



Ref. No: TSSEZL/ ENV/MoEF/1241/2022

Dated: 31st May' 2022

To,

**Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ), A/3, Chandrasekharapur,
Bhubaneswar-751023**

e-mail: roez.bsr-mef@nic.in

Sub: Submission of Half yearly compliance status report of Environment Clearance conditions for the period of October' 2021 – March' 2022 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


Chittaranjan Mahali
Head - (Safety, Health & Environment)

Enclosure: As above.

Copy for kind information to:

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

TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

(A 100% subsidiary of Tata Steel Limited)

Regd. Off : Fortune Towers, 2nd Floor, Chandrasekharapur, Bhubaneswar-751023
Tel. No. 0674-6651019 Web 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'2021 – March'2022

Submitted By:

**Tata Steel Special Economic Zone Ltd
M/s. Tata Steel Limited
Fortune Tower, 5th Floor, Chandrasekharpur,
Bhubaneswar -751023 (Odisha)**

List of Annexures

Sl. No	Title of the Annexure	Annexure No.
1	Environment Monitoring Results of last Six months (October 21– March' 2022)	I
2	CSR Activities & expenditure details.	II

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

PART A-SPECIFIC CONDITIONS:

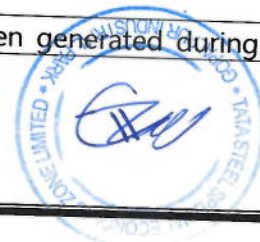
I. Construction Phase

SI	Specific Condition	Compliance Status (October'2021 – March'2022)
(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.
(x)	The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards for	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



SI	Specific Condition	Compliance Status (October'2021 – March'2022)
	all discharges from the Industrial Area into the sea.	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, and then recycled or reused for the identified uses	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 up common facilities for waste treatment, recycle and disposal.
(xvi)	The quantity of freshwater usage, water	One storm water reservoir has already been

SI	Specific Condition	Compliance Status (October'2021 – March'2022)
	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.	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.
(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	No hazardous wastes have been generated during



SI	Specific Condition	Compliance Status (October'2021 – March'2022)
	development/ construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State.	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.
(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



SI	Specific Condition	Compliance Status (October'2021 – March'2022)
(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.	cascade use and recycling treated water. 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 Rural Development Society (TSRDS), 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 TSRDS, 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'2021 – March'2022)
d)	To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and or shareholders or stakeholders at large.	Complied.
	II- Operation Phase	
i	Periodic monitoring of coastal water shall be carried out at outfall location.	No outfall location has been constructed as on date. Will be complied in future once the desalination plant is constructed.
ii	No use of ground water for proposed multi - product SEZ/industrial park.	Noted, Compliance shall be ensured.
iii	Identify and enhance skill development activities for the local community which would cater to the future needs of the of Industrial Park and increase skill levels of local people.	NTTF training institute is already established for skill development of local community. Skill development programmes to local youth is being conducted as part of Corporate Social Responsibility (CSR).
iv	Preparation of scheme for implementation of habitat improvement and biodiversity conservation plan and implementation schedule with the help of Salim Ali Centre for Ornithology and Natural History, Coimbatore (SACON), and same to be submitted to MoEF&CC and its Regional Office within six months. Sufficient fund provision to be made to implement the same.	The suggested measures are under implementation. Biodiversity study was conducted, and report has already been submitted to MoEF&CC.
v	The tree plantation programme should be made in supervision of experts who can guide from nursery up to the minimum 5 years maintenance period. The species composition should be made with local and fruit species and planted suitably in strip or lonely as per the land availability with drip water/irrigation facility. The natural water body and creek should be protected and undisturbed except taking conservation activities.	Shall be complied as per the approved plan of the project in the designated areas. Waterbodies will be protected with adequate protective measures; plantation will be developed all along and/or surrounding waterbodies such as creek, wetlands.
vi	Implementation of Marine Environmental Management Plan in Toto.	Compliance shall be ensured.
vii	All the topsoil excavated during development/construction activities should be stored for use in horticulture/landscape development within the project site.	Being Complied.
viii	Disposal of muck during development/construction phase should not create any adverse effect on the	Being Complied.



SI	Specific Condition	Compliance Status (October'2021 – March'2022)
	neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	
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.	Noted, Compliance shall be ensured.



Sl	Specific Condition	Compliance Status (October'2021 – March'2022)
	Parking, loading 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'2021 – March'2022)
i	The responsibility to comply with the EC conditions mentioned in this letter is solely of the project proponent.	Noted, Compliance shall be ensured.
ii	The environmental safeguards contained in the EIA report shall be implemented in letter and spirit.	Noted, Compliance shall be ensured.
iii	Provision shall be made for supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Being Complied.
iv	Six Monthly monitoring reports shall be submitted to the Ministry and concerned Regional Office of the Ministry.	Being Complied.
v	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	Complied.
vi	The project proponent shall set up a separate Environmental Management Cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Environment Management cell is in place.
vii	The funds earmarked for Environment Management Plan shall be included in the budget and this shall not be diverted for	Noted, Compliance shall be ensured.



Sl.No.	Stipulated Condition	Compliance Status (October'2021 – March'2022)
	any other purpose.	
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	Complied.



Sl.No.	Stipulated Condition	Compliance Status (October'2021 – March'2022)
	of the clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at http://www.envfor.nic.in . The advertisement shall be made within seven days from the date of receipt of the clearance letter and a copy of the same shall be forwarded to the concerned Regional Office of this Ministry.	
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,	Noted, Compliance shall be ensured.



Sl.No.	Stipulated Condition	Compliance Status (October'2021 – March'2022)
	1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry/CPCB/SPCB by e-mail.	
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



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

Date: 31st May ' 2022

Annexure-I

		TATA STEEL SPECIAL ECONOMIC ZONE LIMITED									GOPALPUR INDUSTRIAL PARK	
Ambient Air Quality Analysis Report												
Location: Near TSSEZL Project Office												
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Oct-21	61.23	30.75	7.08	14.4	0.35	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Nov-21	60	30.3	7.1	14.3	0.3	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Dec-21	67.7	35.4	10	19.6	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Jan-22	66.6	34.5	10.7	21.3	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Feb-22	68.5	35.8	11.2	22.3	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Mar-22	69.1	36	12.3	23.7	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MAX	69.1	36	12.3	23.7	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MIN	60	30.3	7.08	14.3	0.3	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	65.5	33.7	9.7	19.3	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08

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-21	63.15	31.81	7.38	14.85	0.36	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Nov-21	60.8	30.2	7.1	14.5	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Dec-21	71.2	36.9	10.8	20.9	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Jan-22	69.4	35.5	11.4	22.2	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Feb-22	71.2	37.1	11.9	23	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Mar-22	73.4	37.9	13.4	24.9	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MAX	73.4	37.9	13.4	24.9	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MIN	60.8	30.2	7.1	14.5	0.36	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	68.2	34.9	10.3	20.1	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08

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-21	68.14	33.94	7.95	15.64	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Nov-21	63.4	31.6	7.6	16.4	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Dec-21	74.4	38.6	11.5	22.2	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Jan-22	72	37.2	12.1	23	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Feb-22	74.9	38.8	12.7	23.8	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Mar-22	79.7	41.4	14.7	26.1	0.6	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MAX	79.7	41.4	14.7	26.1	0.6	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MIN	63.4	31.6	7.6	15.64	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	72.1	36.9	11.1	21.2	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08



**Upstream of Khari
Nalla(SW1)**

Result

[illegible]

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	500	320	270	450	410	900	900	270	475



TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

GOPALPUR
INDUSTRIAL PARK

Surface Water Analysis Report

Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	MAX	MIN	AVG
Colour, Max.	Hazen	30	110	60	180	120	100	180	30	100
pH Value @ 25°C	--	7.42	7.64	7.55	7.84	7.68	7.58	7.84	7.42	7.274
Chloride as Cl, Max.	mg/l	54.0	62.0	57	50.0	53	58.0	62	50	55.66
Dissolved Solids, Max.	mg/l	384	402	398	327	348	362	402	327	370.1
Dissolved Oxygen, Min.	mg/l	6.1	6.2	5.9	5.9	6.1	5.8	6.2	5.8	6
BOD for 3 days@ 27° C, Max.	mg/l	<2.0	<2.0	<2.0	2.6	3.2	3.8	3.8	<2.0	2.6
Sulphate as SO ₄ , Max.	mg/l	14.6	17.4	16.8	13.2	14.2	17.6	17.6	13.2	15.6
Nitrate as NO ₃ , Max.	mg/l	2.8	3.1	3.14	2.78	2.84	3.06	3.14	2.8	2.95
Fluoride as F, Max.	mg/l	0.1	0.12	0.11	0.15	0.18	0.2	0.2	0.1	0.14
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	0.16	0.12	0.13	0.18	0.16	0.08	0.18	0.08	0.13
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	410	210	170	410	310	450	450	170	326.66

