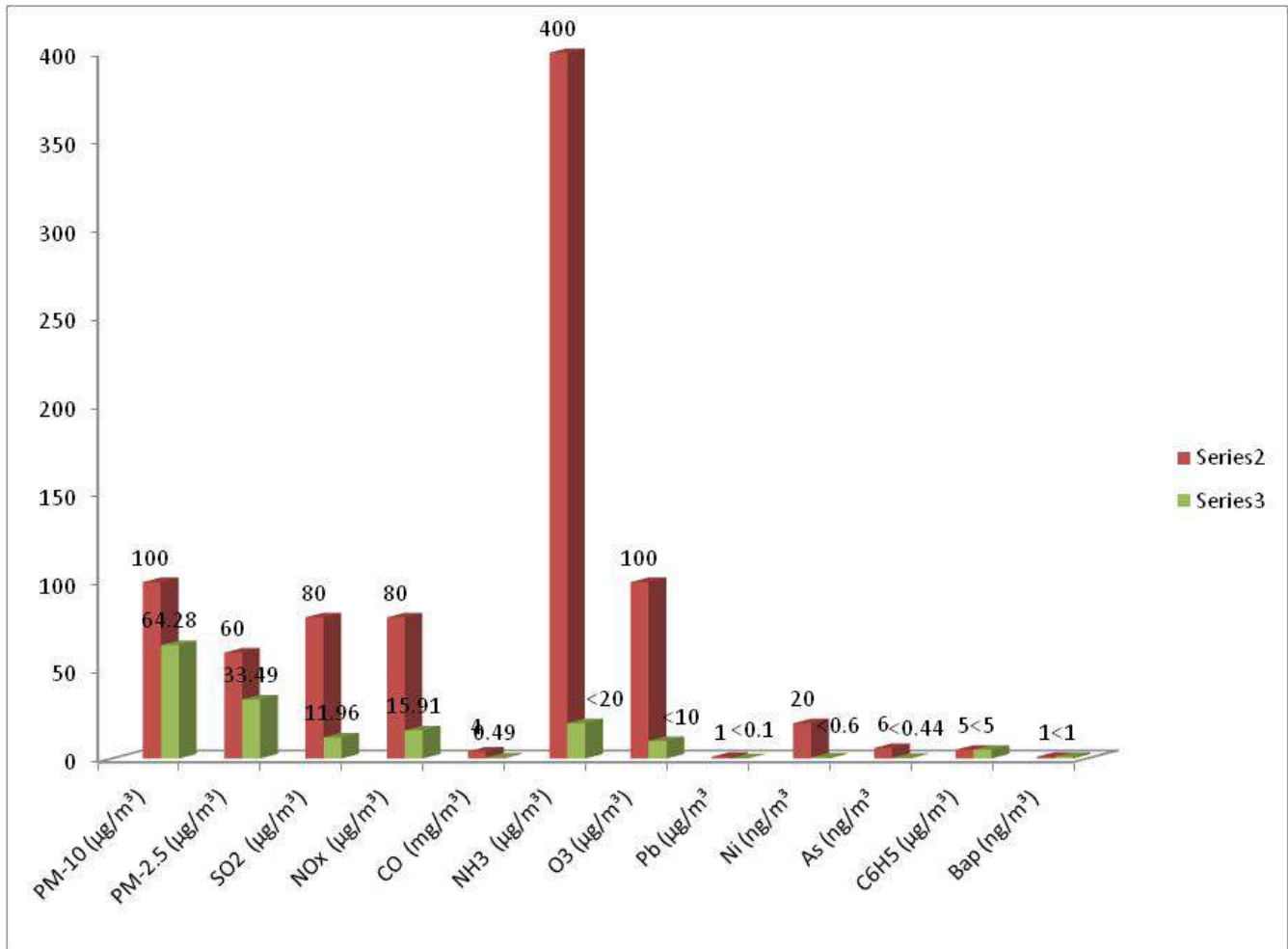
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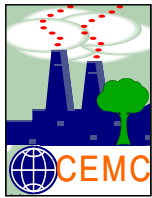
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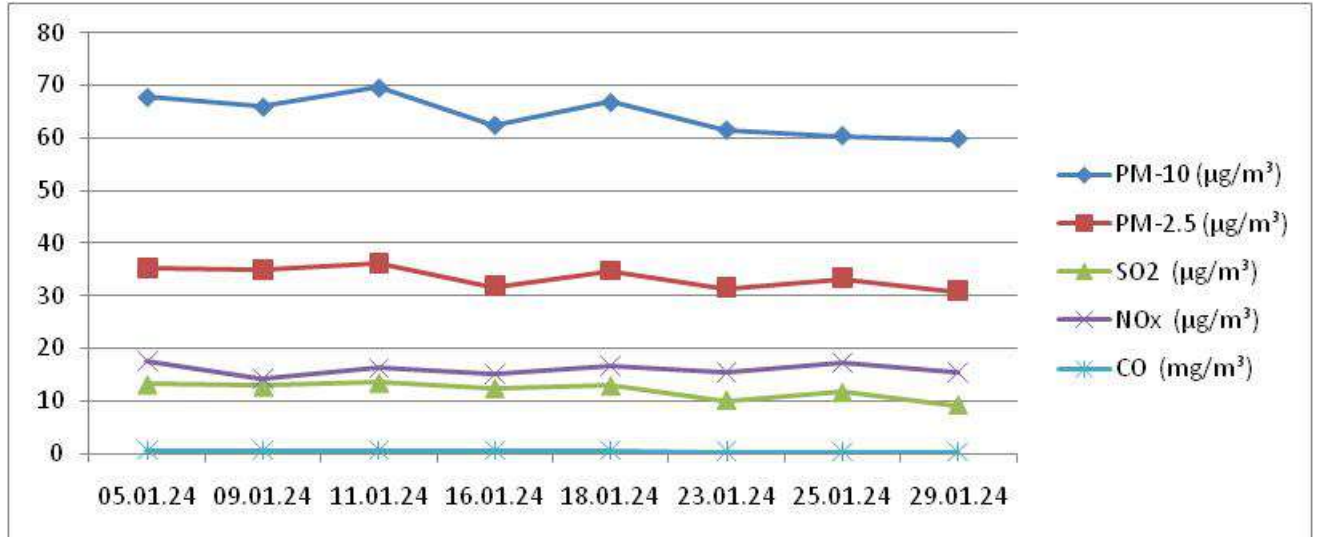
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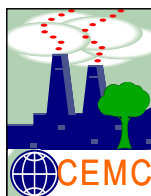
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Report no.-CEMC/TSSEZL/050224/A3

Issued Date-05.02.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

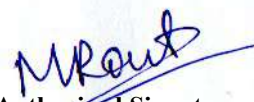
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-05022024A3
Instrument Used	Respirable Dust Sampler, 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)
05.01.24	62.9	34.7	10.11	14.48	0.29	--	--	--	--	--	--	--
09.01.24	59.4	35.9	9.98	13.12	0.36	--	--	--	--	--	--	--
11.01.24	65.4	36.4	10.15	14.44	0.42	--	--	--	--	--	--	--
16.01.24	61.8	34.9	9.89	15.58	0.39	--	--	--	--	--	--	--
18.01.24	60.8	31.4	10.41	14.87	0.41	<20	<10	<0.1	<0.6	<0.44	<5	<1
23.01.24	58.9	30.1	8.45	13.10	0.30	--	--	--	--	--	--	--
25.01.24	62.6	29.8	11.12	16.78	0.4	--	--	--	--	--	--	--
29.01.24	63.4	35.2	10.84	17.62	0.56	--	--	--	--	--	--	--
Avg	61.90	33.55	10.12	15.00	0.39	--	--	--	--	--	--	--
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


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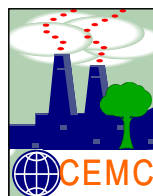
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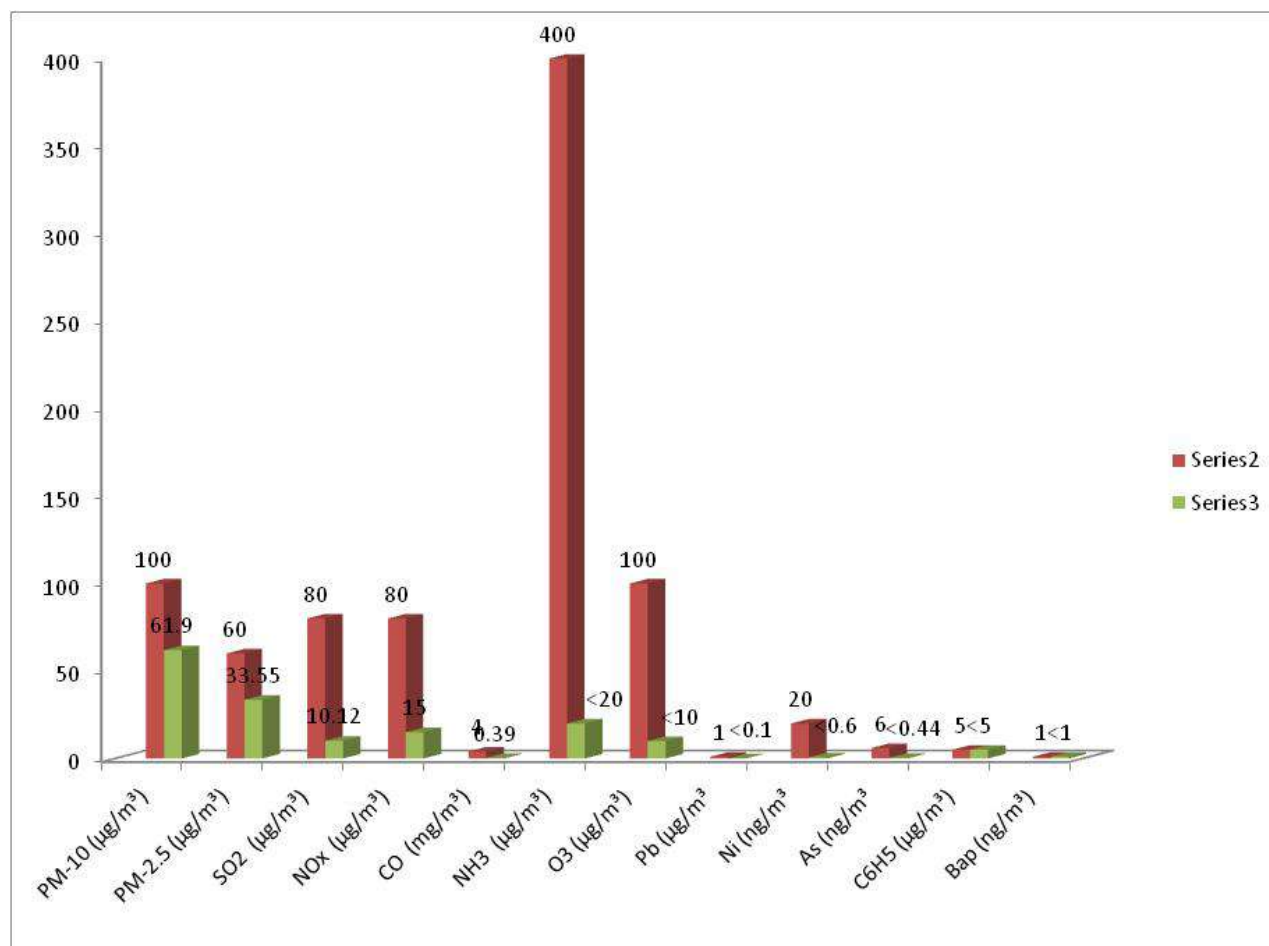
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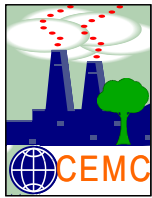
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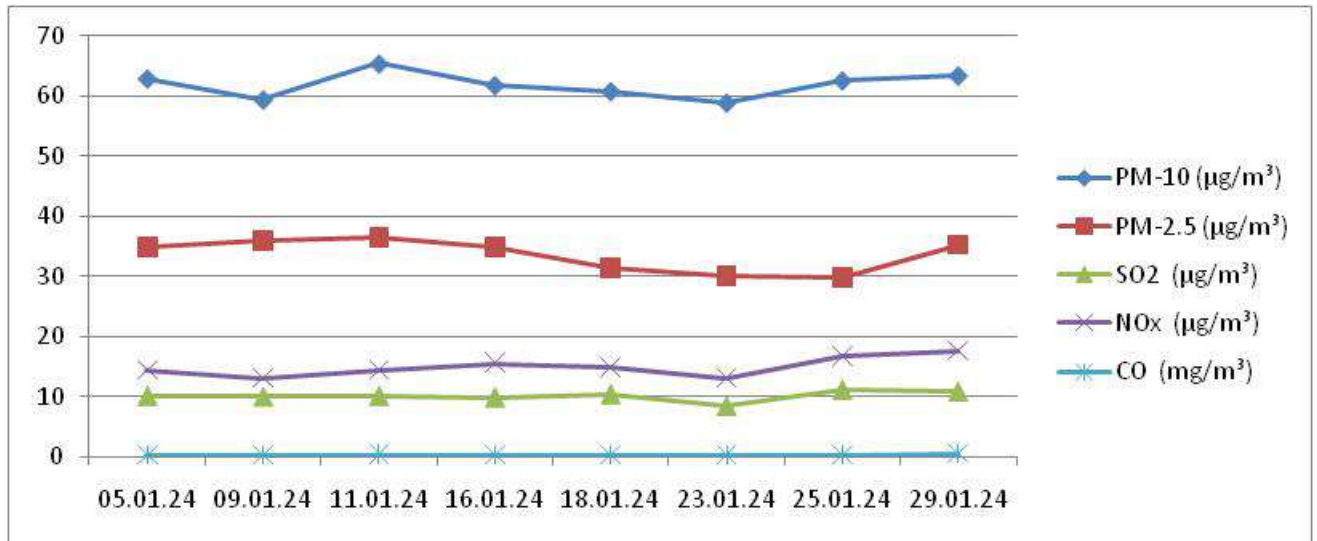
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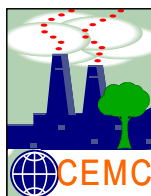
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Report no.-CEMC/TSSEZL/050224/W1

Issued Date-05.02.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 30.01.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 30.01.2024
Date of Analysis : 30.01.2024 to 05.02.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-05022024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	11
2	pH Value @ 25°C	--	6.5 to 8.5	7.15
3	Iron as Fe, Max.	mg/l	50	0.15
4	Chloride as Cl, Max.	mg/l	600	36.9
5	Dissolved Solids, Max.	mg/l	1500	171
6	Dissolved Oxygen, Min.	mg/l	4	5.2
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	34
11	Nitrate as NO ₃ , Max.	mg/l	50	3.2
12	Fluoride as F, Max.	mg/l	1.5	0.15
13	Anionic detergent, Max.	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	152
23	Faecal Coliform	MPN/100ml	--	15

*ND- Not Detected, MPN-Most Probable Number

END OF REPORT

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Seal of Laboratory

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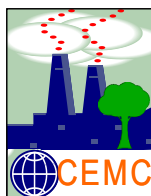
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Report no.-CEMC/TSSEZL/050224/W2

Issued Date-05.02.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 30.01.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 30.01.2024
Date of Analysis : 30.01.2024 to 05.02.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-05022024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	16
2	pH Value @ 25°C	--	6.5 to 8.5	7.48
3	Iron as Fe, Max.	mg/l	50	0.29
4	Chloride as Cl, Max.	mg/l	600	43.9
5	Dissolved Solids, Max.	mg/l	1500	168
6	Dissolved Oxygen, Min.	mg/l	4	5.0
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	32.9
11	Nitrate as NO ₃ , Max.	mg/l	50	1.3
12	Fluoride as F, Max.	mg/l	1.5	0.16
13	Anionic detergent, Max.	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	49
23	Faecal Coliform	MPN/100ml	--	9

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

END OF REPORT

M. Rout

Authorized Signatory

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Seal of Laboratory



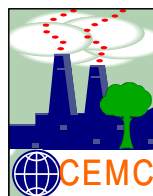
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Report No. - CEMC/ TSSEZL /050224/N

Issued Date-05.02.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-05022024N
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.
30.01.2024	Near Anadrone Office	64.9	58.3	61.6	57.6	52.8	55.2
30.01.2024	Near main Gate (Chamakhandi)	68.0	65.4	66.7	62.9	56.1	59.5

End of Report

NATIONAL STANDARD NOISE LEVEL

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


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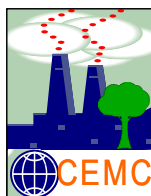


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Report no.-CEMC/TSSEZL/050224/A3

Issued Date-05.02.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

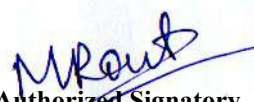
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-05022024A3
Instrument Used	Respirable Dust Sampler

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	18.01.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadron Office	18.01.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate (Chamakhandi)	18.01.2024	<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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Notes:

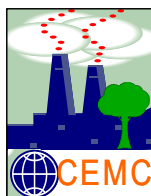
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Report no.-CEMC/TSSEZL/050324/A1

Issued Date-05.03.2024

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-05032024A1
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)
01.02.2024	60.5	30.1	9.02	14.87	0.33	--	--	--	--	--	--	--
05.02.2024	66.6	34.2	10.32	15.24	0.28	--	--	--	--	--	--	--
08.02.2024	64.1	34.1	9.88	14.86	0.32	--	--	--	--	--	--	--
12.02.2024	67.5	34.9	9.26	19.84	0.41	--	--	--	--	--	--	--
15.02.2024	61.7	29.6	10.69	17.17	0.36	--	--	--	--	--	--	--
19.02.2024	61.9	30.8	10.87	14.18	0.40	--	--	--	--	--	--	--
24.02.2024	66.4	32.9	9.14	14.59	0.31	<20	<10	<0.05	<3.2	<0.1	<5	<1
26.02.2024	63.8	28.8	9.58	15.48	0.40	--	--	--	--	--	--	--
Avg	64.06	31.93	9.85	15.78	0.35	--	--	--	--	--	--	--
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

