



Ref. No: TSSEZL/ ENV/MoEF/1267/2022

Dated: 18th November' 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 April' 2022 – September' 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,

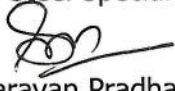
With reference to the subject referred above, we are hereby submitting the half yearly Environmental & CRZ Clearance compliance status report for development of multi product SEZ/Industrial Park by Tata Steel Special Economic Zone in soft format through e-mail (roez.bsr-mef@nic.in) for your kind perusal.

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


Satya Narayan Pradhan
Asst. Manager - (Safety, Health & Environment)



Enclosure: As above.

Copy for kind information to:

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

TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

(A 100% subsidiary of Tata Steel Limited)

Regd. Off : 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: April'2022 – September '2022

Submitted By:

Tata Steel Special Economic Zone Ltd

M/s. Tata Steel Limited

2 B, Fortune Tower, 2nd Floor,

Chandrasekharpur

Bhubaneswar -751023

(Odisha)

List of Annexures

Sl. No	Title of the Annexure	Annexure No.
1	Environment Monitoring Results of last Six months (April' 2022–September' 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

Sl. No	Specific Condition	Compliance Status (April 2022 – September 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.	The Project proponent 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.



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
(x)	The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards for all discharges from the Industrial Area into the sea.	At present, there is no discharge from the Industrial Park to the outside area or the sea. All wastewater discharge; when generated, shall be as per wastewater discharge standards of OSPCB. It will be monitored periodically, and the results will be reported to CPCB/OSPCB as per stipulated in the condition of EC.
(xi)	All the provisions of the CRZ Notification, 2011 shall be strictly complied with, and in case of any change in scope of work, necessary recommendations from the OCZMA shall be obtained for further consideration by the concerned regulatory authority.	At present, there is no change in the scope of the work of the project. All provision of the CRZ Notification, 2011 will be strictly complied with & in case of any change in the scope in future, necessary recommendations from OCZMA shall be obtained.
(xii)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Presently, there is no generation of hazardous and other wastes from the project site. Necessary authorizations will be obtained envisaging the generations of Hazardous and solid waste from the project in due course.
(xiii)	Air pollution and the solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.	Complied. For air pollution prevention, Control, and management: • Natural elevations are being maintained by proper planning and engineering assessments. • Plantation at designated places along plot boundary has been made to control air pollution right from the construction phase. Optimal quantity of accumulated rainwater is being used for construction activities. • PUC- certified vehicles are being used. • Regular Environmental monitoring of the pollution parameters by NABL and MoEF &CC accredited lab. • Env. Monitoring is being conducted and reported to OSPCB regularly. Environmental Monitoring Report Enclosed as Annexure -I
(xiv)	This environmental clearance is only for the said Industrial Area. Any other activity within the Industrial Area would require separate environmental clearance, as applicable under EIA Notification, 2006 as amended from time to time. For all the individual units, environmental clearances, as applicable, shall be obtained from the respective regulatory authorities.	Shall be complied as per the requirements of individual member industrial units with respect to EIA notification 2006. Separate EC will be obtained by the individual industries as per requirements.



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
(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 a plan to set up common facilities for waste treatment, recycle and disposal.
(xvi)	The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured/recorded to ensure the water balance as projected by the project proponent. The record shall be submitted to the concerned Regional Office of the Ministry along with six monthly monitoring reports.	One storm water reservoir has already been constructed inside the project area and two more storm water reservoirs are being excavated inside the project area for catering to the need of the upcoming industries. At present, very small chunk of the harvested storm water is being used for construction/operation purpose. The monitoring & measurement of usage of water by member industries and reporting the same to Regional Office of MOEF shall be made upon commencement of supply from the said reservoirs in future.
(xvii)	Special purpose vehicle shall be established for implementation, monitoring and compliance of the environmental safeguards	Tata Steel Special Economic Zone itself is the Special Purpose vehicle for implementation, monitoring and compliance of the safeguards. Environmental review and monitoring are being performed by the EMC on regular basis.
(xviii)	Solid wastes shall be collected, treated disposed in accordance with the Solid Waste Management Rules, 2016. No municipal waste shall be disposed off outside the premises.	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.



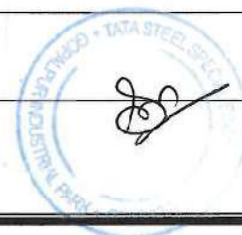
Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
(xxiv)	Internal Road widths within the industrial area shall be minimum 18 m ROW.	Complied. All internal roads are & shall be with RoW of >25 m width as per the approved master plan of the project.
(xxv)	Parking space to accommodate trucks, cars, two wheelers and bicycles shall be provided as per the norms	Being Complied.
(xxvi)	Any hazardous waste generated during development/ construction phase, shall be disposed of as per applicable rules and norms with necessary approvals of the State.	No hazardous wastes have been generated during the construction.
(xxvii)	The D.G. sets to be used during development/construction phase shall be low sulphur diesel type and shall conform to Environment (Protection) Rules prescribed for air and noise emission standards	No DG sets are being used at present for construction activities.
(xxviii)	Vehicles hired for bringing construction material to the site shall be in good condition and should have a pollution check certificate and shall conform to applicable air and noise emission standards and shall be operated only during non-peak hours.	Complied. Only PUC-certified vehicles are being used in construction activities, water-sprinkled for dust control on unpaved roads, and speed-limit controlled to minimize fugitive dust, good condition vehicles and low or no-horn use maintained for less noise levels, vehicle movement minimized or restricted, periodical monitoring and checking of vehicles as per OSPCB norms.
(xxix)	Ambient noise levels shall conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during development/ construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB	Complied. Ambient noise level monitoring is being carried out by NABL, MoEF & CC accredited environmental consultant on regular basis and being reported to the statutory authorities as per the requirement of the statutes. Enclosed as Annexure-I. Adequate measures have been taken to reduce ambient air and noise level during construction phase.
(xxx)	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August 2003 and 25th January 2016.	Complied Fly ash are being used in construction activities along with ready-mix concrete and fly ash-mix bricks or blocks, as building material for construction.
(xxxi)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	One retention pond has been constructed with capacity of 6 lakh cum and two more are under construction for storage of storm water and its re-use for various applications.
(xxxii)	Water demand during development/ construction shall be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Being Complied.



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
(xxxiii)	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.	Not drawing ground water
(xxxiv)	Fixtures for showers, toilet flushing, and drinking shall be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Water conservation measures like shower-fixtures, use of tap-aerators, pressure reducing or sensor-based control devices for water flow controllers shall be used. Also, segregation of used water, practicing cascade use and recycling treated water.
(xxxv)	Regular supervision of the above and other measures for monitoring shall be in place all through the development/ construction phase, so as to avoid disturbance to the surroundings.	Being Complied.
(xxxvi)	The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	The issues raised in the public hearing are being addressed in phased manner and being reported to the relevant statutory authorities in accordance with the conditions of the Environmental Clearance.
(xxxvii)	Fund Allocation for corporate Environment Responsibility (CER) shall be made as per ministry's O.M No. 22-65/2017 - IA.III dtd. 1st May 2018 for various activities therein. The detailed report shall be submitted to this Ministry and its concerned regional office within 3 months.	Corporate social responsibility (CSR) is being implemented by M/s. TSSEZL through its CSR and CER arm of Tata Steel Foundation (TSF) for the benefit of periphery villages 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. Expenditure details is enclosing herewith as Annexure – II.
(xxxviii)	Corporate Environment Responsibility:	Corporate Social Responsibility (CSR) is being implemented by M/s. TSSEZL through its CSR arm of TSF for the benefit of periphery villages 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. Detailed report is enclosing herewith as Annexure – II (colly).
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	Complied



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
	environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	
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 Industrial Park and increase skill levels of local people.	To enhance skill development activities of local community, a technical training institute has been established by the Company.
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	Being Complied.



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
	create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	
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 is enclosed herewith 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	Noted, Compliance shall be ensured.



Sl. No	Specific Condition	Compliance Status (April 2022 – September 2022)
	project site must be avoided. 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 carried out 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 as per the guideline.

PART-B: GENERAL CONDITIONS

Sl. No.	Stipulated Condition	Compliance Status (April'22– September'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/Tahsildar'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	Noted, Compliance shall be ensured.



Sl. No.	Stipulated Condition	Compliance Status (April'22- September'2022)
	budget and this shall not be diverted for any other purpose.	
C	OTHER CONDITIONS	
i	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
ii	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.
iii	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
iv	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
v	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.
vi	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 &	Complied.