 TATA	TATA STEEL SPECIAL ECONOMIC ZONE LIMITED	GOPALPUR INDUSTRIAL PARK
Noise Monitoring Report		
Location: Near TSSEZL Project Office		
Months	DAY TIME dB(A)	NIGHT TIME dB(A)
Oct-21	58.69	39.74
Nov-21	60.5	41.3
Dec-21	60.8	41.7
Jan-22	61.2	41.7
Feb-22	60.6	40.7
Mar-22	60.7	40.7
MAX	61.2	41.7
MIN	58.69	39.74
AVG	60.4	41.0
Near TSSEZL Anadrone Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Oct-21	63.35	45.87
Nov-21	64.3	48.6
Dec-21	64.3	49
Jan-22	64.9	49.2
Feb-22	65	49.2
Mar-22	65.3	50.7
MAX	65.3	50.7
MIN	63.35	45.87
AVG	64.5	48.8

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

AMBIENT AIR QUALITY MONITORING TEST REPORT

TEST CERTIFICATE

Report No:-GESEC/PRO/2021-22/11/01	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near TS SEZL Project Office
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

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 (µg/m ³)
04.10.2021	58.2	29.6	6.8	13.4	0.3
07.10.2021	61.4	31.4	7.2	14.8	0.4
11.10.2021	55.6	27.1	6.2	13.2	0.3
13.10.2021	59.4	28.8	6.6	13.8	0.3
18.10.2021	61.7	31.2	7.1	14.4	0.3
21.10.2021	64.2	32.4	7.4	15.1	0.4
25.10.2021	66.5	33.4	7.8	15.8	0.4
28.10.2021	62.8	32.1	7.5	14.7	0.4
Avg	61.23	30.75	7.08	14.4	0.35
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

Authorized Signatory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

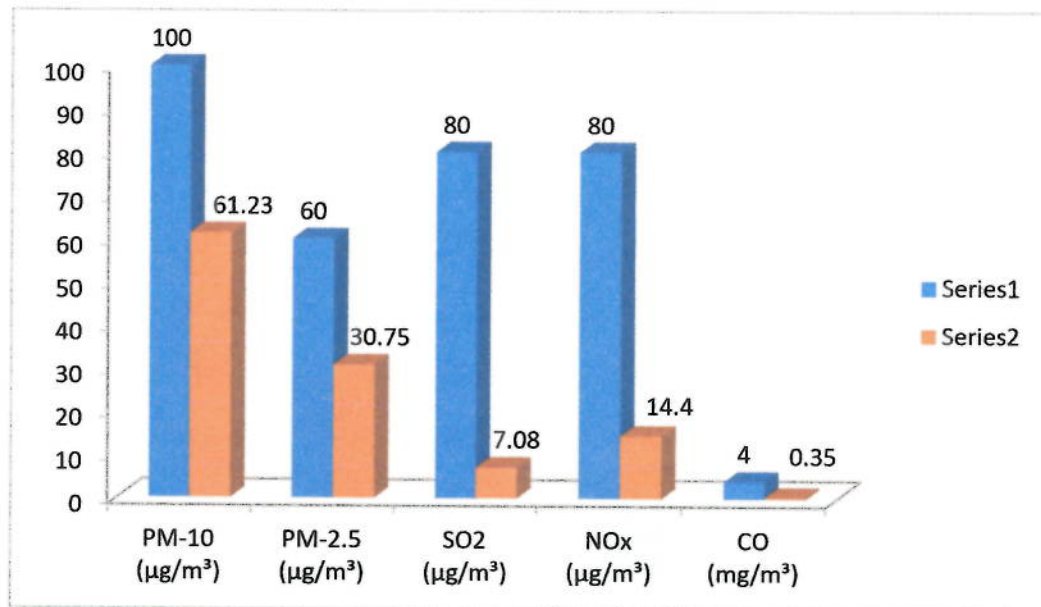
Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

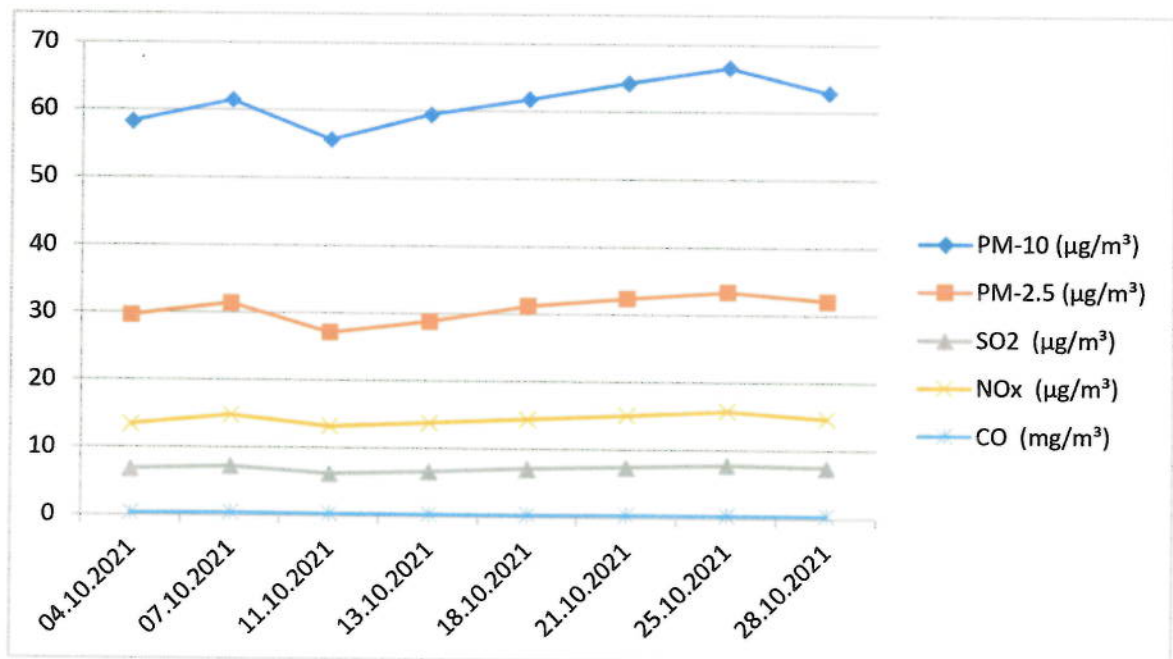


Seal of Laboratory

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of October-21

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



AMBIENT AIR QUALITY MONITORING TEST REPORT

TEST CERTIFICATE	
Report No:- GESEC/PRO/2021-22/11/02	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near Anadrone Office
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

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 (µg/m ³)
04.10.2021	60.4	30.2	7.1	13.9	0.3
07.10.2021	63.5	32.4	7.5	15.2	0.4
11.10.2021	56.9	27.7	6.4	13.4	0.3
13.10.2021	59.9	29.2	6.8	14.2	0.3
18.10.2021	64.5	32.2	7.4	14.8	0.4
21.10.2021	66.9	35.5	7.8	15.8	0.4
25.10.2021	67.6	34.2	8.1	16.1	0.4
28.10.2021	65.5	33.1	7.9	15.4	0.4
Avg	63.15	31.81	7.38	14.85	0.36
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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


Authorized Signatory




Seal of Laboratory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of

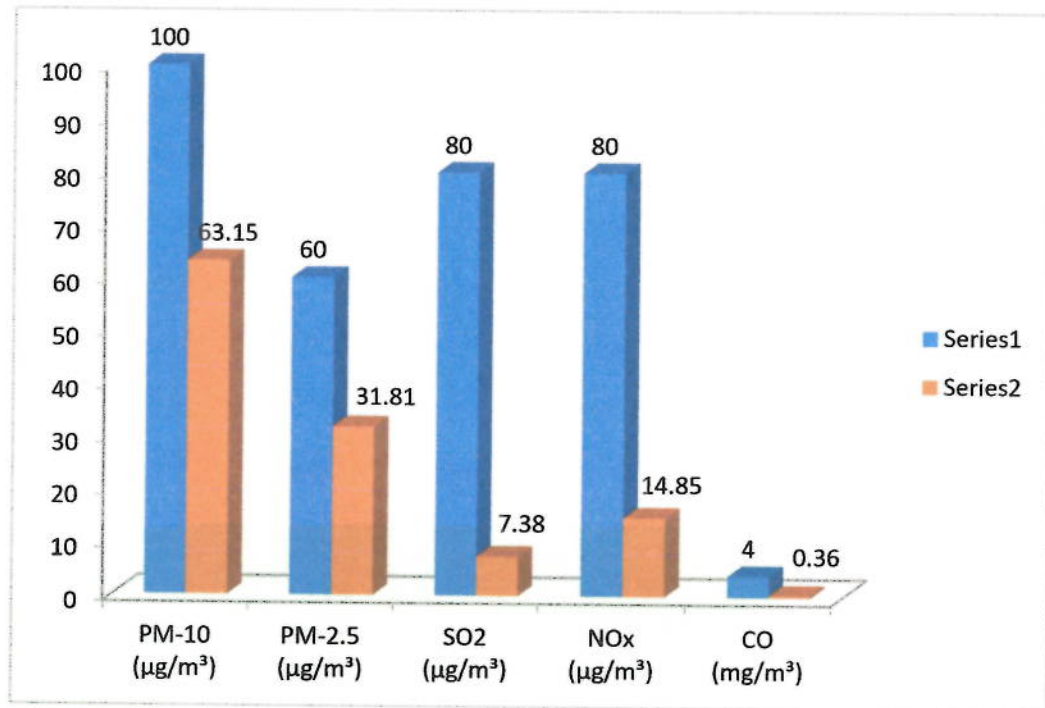
Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