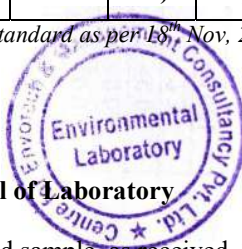
MR. R.N. Das

Authorized Signatory

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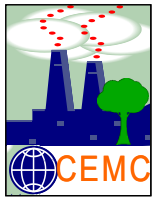
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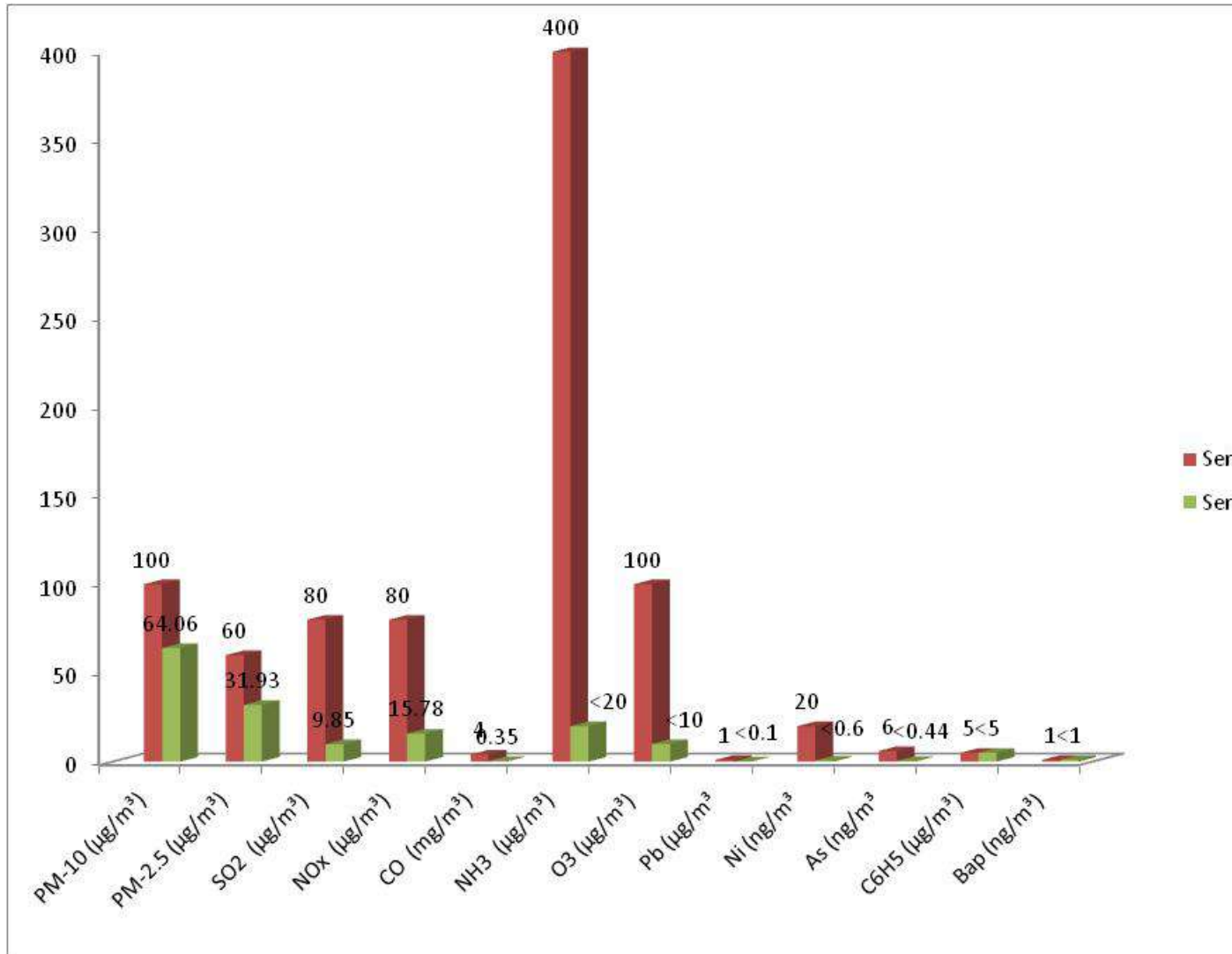
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of February-24

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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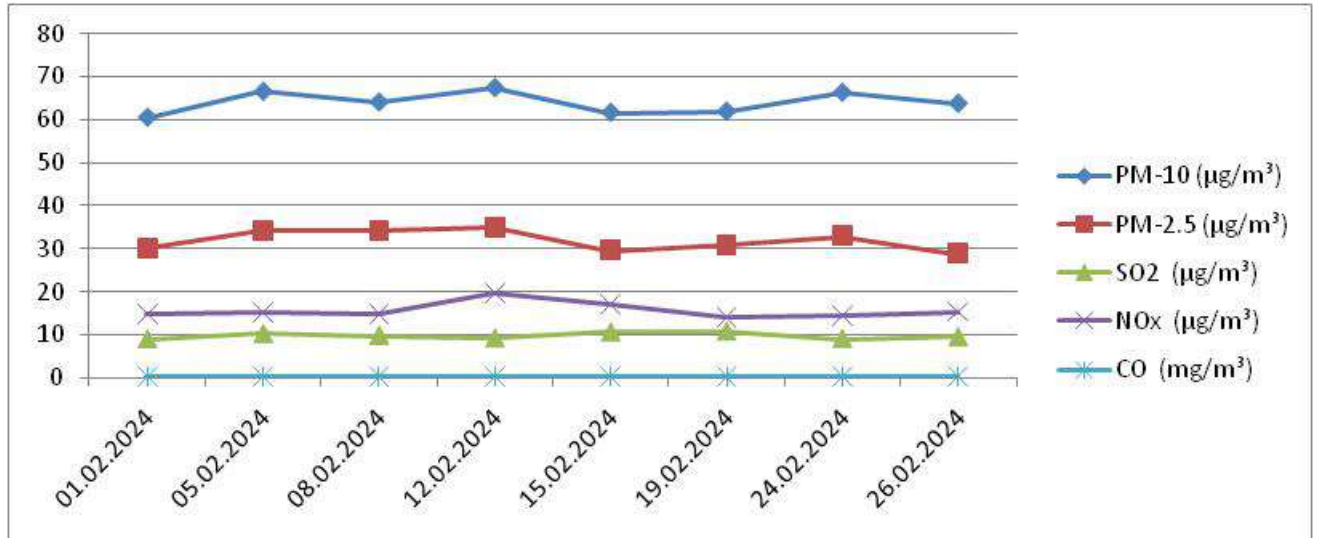
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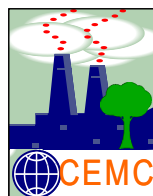
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Report no.-CEMC/TSSEZL/050324/A2

Issued Date-05.03.2024

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 Anadrome Office
Weather Conditions	Clear
Reference No.	CEMC-05032024A2
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)
01.02.2024	61.5	31.4	11.14	15.47	0.44	--	--	--	--	--	--	--
05.02.2024	60.4	33.2	11.62	17.12	0.38	--	--	--	--	--	--	--
08.02.2024	62.8	30.8	9.18	15.42	0.32	--	--	--	--	--	--	--
12.02.2024	67.4	34.1	12.15	17.47	0.48	--	--	--	--	--	--	--
15.02.2024	65.9	31.8	12.77	14.12	0.55	--	--	--	--	--	--	--
19.02.2024	62.6	36.1	13.47	14.11	0.48	--	--	--	--	--	--	--
24.02.2024	62.4	31.8	11.44	15.12	0.51	<20	<10	<0.05	<3.2	<0.1	<5	<1
26.02.2024	61.8	32.7	12.89	16.44	0.42	--	--	--	--	--	--	--
Avg	63.10	32.74	11.83	15.66	0.45	--	--	--	--	--	--	--
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.

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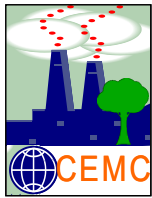
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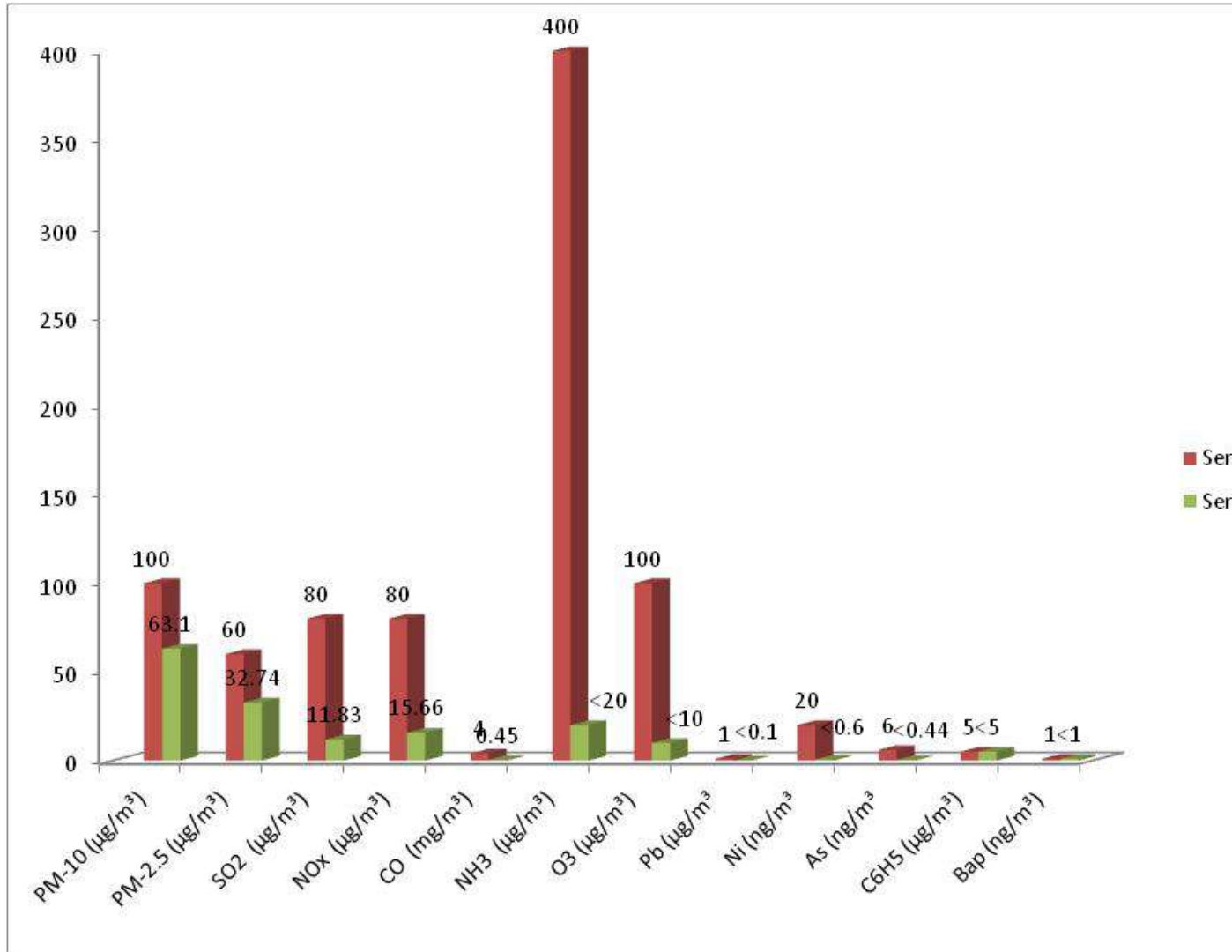
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This Graph is belongs to Station-02(Near Anadrone Office) For the Month of February-24

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

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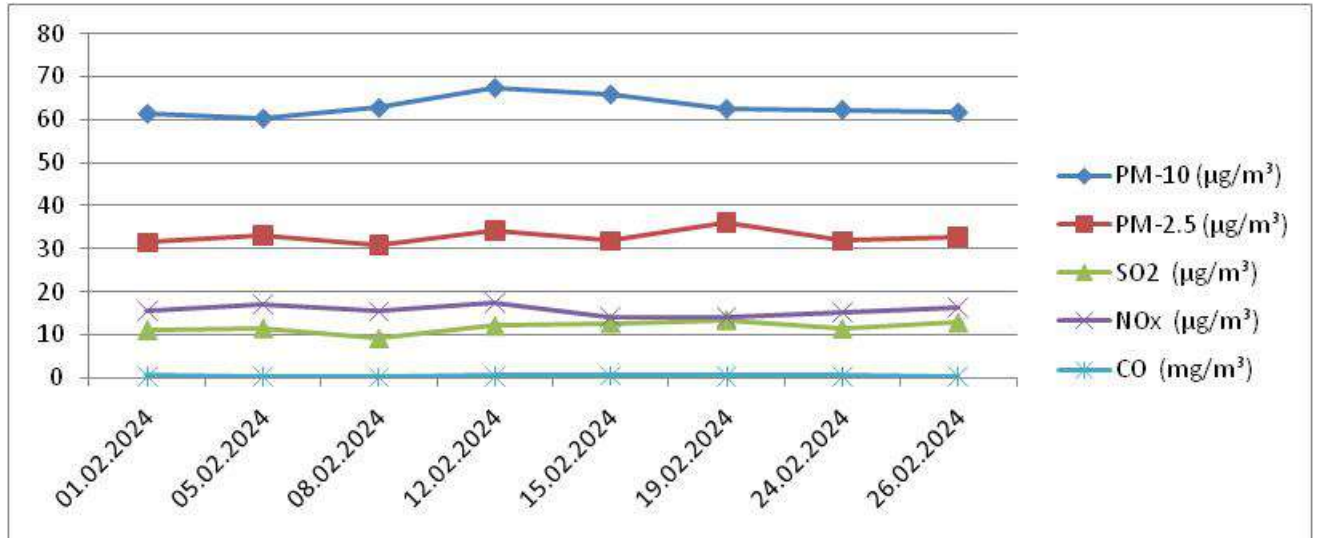
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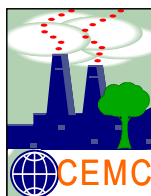
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Report no.-CEMC/TSSEZL/050324/A3

Issued Date-05.03.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

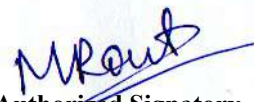
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Main Gate (Chamakhandi)
Weather Conditions	Clear
Reference No.	CEMC-05032024A3
Instrument Used	Respirable Dust Sampler, 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)
01.02.2024	62.4	33.4	9.41	15.87	0.31	--	--	--	--	--	--	--
05.02.2024	58.9	30.1	8.45	13.10	0.30	--	--	--	--	--	--	--
08.02.2024	62.6	29.1	11.12	16.78	0.41	--	--	--	--	--	--	--
12.02.2024	63.4	35.2	9.84	15.62	0.56	--	--	--	--	--	--	--
15.02.2024	60.1	34.7	10.11	14.48	0.31	--	--	--	--	--	--	--
19.02.2024	59.4	35.4	9.98	15.12	0.36	--	--	--	--	--	--	--
24.02.2024	61.7	36.4	10.15	15.44	0.32	<20	<10	<0.1	<0.6	<0.44	<5	<1
26.02.2024	61.8	34.1	9.89	16.58	0.37	--	--	--	--	--	--	--
Avg	61.29	33.55	9.87	15.37	0.37	--	--	--	--	--	--	--
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

Seal of Laboratory

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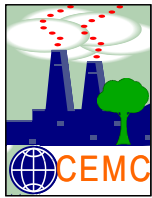
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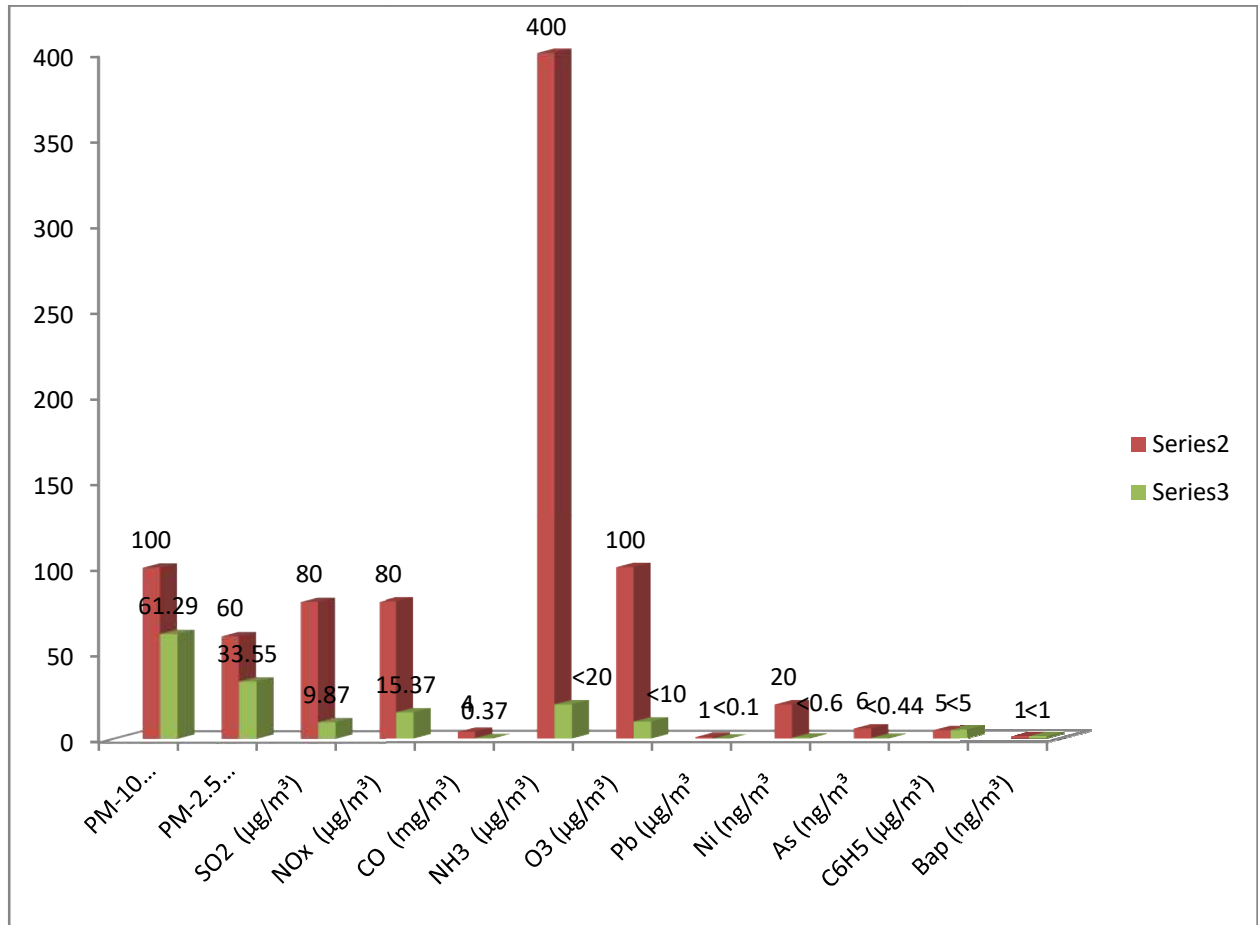
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NB-Series2 –Stands for Standard, Series3 –Stands for Result