Sl. No.	Stipulated Condition	Compliance Status (April'22- September'2022)
	CRZ Clearance and copies of the clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at http://www.envfor.nic.in . The advertisement shall be made within seven days from the date of receipt of the clearance letter and a copy of the same shall be forwarded to the concerned Regional Office of this Ministry.	
vii	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.
viii	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.
ix	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.
x	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.
xi	The environmental statement for each financial year ending 31st March in Form - V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment Protection Rules, 1986, as	Noted, Compliance shall be ensured.



Sl. No.	Stipulated Condition	Compliance Status (April'22– September'2022)
	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.	
xii	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
xiii	This issues with the approval of the Hon'ble Minister of Environment, Forest and Climate Change, New Delhi	Noted

Date: 18th November' 2022

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



Annexure-1



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	NOx	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Apr-22	69.4	36.4	12.2	23.5	0.5	34.6	12.2	<0.09	<0.4	<0.42	<4.1	<0.08
May-22	59.1	30.6	7.9	14.6	0.3	32.8	11.5	<0.09	<0.4	<0.42	<4.1	<0.08
Jun-22	57.6	29.2	7.9	14.4	0.4	30.6	10.3	<0.09	<0.4	<0.42	<4.1	<0.08
Jul-22	55	28.1	7.6	13.7	0.3	22.3	7.4	<0.09	<0.4	<0.42	<4.1	<0.08
Aug-22	55.9	28.3	7.7	13.4	0.4	<17	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Sep-22	56.1	29	7.4	12.7	0.3	<17	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MAX	69.4	36.4	12.2	23.5	0.5	34.6	12.2	<0.09	<0.4	<0.42	<4.1	<0.08
MIN	55	28.1	7.4	12.7	0.3	<17	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	58.9	30.2	8.5	15.3	0.3	20	6.9	<0.09	<0.4	<0.42	<4.1	<0.08

Location: Near Anadron Office

	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Apr-22	72.6	37.6	13.2	24.7	0.5	36.8	13.4	<0.09	<0.5	<0.44	<4.1	<0.08
May-22	61	31.5	8.2	14.9	0.4	33.9	12.6	<0.09	<0.5	<0.44	<4.1	<0.08
Jun-22	62.4	31.8	8.5	15.1	0.4	32.1	11.8	<0.09	<0.5	<0.44	<4.1	<0.08
Jul-22	57.9	29.4	8.4	14.1	0.4	23.7	8.6	<0.09	<0.5	<0.44	<4.1	<0.08
Aug-22	60.6	31.1	8.3	13.9	0.4	<18	<08	<0.09	<0.5	<0.44	<4.1	<0.08
Sep-22	59.9	31	8.1	13.5	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
MAX	72.6	37.6	13.2	24.7	0.5	36.8	13.4	<0.09	<0.5	<0.44	<4.1	<0.08
MIN	57.9	29.4	8.1	13.5	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	62.4	32.0	9.1	16.0	0.4	21	7.7	<0.09	<0.4	<0.42	<4.1	<0.08

Location: Near TSSEZL Main Gate (Chama Khandi)

	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	NH ₃	O ₃	Pb	Ni	As	Benzene	BaP
Months	(µg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(mg/m ³)	(µg/m ³)	(µg/m ³)	(µg/m ³)	(ng/m ³)	(ng/m ³)	(µg/m ³)	(ng/m ³)
Apr-22	78.8	40.6	14.5	25.8	0.5	39.9	14.8	<0.09	<0.5	<0.46	<4.6	<0.08
May-22	64.8	33	8.2	15.3	0.4	35.8	13.8	<0.09	<0.5	<0.46	<4.6	<0.08
Jun-22	66	34.3	9	15.8	0.4	34.7	13.5	<0.09	<0.5	<0.46	<4.6	<0.08
Jul-22	62.6	32.1	8.8	15	0.4	<20	<09	<0.09	<0.5	<0.46	<4.6	<0.08
Aug-22	62.7	32.1	12.7	23.8	0.5	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
Sep-22	61	31.2	8.6	14.7	0.4	<18	<08	<0.09	<0.5	<0.44	<4.1	<0.08
MAX	78.8	40.6	14.5	25.8	0.5	39.9	14.8	<0.09	<0.5	<0.46	<4.6	<0.08
MIN	61	31.2	8.6	14.7	0.4	<18	<08	<0.09	<0.4	<0.42	<4.1	<0.08
AVG	65.9	33.8	10.3	18.4	0.4	18.4	7	<0.09	<0.4	<0.42	<4.1	<0.08



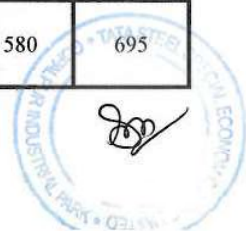


TATA STEEL SPECIAL ECONOMIC ZONE LIMITED

GOPALPUR
INDUSTRIAL PARK

Surface Water Analysis Report

Upstream of Khari Nalla(SW1)		MONTH						Result		
Test Parameters	Unit	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	MAX	MIN	AVG
Colour, Max.	Hazen	60	40	10	<5	<5	<5	60	<5	18.3
pH Value @ 25°C	--	7.64	7.52	7.24	7.1	6.9	7.32	7.64	6.9	7.2
Chloride as Cl, Max.	mg/l	75.0	80.0	77	54.0	5.9	60.4	80	5.9	58.7
Dissolved Solids, Max.	mg/l	534	515	465	420	453	458	534	420	474.1
Dissolved Oxygen, Min.	mg/l	5.5	5.9	4.8	6.5	6.8	6.4	6.8	5.5	5.9
BOD for 3 days@ 27°C, Max.	mg/l	2.6	2.8	3.1	<2.0	<2.0	<2.0	3.1	<2.0	1.4
Sulphate as SO ₄ , Max.	mg/l	20.4	20.6	25.2	18.6	15.9	15.8	25.2	15.8	19.4
Nitrate as NO ₃ , Max.	mg/l	3.45	3.35	3.12	2.9	3.4	3.4	3.45	2.9	3.27
Fluoride as F, Max.	mg/l	0.21	0.25	0.38	0.11	0.15	0.25	0.38	0.11	0.22
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	0.21	0.25	0.25	0.18	0.21	0.25	0.25	0.21	0.18
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	780	750	680	760	620	580	780	580	695





Surface Water Analysis Report										
Down Stream of Khari Nalla, (SW2)		MONTH						RESULT		
Test Parameters	Unit	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	MAX	MIN	AVG
Colour, Max.	Hazen	120	105	110	25	<5	<5	120	<5	53.3
pH Value @ 25°C	--	7.25	7.13	6.96	6.8	7.01	7.2	7.25	6.8	7
Chloride as Cl, Max.	mg/l	60.0	65.0	60	45.0	52	54.6	65	45	56.1
Dissolved Solids, Max.	mg/l	412	405	428	398	403	412	428	398	409.6
Dissolved Oxygen, Min.	mg/l	5.8	6.1	5.2	5.9	6.2	6.2	6.2	5.2	5.9
BOD for 3 days @ 27°C, Max.	mg/l	2.8	3.2	4.6	<2.0	<2.0	<2.0	4.6	<2.0	1.7
Sulphate as SO ₄ , Max.	mg/l	17.6	18.2	20.6	14.2	13.1	12.6	20.6	12.6	16.05
Nitrate as NO ₃ , Max.	mg/l	3.04	3.02	2.89	2.3	3.2	3.2	3.04	2.3	2.94
Fluoride as F, Max.	mg/l	0.22	0.2	0.29	0.07	0.11	0.1	0.2	0.1	0.16
Oil & Grease, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide as CN, Max.	mg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper as Cu, Max.	mg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Iron as Fe, Max.	mg/l	0.09	0.08	0.08	0.09	0.19	0.08	0.19	0.08	0.1
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	415	390	320	430	390	340	430	320	380.83



	TATA STEEL SPECIAL ECONOMIC ZONE LIMITED	GOPALPUR INDUSTRIAL PARK
Noise Monitoring Report		
Location: Near TSSEZL Project Office		
Months	DAY TIME dB(A)	NIGHT TIME dB(A)
Apr-21	60.8	40.8
May-21	61.4	40.5
Jun-21	61.8	41
Jul-22	62.2	40.1
Aug-22	60.5	39.3
Sep-22	61.9	40.3
MAX	62.2	40.8
MIN	60.5	39.3
AVG	61.4	40.3
Near TSSEZL Anadrone Office		
	DAY TIME LEQ	NIGHT TIME LEQ
Months		
Apr-21	65.3	51
May-21	65.9	51
Jun-21	66	49.1
Jul-22	64.9	48.6
Aug-22	65.2	45.1
Sep-22	65	48.1
MAX	66	51
MIN	65	45.1
AVG	65.3	48.8



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/2022-23/04/ 559
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	03.05.2022
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)
04.04.2022	70.1	36.2	12.1	23.4	0.5
07.04.2022	68.4	35.6	12.5	22.9	0.5
11.04.2022	64.6	33.7	10.8	22.1	0.5
14.04.2022	70.2	36.4	12.4	23.7	0.5
18.04.2022	72.4	37.9	12.5	23.8	0.5
21.04.2022	68.1	35.4	12.6	23.2	0.5
26.04.2022	71.6	37.4	12.6	24.3	0.5
28.04.2022	69.7	35.8	12.3	24.5	0.5
Avg	69.4	36.1	12.2	23.5	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

Notes:

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- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
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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.