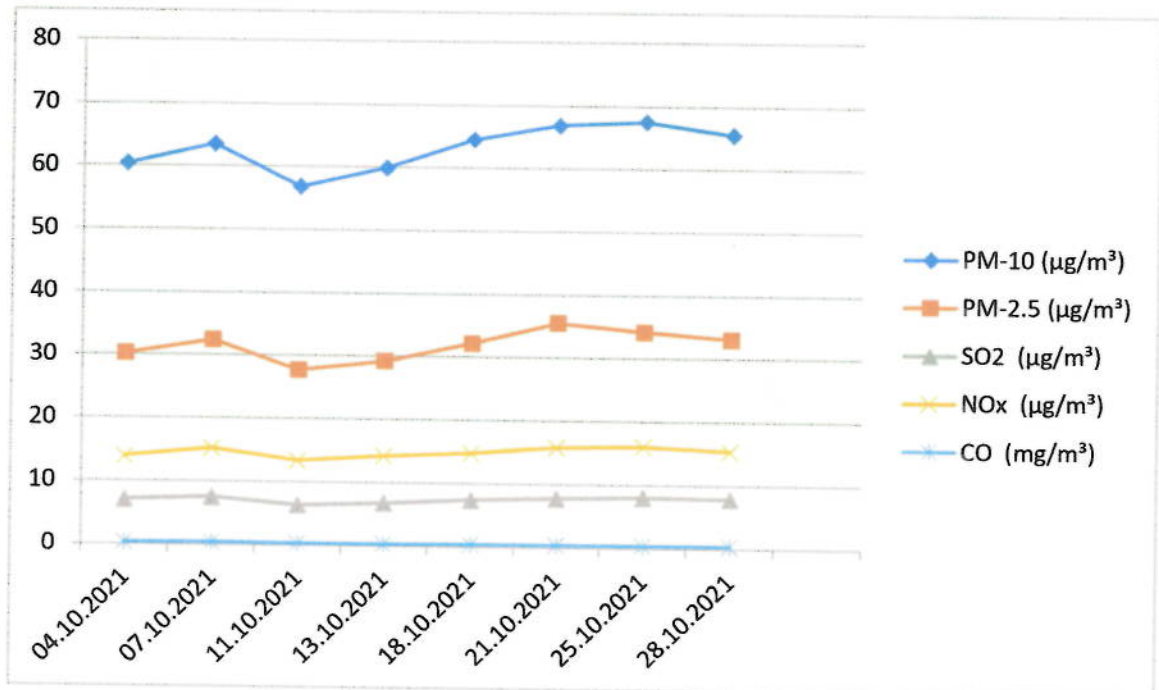
6854
98056
145-9
55-4

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

Law without prior written consent of the laboratory.



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-02 (Near Anadrone Office) For the Month of October-21

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/03	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

AMBIENT AIR QUALITY MONITORING TEST REPORT

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 (µg/m ³)
04.10.2021	64.8	32.5	7.6	14.8	0.4
07.10.2021	67.2	33.4	7.9	15.6	0.4
11.10.2021	61.6	30.4	7.2	14.2	0.4
13.10.2021	64.9	32.5	7.5	14.8	0.4
18.10.2021	68.6	34.2	7.9	15.4	0.4
21.10.2021	70.4	35.5	8.4	16.4	0.4
25.10.2021	73.4	36.2	8.5	16.8	0.4
28.10.2021	74.2	36.8	8.6	17.1	0.4
Avg	68.14	33.94	7.95	15.64	0.4
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

Authorized Signatory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

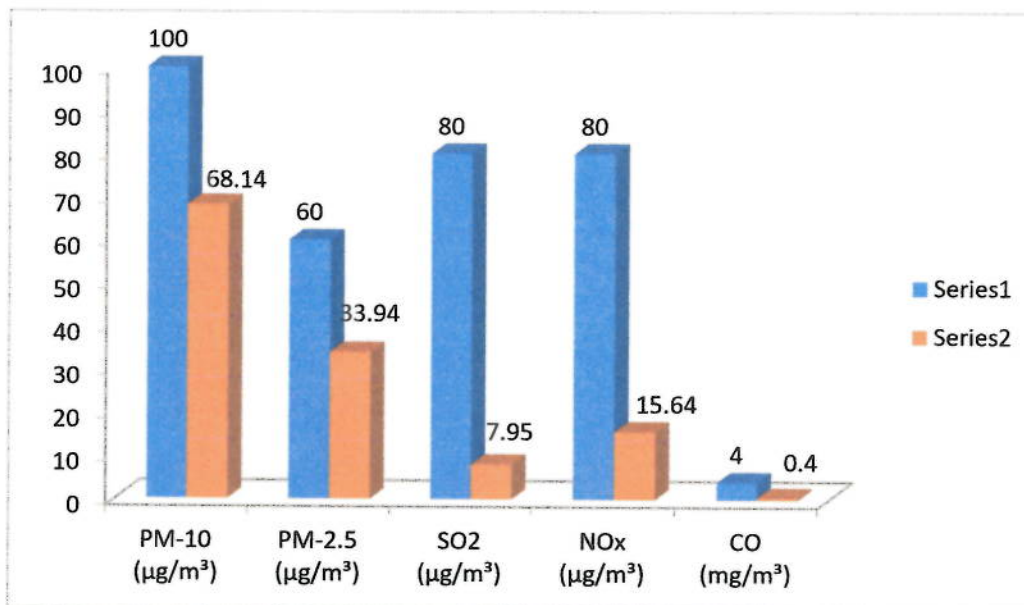
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



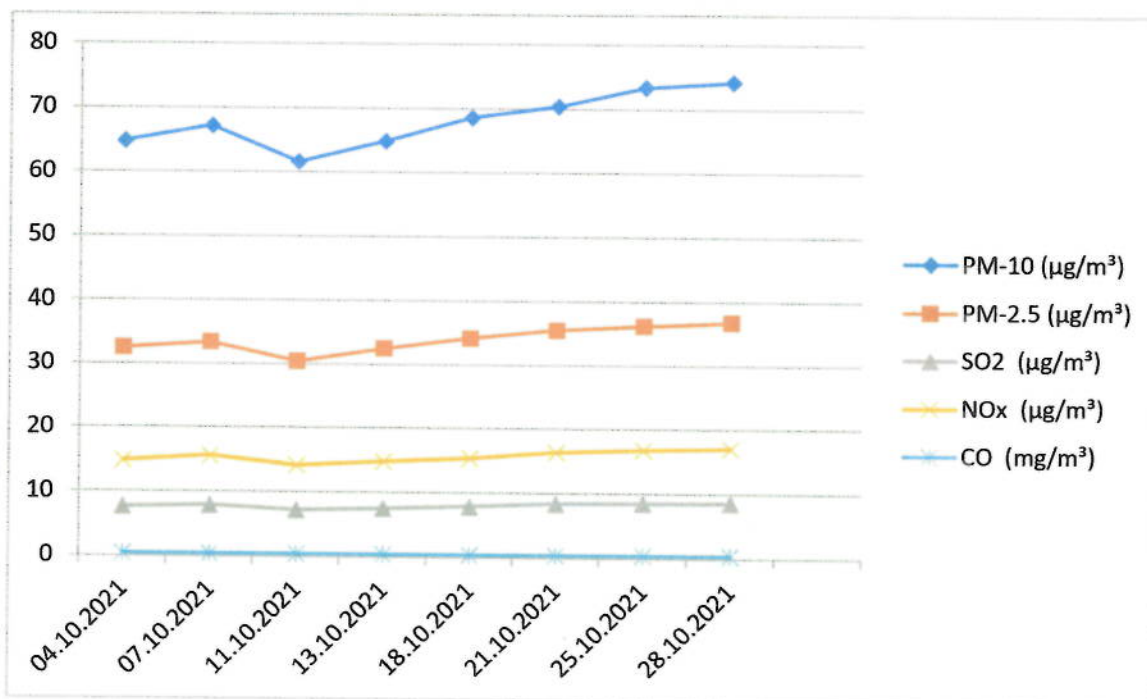
Seal of Laboratory

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-03 (Near Main Gate, Chama Khandi) For the Month of October-21

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/04	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly (Special)
Date of Sampling	21.10.2021
Sample Drawn by	GESEC
Sampling Location	Near TSSEZL Project Office
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Relative Humidity	82	% RH	
3.	Sulphur Dioxide(SO ₂)	7.4	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	15.1	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	64.2	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	32.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	<08	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	<18	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.1	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.42	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.4	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY




Seal of Laboratory



Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
 The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
 The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
 Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
 We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.
 MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/05	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly (Special)
Date of Sampling	21.10.2021
Sample Drawn by	GESEC
Sampling Location	Near Anadron Office
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Relative Humidity	82	% RH	
3.	Sulphur Dioxide(SO ₂)	7.8	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	15.8	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	66.9	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	33.5	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	<08	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	<18	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.1	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.44	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.5	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY

[Signature]



Seal of Laboratory

[Signature]

Terms and conditions

This report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
This test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/06	
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly (Special)
Date of Sampling	21.10.2021
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	02.11.2021
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

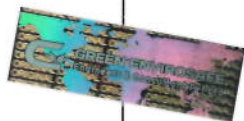
Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	28	°C	
2.	Relative Humidity	83	% RH	
3.	Sulphur Dioxide(SO ₂)	8.4	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	16.4	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	70.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	35.5	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	<08	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	<18	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.6	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.46	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.5	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY

Seal of Laboratory



Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/07

Client Name and Address:
TATA STEEL SPECIAL ECONOMIC
ZONE LTD
Gopalpur Industrial Park-DTA
Chamakhandi, Chhatrapur, Dist-Ganjam
Odisha-761020

Date of Sampling	22.10.2021
Start Date of Analysis	23.10.2021
End Date of Analysis	26.10.2021
Sample Details	Surface water (US)
Nature of sample	Liquid

Sample Collected By Green EnviroSafe Engineers & Consultant Pvt. Ltd.