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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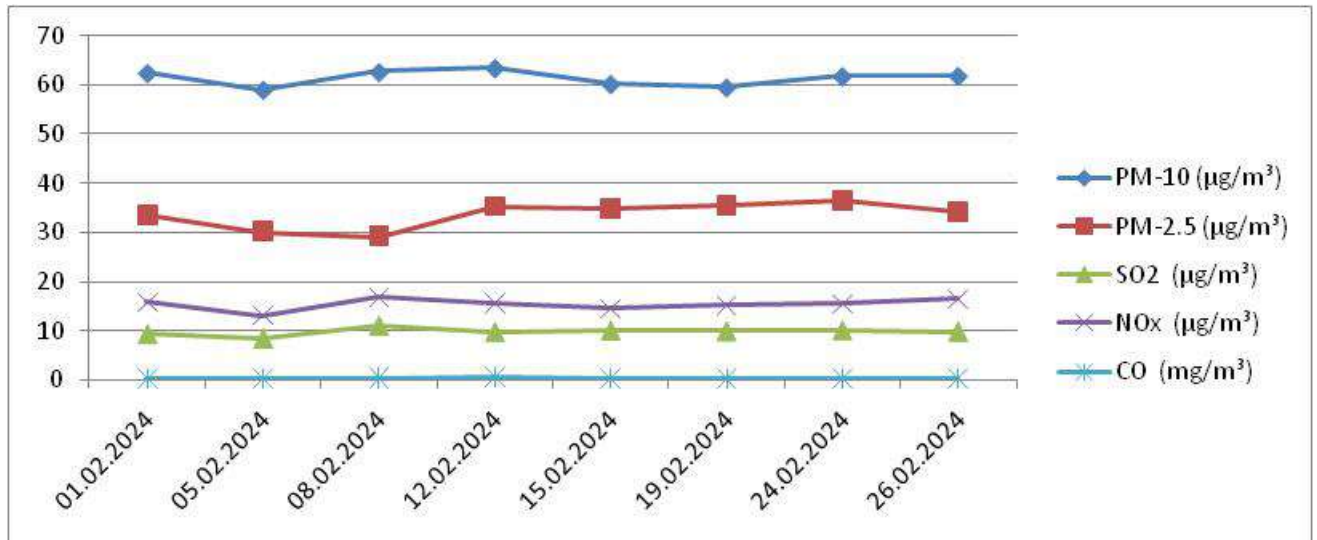
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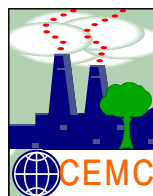
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Report no.-CEMC/TSSEZL/050324/W1

Issued Date-05.03.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 28.02.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.02.2024
Date of Analysis : 29.02.2024 to 05.03.2024
Sample Location : Khari Nalla, Upstream(SW1)
Reference No. : CEMC-05032024W1

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW1
1	Colour, Max.	Hazen	300	13
2	pH Value @ 25°C	--	6.5 to 8.5	7.09
3	Iron as Fe, Max.	mg/l	50	0.18
4	Chloride as Cl, Max.	mg/l	600	34.9
5	Dissolved Solids, Max.	mg/l	1500	175
6	Dissolved Oxygen, Min.	mg/l	4	5.6
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	38
11	Nitrate as NO ₃ , Max.	mg/l	50	3.4
12	Fluoride as F, Max.	mg/l	1.5	0.16
13	Anionic detergent, Max.	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	144
23	Faecal Coliform	MPN/100ml	--	12

*ND- Not Detected, MPN-Most Probable Number

END OF REPORT

Authorized Signatory

Notes:

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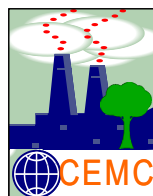
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Report no.-CEMC/TSSEZL/050324/W2

Issued Date-05.03.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 28.02.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.02.2024
Date of Analysis : 29.02.2024 to 05.03.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. : CEMC-05032024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	14
2	pH Value @ 25°C	--	6.5 to 8.5	7.55
3	Iron as Fe, Max.	mg/l	50	0.31
4	Chloride as Cl, Max.	mg/l	600	41.9
5	Dissolved Solids, Max.	mg/l	1500	154
6	Dissolved Oxygen, Min.	mg/l	4	5.4
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	30.5
11	Nitrate as NO ₃ , Max.	mg/l	50	1.1
12	Fluoride as F, Max.	mg/l	1.5	0.18
13	Anionic detergent, Max.	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	38
23	Faecal Coliform	MPN/100ml	--	7

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

END OF REPORT

M. Rout

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Seal of Laboratory

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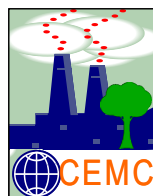
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Report No. - CEMC/TSSEZL/050324/N

Issued Date-05.03.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-05032024N
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.
28.02.2024	Near Anadron Office	65.5	57.4	61.45	58.9	51.9	55.40
28.02.2024	Near main Gate (Chamakhandi)	69.2	64.7	66.95	63.2	57.7	60.45

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:

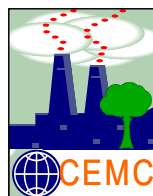
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Report no.-CEMC/TSSEZL/050324/A3

Issued Date-05.03.2024

SPECIAL AIR QUALITY MONITORING TEST REPORT

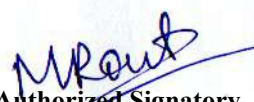
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Weather Conditions	Clear
Reference No.	CEMC-05032024A3
Instrument Used	Respirable Dust Sampler

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	24.02.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Anadron Office	24.02.2024	<20	<10	<0.1	<0.6	<0.44	<5	<1
Near Main Gate(Chamakhandi)	24.02.2024	<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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Notes:

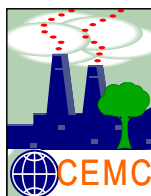
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Report no.-CEMC/TSSEZL/040424/A1

Issued Date-04.04.2024

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-04042024A1
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
04.03.2024	68.3	35.7	10.32	14.41	0.36	--	--	--	--	--	--	--
07.03.2024	64.8	33.9	10.65	15.56	0.52	--	--	--	--	--	--	--
12.03.2024	65.9	34.5	10.72	15.24	0.54	--	--	--	--	--	--	--
14.03.2024	62.3	32.4	9.34	14.58	0.46	--	--	--	--	--	--	--
18.03.2024	61.4	31.5	9.68	13.62	0.47	<20	<10	<0.1	<0.6	<0.44	<5	<1
21.03.2024	66.6	34.8	11.82	15.94	0.38							
25.03.2024	63.7	32.6	9.52	13.72	0.41	--	--	--	--	--	--	--
29.03.2024	65.3	33.2	10.28	14.38	0.48	--	--	--	--	--	--	--
Avg	64.8	33.6	10.3	14.7	0.45	--	--	--	--	--	--	--
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.

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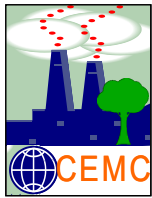
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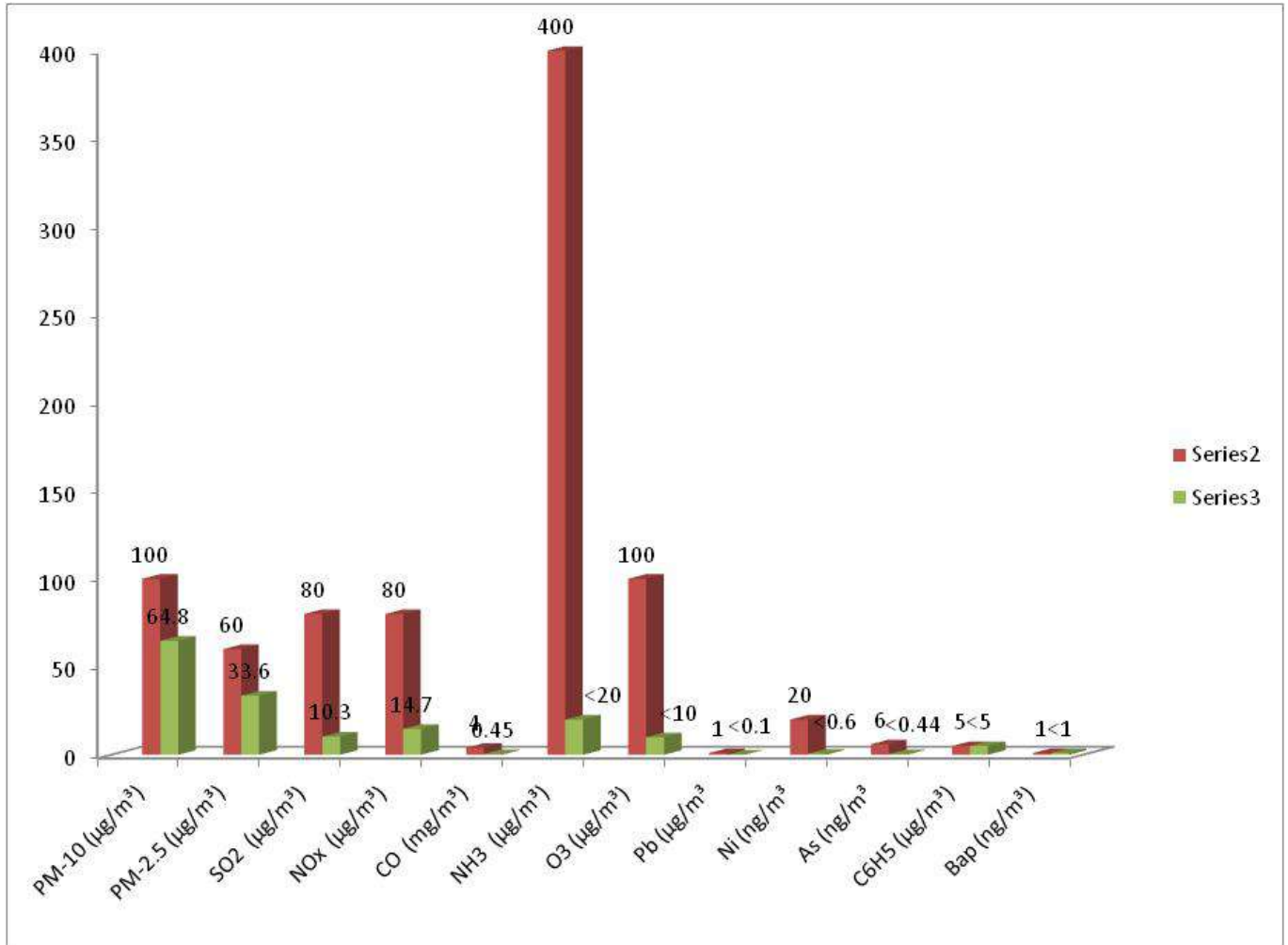
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This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of March-24

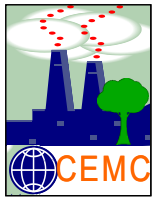
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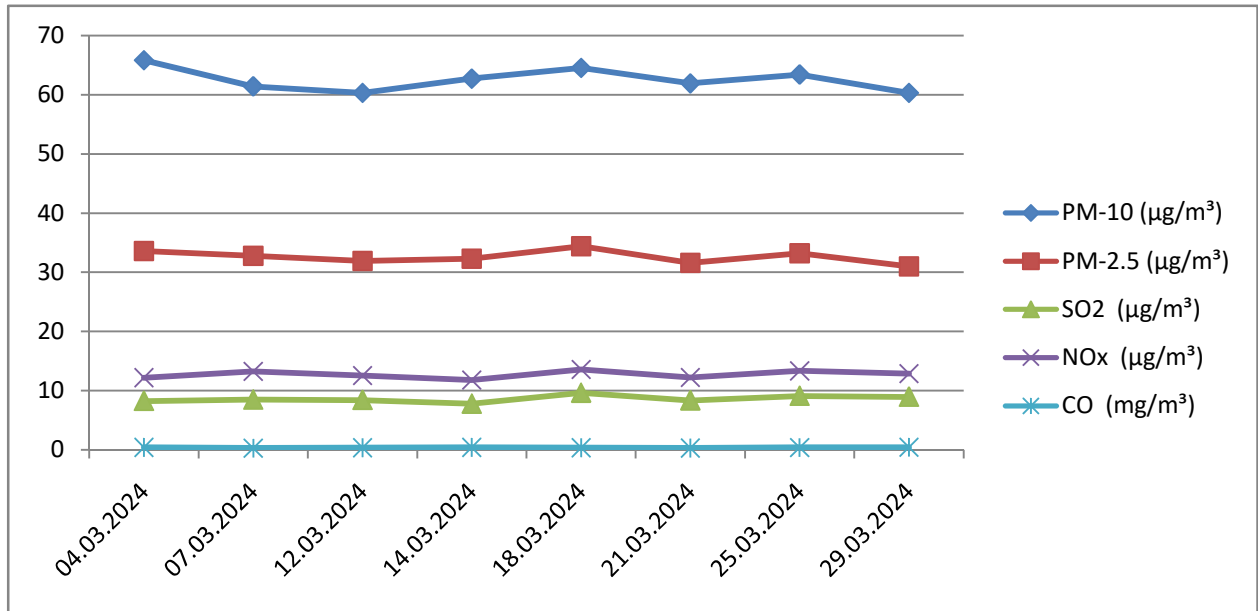
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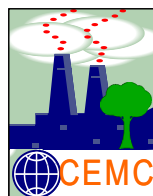
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Report no.-CEMC/TSSEZL/040424/A2

Issued Date-04.04.2024

AMBIENT AIR QUALITY MONITORING TEST REPORT

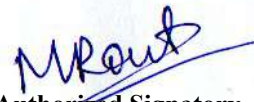
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/ Time	Monthly
Sample Drawn by	Mr. R.N Das
Sampling Location	Near Anadrone Office
Weather Conditions	Clear
Reference No.	CEMC-04042024A2
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

ANALYSIS RESULT

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
04.03.2024	65.7	34.6	10.52	14.18	0.58	--	--	--	--	--	--	--
07.03.2024	67.3	36.9	11.77	16.28	0.52	--	--	--	--	--	--	--
12.03.2024	66.8	34.4	9.23	14.46	0.50	--	--	--	--	--	--	--
14.03.2024	65.9	33.6	10.38	14.54	0.48	--	--	--	--	--	--	--
18.03.2024	68.4	35.3	12.71	16.76	0.53	<20	<10	<0.1	<0.6	<0.44	<5	<1
21.03.2024	69.1	36.5	13.24	16.91	0.51	--	--	--	--	--	--	--
25.03.2024	64.0	33.8	9.86	14.44	0.54	--	--	--	--	--	--	--
29.03.2024	66.6	34.6	11.72	15.38	0.55	--	--	--	--	--	--	--
Avg	66.7	34.96	11.2	15.4	0.53	--	--	--	--	--	--	--
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.

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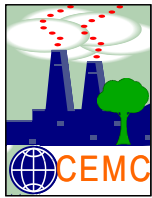
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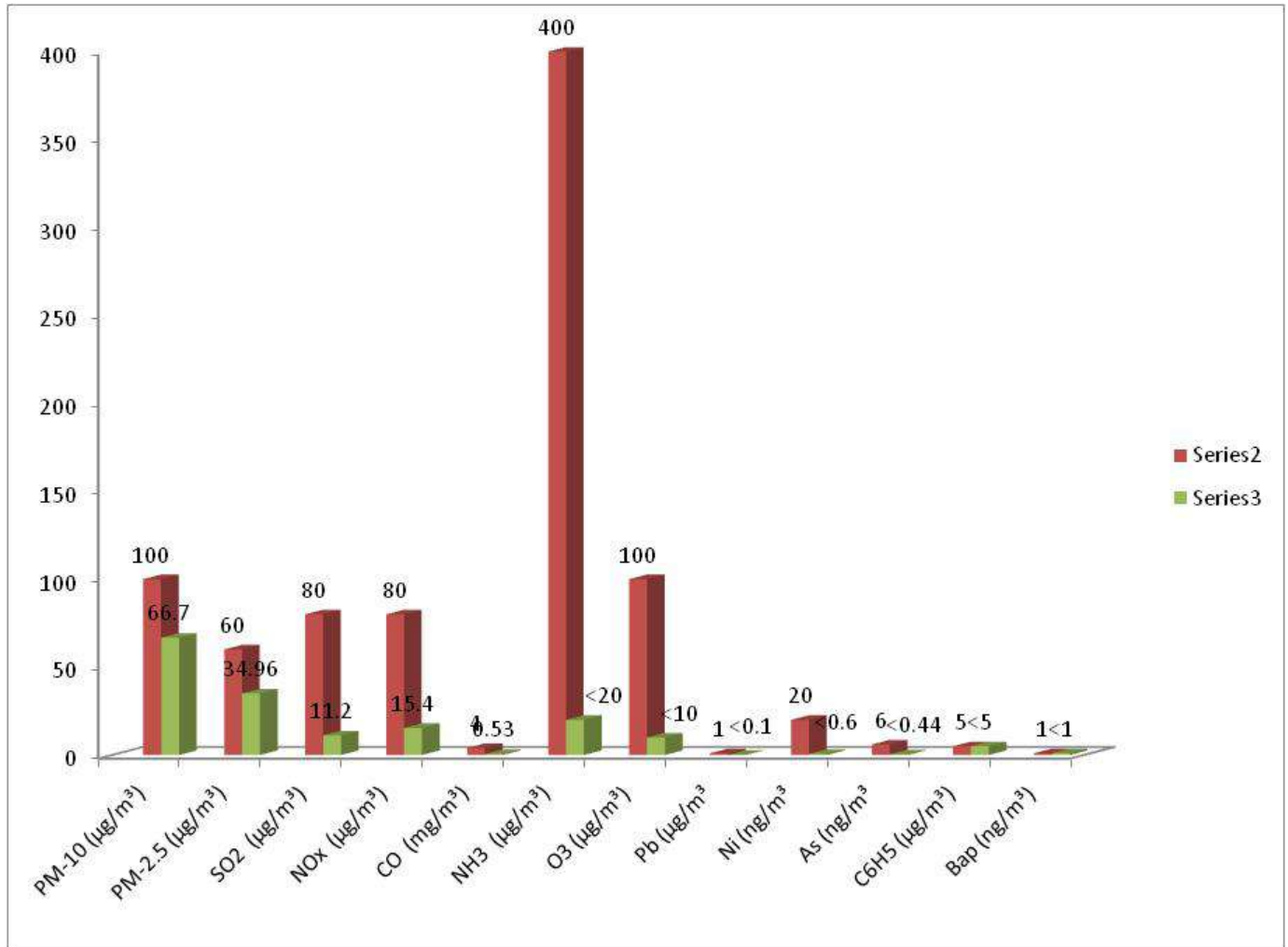
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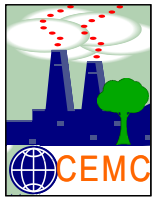
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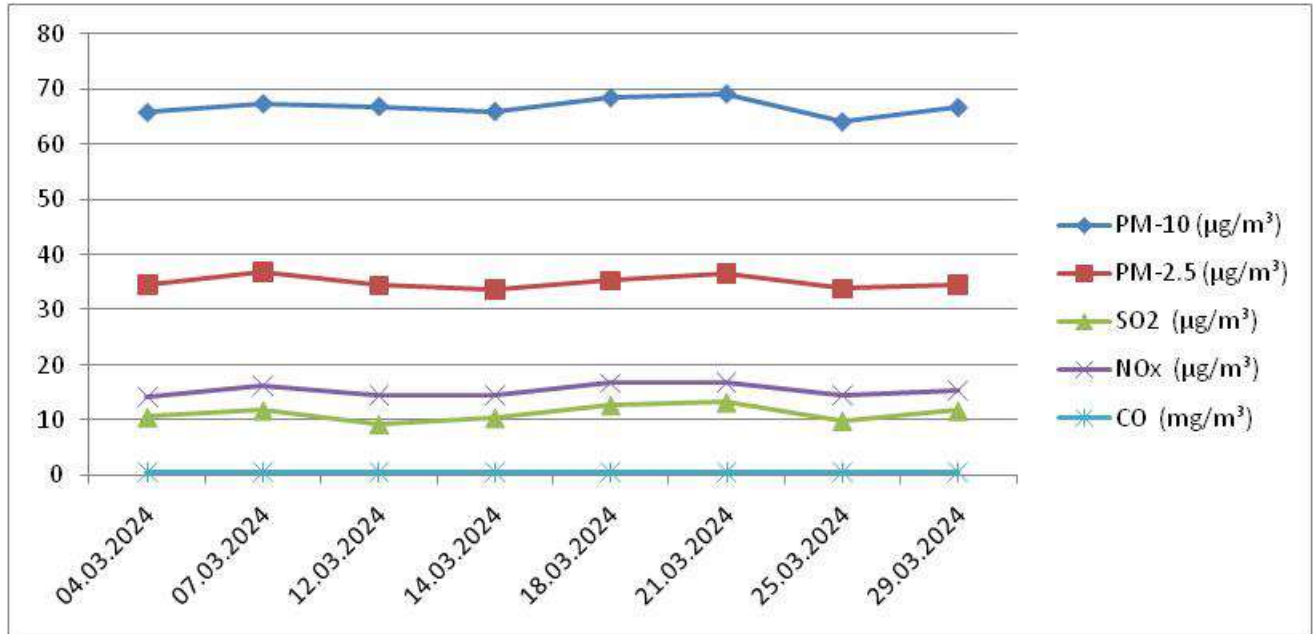
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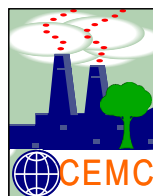
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Report no.-CEMC/TSSEZL/040424/A3