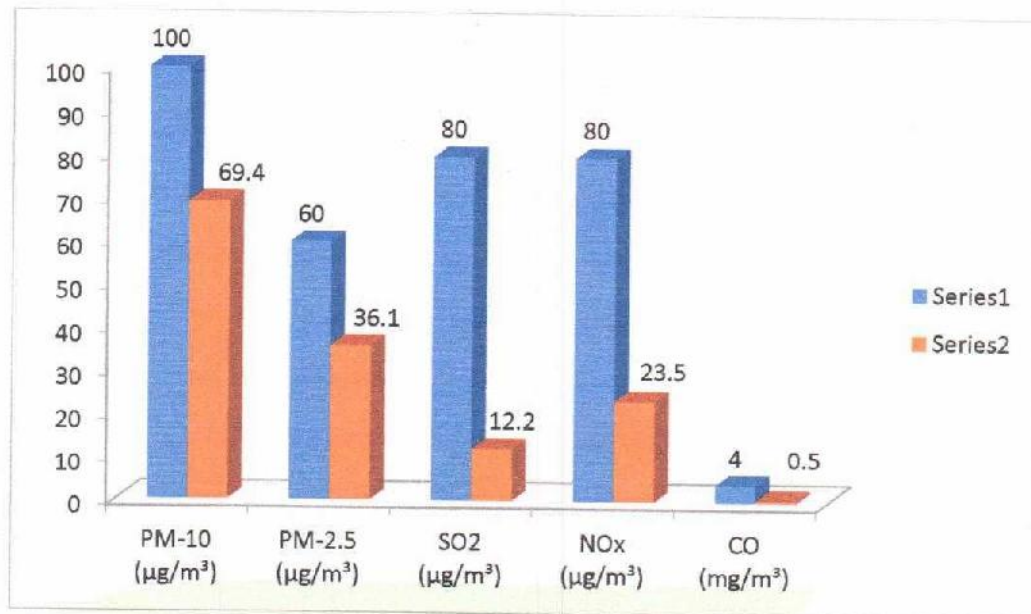
We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not reveal to third party unless required by the statutory or legal requirement.

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

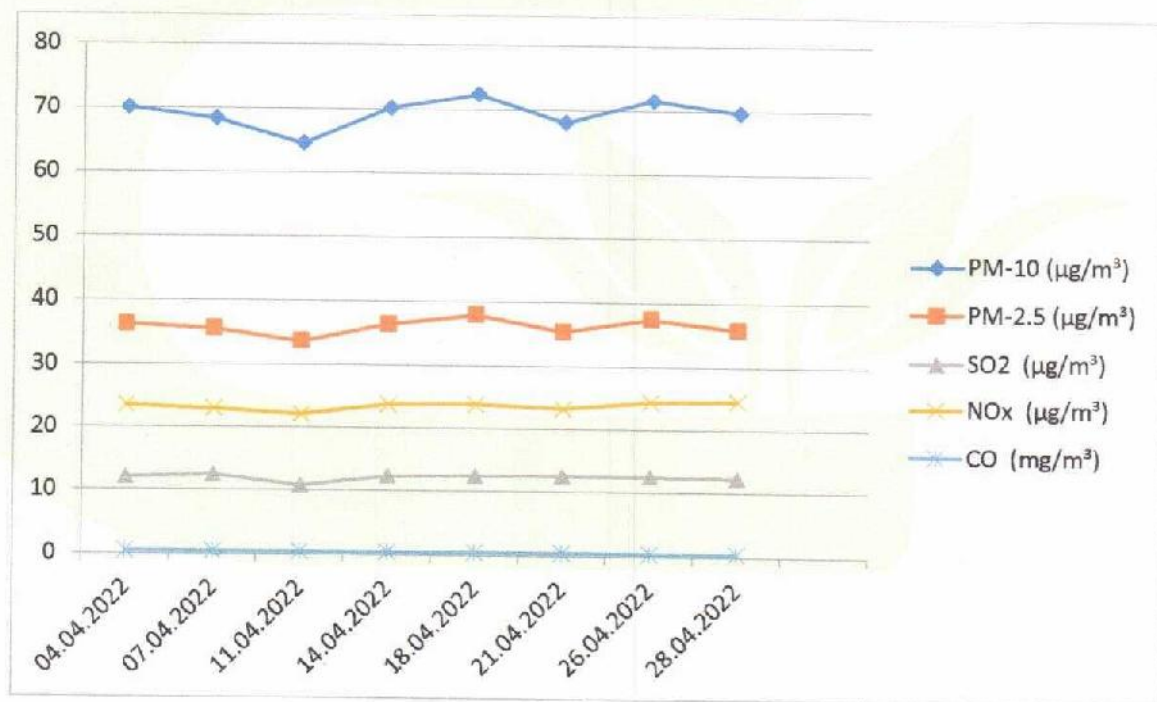




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NB-Series 1-Stands for Standard, Series 2-Stands for Result



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

Terms and conditions

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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
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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/04/ 560
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	03.05.2022
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)
04.04.2022	72.6	37.6	13.1	24.3	0.5
07.04.2022	73.6	37.9	13.5	24.7	0.5
11.04.2022	69.8	36.2	12.6	24.8	0.5
14.04.2022	75.6	38.7	13.5	25.2	0.5
18.04.2022	68.7	35.1	12.6	24.2	0.5
21.04.2022	74.5	38.1	13.4	24.6	0.5
26.04.2022	75.8	39.2	13.6	25.6	0.5
28.04.2022	74.7	38.3	13.2	24.5	0.5
Avg	73.2	37.6	13.2	24.7	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

**Notes:**

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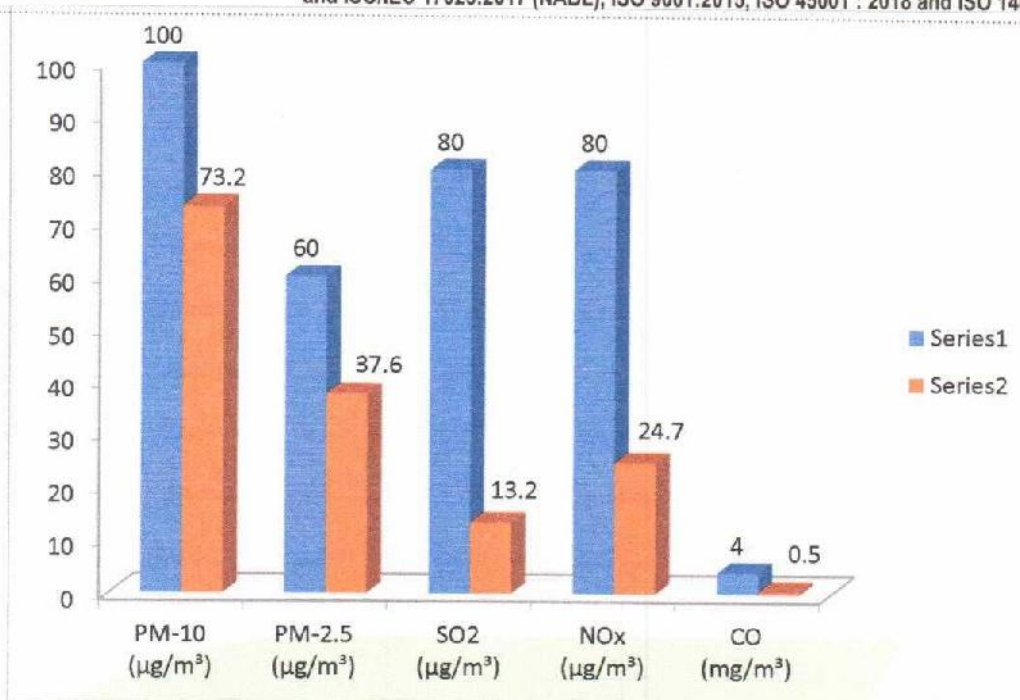
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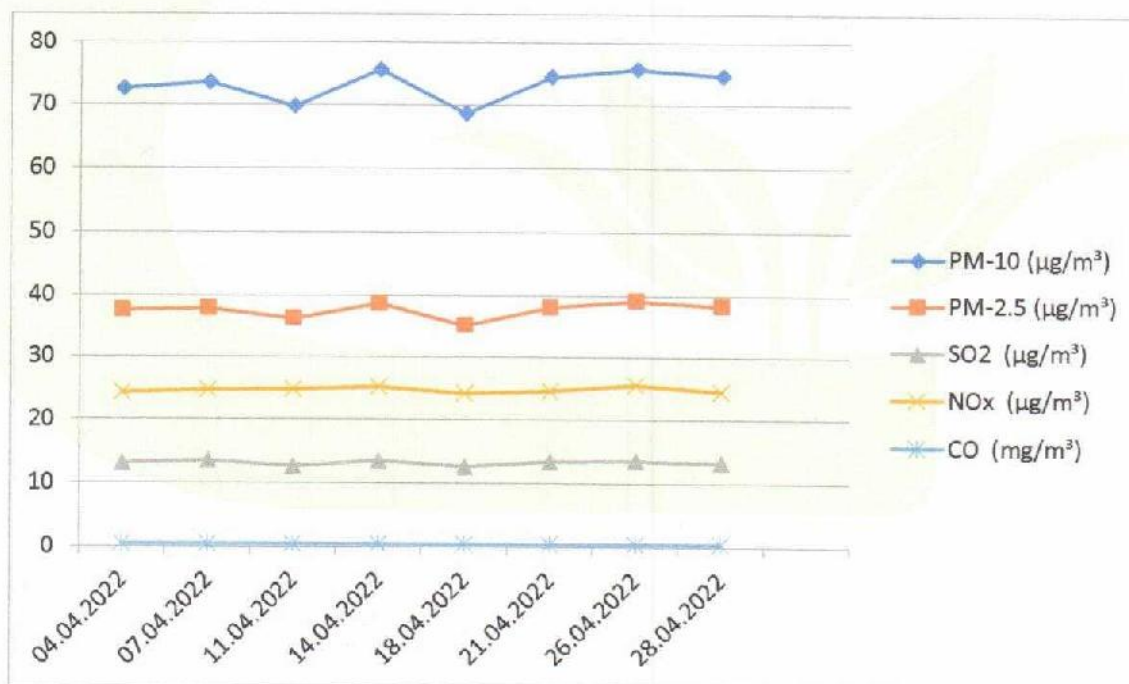
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NB-Series 1—Stands for Standard, Series 2—Stands for Result