P.O NO TSSEZL/2021/30002103166

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	<5	300	Hazen	IS 3025: (Part 4)- 1983; (RA-2017)
2	pH	7.64	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	64.0	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	472	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	5.9	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	<2.0	3	mg/l	IS 3025: Part 44- 1993; (RA-2014)
7	Sulphates as SO4	18.2	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.2	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.14	1.5	mg/l	APHA 23rd ED 4500-F-D: 2017
10	Total Oil & Grease	ND	0.1	mg/l	APHA 23rd ED 5520-B: 2017
11	Cyanide as CN	ND	0.05	mg/l	IS 3025 (Part 27); 1986
12	Copper as Cu	<0.03	1.5	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
13	Iron as Fe	0.18	50	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
14	Lead as Pb	<0.01	0.1	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
15	Zinc as Zn	<0.05	15	mg/l	APBA 31 I IB,23rd Ed 2017 (AAS)
16	Arsenic as As	<0.001	0.2	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
17	Selenium as Se	<0.001	0.05	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
18	Cadmium as Cd	ND	0.01	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
19	Chromium as Cr6+	<0.05	0.05	mg/l	APHA 4500 Cr B 23rd Ed. 2017 (AAS)
20	Phenolic Compounds	ND	0.005	mg/l	IS : 3025 (Part 23)
21	Total Coliform	500	5000	MPN/100 ml	IS : 1622(rev.2014)

Remark(s): All above results of Water Sample is chemically potable and bacteriologically with respect to above parameters.

BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY

ANALYZED BY-

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/08

Client Name and Address:
TATA STEEL SPECIAL ECONOMIC
ZONE LTD
Gopalpur Industrial Park-DTA
Chamakhandi, Chhatrapur, Dist-Ganjam
Odisha-761020

Date of Sampling	22.10.2021
Start Date of Analysis	23.10.2021
End Date of Analysis	26.10.2021
Sample Details	Surface water (DS)
Nature of sample	Liquid

Sample Collected By

Green EnviroSafe Engineers & Consultant Pvt. Ltd.

P.O NO

TSSEZL/2021/30002103166

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	30	300	Hazen	IS 3025: (Part 4)- 1983;(RA-2017)
2	pH	7.42	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	54.0	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	384	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.1	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	<2.0	3	mg/l	IS 3025: Part 44- 1993;(RA-2014)
7	Sulphates as SO4	14.6	400	mg/l	APHA 23rd ED 4500-SO4-E: 2017
8	Nitrates as NO ₃	2.8	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.1	1.5	mg/l	APHA 23rd ED 4500-F-D: 2017
10	Total Oil & Grease	ND	0.1	mg/l	APHA 23rd ED 5520-B: 2017
11	Cyanide as CN	ND	0.05	mg/l	IS 3025 (Part 27); 1986
12	Copper as Cu	<0.03	1.5	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
13	Iron as Fe	0.16	50	mg/l	APHA 23rd ED 3500-Fe-B: 2017
14	Lead as Pb	<0.01	0.1	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
15	Zinc as Zn	<0.05	15	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
16	Arsenic as As	<0.001	0.2	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
17	Selenium as Se	<0.001	0.05	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
18	Cadmium as Cd	ND	0.01	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
19	Chromium as Cr6+	<0.05	0.05	mg/l	APHA 23rd ED 3500-Cr-B: 2017
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	410	5000	MPN/100 ml	IS 1622:1981

Remark(s): All above results of Water Sample is chemically potable and bacteriologically with respect to above parameters.

BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY




ANALYZED BY-



Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/09

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	22.10.2021
	Sample Details	Noise For 24 Hours
	Sample location	Near TSSEZL Project Office
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd.	
P.O NO	TSSEZL/2021/30002103166	

Noise Monitoring Result

Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
22.10.2021	06.00	53.2	22.10.2021	18.00	62.3	dB(A)	75/70
22.10.2021	07.00	53.7	22.10.2021	19.00	63.6	dB(A)	
22.10.2021	08.00	55.8	22.10.2021	20.00	56.4	dB(A)	
22.10.2021	09.00	62.2	22.10.2021	21.00	50.1	dB(A)	
22.10.2021	10.00	63.6	22.10.2021	22.00	44.9	dB(A)	
22.10.2021	11.00	64.1	22.10.2021	23.00	39.1	dB(A)	
22.10.2021	12.00	66.0	23.10.2021	24.00	37.3	dB(A)	
22.10.2021	13.00	65.2	23.10.2021	01.00	36.9	dB(A)	
22.10.2021	14.00	59.1	23.10.2021	02.00	35.4	dB(A)	
22.10.2021	15.00	57.5	23.10.2021	03.00	37.8	dB(A)	
22.10.2021	16.00	58.9	23.10.2021	04.00	41.1	dB(A)	
22.10.2021	17.00	61.1	23.10.2021	05.00	50.6	dB(A)	
Day Time Leq		58.69					
Night Time Leq		39.74					

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB..(A)

AUTHORIZED SIGNATORY

(Signature)



ANALYZED BY-

(Signature)

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.
MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

Recognised by Ministry of Environment, Forest & Climate Change (MoEF) Govt. of India and ISO 9001:2015, ISO 45001 : 2018 Certified Company

NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2021-22/11/10

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	22.10.2021
	Sample Details	Noise For 24 Hours
	Sample location	Near Anadrone Office
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd.	
P.O NO	TSSEZL/2021/30002103166	

Noise Monitoring Result

Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
22.10.2021	06.00	62.5	22.10.2021	18.00	66.1	dB(A)	75/70
22.10.2021	07.00	59.1	22.10.2021	19.00	65.2	dB(A)	
22.10.2021	08.00	61.0	22.10.2021	20.00	57.1	dB(A)	
22.10.2021	09.00	65.9	22.10.2021	21.00	53.1	dB(A)	
22.10.2021	10.00	67.6	22.10.2021	22.00	65.2	dB(A)	
22.10.2021	11.00	68.9	22.10.2021	23.00	48.9	dB(A)	
22.10.2021	12.00	65.9	23.10.2021	24.00	46.0	dB(A)	
22.10.2021	13.00	66.8	23.10.2021	01.00	42.1	dB(A)	
22.10.2021	14.00	67.2	23.10.2021	02.00	38.6	dB(A)	
22.10.2021	15.00	65.6	23.10.2021	03.00	40.4	dB(A)	
22.10.2021	16.00	59.1	23.10.2021	04.00	44.3	dB(A)	
22.10.2021	17.00	60.7	23.10.2021	05.00	60.8	dB(A)	
Day Time Leq		63.35					
Night Time Leq		45.87					

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB.(A)

AUTHORIZED SIGNATORY

ANALYZED BY-





Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2021-22/03/1095
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near TS SEZL Project Office
Issued Date	03.04.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

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 (µg/m ³)
03.03.2022	70.2	36.3	12.5	23.8	0.5
07.03.2022	68.1	35.4	12.2	23.2	0.5
10.03.2022	63.5	33.8	11.4	21.6	0.5
14.03.2022	69.4	36.2	11.8	22.9	0.5
17.03.2022	71.5	37.2	12.7	24.2	0.5
21.03.2022	66.7	34.1	12.1	23.6	0.5
24.03.2022	72.4	38.1	12.8	24.5	0.5
28.03.2022	69.8	36.2	12.6	24.8	0.5
31.03.2022	70.2	36.8	12.8	25.1	0.5
Avg	69.1	36.0	12.3	23.7	0.5
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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


Authorized Signatory




Seal of Laboratory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

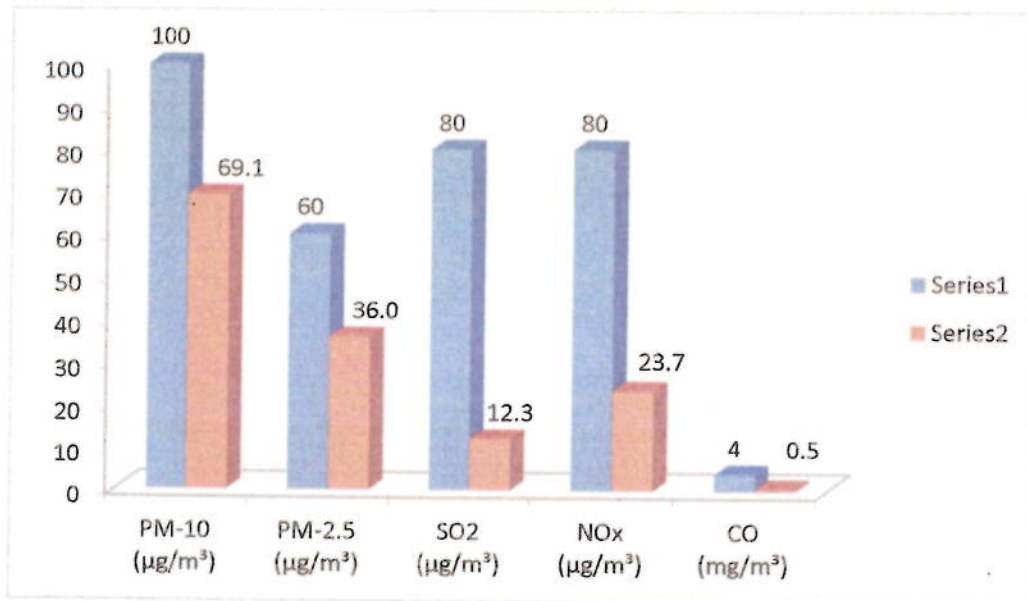
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