Issued Date-04.04.2024

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-04042024A3
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)
04.03.2024	65.8	33.6	8.28	12.18	0.44	--	--	--	--	--	--	--
07.03.2024	61.4	32.8	8.52	13.26	0.31	--	--	--	--	--	--	--
12.03.2024	60.3	31.9	8.44	12.54	0.38	--	--	--	--	--	--	--
14.03.2024	62.7	32.3	7.82	11.78	0.43	--	--	--	--	--	--	--
18.03.2024	64.5	34.4	9.66	13.56	0.39	<20	<10	<0.1	<0.6	<0.44	<5	<1
21.03.2024	61.9	31.6	8.38	12.22	0.33	--	--	--	--	--	--	--
25.03.2024	63.4	33.2	9.14	13.32	0.42	--	--	--	--	--	--	--
29.03.2024	60.3	31.0	8.98	12.86	0.45	--	--	--	--	--	--	--
Avg	62.5	32.6	8.7	12.7	0.39	--	--	--	--	--	--	--
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.

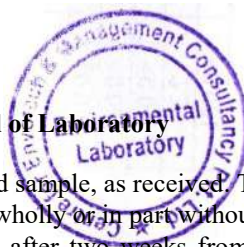
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Seal of Laboratory



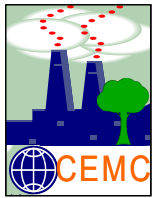
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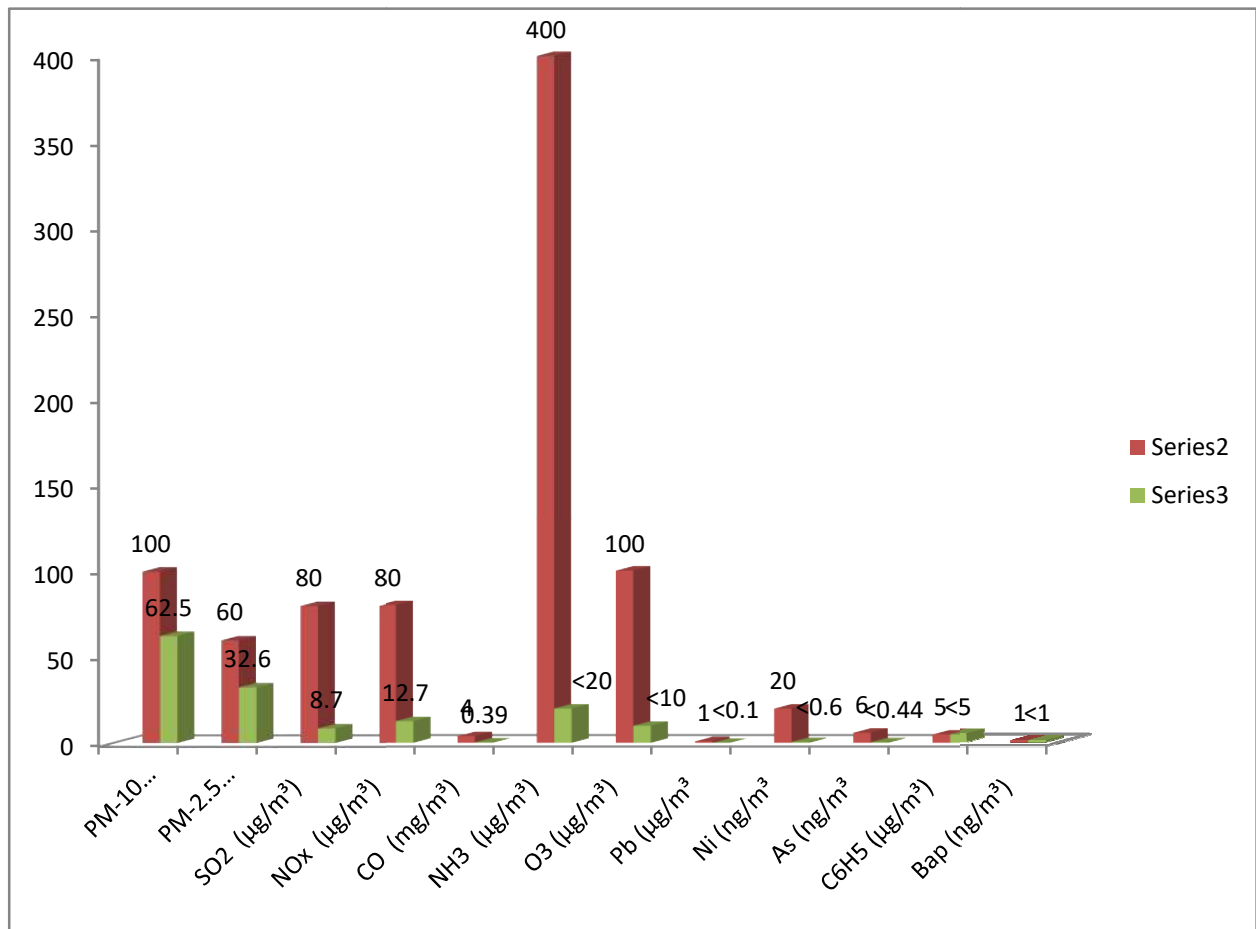
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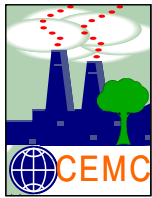
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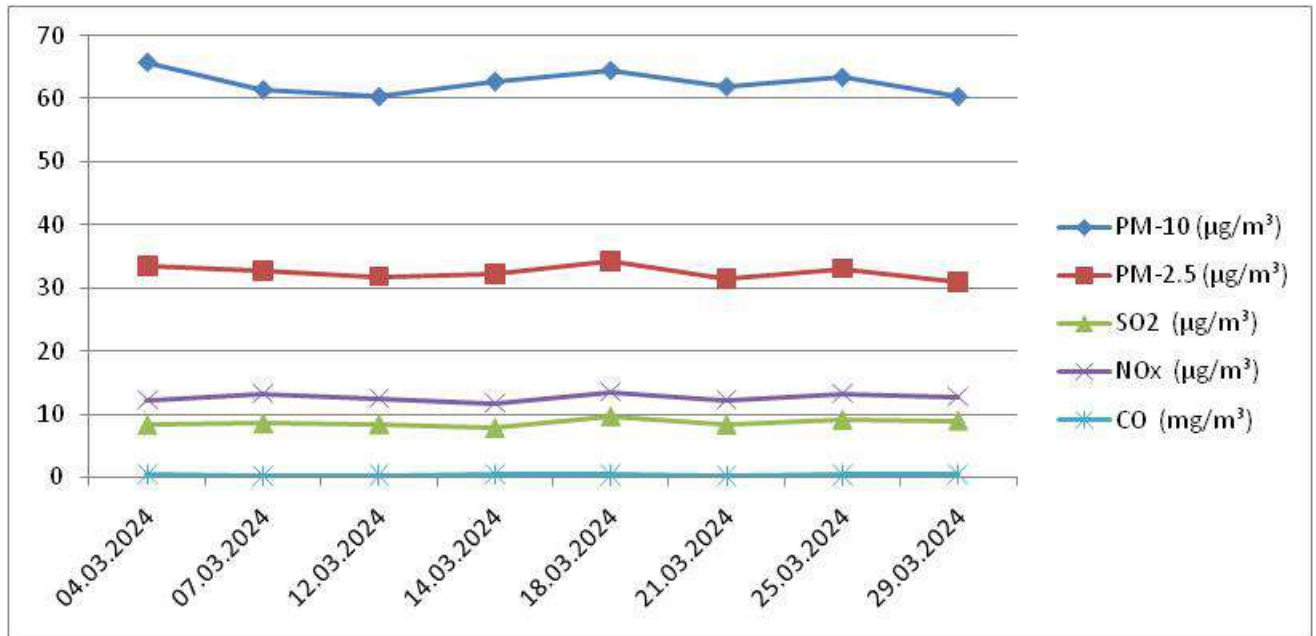
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E-mail: cemclab@yahoo.in



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An ISO 9001-2015 & OHSAS 45001:2018 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)



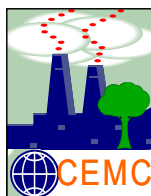
This Graph is belongs to Station-03(Near Main Gate (Chamakhandi)) For the Month of March-24

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.

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
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Report no.-CEMC/TSSEZL/040424/W1

Issued Date-04.04.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 29.03.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.03.2024
Date of Analysis : 30.03.2024 to 03.04.2024
Sample Location : Khari Nalla, Up stream(SW1)
Reference No. : CEMC-04042024W1

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	7.1
3	Iron as Fe, Max.	mg/l	50	0.17
4	Chloride as Cl, Max.	mg/l	600	33.9
5	Dissolved Solids, Max.	mg/l	1500	180
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	20.8
11	Nitrate as NO ₃ , Max.	mg/l	50	1.8
12	Fluoride as F, Max.	mg/l	1.5	0.16
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
23	Faecal Coliform	MPN/100ml	--	17

, MPN-Most Probable Number

END OF REPORT

MPRout

Authorized Signatory

Notes:

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Seal of Laboratory

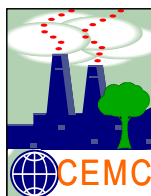
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Report no.-CEMC/TSSEZL/040424/W2

Issued Date-04.04.2024

SURFACE WATER QUALITY TEST REPORT

Name & Address of the Client : M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Date of Sampling : 29.03.2024
Sampling by : Mr. R.N Das
Date of Sample Received : 29.03.2024
Date of Analysis : 30.03.2024 to 03.04.2024
Sample Description : Surface Water
Sample Location : Khari Nalla, Down Stream(SW2)
Reference No. :CEMC-04042024W2

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Max. Tolerance Limit as per IS 2296 : Class C	SW2
1	Colour, Max.	Hazen	300	30
2	pH Value @ 25°C	--	6.5 to 8.5	7.22
3	Iron as Fe, Max.	mg/l	50	0.32
4	Chloride as Cl, Max.	mg/l	600	49.9
5	Dissolved Solids, Max.	mg/l	1500	180
6	Dissolved Oxygen, Min.	mg/l	4	5.5
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	30.2
11	Nitrate as NO ₃ , Max.	mg/l	50	2.6
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	380
23	Faecal Coliform	MPN/100ml	--	21

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

END OF REPORT

Authorized Signatory

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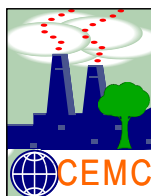
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Report No. - CEMC/ TSSEZL /040424/N

Issued Date-04.04.2024

Name & Address of the Client	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur
Reference No.	CEMC-04042024N
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.
29.03.2024	Near Anadrone Office	64.6	60.2	62.4	58.3	53.9	56.1
29.03.2024	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


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TATA STEEL FOUNDATION, GOPALPUR
FY'24 Budget V12

					BUDGET		UPTO 31st March'2024		
							EXPENSES		
Vertical	GL internal fund	Cost Description (Programmes)	Delivery Arm	TYPE	Budget A	Budget B	Budget A	Budget B	TOTAL
ETHNICITY	5080001	Tribal language and literature	TSF	One-time	23.88		0.000		0.000
ETHNICITY		Sub Total			23.88	0.00	0.000	0.000	0.000
Public Health	5020003	Healthcare infrastructure	TSF	Ongoing	1.61		1.320		1.320
Public Health	5020006	Cataract	TSF	One-time	10.00		6.900		6.900
Public Health	5020021	Kitchen Garden	TSF	One-time	25.44		24.820		24.820
Public Health	5020023	Prevention of Communicable Diseases (Public Health) VE	TSF	One-time	6.20		6.166		6.166
Public Health	5020025	Support in response to Govt./External request (Public He	TSF	One-time	10.45		10.443		10.443
Public Health	5020502	RISHTA	TSF	Ongoing	21.97		21.195		21.195
Public Health	5020029	Non-Communicable Diseases (NCD) Control Program	TSF	Ongoing	4.71		4.698		4.698
Public Health	5020026	Public Health Initiatives in Proximate Communities	TSF	Ongoing	122.62		78.812		78.812
Public Health		Sub Total			203.00	0.00	154.355	0.000	154.355
EDUCATION	5050002	Fellowship programme	TSF	Ongoing	3.63		52.710		52.710
EDUCATION	5050005	Support for Schools/Institutions (educational infrastru	TSF	Ongoing	20.75		0.840		0.840
EDUCATION	5050008	Learning Support Program	TSF	Ongoing	20.00		23.687		23.687
EDUCATION	5050013	Spoken English & Soft Skill Development	TSF	One-time	15.59		14.410		14.410
EDUCATION		Sub Total			59.97	0.00	91.647	0.000	91.647
ETHNICITY	5080015	Preserve & Promote , Literature , Art & Culture	TSF	One-time	2.49		1.700		1.700
ETHNICITY		Sub Total			2.49	0.00	1.700	0.000	1.700
LIVELIHOODS (AGRICU	5030001	Water Harvesting structures (ponds)	TSF	One-time	62.13		25.337		25.337
LIVELIHOODS (AGRICU	5030002	Agriculture Activities (SRI and dryland farming)	TSF	Ongoing	28.50		28.448		28.448
LIVELIHOODS (AGRICU	5030003	Promote second crops	TSF	Ongoing	30.00		26.774		26.774
LIVELIHOODS (AGRICU	5030004	Livelihood Agri allied, Livo, Diary, Poult	TSF	Ongoing	29.50		25.464		25.464
LIVELIHOODS (AGRICU	5030005	Capacity Building of Farmers Institutions	TSF	One-time	15.00		12.032		12.032
LIVELIHOODS (AGRICU	5030006	Agri resource centres, training and info. centres.	TSF	Ongoing	5.50		4.249		4.249
LIVELIHOODS (AGRICU	5030007	Enterprise Development Programmes	TSF	Ongoing	84.33		73.159		73.159
LIVELIHOODS (AGRICU	5030008	Promote horticulture in wastelands and dry land crops	TSF	One-time	5.00				0.000
LIVELIHOODS (AGRICULTURE)		Sub Total			259.96	0.00	195.463	0.000	195.463
LIVELIHOODS (Empow	5060001	Women Empowerment Programmes	TSF	Ongoing	27.00		30.445		30.445
LIVELIHOODS (Empow	5060002	Business Development of SHGs	TSF	Ongoing	37.00	1.24	46.612	1.237	47.849
LIVELIHOODS (Empow	5060003	Youth Empowerment	TSF	One-time	3.00				0.000
LIVELIHOODS (Empowerment)		Sub Total			67.00	1.24	77.057	1.237	78.294
LIVELIHOODS (SKILL D	5040001	Sponsorship to Trainees for various vocational courses	TSF	One-time	0.00				0.000
LIVELIHOODS (SKILL D	5040002	Skill Development Programmes (short term courses linke	TSF	One-time	5.00		1.500		1.500
LIVELIHOODS (SKILL D	5040008	Support girls in Nursing training TCS	TSF	Ongoing	0.00				0.000
LIVELIHOODS (SKILL D	5040014	JN Tata Technical Education Center Gopalpur	TSF	Ongoing	250.00	160.00	118.320		118.320
LIVELIHOODS (SKILL DEVELOPM		Sub Total			255.00	160.00	119.820	0.000	119.820
SPORTS	5100005	Organising sports tournaments and coaching camps	TSF	One-time	15.00		15.004		15.004
SPORTS	5100009	Organising outdoor and leadership camps	TSF	One-time	10.00				0.000
SPORTS		Sub Total			25.00	0.00	15.004	0.000	15.004
ENVIRONMENT	5070001	Plantation	TSF	One-time	4.91	0.00			0.000
ENVIRONMENT	5070003	Renewable Energy (Solar Light)	TSF	One-time	19.00	0.00	18.687		18.687
ENVIRONMENT	5070004	Protection of flora and fauna	TSF	One-time	0.00	104.24		54.930	54.930
ENVIRONMENT		Sub Total			23.91	104.24	18.687	54.930	73.617
RURAL INFRASTRUCTURE	5130001	Infrastructural support for Rural Development	TSF	One-time	58.40		25.910		25.910
RURAL INFRASTRUCTURE & URB		Sub Total			58.40	0.00	25.910	0.000	25.910
DRINKING WATER	5010003	Installation of piped drinking water supply system	TSF	Ongoing	37.63		11.010		11.010
DRINKING WATER	5010004	Installation and repair of deep bores	TSF	Ongoing	7.67		6.243		6.243
DRINKING WATER	5010005	Installation and repair of hand tube wells	TSF	Ongoing	5.11		0.614		0.614
DRINKING WATER		Sub Total			50.41	0.00	17.866	0.000	17.866
Volunteerism	5140022	Employee Volunteerism	TSF	Ongoing	0.00		0.000		0.000
Volunteerism		Sub Total			0.00	0.00	0.000	0.000	0.000
SPECIAL COMMITTME	5020020	Gopalpur hospital (Medica) – Odisha	TSF	One-time	116.73		76.345		76.345
SPECIAL COMMITTMENTS		Sub Total			116.73	0.00	76.345	0.000	76.345
HR PROJECT COST	Separate li	HR cost (Salary)	TSRDS	Over Head	0.00				0.000
HR PROJECT COST	Separate li	HR cost (Salary)	TCS	Over Head	0.00				0.000
HR PROJECT COST	Separate li	HR cost (Salary)	TSF	Over Head	233.60	10.00	211.381		211.381
HR PROJECT COST	Separate li	Administrative expenses	TSRDS	Over Head	0.05				0.000
HR PROJECT COST	Separate li	Administrative expenses	TSF	Over Head	38.55		33.398		33.398
HR PROJECT COST	Separate li	HR Overheads Cost	TSF	Over Head	7.70		3.114		3.114
HR PROJECT COST	Separate li	Capital Items	TSF	Over Head	0.00				0.000
HR PROJECT COST	Separate li	Communication	TSF	Over Head	0.00		0.948		0.948