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

Terms and conditions

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





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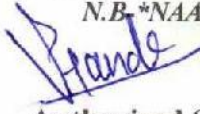
AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/04/ 561
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	03.05.2022
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)
04.04.2022	76.8	38.2	13.8	24.6	0.5
07.04.2022	77.6	40.1	14.4	25.5	0.5
11.04.2022	74.6	38.2	13.6	25.6	0.5
14.04.2022	78.2	40.6	14.8	25.8	0.5
18.04.2022	80.4	41.6	15.1	26.6	0.6
21.04.2022	79.6	41.2	14.4	25.6	0.5
26.04.2022	82.2	43.2	14.6	26.6	0.6
28.04.2022	80.6	41.4	15.1	26.4	0.6
Avg	78.8	40.6	14.5	25.8	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

Notes:

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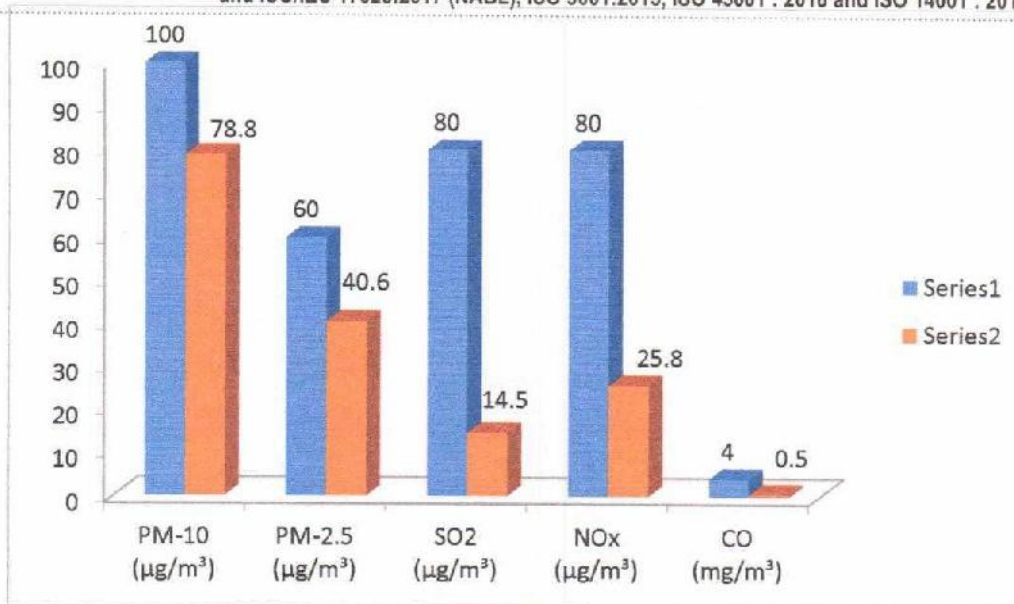
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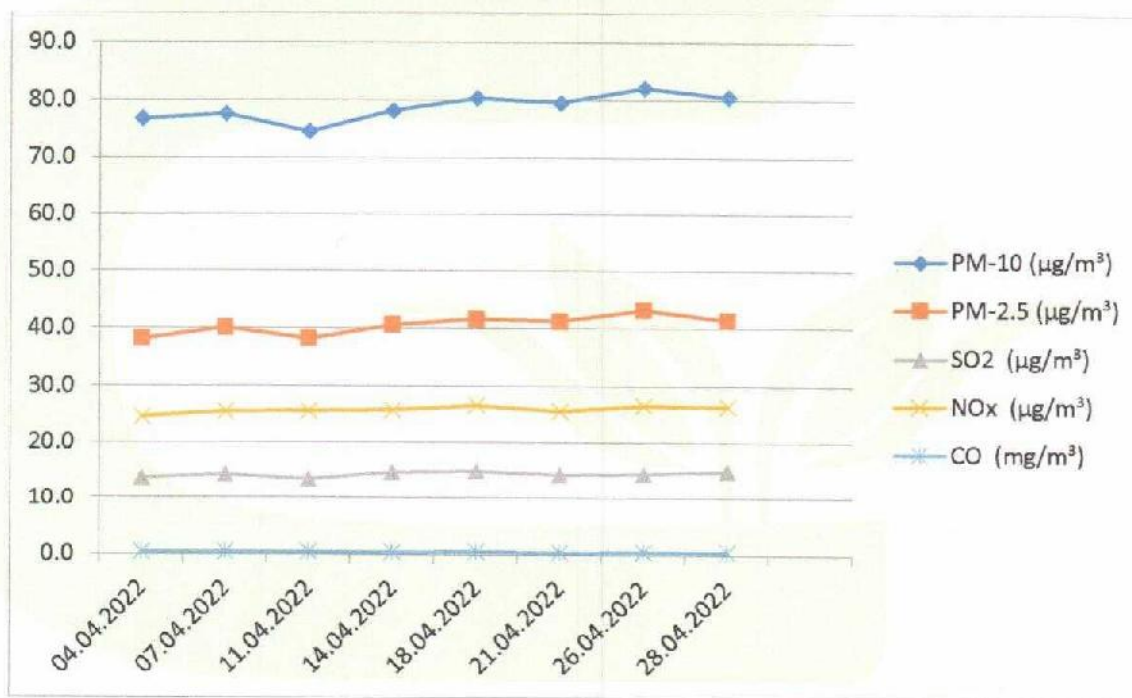
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NB-Series 1-Stands for Standard, Series 2-Stands for Result



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



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



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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/04/ 562
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	26.04.2022
Sample Drawn by	GESEC
Sampling Location	Near TSSEZL Project Office
Issued Date	03.05.2022
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	36	°C	
2.	Relative Humidity	72	% RH	
3.	Sulphur Dioxide(SO ₂)	12.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	24.3	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	71.6	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	37.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.5	mg/M ³	≤ 04
8.	Ozone(O ₃)	12.2	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	34.6	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

[Signature]



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



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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/2022-23/04/ 563
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	26.04.2022
Sample Drawn by	GESEC
Sampling Location	Near Anadrone Office
Issued Date	03.05.2022
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	36	°C	
2.	Relative Humidity	72	% RH	
3.	Sulphur Dioxide(SO ₂)	13.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	25.6	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	75.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	39.2	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.5	mg/M ³	≤ 04
8.	Ozone(O ₃)	13.4	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	36.8	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.