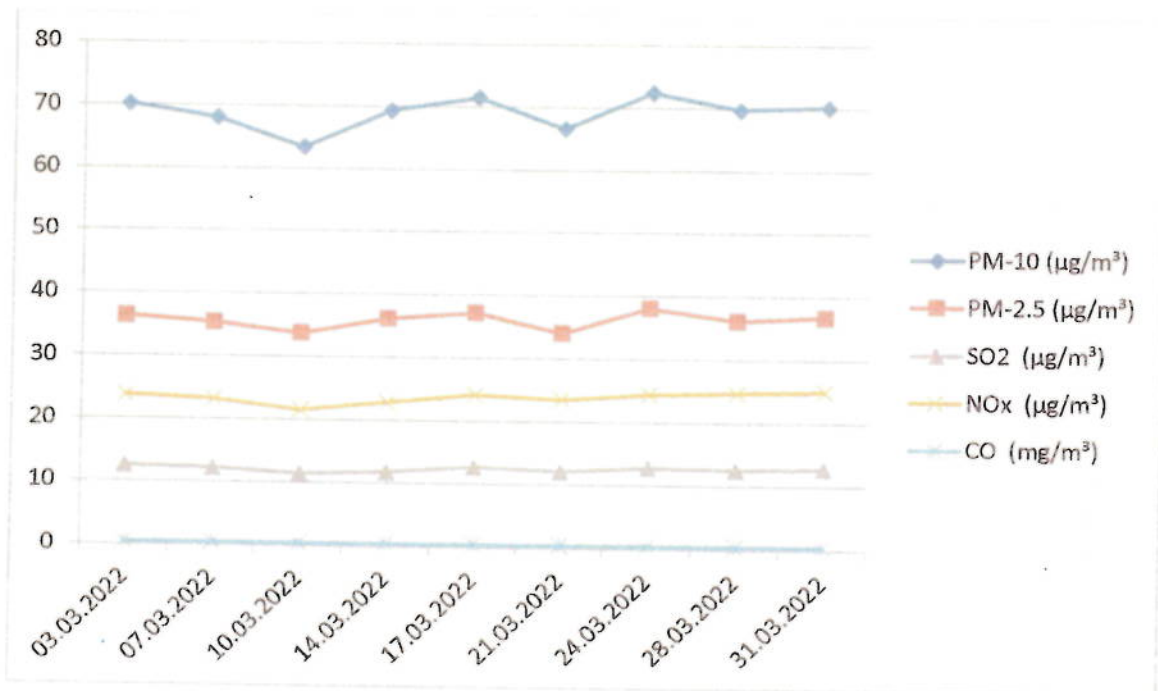
MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-01(Near TSSEZL Project Office) For the Month of March -22

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022





Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2021-22/03/1096
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near Anadron Office
Issued Date	03.04.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

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 (µg/m ³)
03.03.2022	73.5	37.8	13.6	24.6	0.5
07.03.2022	72.4	37.9	13.2	24.2	0.5
10.03.2022	69.8	35.6	12.8	23.5	0.5
14.03.2022	74.2	38.4	13.2	24.6	0.5
17.03.2022	75.6	38.8	13.8	25.6	0.5
21.03.2022	68.9	35.2	12.8	24.2	0.5
24.03.2022	75.7	39.4	13.5	25.8	0.5
28.03.2022	74.2	38.2	13.9	25.6	0.5
31.03.2022	76.1	40.2	14.2	26.4	0.5
Avg	73.4	37.9	13.4	24.9	0.5
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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


Authorized Signatory




Seal of Laboratory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

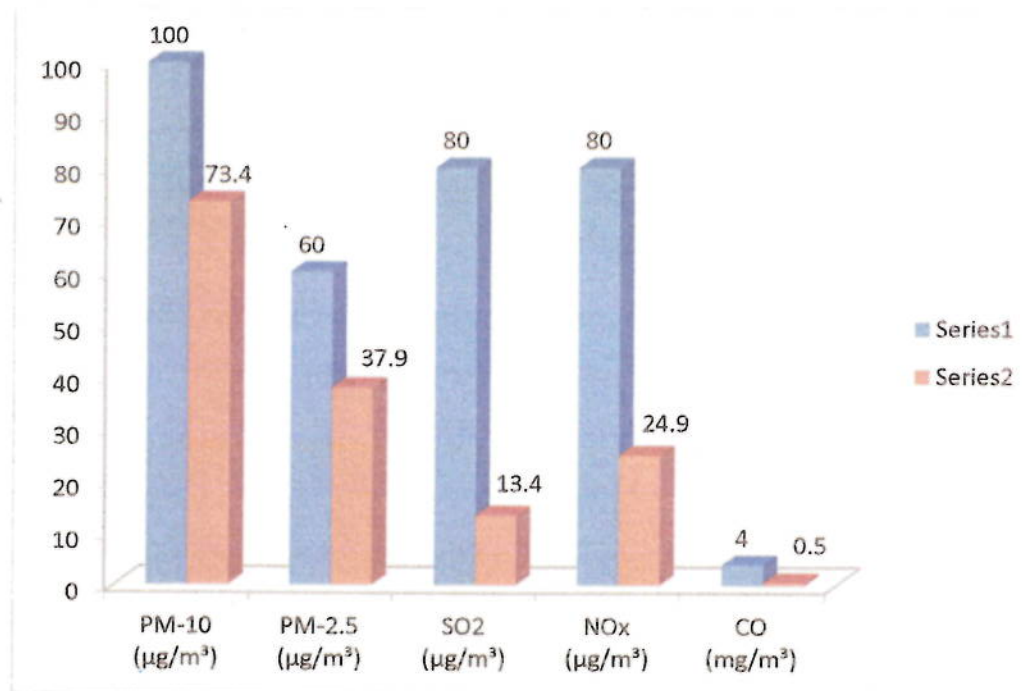
Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

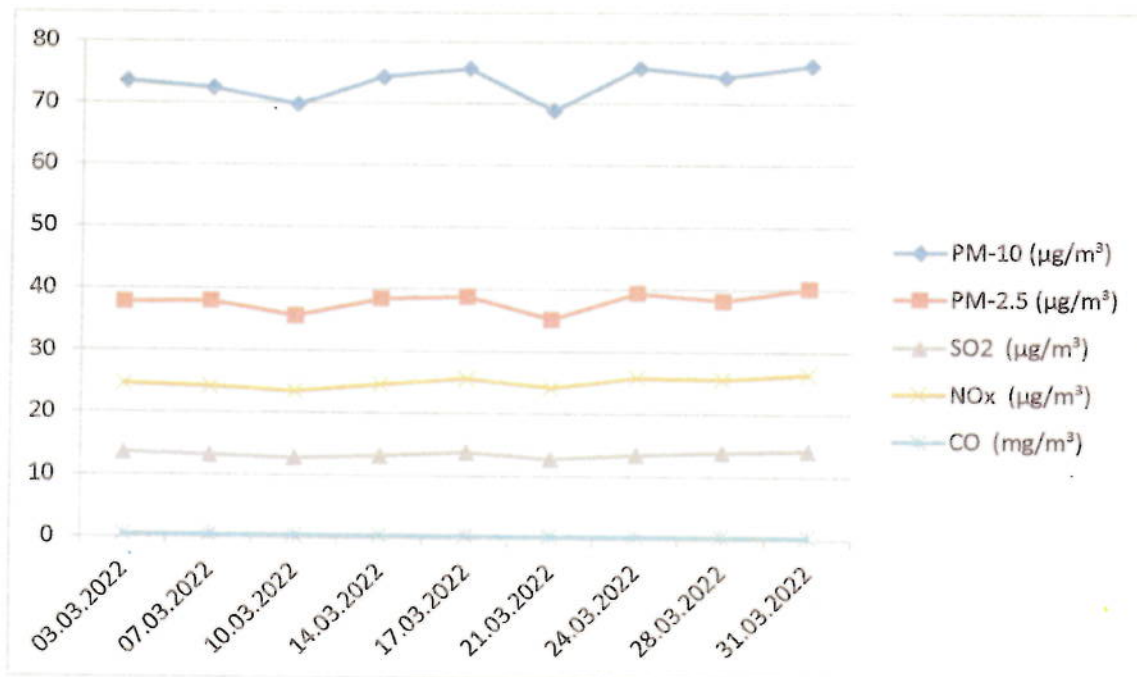
MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-02 (Near Anadron Office) For the Month of March-22

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

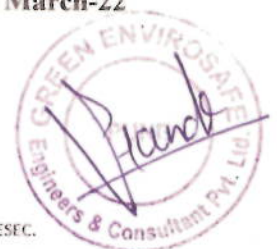
The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022





Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2021-22/03/1097
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.04.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

AMBIENT AIR QUALITY MONITORING TEST REPORT

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 (µg/m ³)
03.03.2022	77.8	40.2	14.5	25.6	0.5
07.03.2022	78.4	40.8	14.8	25.9	0.5
10.03.2022	75.6	38.5	13.8	24.6	0.5
14.03.2022	79.6	41.2	14.6	25.8	0.5
17.03.2022	81.8	42.8	14.8	26.4	0.6
21.03.2022	77.2	39.5	14.2	25.6	0.6
24.03.2022	82.8	43.4	14.8	26.5	0.6
28.03.2022	80.5	41.8	15.2	26.9	0.6
31.03.2022	83.8	44.5	15.5	27.2	0.6
Avg	79.7	41.4	14.7	26.1	0.6
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

Authorized Signatory

Notes:

- ☐ The result given above related to the tested sample, as received. The customer asked for the above test only.
- ☐ This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- ☐ This Test Report shall not be used in any advertising media or as evidence in the court of

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022

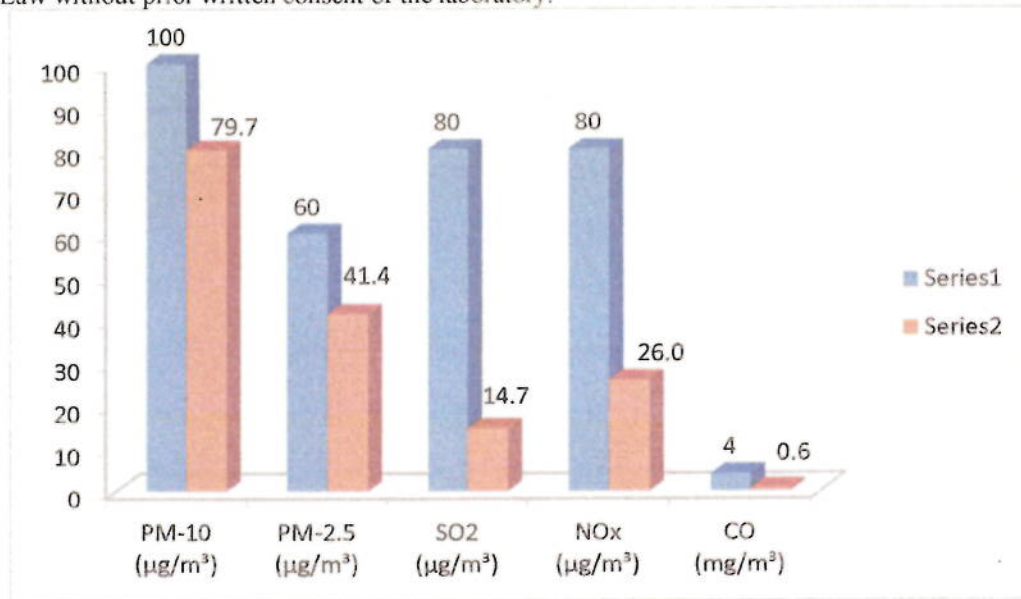


Seal of Laboratory

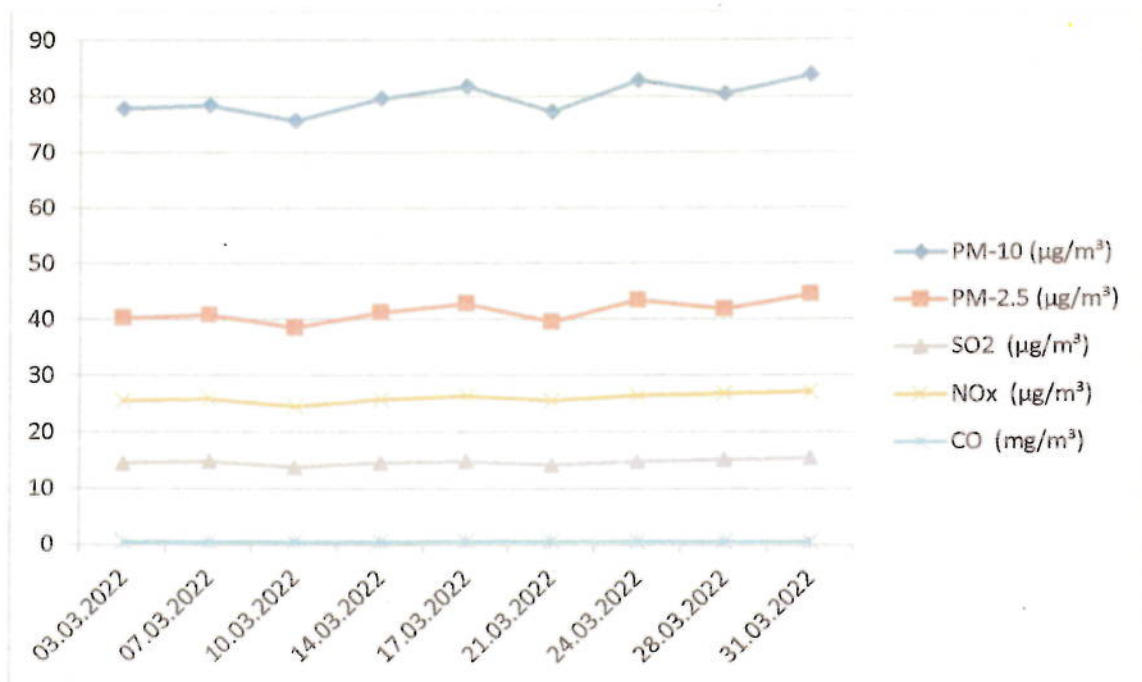


Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

Law without prior written consent of the laboratory.



NB-Series 1-Stands for Standard, Series 2-Stands for Result



This Graph is belongs to Station-03 (Near Main Gate, Chama Khandi) For the Month of March-22

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2021-22/03/1098
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly (Special)
Date of Sampling	24.03.2022
Sample Drawn by	GESEC
Sampling Location	Near TSSEZL Project Office
Issued Date	03.04.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	33	°C	
2.	Relative Humidity	81	% RH	
3.	Sulphur Dioxide(SO ₂)	12.8	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	24.5	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	72.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	38.1	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.5	mg/M ³	≤ 04
8.	Ozone(O ₃)	13.2	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	35.6	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.1	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.42	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.4	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY


Seal of Laboratory

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 15/02/2022 to 04/12/2022

**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : envirosafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2021-22/03/1099			
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.			
Sample Description	Ambient Air Quality			
Sample Drawn Period/Time	Monthly (Special)			
Date of Sampling	24.03.2022			
Sample Drawn by	GESEC			
Sampling Location	Near Anadron Office			
Issued Date	03.04.2022			
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment			
P.O NO	TSSEZL/2021/30002103166			
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	35	°C	
2.	Relative Humidity	82	% RH	
3.	Sulphur Dioxide(SO ₂)	13.5	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	25.8	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	75.7	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	39.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.5	mg/M ³	≤ 04
8.	Ozone(O ₃)	13.8	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	37.6	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.1	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.44	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.5	ng/M ³	≤ 20
Remark- ➤ All above results are within National Ambient Air Quality standards. ➤ BDL – Below Detectable Limit.				
AUTHORIZED SIGNATORY			Seal of Laboratory	
			 	

Terms and conditions

This report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

This test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022

**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed,

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : environsafetyeng@gmail.com, gesecc12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

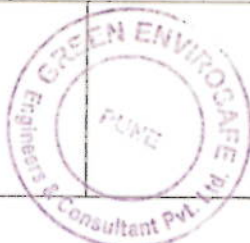
Report No:-	GESEC/PRO/2021-22/03/1100
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly (Special)
Date of Sampling	24.03.2022
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.04.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	35	°C	
2.	Relative Humidity	85	% RH	
3.	Sulphur Dioxide(SO ₂)	14.8	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	26.5	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	82.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	43.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.6	mg/M ³	≤ 04
8.	Ozone(O ₃)	15.2	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	41.6	µg/M ³	≤ 400
11.	Benzene(C ₆ H ₆)	<4.6	µg/M ³	≤ 05
12.	Benzo(a)Pyrene(BaP)	<0.08	ng/M ³	≤ 01
13.	Arsenic(As)	<0.46	ng/M ³	≤ 06
14.	Nickel(Ni)	<0.5	ng/M ³	≤ 20

Remark-

- All above results are within National Ambient Air Quality standards.
- BDL – Below Detectable Limit.

AUTHORIZED SIGNATORY**Seal of Laboratory****Terms and conditions**

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:-GESEC/PRO/2021-22/03/1101

Client Name and Address:
TATA STEEL SPECIAL ECONOMIC
ZONE LTD
Gopalpur Industrial Park-DTA
Chamakhandi, Chhatrapur, Dist-Ganjam
Odisha-761020

Date of Sampling	25.03.2022
Start Date of Analysis	25.03.2022
End Date of Analysis	01.04.2022
Sample Details	Surface water (US)
Nature of sample	Liquid

Sample Collected By

Green EnviroSafe Engineers & Consultant Pvt. Ltd.