HR PROJECT COST	5140021	IT expenses	TSF	Over Head	0.00				0.000
HR PROJECT COST	5140204	Safety	TSF	Over Head	2.00				0.000
HR PROJECT COST		Sub Total			281.90	10.00	248.841	0.000	248.841
Combat COVID-19 init	5020019.1	Others	TSF	One-time	36.93		36.284		36.284
COMBAR COVID INITIATIVES		Sub Total			36.93	0.00	36.284	0.000	36.284
		GRAND TOTAL			1464.59	275.48	1078.98	56.17	1135.15

DEPARTMENTAL ANNUAL UPDATES (CSR DIVISION)

Dept. Head Name : Mr. Rockey Martin	Month / Year: FY 2023-24
Department : TSF	Date : 28/03/2024

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

Key initiatives/activities of this FY 2023-24

Flagship Project - Jyoti Fellowship

As a part of its Affirmative Action policy, Tata Steel offers support to the needy and deserving students of SC/ST communities who are pursuing higher education. One such support being provided to meritorious SC/ST students through Tata Steel's Tribal Cultural Society since the mid-1970s was named as Jyoti Fellowship in 2004-05. Structured to cater to high school, intermediate, undergraduate, and post-graduate students from the economically backward SC/ST families, the fund obligated by the company has increased over the years. Jyoti Fellowship extends financial help to students from Kolhan region (East Singhbhum, West Singhbhum and Seraikela, Kharsawan districts),



Jamadoba and West Bokaro of Jharkhand; Sukinda, Bamnival, Joda, Gopalpur, Kalinganagar, Gomardih and Katamati of Odisha. Under Jyoti Fellowship, financial assistance is offered to enable them to accomplish educational and career aspirations. Tata Steel's Tribal Cultural Society identifies deserving candidates from operational areas of the company based on a merit test.

In FY, 2022-23, 298 students were awarded with **Rs.14,33,500.00 (Rupees Fourteen Lakh Thirty-Three Thousand Five Hundred Only)** through auto renewal process.

This FY' 23-24 TSF Gopalpur will be awarded scholarship to 544 students with an amount of Rs 49,41,000/-

TATA STEEL FOUNDATION, GOPALPUR UNIT										
FACT SHEET JYOTI FELLOWSHIP SCHOLARSHIP PROGRAMME FY' 23-24										
SL.No.	Class	Category	Male(M)	Female(F)	SC	ST	Total	No.of Student Awarded	Scholarship Amount (Rs.)	Total Amount (Rs.)
1	VII	Fresh	113	130	243	0	243	243	6000.00	1458000.00
2	VIII	Renewal	39	78	116	1	117	117	6000.00	702000.00
3	IX	Renewal	35	32	67	0	67	67	9000.00	603000.00
4	X	Renewal	2	25	27	0	27	27	9000.00	243000.00
5	XI	Renewal	9	13	22	0	22	22	18000.00	396000.00
6	XII	Renewal	6	17	23	0	23	23	18000.00	414000.00
7	Degree, 1st Year	Fresh	5	24	29	0	29	29	25000.00	725000.00
8	Degree, 2nd Year	Renewal	1	14	15	0	15	15	25000.00	375000.00
9	Degree, 3rd year	Renewal	0	1	1	0	1	1	25000.00	25000.00
	Total		210	334	543	1	544	544		4941000.00

Guidelines:

1. A student must belong to Scheduled Tribe or a Scheduled Caste.
2. Economic Group: Below Poverty Line (BPL-60%) and Above Poverty Line (APL-40%) for School level only.
3. Gender: Girls (25% reservation) for school level only.

Mode of Selection:

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

WHAT THE FELLOWSHIP OFFERS?

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

2. A computer tablet is given to toppers at the school and college level. Based on a certain cut-off percentage of marks, few students from each location are short-listed by Tata Steel foundation and are awarded with tabs with pre-loaded NCERT syllabus up to Std X.
3. All the students who clear the cut-off for the Class VII Merit test and are eligible to receive Fellowship also get a certificate and a gift which could be a solar lantern / a wristwatch/Tablet/Laptop.

Primary Learning Centre (PLC)

PRIMARY LEARNING CENTER	RUNNING CLASS FROM							SEX IN NUMBERS			CASTE IN NUMBERS				
	1st	2 nd	3rd	4th	5th	6th	7th	FEMALE	MALE	ST	SC	OBC	GEN	Total Students	
30 nos PLCs	216	127	113	119	128	112	131	502	444		412	332	202	946	

Program Details:

1. Running Primary Learning Centers:

In the past year, our primary learning centres continued to thrive, providing quality education to young minds. We expanded outreach, reaching more communities and ensuring access to foundational learning for children.



2. Organizing Teachers' Training:

A key focus was empowering our educators through comprehensive training programs. Workshops, seminars, and online courses enhanced teaching methodologies, ensuring our teachers stay abreast of the latest pedagogical techniques and maintain high standards in the classroom.



3. Celebration of Teachers' Day:

We celebrated Teachers' Day with enthusiasm, recognizing and appreciating the dedication of our educators. Various activities and events showcased the vital role teachers play in shaping the future. This not only boosted morale but also fostered a sense of community among our teaching staff.

4. Organizing Children Mela:

The Children Mela was a resounding success, providing a platform for our students to showcase their talents and creativity. Through art exhibitions, performances, and interactive games, the Mela not only entertained but also promoted holistic development, creating a joyful learning environment.



Outcomes and Impact:

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

Future Initiatives:

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

Computer & English Learning Centre through NIIT Foundation.

Background

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

Project Overview

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

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

Objective

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



TATA STTEEL FOUNDATION, GOPALPUR UNIT							
Computer & English Learning Centre through NIIT Foundation at Narendrapur							
Sl. No.	Program	Course Details	Duration	Eligibility	Target in FY 2023-24	Achieved Up to Jan-24	Remarks
1	Skillling Courses	Basic IT	3 months	Minimum 8th pass, 14 years of age, able to read and understand simple English	48	32	Program is Running
2		Advanced IT	3- 4 months	Minimum 12th pass, 18 years of age, able to read and understand simple English and have Basic Idea of Computer.	36	16	
3		Functional English	6 months	Minimum 8th pass, 14 years of age, able to read and understand simple English	24	12	
4	Awareness Courses	Digital Literacy, Cyber Security	20 hours	Minimum 12th pass, 18 years of age, able to read and understand simple English and have Basic Idea of Computer.	72	62	
	Total				180	122	

LIVELIHOOD AGRICULTURE - SUSTAINABLE LIVELIHOOD DEVELOPMENT

Ganjam district in Odisha is predominantly an agriculture-based economy. Negligible industrialization has taken place and hence manufacturing activities are rare in the region. People are mostly employed in agricultural activities as farmers (landowner or leaseholder). Many also work as agricultural labors. The main occupation of people in the area is agriculture (paddy as a mono crop) and Kewda (an aromatic plant called as screw pine) cultivation.



However, the population is mostly dominated by landless, marginal or small land holders. Kewda is a major source of income for people in TSF periphery. Income from Kewda has undergone a severe downfall in the market for the past two-three years. However, of late, a better market is emerging from this year.

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

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

For the past over eight years, Tata Steel foundation has been making earnest efforts to help people in adopting sustainable livelihood means in peripheral villages. With an objective to promote livelihoods, TSF extends support in the form of capacity-building trainings, exposure visits and critical inputs for agriculture and allied interventions, job-based skill development trainings and micro-entrepreneurship (non-farm) development.



While implementing such initiatives, the strategy of TSF is very clear from the beginning that whatever it would do, it would be in participatory approach and in no way 100% grant would be given to the beneficiaries for livelihood interventions. It was also clear that there would be no discriminations in the process and support between peripheral and displaced communities in this context, TSF succeeded in mobilizing people and generating contributions worth 30-

40% of the total cost of the projects including dairy, poultry, pisciculture and other than non-farm micro enterprises.

Geographical area of Agriculture & Allied interventions in Gopalpur unit

Sl. No.	Block	Nos. of GP	Nos. of village
1	Rangeilunda	8	21
2	Chhatrapur	14	68
3	Purusotampur	2	4
4	Ganjam	8	30
5	Rambha & Gopalpur (NAC)		2
6	Hinjilikatu	7	12
7	Aska	3	5
8	Sheragad	7	24
9	Kukudakhandi	1	1
	Total	50	167

PROMOTION OF SYSTEM OF RICE INTENSIFICATION (SRI):

With an aim to increase the production and productivity of paddy of farmers in its operational area, Tata Steel Foundation started promoting of SRI (System of Rice Intensification) and line transplanting since from the year 2014-15. During 2023-24, a total of 11030 acres (17500 farmers) was brought under SRI paddy cultivation.

To Increase the income of farmers through diversified farming has been introduced in kharif season with cultivation of vegetables in 2611 Acre, Maize in 750 acre, vegetable in 2611 Acre, foot yam in 300 Acre & Betel vine in 50 Acre respectively associated with 17500 farmers during Kharif 2023-24

Key Highlights:.

1. PROMOTION OF FARM MECHANIZATION:

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



2. DISEASE PEST MANAGEMENT THROUGH BIOLOGICAL METHOD:

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



Way forward:

- Scaling up of promotion of System of Rice Intensification programme and reaching out 20,000 famers in the next two years.
- Promotion of cultivation of second crops like oilseeds, pulses, vegetables, maize, Betel vine, Foot yam and other viable new crops to increase the farm income by using residual moisture.
- Carry forward the outcome of the project and scale up the interventions through farmers' network with different government departments, agencies and institutions.

3. RESULT DISCUSSION:



The Crop cutting experiments have been undertaken in the randomly selected field of farmers of different villages in presence of ADM, Chatrapur, Government line departmental officials like Block Agriculture Officer (BAO), VAWs, Revenue Officers and Panchayat Representatives in the paddy field of different varieties of randomly selected (5X5) sqm size patch and crop cutting took place in the treated paddy field. The farmer s undertaken line transplanting and applied bio-fertilizer PSB and Azosparillium in the treated plot and also had used Yellow card and Pheromone Trap for restricting disease infestation. The average yield increased in a treated plot against a traditional plot method is 28%

PROMOTION OF PULSES, OILSEEDS AND VEGETABLES

With an aim to increase the cropping intensity and getting additional income by using the residual moisture in the soil during rabi season in its periphery villages, Tata Steel Foundation, started promoting cultivation of Green Gram, Groundnut and vegetables since 2016 through awareness meeting and training. A total of 12520 acres (12520 farmers) was brought under cultivation of second crops (Green Gram in 4450 acres, Groundnut in 1250 acres, Black Gram 1200 acre, Rabi vegetable 5300 acre and maize 320 acre) in 167 villages of 08 blocks & Rambha NAC of Ganjam district.



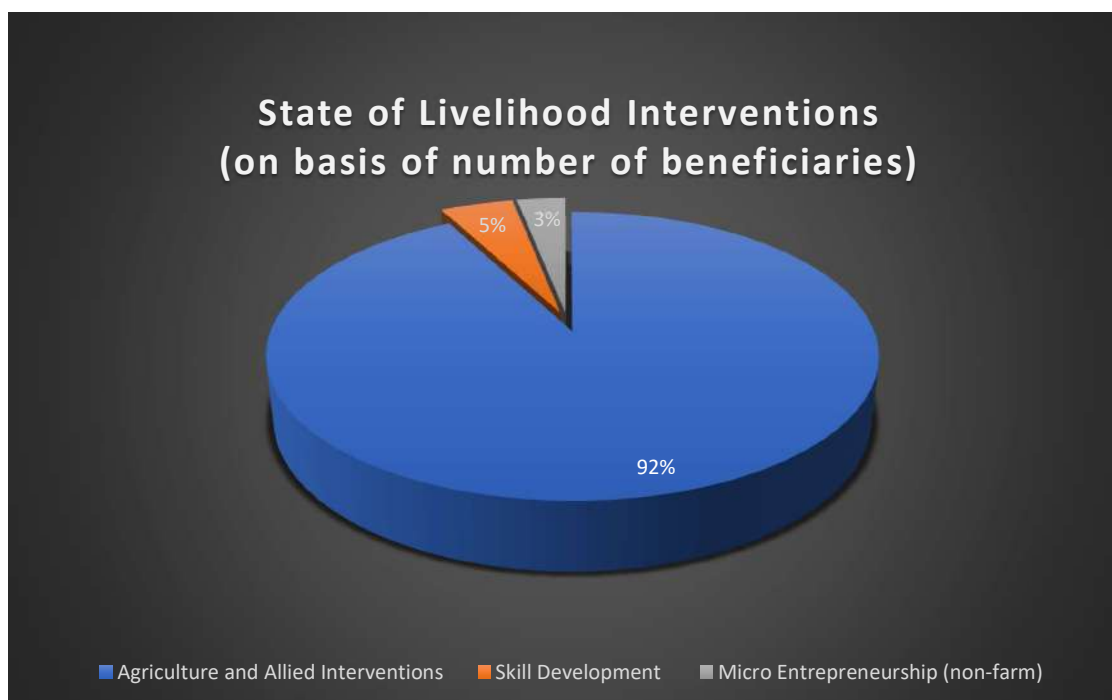
Key Highlights:



1. A total of 17,500 farmers and 32 community resource persons have been trained on packages of practices and use of modern technology to increase the crop yield. Both on farm and classroom trainings have been subsidized in collaboration with the Government Agriculture Department and Krishi Vigyan Kendra.
2. About 52 farmers from 44 villages of TSF vicinity have been taken on exposure visits to Maa Mati Training Center, Kothabadi, Puri to see the best practices at research plot on horticulture.
3. Various capacity building programs on IPM (Integrated Pest Management) and INM (Integrated Nutrition Management) have been undertaken with a special focus on Community Resource Persons (CRPs) and farmers.
- 4.

Challenges:

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



DAIRYDEVELOPMENT

(A Move towards Sustainable Alternative Livelihood)

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



The objective of providing support to farmers in the purchase of cross breed milch animal was to link the farmers with OMFED (**Odisha State Cooperative Milk Producers Federation Ltd**) where the farmers can sell milk 365 days in a year and can avail right price of their milk based on SNF and fat parameters. Apart from milk

collection, OMFED also conducted cattle health camp at each society in a three-month interval, providing cattle feed, mineral mixture at a subsidized rate to farmers, promotion of Azolla cultivation, fodder cultivation etc.

TSF, Gopalpur, in collaboration with OMFED, started two milk producers' societies at New Sindhigaon Milk Society at Tata Rehab Colony and Brajanagar Milk Society, Brajanagar, in FY 2014-15. On the success of both the societies, TSF opened a new milk society at Narendrapur village in the FY 2015-16 and FY 2016-17 at Sindurapur and New Laxminarayanpur. Under the flagship programme, NDDB (National Dairy Development



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Board) is providing an incentive Rs 2000 – 2,500 pm to the five society secretaries for milk collection, record keeping and sample testing. A 2000-liter capacity of Bulk Milk Cooler has been established at New Sindh Gao n, in collaboration with OMFED 7 NABARD in FY 2016-17. Milk collected from the societies Narendrapur, Sundarpur, NewSindhigaon, New

Laxmi Narayanpur is stored at BMC and from there it is transported to OMFED, Ankushpur factory, through their tankers.

Milk Collection: 6,48,619 liters as on 31st Jan 2024 through 12 nos Milk Collection Centers & MPCS

MILK ATM

The first-ever pasteurised and vitamin-added milk vending machine of Odisha was opened near Gate Bazar in Berhampur on the occasion of Rath Yatra ,04th July,2019, Thursday.

Move forward direct marketing-MILK ATM



Seeing the popularity and direct benefit to the farmers .through milk ATM in other states, in collaboration with Greater Ganjam Gajapati Co-operative Milk Producers' Union (GGGMU), plans were made to set up 05 milk ATM parlors in the Berhampur Town, as a pilot project with the objective to provide quality milk round the clock 24 X 7 and 365 days in a year.