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/04/ 564
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	26.04.2022
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.05.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2021/30002103166

Ambient Air Analysis Result

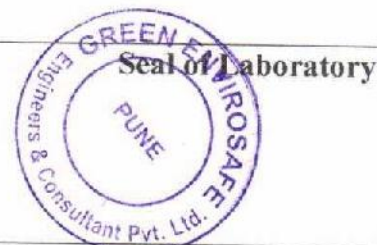
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	37	°C	
2.	Relative Humidity	73	% RH	
3.	Sulphur Dioxide(SO ₂)	14.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	26.6	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	82.2	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	43.2	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.6	mg/M ³	≤ 04
8.	Ozone(O ₃)	14.8	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	39.9	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

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/04/ 565

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

Date of Sampling	26.04.2022
Start Date of Analysis	26.04.2022
End Date of Analysis	02.05.2022
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	60	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	75	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	534	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	5.5	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	2.6	3	mg/l	IS 3025: Part 44- 1993; (RA-2014)
7	Sulphates as SO ₄	20.4	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.45	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.21	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	0.21	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 asAs	<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	780	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



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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/04/ 566

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

Date of Sampling	26.04.2022
Start Date of Analysis	26.04.2022
End Date of Analysis	02.05.2022
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	120	300	Hazen	IS 3025: (Part 4)- 1983;(RA-2017)
2	pH	7.25	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	60	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	412	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	2.8	3	mg/l	IS 3025: Part 44- 1993;(RA-2014)
7	Sulphates as SO ₄	17.6	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.04	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.22	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	0.09	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 I IB.23rd Ed 2017 (AAS)
16	Arsenic asAs	<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: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	415	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.

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/04/ 567

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	26.04.2022
	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)
26.04.2022	06.00	55.6	26.04.2022	18.00	65.4	dB(A)	75/70
26.04.2022	07.00	55.1	26.04.2022	19.00	66.1	dB(A)	
26.04.2022	08.00	54.9	26.04.2022	20.00	55.8	dB(A)	
26.04.2022	09.00	64.3	26.04.2022	21.00	53.6	dB(A)	
26.04.2022	10.00	65.9	26.04.2022	22.00	45.7	dB(A)	
26.04.2022	11.00	64.1	26.04.2022	23.00	37.2	dB(A)	
26.04.2022	12.00	66.8	27.04.2022	24.00	37.9	dB(A)	
26.04.2022	13.00	67.0	27.04.2022	01.00	35.1	dB(A)	
26.04.2022	14.00	61.0	27.04.2022	02.00	34.2	dB(A)	
26.04.2022	15.00	58.6	27.04.2022	03.00	37.6	dB(A)	
26.04.2022	16.00	57.1	27.04.2022	04.00	44.6	dB(A)	
26.04.2022	17.00	66.2	27.04.2022	05.00	54.1	dB(A)	
Day Time Leq		60.8					
Night Time Leq		40.8					

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-

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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

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NOISELEVEL MONITORING REPORT**TEST CERTIFICATE****Report No:-** GESEC/PRO/2022-23/04/ 568

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

Date of Sampling

26.04.2022

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

Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
26.04.2022	06.00	68.9	26.04.2022	18.00	68.2	dB(A)	75/70
26.04.2022	07.00	66.1	26.04.2022	19.00	64.8	dB(A)	
26.04.2022	08.00	65.1	26.04.2022	20.00	56.1	dB(A)	
26.04.2022	09.00	69.5	26.04.2022	21.00	62.5	dB(A)	
26.04.2022	10.00	68.1	26.04.2022	22.00	67.8	dB(A)	
26.04.2022	11.00	65.2	26.04.2022	23.00	52.0	dB(A)	
26.04.2022	12.00	64.2	27.04.2022	24.00	47.4	dB(A)	
26.04.2022	13.00	68.2	27.04.2022	01.00	43.8	dB(A)	
26.04.2022	14.00	69.2	27.04.2022	02.00	38.1	dB(A)	
26.04.2022	15.00	66.2	27.04.2022	03.00	44.6	dB(A)	
26.04.2022	16.00	57.1	27.04.2022	04.00	48.9	dB(A)	
26.04.2022	17.00	66.1	27.04.2022	05.00	65.2	dB(A)	
Day Time Leq		65.3					
Night Time Leq		51.0					

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**

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/297
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	03.06.2022
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)
02.05.2022	63.4	34.2	8.6	16.4	0.4
05.05.2022	61.7	33.4	8.2	15.2	0.4
09.05.2022	59.3	30.4	8.1	15.4	0.3
12.05.2022	58.4	29.8	8.2	15.1	0.3
16.05.2022	56.8	28.6	7.8	13.4	0.3
19.05.2022	55.4	28.1	7.5	13.2	0.3
23.05.2022	54.3	27.8	7.2	13.3	0.3
26.05.2022	60.4	31.2	7.7	14.2	0.4
30.05.2022	62.5	31.9	8.2	15.3	0.4
Avg	59.1	30.6	7.9	14.6	0.3
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.

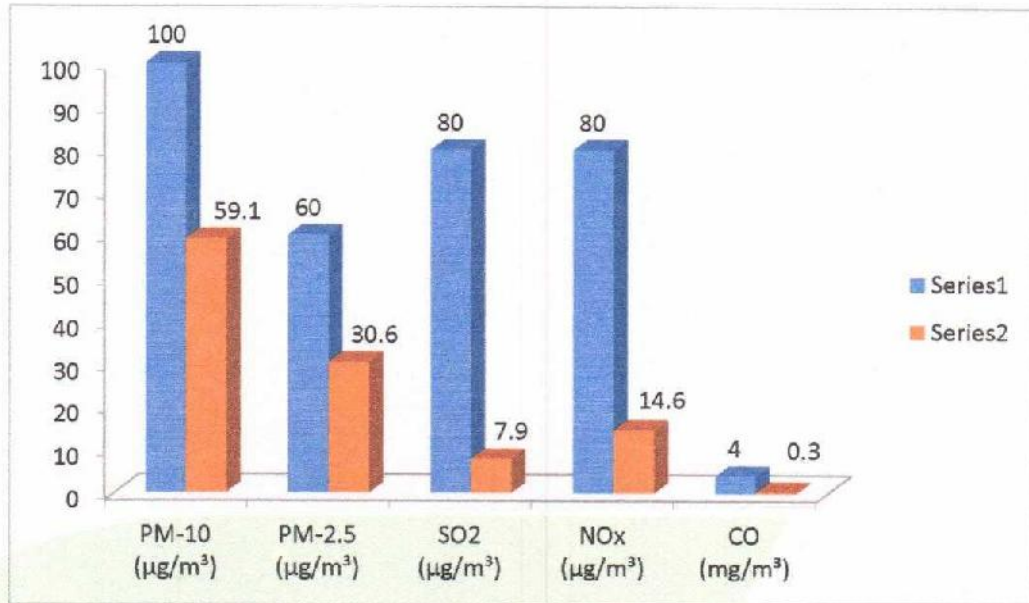
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- MoEF approved Lab by Govt. of India. From date. 09/02/2017 to 08/02/2022.

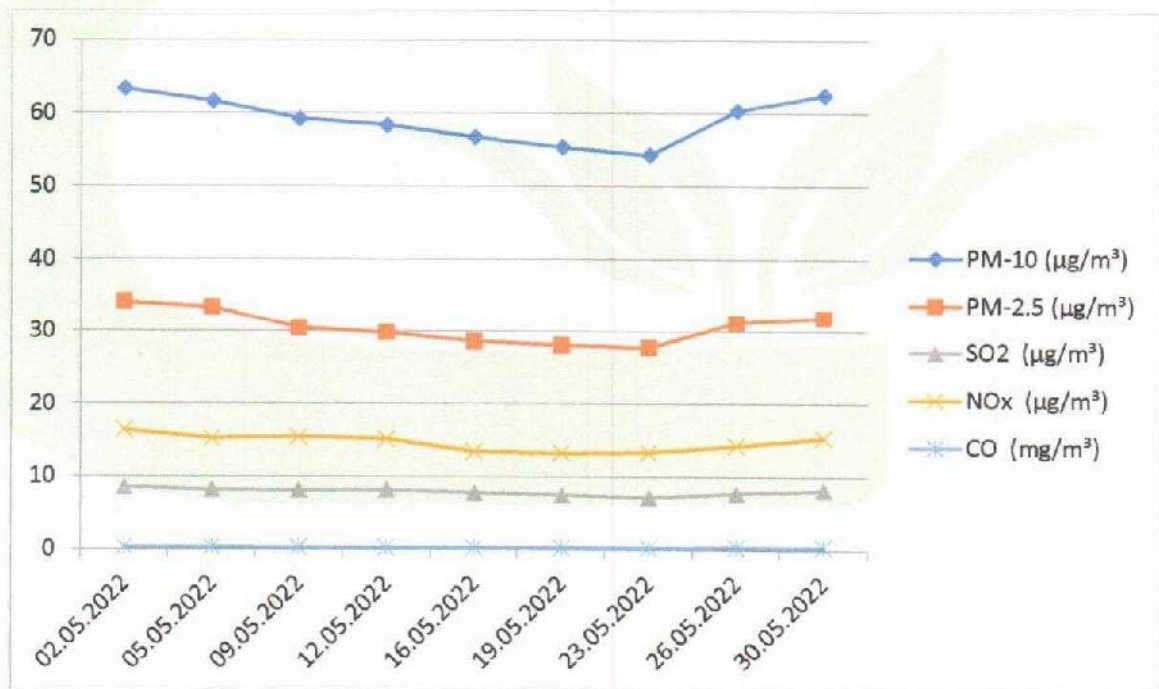


Seal of Laboratory

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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 May -22