P.O NO

TSSEZL/2021/30002103166

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	50	300	Hazen	IS 3025: (Part 4)- 1983; (RA-2017)
2	pH	8.16	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	70	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	524	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	5.9	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	3.4	3	mg/l	IS 3025: Part 44- 1993; (RA-2014)
7	Sulphates as SO ₄	19.8	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.42	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.25	1.5	mg/l	APHA 23rd ED 4500-F-D: 2017
10	Total Oil & Grease	ND	0.1	mg/l	APHA 23rd ED 5520-B: 2017
11	Cyanide as CN	ND	0.05	mg/l	IS 3025 (Part 27), 1986
12	Copper as Cu	<0.03	1.5	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
13	Iron as Fe	0.25	50	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
14	Lead as Pb	<0.01	0.1	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
15	Zinc as Zn	<0.05	15	mg/l	APBA 3111B.23rd Ed 2017 (AAS)
16	Arsenic as As	<0.001	0.2	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
17	Selenium as Se	<0.001	0.05	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
18	Cadmium as Cd	ND	0.01	mg/l	APHA 3111B.23rd Ed 2017 (AAS)
19	Chromium as Cr ⁶⁺	<0.05	0.05	mg/l	APHA 4500 Cr B 23rd Ed. 2017 (AAS)
20	Phenolic Compounds	ND	0.005	mg/l	IS : 3025 (Part 23)
21	Total Coliform	900	5000	MPN/100 ml	IS : 1622(rev.2014)

Remark(s): All above results of Water Sample is chemically potable and bacteriologically with respect to above parameters.

BDL – Below Detectable Limit.
AUTHORIZED SIGNATORY
ANALYZED BY-

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022

**GREEN ENVIROSAFE**

Engineers & Consultant Pvt Ltd.

A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed.

Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666

E-mail : envirosafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SURFACE WATER QUALITY TEST REPORT**TEST CERTIFICATE****Report No:-GESEC/PRO/2021-22/03/1102****Client Name and Address:****TATA STEEL SPECIAL ECONOMIC
ZONE LTD****Gopalpur Industrial Park-DTA****Chamakhandi, Chhatrapur, Dist-Ganjam
Odisha-761020****Date of Sampling**

25.03.2022

Start Date of Analysis

25.03.2022

End Date of Analysis

01.04.2022

Sample Details

Surface water (DS)

Nature of sample

Liquid

Sample Collected By

Green EnviroSafe Engineers & Consultant Pvt. Ltd.

P.O NO

TSSEZL/2021/30002103166

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	100	300	Hazen	IS 3025: (Part 4)- 1983;(RA-2017)
2	pH	7.58	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	58	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	362	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	5.8	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	3.8	3	mg/l	IS 3025: Part 44- 1993;(RA-2014)
7	Sulphates as SO ₄	17.6	400	mg/l	APHA 23rd ED 4500-SO ₄ -E: 2017
8	Nitrates as NO ₃	3.06	50	mg/l	APHA 23rd ED 4500-NO ₃ -B: 2017
9	Fluoride as F	0.2	1.5	mg/l	APHA 23rd ED 4500-F-D: 2017
10	Total Oil & Grease	ND	0.1	mg/l	APHA 23rd ED 5520-B: 2017
11	Cyanide as CN	ND	0.05	mg/l	IS 3025 (Part 27): 1986
12	Copper as Cu	<0.03	1.5	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
13	Iron as Fe	0.08	50	mg/l	APHA 23rd ED 3500-Fe-B: 20 17
14	Lead as Pb	<0.01	0.1	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
15	Zinc as Zn	<0.05	15	mg/l	APBA 31 1 1B,23rd Ed 2017 (AAS)
16	Arsenic as As	<0.001	0.2	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
17	Selenium as Se	<0.001	0.05	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
18	Cadmium as Cd	ND	0.01	mg/l	APHA 3111B,23rd Ed 2017 (AAS)
19	Chromium as Cr ⁶⁺	<0.05	0.05	mg/l	APHA 23rd ED 3500-Cr-B: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	450	5000	MPN/100 ml	IS 1622:1981

Remark(s): All above results of Water Sample is chemically potable and bacteriologically with respect to above parameters.**BDL – Below Detectable Limit.****AUTHORIZED SIGNATORY****ANALYZED BY-****Terms and conditions**

The report is refer only to the sample tested and not applies to the bulk.

The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.

We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.

MoEF approved Lab by Govt. of India. From date16/02/2022 to 04/12/2022

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:-GESEC/PRO/2021-22/03/1103

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	25.03.2022
	Sample Details	Noise For 24 Hours
	Sample location	Near TSSEZL Project Office
Sample Collected By	Green EnviroSafe Engineers & Consultant Pvt. Ltd.	
P.O NO	TSSEZL/2021/30002103166	

Noise Monitoring Result

Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.03.2022	06.00	54.3	25.03.2022	18.00	65.8	dB(A)	75/70
25.03.2022	07.00	54.8	25.03.2022	19.00	66.6	dB(A)	
25.03.2022	08.00	55.0	25.03.2022	20.00	56.8	dB(A)	
25.03.2022	09.00	63.9	25.03.2022	21.00	53.1	dB(A)	
25.03.2022	10.00	65.6	25.03.2022	22.00	45.1	dB(A)	
25.03.2022	11.00	64.8	25.03.2022	23.00	37.9	dB(A)	
25.03.2022	12.00	66.3	26.03.2022	24.00	37.5	dB(A)	
25.03.2022	13.00	67.1	26.03.2022	01.00	35.4	dB(A)	
25.03.2022	14.00	61.6	26.03.2022	02.00	33.9	dB(A)	
25.03.2022	15.00	58.9	26.03.2022	03.00	38.5	dB(A)	
25.03.2022	16.00	57.4	26.03.2022	04.00	43.8	dB(A)	
25.03.2022	17.00	64.1	26.03.2022	05.00	53.3	dB(A)	
Day Time Leq		60.7					
Night Time Leq		40.7					

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB..(A)

AUTHORIZED SIGNATORY
ANALYZED BY-



Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
 The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
 The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
 Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
 We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
 MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:-GESEC/PRO/2021-22/03/1104

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	25.03.2022
	Sample Details	Noise For 24 Hours
	Sample location	Near Anadrone Office
Sample Collected By	Green EnviroSafe Engineers & Consultant Pvt. Ltd.	
P.O NO	TSSEZL/2021/30002103166	

Noise Monitoring Result

Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.03.2022	06.00	68.6	25.03.2022	18.00	67.7	dB(A)	75/70
25.03.2022	07.00	66.5	25.03.2022	19.00	65.6	dB(A)	
25.03.2022	08.00	64.9	25.03.2022	20.00	56.9	dB(A)	
25.03.2022	09.00	69.2	25.03.2022	21.00	58.8	dB(A)	
25.03.2022	10.00	68.1	25.03.2022	22.00	67.4	dB(A)	
25.03.2022	11.00	65.9	25.03.2022	23.00	52.3	dB(A)	
25.03.2022	12.00	65.4	26.03.2022	24.00	47.2	dB(A)	
25.03.2022	13.00	67.2	26.03.2022	01.00	43.7	dB(A)	
25.03.2022	14.00	68.8	26.03.2022	02.00	38.5	dB(A)	
25.03.2022	15.00	66.6	26.03.2022	03.00	44.3	dB(A)	
25.03.2022	16.00	57.9	26.03.2022	04.00	47.4	dB(A)	
25.03.2022	17.00	66.8	26.03.2022	05.00	64.6	dB(A)	
Day Time Leq		65.3					
Night Time Leq		50.7					

Remark-

- All above Noise level results are within Central Pollution Control Board Standards limit.
- Day/Night -75/70 dB (A)

AUTHORIZED SIGNATORY
ANALYZED BY-




Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.
 The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
 The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
 Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
 We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
 MoEF approved Lab by Govt. of India. From date 16/02/2022 to 04/12/2022

YEARWISE EXPENDITURE DETAILS UNDER TATA STEEL CSR, GOPALPUR

YEARWISE EXPENDITURE DETAILS UNDER TATA STEEL CSR,GOPALPUR									
Details of CSR Spent									
Interventions	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	
Collaborative Projects	6,789.00	-	0	-	-	-	-	-	-
Health	20,75,580.00	25,05,668.00	1,61,80,751.88	1,59,24,236.73	1,55,73,501.34	1,48,29,642.59	23,55,000.00	1,42,38,000.00	
Drinking Water	-	17,01,080.00	6,59,669.09	32,24,701.80	1,74,663.60	2,24,500.83	-	16,38,000.00	
Education	7,41,529.00	47,62,917.00	1,68,552.48	2,95,147.18	7,63,00,026.62	7,87,13,237.00	13,67,000.00	9,34,000.00	
Livelihood	-	-	-	-	-	-	-	-	-
Skill Development	-	55,87,454.00	5,76,981.34	4,16,160.17	11,27,970.64	64,600.00	4,22,000.00	-	-
Agriculture	-	1,12,36,888.00	35,58,432.12	53,19,093.59	65,73,907.54	39,41,926.60	58,28,000.00	70,95,000.00	
Entrepreneurship/ Empowerment	1,86,13,902.00	46,42,172.00	26,07,631.32	16,83,129.99	14,19,588.48	6,52,257.07	7,00,000.00	5,15,000.00	
Sports	-	1,52,228.00	36,420.00	4,30,538.78	3,34,666.63	3,24,517.15	6,68,000.00	91,500.00	
Infrastructure	96,89,106.00	26,10,076.00	99,816.36	28,38,901.52	38,01,170.64	30,20,042.31	21,26,000.00	24,58,000.00	
Environment		17,56,135.00	4,696.09	-	-	1,95,788.90	53,000.00	13,41,000.00	
Ethnicity	1,40,966.00	2,24,049.00	6,607.00	-	-	-	-	-	
HR, Admin	64,08,108.00	1,07,75,603.00	57,80,313.09	63,67,374.74	80,29,975.45	1,10,64,437.69	61,36,000.00	93,16,000.00	
Special Commitments (Tata Medica Hospital, Gopalpur)	-	-	0.00	-	41,89,41,557.00	42,32,23,294.34	1,42,12,000.00	1,24,16,000.00	
COVID-19								7,32,66,000.00	
Sub-Total	3,76,75,980.00	4,59,54,270.00	2,96,79,870.77	3,64,99,284.50	53,22,77,027.94	53,62,54,244.48	3,38,67,000.00	12,33,08,500.00	
Total from 2013-21	1,37,55,16,177.69								
Shanker Eye Hospital	42,30,00,000.00								
Grand Total	1,79,85,16,177.69								