Accordingly, we have constructed a milk ATM building of Size 10 X 12 Sqft in the campus of GGGMU i.e. in Berhampur Town, Gate Bazar Road and the ATM machine has been installed by GGGMU. The Operation is being

done by the GGGMU and the milk will be sold @ Rs.50/- ltr with minimum 250 ml to maximum 5ltr/time. Similarly, considering the demand of consumer, recently with the support of Tata Steel Foundation, Greater Ganjam Gajapati Milk Union & NABARD has taken an initiative of delivering clean and quality gold milk having Fat-4.0% & SNF-8.5% to the citizens of Ganjam district through Milk ATM services. On 15th February 24 the Milk ATM (500 liter capacity) at Hinjilicut was inaugurated by Dr Sadhansu KK Mishra, CGM, NABARD Odisha Regional Office, BBSR in presence of Dr Satya Ranjan Panda, GM, NABARD, Dr Bimalendu Ray, MD, OMFED, Sri Niranjan Bhuiyan, DGM, NABARD, Dr Sanjiv Mishra, DDM, Ganjam, Sri Priyabrat Taria, GM, GGGMU & Sri M. Ganapati, President, GGGMU along with Govt Officials and SEZ team.

The profit left behind the sale price of milk will directly go to the registered members of the milk society and some amount in the form of incentive to the secretary of the operating society.

The milk sale through the ATM has been pasteurized and fortified with Vitamin A & D with the rate of Rs. 50/ ltrs and it will available for 24 hrs /day with addressing the malnutrition and bone density of pregnant women and children.

Training & Dairy Farmers Exposure visit to OMFED

A two-days training and exposed farmers to OMTDC & ICAR-CIWA, focusing on dairy development and Climate Resilience practices with an objective to enhance additional income through dairy development, cross-breed cow & cattle management, and fodder development, black Bengal goat farming, integrated models, hydroponic fodder cultivation, and drone demonstrations of INM & IPM applications, enriching their knowledge for sustainable agricultural practices and climate resilience held from 10th-11th Jan 224

TSF Out location visit to Gopalpur Unit:

- Participated in District level Exhibition (Matshya O Prani Sampad Mela-2023), Ganjam and displayed 02 nos. live stall demonstration on Integrated Farming models showcasing the modern agriculture, livestock & fishery activities undertaken by TSF. The stall was designed offer farmers a firsthand glimpse of the latest technological advancement and innovative practices in farming. Three marginal famers were felicitated from our periphery in both livestock & fishery sector by the ARD Department



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



PISCICULTURE PROGRAMME, TATA STEEL FOUNDATION, GOPALPUR



Bhubaneswar.

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

Following the success of the pilot project, it was scaled up to 150 ponds in 62 villages. In the first two years, the fish farmers were provided capacity building trainings and critical input support (feed, medicines etc). Onwards, they were left to continue it on their own investment. TSF only provide technical support and critical inputs like medicine, plankton growth promoters whenever required/as prescribed during sample netting/sample checking.

Key highlights

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

Way forward:

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

Climate Resilience Agriculture through Protected cultivation:

Rose, especially the Dutch variety, has a lot of commercial importance. They are exclusively grown in Polyhouses in India with its importance garnering popularity since the last few years. But, the concept of rose cultivation in Polyhouse is very new in the eastern part of the country. To promote alternate modes of livelihoods, TSRDS facilitated and provided training at Horticulture Training Centre at Pune apart from the necessary financial support for the setup. The started polyhouses produce roses since from 2018.



Climate Resilience Agriculture through Betel vine cultivation:

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

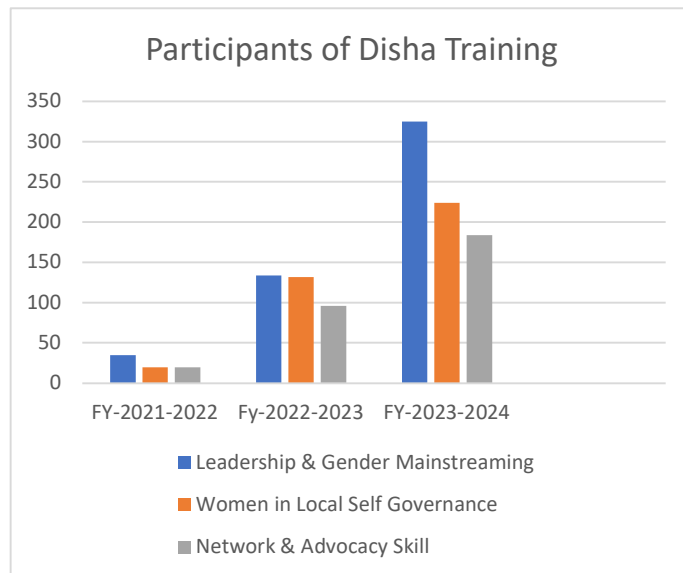
To ensure loss of the same, protected farming of betel vines was introduced. Technical training was provided followed by exposure visits. Today, more than 150 farmers have adopted to the technique.



Gender & Community Enterprise:

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

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

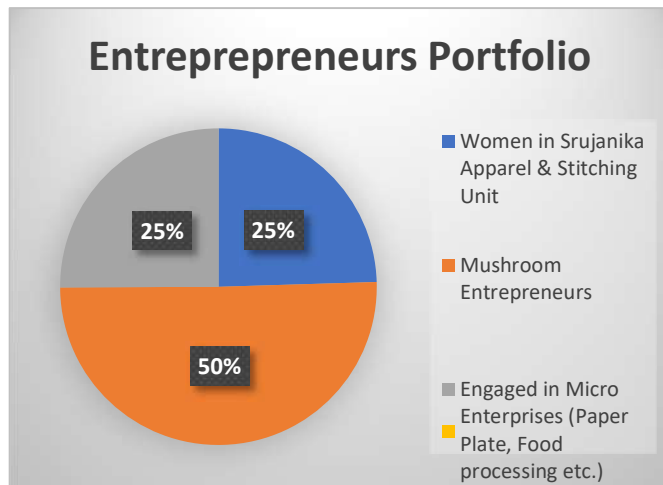


Fostering Inclusive Leadership: Empowering Women in Local Governance In the landscape of local self-governance, fostering inclusive leadership is crucial, particularly about empowering women. Gender mainstreaming initiatives ensure that women have equitable opportunities to participate and lead in decision-making processes at the local level. After Disha Module Training, women in local governance play multifaceted roles, from championing community development initiatives to advocating for policies that address gender-specific concerns. Their involvement strengthens the fabric of local governance by bringing diverse perspectives, prioritizing marginalized voices, and fostering more inclusive policies and programs. Networking and advocacy skills are essential tools for women to amplify their collective voice, forge alliances, and advocate for issues that matter most to their communities. By empowering women in local governance through inclusive leadership practices, gender mainstreaming efforts, and fostering



network and advocacy skills, we can create more resilient, equitable, and thriving communities for all.

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



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

Srujanika Apparel and Craft Producer Company Ltd. is a shining example of women-led success in the Promotion of Entrepreneurship. Tata Steel, Gopalpur was running the women empowerment program for sustainable livelihood of the displaced families in R&R colony since April, 2014. The three units were set up viz Apparel Unit, Painting Unit & Incense stick production Unit. Total 90 women are associated in all three units respectively. In



FY, 2018-19, TSF Gopalpur unit had taken over this from Tata Steel, SEZ, Gopalpur Project. Srujanika



has made significant strides in empowering women economically and socially. The journey of Srujanika began with a vision to harness the traditional skills of local women artisans and provide them with a platform to showcase their talent. Through the formation of self-help groups, these women pooled their resources and expertise to establish a cooperative enterprise focused on apparel and craft production. One of the key factors behind

Srujanika's success is its emphasis on skill development and capacity building. Through

Community Enterprise initiative TATA STEEL Foundation provided training to its members in various aspects of garment making, embroidery, and handicraft (Sowra art, Gondh Art, Pata



Chitra) techniques, thereby enhancing their proficiency and enabling them to create high-quality products. In this FY-2024, through TSF initiative was taken for reviving of Srujanika's incense stick unit, after conducting feasibility study various livelihood generated initiative taken up under the umbrella of Srujanika.

Moreover, Srujanika adopted a holistic approach to empowerment, addressing not only economic but also social and environmental concerns. The company promoted fair trade practices, ensuring that artisans received a fair wage for their work. Additionally, it prioritized eco-friendly production methods, using sustainable materials and minimizing waste. As a result of these efforts, Srujanika gained recognition both locally and nationally for its exquisite handmade traditional Art & crafts. Women who were once marginalized found a newfound sense of dignity and self-worth through their association with the Srujanika. They became role models for other women in their villages, inspiring them to pursue entrepreneurship and break free from traditional gender roles. In essence, Srujanika Apparel and Craft Producer Company Ltd. exemplifies the transformative power of women's entrepreneurship and collective action in driving sustainable development and fostering inclusive growth. Through their resilience, creativity, and determination, the women of Srujanika have not only transformed their own lives but have also made a positive impact on the lives of countless others.



Apart from this, Group of Women Entrepreneurs women are successfully running income generation units individually. The types of activities they are carrying out include paddy straw mushroom cultivation, ladies' corner, mattress manufacturing, spices trading, gents' grocery Outlet ladies' accessories, vegetable supply, general store, chicken centre, etc.

Case Studies:

Chumki Choudhury

Disha Didi- Towards Community Development

Karapalli a small village of Ganjam, where most of families depends on livelihood of agriculture and Fisheries, Chumki Choudhury is belonged from this community, in his own

Village a FTC (Farmers Training Centre is situated) where Disha Training was conducting. In the first phase of training SHG women from various periphery villages was participated but not from the Karapalli.



One day in Training program a Community Resource Person Informed her about the Disha Training and its impact among the society towards upliftment of Women Situations in decision making and leadership. She came and attended the Training first time and realize collective action is necessary to cope up more effectively with problems faced by women in individual and society. She mobilized other SHG members for Disha Training. Not only she attends the training, but she also starts to implement the theory to practice. Under Disha Training module has one topic that avail government scheme through SHG and Gram Panchayat Level federation. Availing Government scheme to the people was big challenges for her but her determination comes true. “Biju Swasthya Kalyaan Yojna” is a scheme where people can avail medical services with cashless by its card. Govt. provide Rs 5 Lakh health benefit to per family. Chumki Choudhury raise the issue in Palli Sabha, she took the responsibilities to avail these scheme to SHG women. She meet with the Disha Master Trainer and with the guidance of Disha Master Trainer and the support from the local PRIs she avail that scheme to the 120 household of her village. Rather than that Her dream was to create some constructive and significant initiatives for her own community.

Case Study- II

Empowering Communities Through Sustainable Enterprise: A Case Study of Producer group-operated Buffet Plate Making Unit

The SHG, comprising primarily of women from a Peripheri village (Tata Colony) identified the need for alternative income generation opportunities. With limited resources and marketable skills, they embarked on a journey to establish a small-scale enterprise that aligned with local demand and environmental sustainability. After conducting a feasibility study, TATA STEEL FOUNDATION conducted training in paper plate making techniques, also provided necessary machinery and raw materials to set up the Buffet Plate Making Unit in Swabalamban-I I at TATA Colony. The production process involves sourcing eco-friendly raw materials such as recycled paper and plant-based fibres. Skilled members of the SHG operate semi-automated machinery to cut, mould, and press the raw materials into buffet plates of various sizes and designs. Strict quality control measures ensure that the final products meet industry standards and customer expectations. The Buffet Plate Making Unit not only generates steady income for the SHG members but also fosters skill development, entrepreneurship, and women’s empowerment within the community. By promoting the use of eco-friendly alternatives to plastic disposables, the initiative contributes to environmental conservation and waste reduction efforts.





Despite its success, the SHG encountered challenges such as fluctuating raw material prices, market competition, and logistical constraints. However, through resilience, innovation, and collective decision-making, they navigated these challenges and emerged stronger. The Buffet Plate Making Unit operated by the SHG exemplifies the transformative potential of community-driven entrepreneurship in fostering economic, social, and environmental development. By harnessing local resources, skills, and collective action, marginalized communities can

create sustainable livelihoods, reduce dependency on external aid, and contribute to building resilient and inclusive societies.

Title: Empowering Women Through High-Productivity Mushroom Cultivation: A Case Study of Malikaswar Women Producer Group

In recent years, mushroom cultivation has emerged as a lucrative and sustainable agricultural enterprise, particularly for women in rural communities. This case study examines the success story of the Malikaswar Women Producer Group, which has demonstrated remarkable productivity and income generation through mushroom cultivation. The Malikaswar Women Producer Group, located in Banabulapalli was established in 2018 with the aim of empowering women through income-generating activities. Recognizing the potential of mushroom cultivation, the group received training and support from TATA STEEL Foundation. Through the adoption of modern cultivation techniques and the use of quality inputs, the Women Producer Group achieved consistently high yields of mushrooms. This was attributed to their adherence to best practices in spawn preparation, substrate preparation, and environmental control. In addition to traditional varieties such as button mushrooms, the group experimented with exotic varieties such as oyster mushrooms and shiitake mushrooms. This diversification



not only expanded their market reach but also enhanced their competitiveness in the industry. Women Producer Group established strategic partnerships with local markets, restaurants, and supermarkets to ensure a steady demand for their mushrooms. Moreover, they added value to their products by processing them into mushroom powder, sauces, and snacks, thereby increasing their profit margins. Mushroom cultivation proved to be a sustainable source of income for the women, enabling them to improve

their standard of living, support their families, and invest in education and healthcare. Women Producer Group encountered several challenges, including access to finance, fluctuating

market prices, and technical know-how. However, through perseverance, innovation, and collaboration, they were able to overcome these obstacles and emerge as role models in their community. Women Producer Group demonstrates the transformative potential of mushroom cultivation in empowering women and fostering economic development. By harnessing their entrepreneurial spirit and leveraging the support of stakeholders, women can not only improve their livelihoods but also contribute to the sustainable growth of their communities.

Training and Capacity Building Program:

The training on **Food Safety & Hygiene** for Women Producer Group at Pace Skill Training Centre, Sheragada, aimed to enhance participants' knowledge and practices regarding food safety and hygiene standards. Conducted the sessions focused on imparting essential skills and understanding to ensure the production of safe and hygienic food products.



The training program aimed to empower women belonging to Self-Help Groups (SHGs) by providing them with the skills and knowledge necessary to establish and operate a **noodle making unit**. This initiative aimed to promote entrepreneurship, enhance income generation, and foster economic independence among women. The training program comprised a combination of theoretical sessions, practical demonstrations, and hands-on practice. Expert

trainers facilitated interactive sessions covering various aspects of noodle production, including ingredient selection, dough preparation, shaping, cutting, and packaging. Participants were also educated on the importance of maintaining cleanliness, adhering to food safety regulations, and ensuring product quality. By promoting entrepreneurship and economic empowerment, the initiative contributes to the socio-economic development of the community while fostering self-reliance and women's empowerment.

The workshop on preparing **Business Development Plans (BDPs)** with women entrepreneurs aimed to empower participants by providing insights, tools, and best practices for strategic business growth. It offered a platform for sharing experiences and addressing the specific challenges faced by women-led businesses. Through interactive sessions, case studies, and group exercises, participants gained a deeper understanding of market analysis, financial planning, marketing strategies, and risk management. The workshop facilitated networking opportunities, empowering women entrepreneurs with the knowledge, skills, and confidence to navigate business challenges and pursue growth opportunities effectively.



Promotion of Rural Sports:

On August 29th, 2023, the Tata Steel Foundation, Gopalpur unit celebrated National Sports Day at Chamakhandi High School playground in honour of the legendary Hockey player Major Dhyan Chand. The event featured five sports activities including 100mtr, 200mtr, and 400mtr running, long jump, and high jump, engaging Upper Primary and Higher Secondary School students from 17 schools in TSF peripheral villages across junior and senior categories.

A total of 247 boys and girls enthusiastically participated in these events. The program commenced with an oath-taking ceremony, followed by a marshal's run, and a warm welcome speech delivered by esteemed dignitaries. Among them were Mr. Manoj Kumar Reddy, Sarpanch of Chamakhandi GP, Mr. Anant Kumar Pradhan, President of the School Management Committee (SMC), Mr. A Ram Babu, Plant Head, Mr. Bijay Kumar Mohapatra, from Tata Steel SEZ, Unit Head of TSF, Gopalpur and Ms. Jyotirmayee Panigrahi, Headmistress of Chamakhandi High School.

As the event reached its conclusion, a closing ceremony was held, during which 60 students were honored by the dignitaries for their outstanding performances. The celebration not only paid tribute to Major Dhyan Chand but also encouraged sportsmanship and physical fitness among the students, fostering a spirit of healthy competition and camaraderie. Overall, the National Sports Day celebration aimed to create an inclusive and inspiring atmosphere where students could engage in sports, celebrate achievements, and learn important life lessons through physical activities.



Observation of the Birth Anniversary of Sir Jehangir Ratan ji Dadabhoy popularly known as JRD Tata:

Gopalpur unit celebrate the Birth Anniversary of Sir Jehangir Ratan ji Dadabhoy popularly known as JRD Tata, every year on 29th July. This year too we commemorate his birth anniversary and to pay homage to JRD Tata on the eve of 119th Birth anniversary a cross-country race will be organized on 29th of July.

JRD Tata is credited with founding several companies and is often being credited as the sphere head who stir the Tata group to epitome of success, we sincerely owe our heartfelt gratitude to his noble soul and on the eve of his birth anniversary a profound message need to be spread.

In this regard we envisaged to connect to our community by organizing Cross-country race, Our community is no where detached, they often participate hand on hand with all our program, even while paying homage to personalities belonging to Tata family, they often show greater enthusiasm.

This will cater larger masses specially youth group the objective will be made

aware our young generation about the legacy of our eminent founders. Therefore cross-country race was deemed to be an ideal one, this initiative will be unique of its kind having a 8 km (4 km to and for journey) cross- country race starting from Berhampur University ground to Gopalpur, among age group of 1) 8-10 years fun race open for all cut-off age 1-1-2009 (13yrs



and above) 2) Under -18,3) above 18 separate for boys and girls and both competitive the total track length is 8 Km but its effective length will be decided on the basis of age bracket. There after program will include a gist elocution relating to inspiration derived from JRD Tata's life his achievement, prize distribution to winners etc.

This program often inculcates a sense of belonging and rerouted our founder's legacy to the greater masses who imbibe



upon with their out most respect and humility. Since the program will be taken place at road premises, we will ensure proper safety regarding roadblocking, medical facility in convergence with government line departments.

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

Tata Steel Foundation on its aegis and in support to the adolescent population in its intervening areas started the programme RISHTA and its interactive day MANTHAN & DHWANI giving a platform to the adolescents to express themselves.

Regional Initiative for Safe Sexual Health by Today's Adolescents, formally known as "Project RISHTA" is a consortium project on Adolescents' Reproductive and Sexual Health, which aims *"to improve the sexual and reproductive health and wellbeing of adolescents in intervening areas"*.