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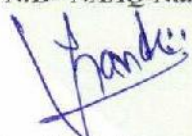
AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/298
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	03.06.2022
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)
02.05.2022	65.4	33.5	8.6	15.8	0.4
05.05.2022	63.7	32.6	8.8	15.2	0.4
16.05.2022	59.8	31.5	7.9	14.6	0.3
19.05.2022	56.4	29.4	7.6	13.7	0.3
23.05.2022	54.3	28.4	7.5	13.2	0.3
26.05.2022	61.3	31.6	8.1	15.4	0.4
30.05.2022	66.2	33.4	8.8	16.1	0.4
Avg	61.0	31.5	8.2	14.9	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




Seal of Laboratory

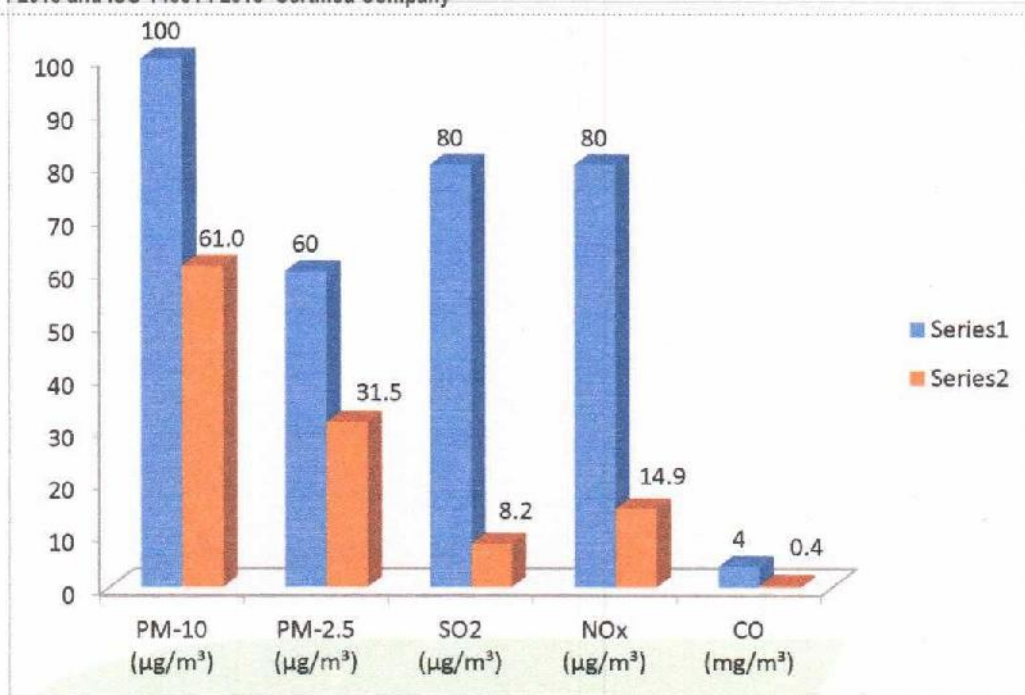
Notes:

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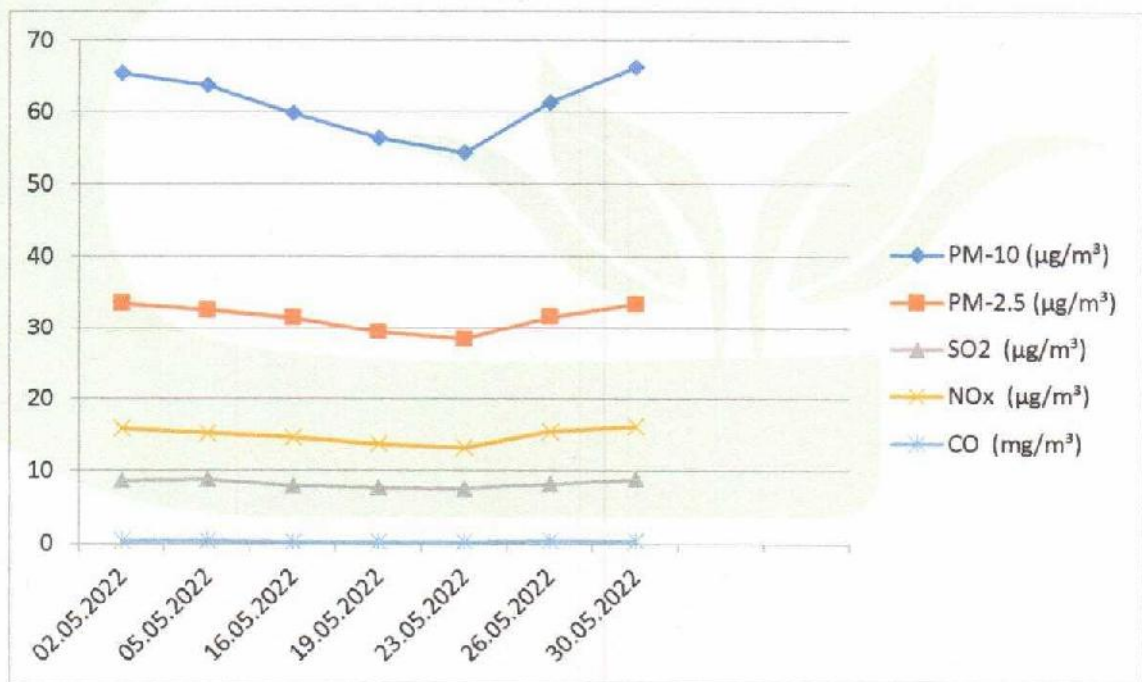
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NB-Series 1-Stands for Standard, Series 2-Stands for Result



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

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/299
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	03.06.2022
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)
02.05.2022	70.2	36.4	9.2	16.8	0.4
05.05.2022	68.5	35.2	8.9	16.2	0.4
09.05.2022	64.5	32.7	7.9	14.8	0.4
12.05.2022	69.4	35.1	8.8	15.7	0.4
16.05.2022	63.1	31.5	7.6	15.3	0.4
19.05.2022	59.7	30.2	7.5	14.6	0.3
23.05.2022	56.8	29.5	7.2	14.3	0.3
26.05.2022	63.3	32.4	7.8	14.6	0.4
30.05.2022	67.4	34.2	8.7	15.6	0.4
Avg	64.8	33.0	8.2	15.3	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.