TSRDS / TCS / TSFIF / TSSDS

(an Employee Engagement Initiative)

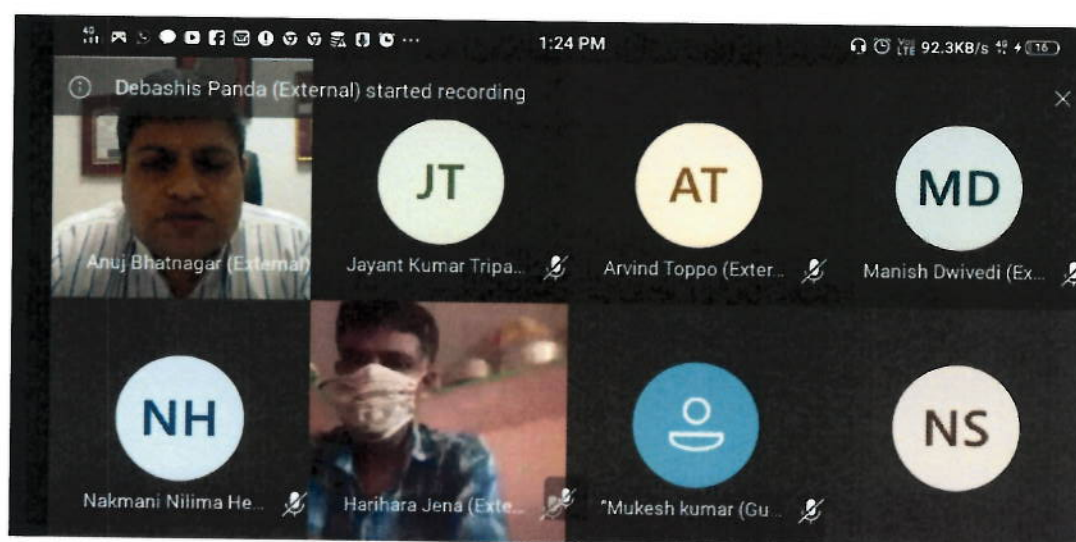
DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rockey Martin	Month / Year: April,2021
Department : TSF	Date : 10.05.2021

Key initiatives/activities of this month

Health

Facilitate to attend online awareness on mass vaccination for COVID-19 among adolescents and to educate for maximum community participation in the vaccination drive with the help of adolescents and YRC.



Livelihood & allied Activities

- 39750.5ltrs of milk have been collected from 212 farmers through 8 Milk Co-op.Societies and sold to OMFED with income generation of Rs.12,72,016.00
- 11185kg of fish havsted from 07 community pond with sold price of Rs.150/kg of total Rs.1,77,750.00
- 3242.2kg of mushroom havested from 20 units/farmers and sold with income of Rs.5,74,738.00.
- 1800nos. mushroom spawn bottle have been produced through the Coop and sold with Rs.32,400.00.
- Live reached under agri allied activities-232

TSRDS / TCS / TSFIF / TSSDS

(an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rockey Martin	Month / Year: May,2021
Department : TSF	Date : 07.06.2021

Key initiatives/activities of this month

#ThoughtForFood

Under the Thought for Food program 100 dry rations kits along with 300 N95 mask have been distributed to 30 primitive Kandho families of Nunighera village, 46 families of vulnerable Leprosy group of Damien nagar, Leprocy Colony of Chatrapur and 24 nos to distress families as they are not able to sustain their livelihood due to the Lockdown.



TSRDS / TCS / TSFIF / TSSDS (an Employee Engagement Initiative)

Sanitization of Village

Eighteen periphery villages with house hold 4100 have been deep sanitized .



Observation of World No Tobacco Day

Observed digitally no tobacco day through awareness and drawing competition with involving 20 youths of the periphery villages.



TSRDS / TCS / TSFIF / TSSDS

(an Employee Engagement Initiative)

- ❖ 5910kg of fish havsted from 12 community pond with sold price of Rs.150/kg of total Rs.8,86,500.00
- ❖ 2823.4kg of mushroom havsted from 20 units/farmers and sold with income of Rs.5,08,212.00.
- ❖ 800nos. of mushroom spawn bottle have been produced through the Coop and sold with Rs.14,400.00.



Rockey Martin
Signature of Dept. Head

TSRDS / TCS / TSFIF / TSSDS (an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rockey Martin	Month / Year: May,2021
Department : TSF	Date : 29.06.2021

Key initiatives/activities of this month

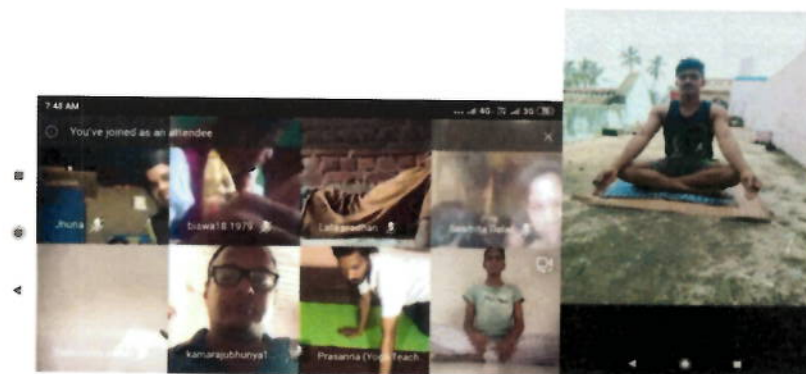
Observation of World Environment Day-5th June,2021

World Environment day has been observed at Narendrapur with theme of the Year "Ecosystem Restoration" by patch plantation of 05 acre. The patch plantation is going under the #CashForWork with involving 33 labourers for ensuring 30 mand days for each. Also the adolescents of the periphery villages were distributed with nutritional paints for plantation at their yards and schools. The Sarapanch, Narendrapur GP, Mr. Bauli Behera was participated in this program.



Observation of International Yoga Day-21.06.2021

International Yoga Day was observed by virtually connecting 38 adolescents of RISHTA of different periphery villages. With the theme of this year "Yoga for Wellness" to be continued for a better and healthy life to fight against the pandemic.



TSRDS / TCS / TSFIF / TSSDS (an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rockey Martin	Month / Year: July,2021
Department : TSF	Date : 17.08.2021
<u>Key initiatives/activities of this month</u>	

Observation of 117th Birth anniversary of JRD TATA

TSF,Gopalpur celebrated 117th birth anniversary of JRD Tata with 50 women entrepreneurs at New Sindhiguan Kalayanmandap with Rangoli competition and distributed the prizes to the winners.



#ApnoKiSuno

Under the COVID initiatives of #ApnoKiSuno 115 employees of TATA Steel SEZ Project,Gopalpur were vaccinated with 1st dose of COVAXIN by TSF,Gopalpur.



TSRDS / TCS / TSFIF / TSSDS

(an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rockey Martin	Month / Year: August,2021
Department : TSF	Date : 22.09.2021
<u>Key initiatives/activities of this month</u>	

Observation of World breast feeding day

TSF,Gopalpur celebrated world breast feeding day with 50 women,Anganwadi & Health workers of Tanganapalli GP of Chatrapur Block by organizing a rally with the objective to aware the imprtance of breast feeding.



Livelihood

Skill Development

A recruitment drive had been organized for the diploma holder gilrls to start their carrer in Tata of Companies-Tata Electronics of the plant periphery villages of Gopalpur.15 girls were gone through written with practical examination and are qualified the both exam,out of which four were recruited.



TSRDS / TCS / TSFIF / TSSDS

(an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)

Dept. Head Name : Rocky Martin	Month / Year: September,2021
Department : TSF	Date : 19.10.2021

Key initiatives/activities of this month

Nutrition Mela & Healthy Baby Show

TSF,Gopalpur organized nutrition mela cum healthy baby show on 15th September,2021 at Tanganapali with involving 85 participants to aware the pregnant women on importance and requirment of balanced nutrition for a healthy child bath and development for new born child.



Livelihood

Skill Development

Under the selection for sponsorship female candidates for admission of Diploma in Mechatronics engineering at JNTTEC,Gopalpur for 75 students,44 gilrls from our peripheri vaillages were selected for admission.