The target groups in the project are primarily adolescents in the age group of 10 to 19 years, married and unmarried who may be either school-going, school dropouts or non-school-going. RISHTA started in Gopalpur in the year 2013 and is operational in two blocks named **Chhatarpur** and **Rangeilunda**.

Area Profile:

SL	State	District	Block	GP	Village	Household	Schools	Population	Adolescents	Women/Girls
1	Odisha	Ganjam	Rangeilunda	32	83	24,133	81	559447	113567	276522
2			Chatrapur	18	107	29492	63	135751	20336	68162
			TOTAL	50	190	53625	144	695198	133903	344684

OBJECTIVE OF RISHTA PROJECT -

- Increase knowledge in ARSH (Adolescent Reproductive and Sexual Health) among adolescents.
- Reduction in the prevalence of underage marriages among adolescent girls
- Reduction in the adolescent fertility rate
- Identifying potential young changemakers and participate in Dhvani program.
- Link youths with skill programs through TSF or Govt. institutions (leadership training, vocational training, etc.)



RISHTA OLC Program: Empowering Adolescent Leaders:

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

This extended duration allowed for in-depth learning and personal growth, fostering lasting connections among the adolescents.

Venue - Kalingangar Remhal Dam: The picturesque setting of Kalingangar Remhal Dam served as an ideal backdrop for the



OLC. Surrounded by nature, the venue provided a serene and inspiring atmosphere, contributing to the overall positive impact of the program. Organized by Kalingangar Mountaineering Group (KMG): The Kalingangar Mountaineering Group played a pivotal role in organizing and executing the OLC. Their expertise in outdoor activities and commitment to youth development ensured a well-structured and safe program.



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

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

Case Studies of Rishta Change Makers:

Empowering Adolescent Voices: The Story of B. Purnima Reddy

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



The Journey of R. Tripati Reddy In the heart of Basanaputti village, R. Tripati Reddy emerged as a beacon of change. Engaged through the RISHTA project in 2017, Tripati dedicated himself to combating addiction and advocating for adolescent rights. Through counseling and community engagement, he transformed lives, delaying early marriages and fostering awareness on critical issues. Tripati's journey inspires a generation of changemakers.



Nutrition:

Tata Steel Foundation, in collaboration with Integrated Child Development Services (ICDS), may focus on various themes within their nutrition projects aimed at improving the health and well-being of children and mothers in the community. Some potential themes could include Maternal and Child Nutrition: Providing education, counseling, and support services to pregnant women and mothers of young children to ensure proper nutrition during pregnancy, breastfeeding, and early childhood.

- **Supplementary Nutrition Programs:** Implementing programs to supplement the nutritional intake of children in anganwadi centers through the provision of fortified foods, fresh fruits and vegetables, and nutrient-rich snacks.
- **Growth Monitoring and Promotion:** Conducting regular growth monitoring sessions to track the growth and development of children under the age of five, and providing interventions to address any signs of malnutrition or stunted growth.
- **Health and Hygiene Education:** Promoting hygiene practices and educating caregivers about the importance of clean water, handwashing, and sanitation to prevent the spread of disease and improve overall health outcomes.
- **Community Engagement and Empowerment:** Involving community members, including parents, teachers, and local leaders, in nutrition-related activities such as cooking demonstrations, gardening, and community nutrition workshops to foster ownership and sustainability of the initiatives.
- **Capacity Building for Anganwadi Workers:** Providing training and resources to frontline health workers, such as anganwadi workers and supervisors, to enhance their knowledge and skills in delivering nutrition and health services effectively.



The ultimate goal of such collaborations is to reduce malnutrition, improve child survival rates, and empower communities to lead healthier lives. Nutrition project Gopalpur team doing work associating with Anganwadi and village community. Our Beneficiaries are 0-6 years children, Pregnant lady, Lactating mother and Adolescent girls. I have mentioned some activities below:



We find out Malnourished child and put them weight gain by nutrition awareness, Hemoglobin test also done among adolescent girls and Anemic found girl suggest for Nutritional food to be come in normal position. Also, we

distribute seeds, plants for their improvement in Nutrition in both block. our beneficiaries are 1.0-5 years children, 2. Pregnant lady,3- Lactating mothers , 4- Adolescent girls.

Nutrition Team of TSF have been working in two blocks 1. **Chatrapur Block** 2. **Rangeilunda block** and

50 Grama panchayat are there. From April to September we have reached 0- 5 years children near about 7706, Women group 9570 Adolescent girls 7000, around SAM child has been found 140, Malnourished child have been found 508. Weight gain of malnourished children have been reached in no 533. Also Hemoglobin test done with Adolescent girls and Pregnant women like 2326. and 846. from that 300 has been detected as improve in Hb level. Nukkad Natak and wall painting has completed till now 36 and 25 no. Also we have found SC beneficiaries like 4162 and ST beneficiaries 114

As event we do Poshan pakhwara, Annapasana, Quiz competition among women and adolescent girls.

1. **Theme of Poshan pakhwada Event :** Poshan Pakhwada put emphasis on the nutritional status of women and children between the age of 0-6 years. The programme uses technology, convergence, community involvement, and a targeted approach to reducing levels of undernourishment, anaemia, and low birth weight in children. It also places special focus on adolescent girls, pregnant women, and lactating mothers, providing a comprehensive approach to addressing malnutrition.
2. **Annapasana Event :** Annaprashan is performed when the baby turns anywhere between Seven months to 2 years of age. For boys, this usually takes place on even months, such as the sixth or eighth month; whereas for girls, this is performed on odd months, such as the seventh or ninth month. Ideally, one should only organise this ceremony post the six month mark, as the baby must strictly feed on breast milk until then.
3. **Quiz competition:** Here we conduct quiz competition among adolescent girls and women groups. We ask various questions related to Nutrition to Participate .Kishorimela, a collaborative initiative by Integrated Child Development Services (ICDS) and Tata Steel Foundation, aims to empower adolescent girls in communities served by Tata Steel Foundation. Through various activities such as workshops, skill development programs, health education sessions,



and recreational events, Kishorimela focuses on enhancing the physical, mental, and emotional well-being of adolescent girls. The program also emphasizes life skills training, education on nutrition, hygiene, and reproductive health, and encourages girls to become agents of positive change in their communities. By providing a platform for learning, growth, and social interaction, Kishorimela strives to equip adolescent girls with the knowledge, skills, and confidence to lead healthy and fulfilling lives.

4. **Hemoglobin Test :** We have another activities Haemoglobin test among Adolescent girls and pregnant women. Anemic found girls and pregnant women get awareness about Nutrition for increase iron level in blood through iron reached foods. Also we keep follow up in regular interval. After re screening we check increase of Hb level. This is the regular process beneficiaries to increase the iron level in blood.
5. **Nutrition Garden :** Regularly we aware in community to our beneficiaries to eat good,healthy and nutritious food especially which are available in their home premises easily.TSF Nutrition team distribute plant like drumstick,Banana and Papaya .Around **1466** beneficiaries and having family members beneficiaries like **6992** get benefits,also we distribute 11 types of seeds like cucumber,ridge gourd, spinach,bitter gourd,bottle gourd,pumpkin coriander etc. Which get balanced diet for health. Also some kitchen garden has been developed by aware to community which has community some persons get benefits from that which has helped them to come out from malnourished and anemic .
6. **Wall painting and Nukkad Natak :** we have wall painting the way to keep aware and give some overall knowledge to community about Nutrition for community.also have Nukkad Natak called also street play also another way to aware community .It plays in village and crowd area where community can watch mash. Also we conduct meeting in village and Panchayat level, also block level and we discuss and explain the Nutrition project activities.These are some activities of Nutrition project.Also I have attached some highlighted photos of different activities and events.



Health:

Tata steel Foundation Gopalpur has been organized 8 nos' of Multi specialized health camps with support of Govt. Health Department & Sankara Eye Hospital, Samarajhola and with the support of 3 no. of Mobile Public Health Units in Five Blocks. Its Aim is to provide Multispecialty treatment at the doorstep of community & hard to reach areas. Screening of Non –communicable diseases have been done by testing of blood sugar level and blood pressure checkup. Awareness



campaign has been conducted to alert on Non – communicable diseases through audio visual and distributing IEC materials. Other health checkup has been provided like Medicine, Pediatric, Gynecology, Eye, Dental, ENT followed by free medication. Under the Cataract



Project, 178 Cataract patients was detected. Tata Steel Foundation often collaborates with healthcare professionals and organizations to organize multispecialty health camps in various communities. These camps typically offer a range of medical services including general health check-ups, consultations with specialists' diagnostic tests, vaccinations, and distribution of essential medicines. These camps aim to provide access to healthcare services to underserved populations,

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

MPHU (Mobile Public Health Unit):

Three nos of mobile public units are running to providing health care services at the door step of community. Total 45 villages are getting services covering of two blocks. Treatment by doctors with free medication. Testing of blood sugar, HB, blood pressure to find out Non communicable diseases. All data of patient are entering in EPI collect app to know pocket expenditure by direct & indirect. Also conducted Awareness programs for Communicable & Non- communicable diseases with distributing IEC materials. In the FY 2024 18126 no's of patients treated till February 2022.



Nikshay Mitra Program: Tata steel foundation has been supporting nutritional supplement to Tuberculosis effected patients of Rangeilunda , Chatrapur, Shergada blocks. The main aim of this program is to boost immunity level of TB patients by providing Portentous food supplements till recovery of disease. We are providing 330 no's of nutritional supplements monthly basis.



Preventable blindness program In preventable blindness program Cataract screening camps were organized in Rangeilunda block. The screening of Cataract cases with help of Sankara Eye hospital. The Cataract cases were referred to Sankara Eye Hospital for Surgery. Total no of screening 1423 and Cataract cases detected 553.



Implementation of Nirikhayana app.

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

- Total number of pregnant women registered: 89,256
- Total number of USG referrals requested: 79,203
- Total number assigned to USG centres: 78,876
- Total number of ultrasounds completed: 77,260
- Total number of Health Facilities – 594
- Total number of Ultrasound centers empaneled – 2



NCD & VBD PROGRAM

To mitigate mosquito-borne diseases, TSF Gopalpur launched the VBD program in Rangeilunda block. Teams systematically visit households, imparting knowledge on lifestyle modifications for disease prevention, as well as finding mosquito breeding sites to conduct anti-larval activities to eliminate mosquitoes at the larval stage. As request by Govt Health department we provided 12000 mosquito nets to effected area. Also supported of propaganda for mass drug administration of Filaria medicine by providing campaign vans with IEC materials. Total blocks covered 11, & villages covered 120. NCD-To proactively address non-communicable diseases in Gopalpur, TSF is executing door-to-door screenings at the village level, educating households about lifestyle modifications. Presently, the screening encompasses high blood pressure, diabetes, oral cancer, and breast cancer, ensuring a holistic approach to early detection and intervention.



Skill Development:

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

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



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



its avant-garde equipment and immersive, hands-on training methodologies, ensuring that students are adept at industry-standard practices upon graduation. Moreover, the institute fosters a vibrant student community, cultivating an atmosphere of collaboration and innovation, while its faculty members, renowned for their expertise, deliver unparalleled teaching standards. In essence, JNTTEC epitomizes excellence in technical education, nurturing the next generation of industry leaders through its comprehensive curriculum, industry-aligned training, and unwavering commitment to student success.

Skill Development Centre, Sheragad:

Established as a collaborative endeavor between the esteemed TATA Steel Foundation and PRATHAM Pvt. Ltd., the Skill Development Centre stands as a testament to their shared vision of empowering individuals through vocational training. Nestled within the serene environs of

the Seragada Panchayat Office premises, this center serves as a beacon of opportunity for aspiring professionals seeking to hone their skills and carve a niche in the competitive job market. Diversifying its offerings to cater to the diverse needs of the industry, the center currently hosts three specialized courses: Food Production, Food and Beverage Service, and Multi-function Office Assistant. These meticulously crafted programs, ranging from 30 to 45 days in duration, blend theoretical insights with practical applications, ensuring that participants are equipped with the requisite knowledge and competencies demanded by their respective fields.

One of the hallmarks of the Skill Development Centre is its unwavering commitment to facilitating successful transitions into the workforce. Upon completion of their training, all candidates receive personalized placement assistance, a testament to the center's dedication to fostering meaningful career pathways. Remarkably, the center boasts an impeccable track record, with a remarkable 100% placement rate for eligible candidates, underscoring its effectiveness in bridging the gap between education and employment.



The accolades garnered by the center extend beyond its premises, as industry-leading enterprises such as ITC Murli Park, Minerva Grand, United Telugu Kitchen-Vijaywada, Pragati Resorts, Celebrity Resorts, and Ramoji Film City, Hyderabad, consistently seek out graduates for their specialized skill sets. This symbiotic relationship between academia and industry not only validates the efficacy of the center's training programs but also underscores its pivotal role in nurturing a skilled workforce. In addition to its academic offerings, the Skill Development Centre prioritizes the holistic well-being of its participants, offering comfortable hostel accommodations and wholesome meals for both male and female candidates. Managed with precision and expertise by PRATHAM Pvt. Ltd., the center prides itself on its team of highly skilled trainers, whose wealth of experience and dedication ensures the delivery of unparalleled learning experiences.

With an annual intake capacity of 200 students, the center adopts a personalized approach to education, typically enrolling approximately 25 students per batch. This intimate learning environment fosters a sense of camaraderie and collaboration among participants, facilitating peer-to-peer learning and mutual growth. In essence, the Skill Development Centre emerges as a transformative hub, where ambition meets opportunity, and aspirations are realized. Through its holistic approach to vocational training, personalized support services, and industry-aligned curriculum, the center continues to empower individuals to unlock their full potential and embark on rewarding career journeys.

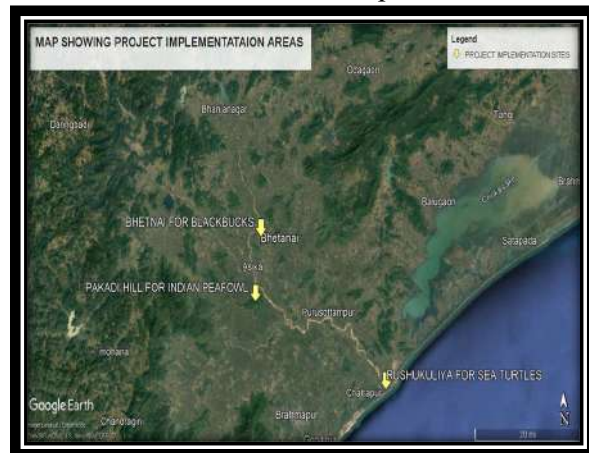
INITIATION OF PARYAVARAN SARATHI (CONSERVATION OF FLORA AND FAUNA) ALONG GANJAM DISTRICT

Introduction:

Odisha, situated on the north-eastern coast of India, is a maritime state boasting abundant natural resources and coastal biodiversity. Spanning an area of 156,000 km² and with a population of 4.76 Crore as per the 2021 census, the state comprises 30 districts, including six coastal districts, among which Ganjam district holds significant importance. Renowned for its unique wildlife species assemblage and diverse habitat mosaic, Ganjam district serves as a focal point for conservation efforts. The proposed project targets the preservation of three iconic wildlife species and will be implemented across three strategic locations: Bhetnoi area for Blackbuck Conservation, Pakidi Hill area for Peafowl Conservation, and Rushikulya river mouth area for Sea Turtle Conservation.

The project primarily focuses on the conservation of three iconic wildlife species and will be executed across three designated locations as outlined below:

1. Bhetnoi area has been earmarked for Blackbuck Conservation efforts.
2. The Pakidi Hill area has been designated for Peafowl Conservation initiatives.
3. The Rushikulya river mouth area has been selected as the focal point for Sea Turtle Conservation endeavours.



Objective :

- To provide an integrated conservation approach of important wildlife species of Ganjam district with special reference to Blackbuck, Indian Peafowl and Marine Turtles (including other important conservation dependent marine species).
- Improve the livelihood of local people through community awareness, capacity building.
- Assessment of different threats to the important wildlife species through survey and documentation.
- To promote ecotourism through latest available digital marketing aids (SMM and SEO).
- To assess the habitat association and other threat to these species.
- To document the important marine species assemblage of Ganjam Sea Coast.

Outcomes:

- Sensitized and empowered group of volunteers/people for carrying out conservation activities.

- Conservation of the species in their natural habitat and eco-system restoration with sustainable development .
- Development of a viable community-based ecotourism model.
- Enhanced income from secondary livelihoods benefitting the communities.

Geographic area of conservation initiation areas:

Rushikulya Roockery:

The focus of the intensive study/project will encompass a 54-kilometer coastal expanse within the Berhampur Forest Division, extending from the border of Andhra Pradesh to the Chilika Wildlife Division boundary. This selected study area represents a significant portion of the state's entire 480-kilometer coastal stretch and notably includes the crucial mass nesting sites located at the Rushikulya river mouth. While the marine species in this region are not deliberately targeted for direct consumption by local communities, there are key areas where targeted interventions are necessary to support the conservation of these species, which heavily rely on conservation efforts for their survival.



The total population of Rushikulya amounts to 5,157 individuals, comprising 2,796 males and 2,542 females, with literacy rates of 1,364 among males and 961 among females. Notably, the village sustains a significant fishing community, with 1,762 male and 1,305 female fishermen whose livelihoods depend heavily on fishing. However, conflicts arise during the seven-month lean period when fishing activities are prohibited. In addition, the villages face multiple challenges such as health issues like paralysis, skin and eye diseases, lack of access to safe drinking water, and unemployment.



Bhetanai:

The Balipadar-Bhetnoi area encompasses approximately 70 villages across the Buguda, Aska, and Kodala Forest Ranges in Ganjam District. Within this region, the Blackbucks are revered and protected by the local community with unwavering dedication. This profound reverence stems from the deeply held belief that the presence of Blackbucks in the paddy fields symbolizes prosperity for the villagers. As a result, the local society has played a pivotal role

in the conservation of this iconic species, diligently safeguarding their habitat and ensuring their continued well-being. The village has a total population of 8,500, with 4,700 males and 3,800 females. The literacy rate among males is 2,978 and among females is 1,711. In this village, where farming is the primary source of livelihood for a population of 778, with 655 males and 986 females, conflicts arise between humans and animals over damage to cultivated crops and animal food. The second choice for livelihood is migration to different states. The village lacks basic amenities such as a primary health centre and a nearby post office, as they are situated at Bhetanai, 1km and 2km away respectively. The nearest market is located at Aska, 9km away. The village faces developmental issues such as inadequate water facilities, no medical doctors, and no roads in remote areas.