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Notes:

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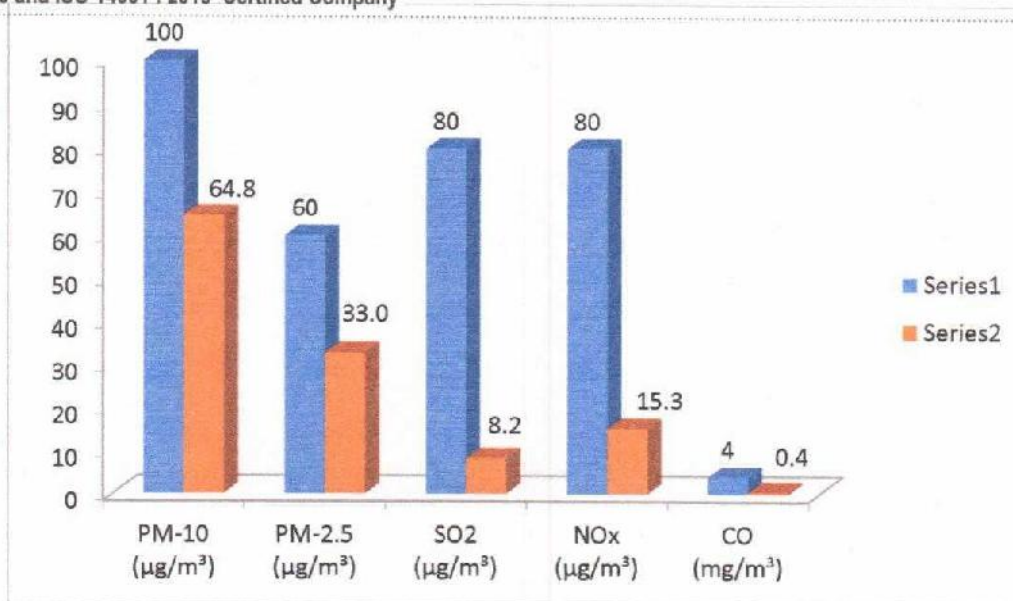
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NB-Series 1—Stands for Standard, Series 2—Stands for Result



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



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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/300
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	23.05.2022
Sample Drawn by	GESEC
Sampling Location	Near TSSEZL Project Office
Issued Date	03.06.2022
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	30	°C	
2.	Relative Humidity	91	% RH	
3.	Sulphur Dioxide(SO ₂)	7.2	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	13.3	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	54.3	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	27.8	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.3	mg/M ³	≤ 04
8.	Ozone(O ₃)	11.5	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	32.8	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 
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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/301
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	23.05.2022
Sample Drawn by	GESEC
Sampling Location	Near Anadrone Office
Issued Date	03.06.2022
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	30	°C	
2.	Relative Humidity	91	% RH	
3.	Sulphur Dioxide(SO ₂)	7.5	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	13.2	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	54.3	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	28.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.3	mg/M ³	≤ 04
8.	Ozone(O ₃)	12.6	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	33.9	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.

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Seal of Laboratory

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/05/302
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	23.05.2022
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.06.2022
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	31	°C	
2.	Relative Humidity	92	% RH	
3.	Sulphur Dioxide(SO ₂)	7.2	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.3	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	56.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	29.5	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.3	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)	35.8	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.

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/05/303

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

Date of Sampling	24.05.2022
Start Date of Analysis	25.05.2022
End Date of Analysis	30.05.2022
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	40	300	Hazen	IS 3025: (Part 4)- 1983; (RA-2017)
2	pH	7.52	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	80	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	515	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	2.8	3	mg/l	IS 3025: Part 44- 1993; (RA-2014)
7	Sulphates as SO4	20.6	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO3	3.35	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 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	750	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

[Signature]



ANALYZED BY-

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No:- GESEC/PRO/2022-23/05/304					
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		24.05.2022
			Start Date of Analysis		25.05.2022
			End Date of Analysis		30.05.2022
			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	105	300	Hazen	IS 3025: (Part 4)- 1983;(RA-2017)
2	pH	7.13	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	65	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	405	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	3.2	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 NO3	3.02	50	mg/l	APHA 23rd ED 4500-NO3-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: 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	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 23rd ED 3500-Cr-B: 2017
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	390	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- 		
					

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/05/305

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	23.05.2022
	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)
23.05.2022	06.00	56.2	23.05.2022	18.00	66.7	dB(A)	75/70
23.05.2022	07.00	55.7	23.05.2022	19.00	65.6	dB(A)	
23.05.2022	08.00	53.6	23.05.2022	20.00	55.1	dB(A)	
23.05.2022	09.00	67.5	23.05.2022	21.00	52.4	dB(A)	
23.05.2022	10.00	66.4	23.05.2022	22.00	44.3	dB(A)	
23.05.2022	11.00	63.9	23.05.2022	23.00	36.4	dB(A)	
23.05.2022	12.00	66.5	24.05.2022	24.00	36.7	dB(A)	
23.05.2022	13.00	67.9	24.05.2022	01.00	34.3	dB(A)	
23.05.2022	14.00	65.1	24.05.2022	02.00	33.7	dB(A)	
23.05.2022	15.00	57.8	24.05.2022	03.00	36.8	dB(A)	
23.05.2022	16.00	56.4	24.05.2022	04.00	46.7	dB(A)	
23.05.2022	17.00	65.9	24.05.2022	05.00	55.3	dB(A)	
Day Time Leq		61.4					
Night Time Leq		40.5					

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

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- 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)
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- GESEC/PRO/2022-23/05/306		
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	23.05.2022
	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)
23.05.2022	06.00	68.8	23.05.2022	18.00	68.9	dB(A)	75/70
23.05.2022	07.00	67.5	23.05.2022	19.00	67.2	dB(A)	
23.05.2022	08.00	64.9	23.05.2022	20.00	55.3	dB(A)	
23.05.2022	09.00	69.4	23.05.2022	21.00	65.7	dB(A)	
23.05.2022	10.00	68.5	23.05.2022	22.00	67.9	dB(A)	
23.05.2022	11.00	66.4	23.05.2022	23.00	52.5	dB(A)	
23.05.2022	12.00	64.3	24.05.2022	24.00	46.8	dB(A)	
23.05.2022	13.00	68.7	24.05.2022	01.00	44.2	dB(A)	
23.05.2022	14.00	69.8	24.05.2022	02.00	38.5	dB(A)	
23.05.2022	15.00	66.0	24.05.2022	03.00	44.1	dB(A)	
23.05.2022	16.00	56.2	24.05.2022	04.00	47.5	dB(A)	
23.05.2022	17.00	67.3	24.05.2022	05.00	66.2	dB(A)	
Day Time Leq		65.9					
Night Time Leq		51.0					

Remark-

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

AUTHORIZED SIGNATORY	ANALYZED BY-
	



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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/06/635
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	03.07.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	Your LOI Email Dated 01/06/2022

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)
02.06.2022	61.4	32.4	8.6	15.7	0.4
06.06.2022	59.7	31.2	8.4	15.2	0.4
09.06.2022	55.2	28.4	7.3	13.3	0.3
14.06.2022	58.3	29.8	8.1	14.2	0.4
16.06.2022	60.2	31.1	8.5	15.8	0.4
21.06.2022	56.4	26.9	7.9	14.3	0.3
23.06.2022	57.8	27.6	7.3	14.4	0.4
27.06.2022	55.4	28.1	7.5	13.5	0.3
30.06.2022	53.7	26.8	7.4	13.1	0.3
Avg	57.6	29.1	7.9	14.4	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.*

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.