Pakidi Hills:

The proposed project aims to be implemented in and around Pakidi Hill within the Ghumsur South Forest Division of Ganjam District. Surrounded by seven villages – Subhachandrapur, Ambuabadi, Kerikerijhola, Bharatapalli, Cheramarai, Sameiguda, and Karanauli – Pakidi Hill serves as a focal point for the protection of the National Bird of India. Over the past two decades, these villages have collectively undertaken the responsibility of safeguarding the bird. Although the Ganjam Peacock Protection Committee (Ganjam Mayur Surakhya Samiti) was established relatively recently in 2005, it has made commendable contributions to the conservation efforts. In recognition of their dedicated efforts, the committee has been honored with the Biju Patnaik Award for Wildlife Conservation. Despite the species not being hunted for its religious significance, it remains susceptible to other threats, underscoring the importance of continued conservation efforts.

The total population of Pakidi Hills is 3,310, with 1,745 males and 1,565 females. The literacy rate among males is 1,702 and among females is 1,420. There are 655 male farmers and 986 female farmers in the area. In Pakidi Hills, where the primary livelihood is farming, there is a conflict between humans and animals over damage to cultivated crops and the food of peafowl.



Seed distribution:

Seed distribution is main to mitigate conflicts between humans and wildlife, such as Peafowl and Blackbuck by providing specific seeds to influence the feeding habits of these animals. Simultaneously, ecosystem development focuses on creating a more balanced and sustainable environment around natural habitats that contribute to develop favourable condition for both human and animal with reduce the conflict and development of farm-based livelihood development of community. High yield variety of seed was distributed in two villages: Ambuabadi among 67 people, Bhetanai among 105 people.



Rescue centre:

Conservation and management of wild animal and natural resource is important factor to protect the environment. Growing population and development activities bring conflict between human and animal. Rescue centre is one of the measures to reduce the conflict with the aim of protecting the injured Blackbuck. Reconstruction work has been started in Blackbuck habitation area in Bhetanai.



Active participation of community:

Active participation of community plays major role in protecting the endangered animal which feel them that they are key responsible to protect the species. They took own initiative in social forestry, agricultural training programme like mushroom demonstration training programme, seed distribution programme, installation of pictorial signage.



Celebration of Coastal cleanup day:

With the objective to conduct coastal clean-up activity involving community mobilization and raising awareness to address the growing marine debris problem by removing trash/debris along shorelines for keeping the ocean and coast clean at Bateswar beach in Rushikulya Mass nesting site on 16th September 2023 with collaboration India coast Guard Station, Gopalpur.



The event was one of the sensitizing programs to engage the people with environment through the beach clean. Engagement of 500 member from Indian Coast Guard Station, Gopalpur, India Army, Forest Department, NCC Students, Notified Area Council, School Student from different school, Member from Gopalpur port, Tata Steel SEZ, Tata Steel Ferro Alloy, Forest and Fisheries Department, PRI member, and community member. The programme was enlighten the value of cleanliness for healthy and pollution free environment and mentioned about the importance of ozone sphere by honourable guest Commandant of the Army Air Defence College in Gopalpur, Lt. General UV Talur, Dr. Ambika Prasad Nanda, CSR State Head, TSF. As enhance the knowledge about the three species like Olive ridley sea turtle, Peafowl, Blackbuck, 300 leaflets have been distributed among them all attendees.



Blackbuck festival:

Tata Steel Foundation, Gopalpur unit organized a Blackbuck Conservation Festival on September 26, 2023, at Bhetanoi, aimed at fostering awareness and educating young minds about the importance of blackbuck conservation.



This innovative initiative was designed to in still a sense of responsibility and empathy toward both the blackbuck and the environment among school children. The festival was a vibrant and engaging event, featuring a range of activities. One of the highlights was an art and painting competition, which saw the enthusiastic



participation of 100 students from three local schools. The talent displayed was exceptional, with 15 students receiving well-deserved prizes for their artistic contributions. 150 leaflets were distributed among all the member present in the event.

Social forestry:

Protection species by improving natural habitation through promoting plantation with involvement of community member. Cashew nut plantation with active participation of community has been organised at Purunabandha with promoting social forestry and protecting the soil erosion. The active participation of women and children is particularly crucial for both present and future sustainability. In our social forestry development project, we distributed approximately 400 plants in Gokhurakuda and Podampeta.

Installation of pictorial signage:

Rushikulya rookery is known as mass nesting site of schedule species Olive ridley. This place is famous other schedule species like Dolphin, Shark, whale etc. These all need to protect them from extinct. Previously, one of the awareness programs has been done on world turtle day. Now, installing of pictorial signage was taken initiative to create awareness and motive to rescue them during fishing. Main motive to this program is to protect the species from bycatch. Community has taken own initiative for installing Signage and promised to rescue the species if they would see during fishing.



Releasing Hatching:

After 45-70 days of nesting, hatchling is emerged into the sea. They face challenges like disorientation due to environmental condition like bright light. Protect the hatchling from disorientation, releasing of hatchling has been initiated with community. A total of 80 people from four villages were participated in collection of disoriented hatchlings from the beach and then released into the sea. The main motive of this programme is to feel as belongs to environment.



Ecotourism development:

The goal of the interpretation centre is to pique tourists' attention, promote learning, guide them in acceptable behaviour for sustainable tourism, and inspire enjoyment and satisfaction. Thus, interpretation plays a significant part in sustainable wildlife tourism by informing tourists about the repercussions of specific behaviours and providing education to encourage minimal impacts. One interpretation cum souvenir shop was constructed at Bhetanai in collaboration with forest department to promote ecotourism in the area.

Installation of signage and Wall paints:

Signages and Wall Paintings, part of the Publicity and Awareness programme, are critical to the success of the Conservation Project and formed an important part of the project activities during the last quarter. Wall painting and signages help tourists and outsiders locate the conservation zones, while also contributing to an increase in the economic status of communities as tourists and others are drawn to the serenity of the blackbuck's favoured habitat. The Wall Paintings and Signages were installed in the target areas for Black Buck, Sea Turtle, and Pea Fowl conservation.



Construction of Interpretation Centre:

The goal of the interpretation centre is to pique tourists' attention, promote learning, guide them in acceptable behaviour for sustainable tourism, and inspire enjoyment and satisfaction. Thus, interpretation plays a significant part in sustainable wildlife tourism by informing tourists about the repercussions of specific behaviours and providing education to encourage minimal impacts. One interpretation cum souvenir shop was constructed at Bhetanai in collaboration with forest department to promote ecotourism in the area.



Livelihood development:

Training on mushroom cultivation

Conflict has been created between livelihood of fisherman and olive ridley sea turtle. The aim to protect the turtle and mitigate the conflict through exposing on alternative livelihood for the community by demonstration mushroom cultivation training program. 70 women of different SGH women has been attended on training programs. Gokharanatha SHG women has taken initiative to make 200 mushroom beds. Mushroom training has been done by co-ordinate with agricultural development. They all got idea step by step of mushroom cultivation like how to soak the paddy straw by using Calcium carbonate, how to make mushroom bed by using raw materials. Mushroom shed has been provided through Women empowerment and gender equality department.



Exposure visit:

The Pakidi hills and Bhetanai areas have gained popularity for the natural habitation of around 2000 Peafowl and Blackbuck respectively. The coexisting of beautiful birds and animal with local people has created conflict that directly and indirectly impact on primary livelihood of human and habitation of wildanimal. Primary livelihood of people in these Village is agriculture which is destroyed by wildanimal's foraging and feeding habitat. Considering this situation that need to reduce and develop economic status of people by eco-friendly, and through providing idea of alternative farming and income sources through which both men and women can get benefited. We planned to exposure visit to explore the approachable way of farming in unfavourable farming area by accepting modern strategies.



Capacity building programme:

Awareness campaign:

A community awareness and sensitization programme was conducted at the adjoining villages of Rushikulya, Pakidi and Bhetanai to aware the importance of the conservation of Olive Ridley, Blackbuck, Peafowl and their roles in different ecosystem along with the sustainable livelihood development of local community.



Consultative meeting with line department:

A circle level Co-ordination meeting with local NGOs and CBOS on protection and conservation of Olive Ridley Sea turtles for the season 2023-24 was organised by Divisional Forest Officer, Brahmapur Division. The meeting was chaired by RCCF, Brahmapur and DFO, Brahmapur Forest Division. The meeting was inaugurated with the introductory address by DFO, Brahmapur to the gatherings followed by video documentary show. Sri Rabindranath Sahu, Ex Honorary Wildlife warden, expressed the past scenario of olive ridley nesting and present context of conservation practices and measures taken by TSF and different organisations with community participation is welcoming. The Unit Head, Tata Steel foundation, Gopalpur Unit mentioned the roles and measures taken by TSF in conservation of Olive Ridleys with community participation. He also mentioned about the signages, wall paintings and awareness meetings among the community along with alternative source of income for fishermen community through various programmes like *Mushroom* Units, paper plate making unit etc. TSF has also taken care of the education and health of local community through PLCs, health camps, eye camps, Social forestry etc.



World Turtle Day Celebration: A Scheduled Species, the Olive Ridley Sea Turtle, was in focus on May 23, on World Turtle Day. All seven species of sea turtles across the world are now classified as endangered (*Source: World Wildlife Fund*). Each of these requires eco-friendly conservation measures along with sustainable livelihood initiatives for communities where these migratory species periodically come ashore. The principle objective of World Turtle Day is to celebrate turtles and protect them by drawing attention to their disappearing



Providing basic health check-up:

Bhetanai and Pakidi are known for community conservation of schedule species – Blackbuck, Peafowl. Where community has given effort to protect the wild animal who are totally dependent on agricultural land for different herbivores crops. These animals also share common grazing ground with domestic animal and cropping land.. They are facing challenges on their primary livelihood because Odisha Government has imposed seven-month lean period to protect the schedule species “Olive Ridley and also have health issues like eye problem. So, Multi health specialized has been organized at Podamapeta to provide basic health facilities to community, screen of non - communicable disease during lean period with presence of Sarpanch, CHO, PRI member. So, Tata Steel Foundation has been taken initiative to provide basic health facilities to these community.



ANNUAL EVENT - UDAAN 2024:

(Building a Culture of Climate Resilience through Disaster Risk reduction)

Udaan is a community-based engagement in (Ganjam) Odisha that lays emphasis on co-creating meaningful and sustainable growth opportunities for the youth, women, and farmers. Instituted in 2016, Udaan brings together the communities proximate to Tata Steel's Gopalpur operations each year, where



their efforts are recognized and the community in general is enlightened on the growth journey that the region has ventured upon



. The CSR operational area of Tata Steel's Gopalpur project consists of 167 villages in 50-Gram Panchayats of 8 blocks & 2 NAC of Ganjam district. This year, apart from the sharing of stories the focus will be on building a culture of Climate Resilience through disaster risk reduction. The district of Ganjam has been receiving natural calamities every year and faces major destruction due to change in climate. Since

from last three year, we have integrated our work *in disaster risk reduction* with *climate change* adaptation to ensure sustainable humanitarian *and* development programming. On its Eighth annual Two-day's mega event with an aim to bring together communities to advance adaptation agenda.

TATA STEEL FOUNDATION, GOPALPUR
FY'24 Budget V12

					BUDGET		UPTO 31st March'2024		
							EXPENSES		
Vertical	GL internal fund	Cost Description (Programmes)	Delivery Arm	TYPE	Budget A	Budget B	Budget A	Budget B	TOTAL
ETHNICITY	5080001	Tribal language and literature	TSF	One-time	23.88		0.000		0.000
ETHNICITY		Sub Total			23.88	0.00	0.000	0.000	0.000
Public Health	5020003	Healthcare infrastructure	TSF	Ongoing	1.61		1.320		1.320
Public Health	5020006	Cataract	TSF	One-time	10.00		6.900		6.900
Public Health	5020021	Kitchen Garden	TSF	One-time	25.44		24.820		24.820
Public Health	5020023	Prevention of Communicable Diseases (Public Health) VE	TSF	One-time	6.20		6.166		6.166
Public Health	5020025	Support in response to Govt./External request (Public He	TSF	One-time	10.45		10.443		10.443
Public Health	5020502	RISHTA	TSF	Ongoing	21.97		21.195		21.195
Public Health	5020029	Non-Communicable Diseases (NCD) Control Program	TSF	Ongoing	4.71		4.698		4.698
Public Health	5020026	Public Health Initiatives in Proximate Communities	TSF	Ongoing	122.62		78.812		78.812
Public Health		Sub Total			203.00	0.00	154.355	0.000	154.355
EDUCATION	5050002	Fellowship programme	TSF	Ongoing	3.63		52.710		52.710
EDUCATION	5050005	Support for Schools/Institutions (educational infrastru	TSF	Ongoing	20.75		0.840		0.840
EDUCATION	5050008	Learning Support Program	TSF	Ongoing	20.00		23.687		23.687
EDUCATION	5050013	Spoken English & Soft Skill Development	TSF	One-time	15.59		14.410		14.410
EDUCATION		Sub Total			59.97	0.00	91.647	0.000	91.647
ETHNICITY	5080015	Preserve & Promote , Literature , Art & Culture	TSF	One-time	2.49		1.700		1.700
ETHNICITY		Sub Total			2.49	0.00	1.700	0.000	1.700
LIVELIHOODS (AGRICU	5030001	Water Harvesting structures (ponds)	TSF	One-time	62.13		25.337		25.337
LIVELIHOODS (AGRICU	5030002	Agriculture Activities (SRI and dryland farming)	TSF	Ongoing	28.50		28.448		28.448
LIVELIHOODS (AGRICU	5030003	Promote second crops	TSF	Ongoing	30.00		26.774		26.774
LIVELIHOODS (AGRICU	5030004	Livelihood Agri allied, Livo, Diary, Poult	TSF	Ongoing	29.50		25.464		25.464
LIVELIHOODS (AGRICU	5030005	Capacity Building of Farmers Institutions	TSF	One-time	15.00		12.032		12.032
LIVELIHOODS (AGRICU	5030006	Agri resource centres, training and info. centres.	TSF	Ongoing	5.50		4.249		4.249
LIVELIHOODS (AGRICU	5030007	Enterprise Development Programmes	TSF	Ongoing	84.33		73.159		73.159
LIVELIHOODS (AGRICU	5030008	Promote horticulture in wastelands and dry land crops	TSF	One-time	5.00				0.000
LIVELIHOODS (AGRICULTURE)		Sub Total			259.96	0.00	195.463	0.000	195.463
LIVELIHOODS (Empow	5060001	Women Empowerment Programmes	TSF	Ongoing	27.00		30.445		30.445
LIVELIHOODS (Empow	5060002	Business Development of SHGs	TSF	Ongoing	37.00	1.24	46.612	1.237	47.849
LIVELIHOODS (Empow	5060003	Youth Empowerment	TSF	One-time	3.00				0.000
LIVELIHOODS (Empowerment)		Sub Total			67.00	1.24	77.057	1.237	78.294
LIVELIHOODS (SKILL D	5040001	Sponsorship to Trainees for various vocational courses	TSF	One-time	0.00				0.000
LIVELIHOODS (SKILL D	5040002	Skill Development Programmes (short term courses linke	TSF	One-time	5.00		1.500		1.500
LIVELIHOODS (SKILL D	5040008	Support girls in Nursing training TCS	TSF	Ongoing	0.00				0.000
LIVELIHOODS (SKILL D	5040014	JN Tata Technical Education Center Gopalpur	TSF	Ongoing	250.00	160.00	118.320		118.320
LIVELIHOODS (SKILL DEVELOPM		Sub Total			255.00	160.00	119.820	0.000	119.820
SPORTS	5100005	Organising sports tournaments and coaching camps	TSF	One-time	15.00		15.004		15.004
SPORTS	5100009	Organising outdoor and leadership camps	TSF	One-time	10.00				0.000
SPORTS		Sub Total			25.00	0.00	15.004	0.000	15.004
ENVIRONMENT	5070001	Plantation	TSF	One-time	4.91	0.00			0.000
ENVIRONMENT	5070003	Renewable Energy (Solar Light)	TSF	One-time	19.00	0.00	18.687		18.687
ENVIRONMENT	5070004	Protection of flora and fauna	TSF	One-time	0.00	104.24		54.930	54.930
ENVIRONMENT		Sub Total			23.91	104.24	18.687	54.930	73.617
RURAL INFRASTRUCTURE	5130001	Infrastructural support for Rural Development	TSF	One-time	58.40		25.910		25.910
RURAL INFRASTRUCTURE & URB		Sub Total			58.40	0.00	25.910	0.000	25.910
DRINKING WATER	5010003	Installation of piped drinking water supply system	TSF	Ongoing	37.63		11.010		11.010
DRINKING WATER	5010004	Installation and repair of deep bores	TSF	Ongoing	7.67		6.243		6.243
DRINKING WATER	5010005	Installation and repair of hand tube wells	TSF	Ongoing	5.11		0.614		0.614
DRINKING WATER		Sub Total			50.41	0.00	17.866	0.000	17.866
Volunteerism	5140022	Employee Volunteerism	TSF	Ongoing	0.00		0.000		0.000
Volunteerism		Sub Total			0.00	0.00	0.000	0.000	0.000
SPECIAL COMMITTME	5020020	Gopalpur hospital (Medica) – Odisha	TSF	One-time	116.73		76.345		76.345
SPECIAL COMMITTMENTS		Sub Total			116.73	0.00	76.345	0.000	76.345
HR PROJECT COST	Separate li	HR cost (Salary)	TSRDS	Over Head	0.00				0.000
HR PROJECT COST	Separate li	HR cost (Salary)	TCS	Over Head	0.00				0.000
HR PROJECT COST	Separate li	HR cost (Salary)	TSF	Over Head	233.60	10.00	211.381		211.381
HR PROJECT COST	Separate li	Administrative expenses	TSRDS	Over Head	0.05				0.000
HR PROJECT COST	Separate li	Administrative expenses	TSF	Over Head	38.55		33.398		33.398
HR PROJECT COST	Separate li	HR Overheads Cost	TSF	Over Head	7.70		3.114		3.114
HR PROJECT COST	Separate li	Capital Items	TSF	Over Head	0.00				0.000
HR PROJECT COST	Separate li	Communication	TSF	Over Head	0.00		0.948		0.948

HR PROJECT COST	5140021	IT expenses	TSF	Over Head	0.00				0.000
HR PROJECT COST	5140204	Safety	TSF	Over Head	2.00				0.000
HR PROJECT COST		Sub Total			281.90	10.00	248.841	0.000	248.841
Combat COVID-19 init	5020019.1	Others	TSF	One-time	36.93		36.284		36.284
COMBAR COVID INITIATIVES		Sub Total			36.93	0.00	36.284	0.000	36.284
		GRAND TOTAL			1464.59	275.48	1078.98	56.17	1135.15