Authorized Signatory

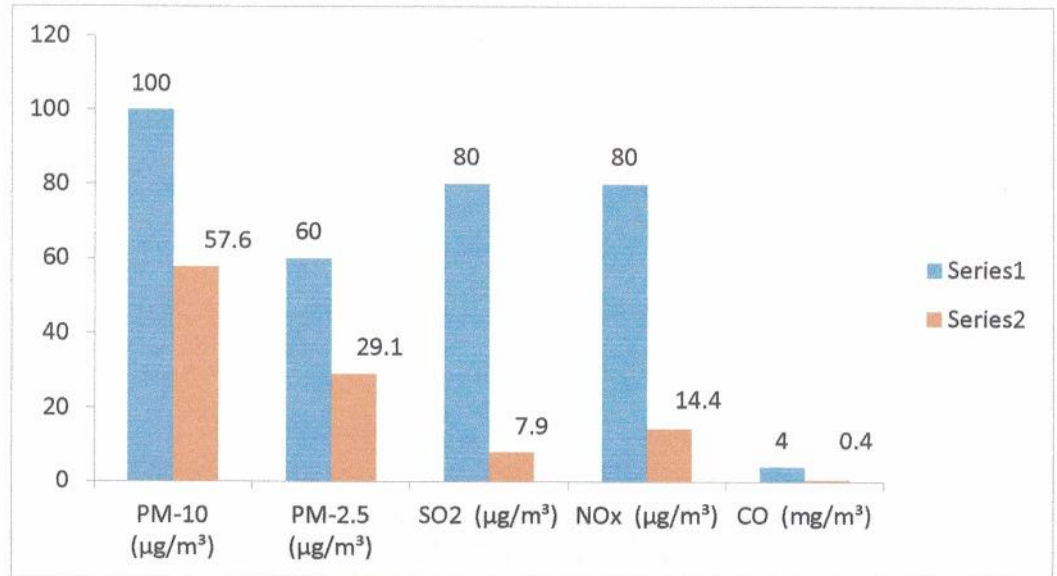
Seal of Laboratory



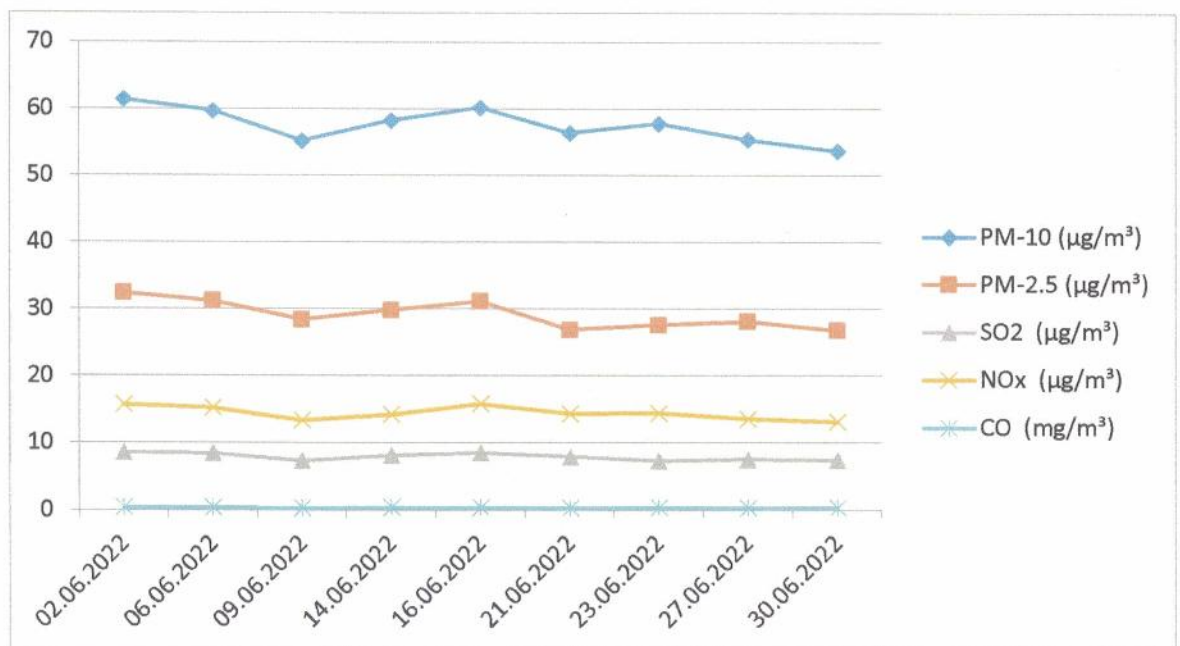
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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 04/12/2022.

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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 June -22

Terms and conditions

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/06/636
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	03.07.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	Your LOI Email Dated 01/06/2022

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)
02.06.2022	68.4	34.8	9.1	16.2	0.4
06.06.2022	64.3	32.5	8.9	15.8	0.4
09.06.2022	65.4	33.2	9.0	15.1	0.4
14.06.2022	62.4	33.1	8.8	14.8	0.4
16.06.2022	60.2	31.1	8.5	15.7	0.4
21.06.2022	63.4	33.4	8.6	14.8	0.4
23.06.2022	59.8	30.2	8.2	14.5	0.4
27.06.2022	57.3	27.5	7.5	13.4	0.4
30.06.2022	60.4	30.8	7.9	15.4	0.4
Avg	62.4	31.8	8.5	15.1	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.

Notes:

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Authorized Signatory

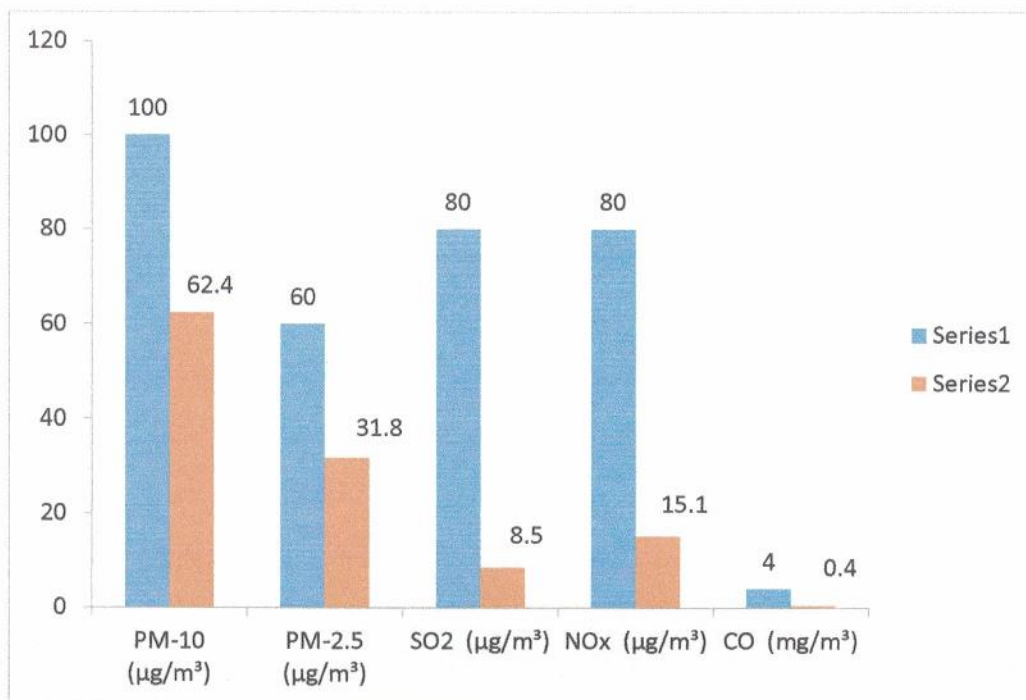
Seal of Laboratory

Terms and conditions

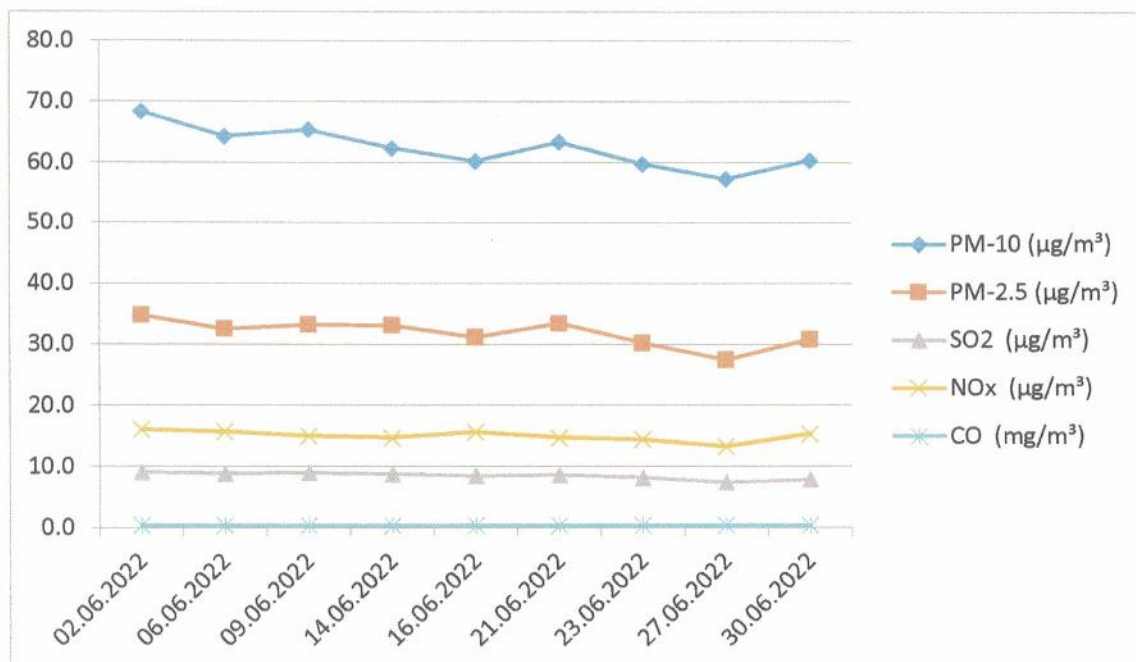
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NB-Series 1—Stands for Standard, Series 2—Stands for Result



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

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/06/637
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	03.07.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	Your LOI Email Dated 01/06/2022

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)
02.06.2022	68.9	34.9	9.7	16.4	0.4
06.06.2022	65.4	34.2	9.1	16.1	0.4
09.06.2022	70.3	36.3	9.7	16.7	0.4
14.06.2022	67.5	35.8	8.9	16.2	0.4
16.06.2022	64.5	32.6	8.7	15.8	0.4
21.06.2022	65.2	33.8	8.6	15.6	0.4
23.06.2022	66.4	35.2	9.1	15.7	0.4
27.06.2022	62.5	32.4	8.4	14.9	0.4
30.06.2022	63.7	33.2	8.6	15.2	0.4
Avg	66.0	34.3	9.0	15.8	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.

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Authorized Signatory

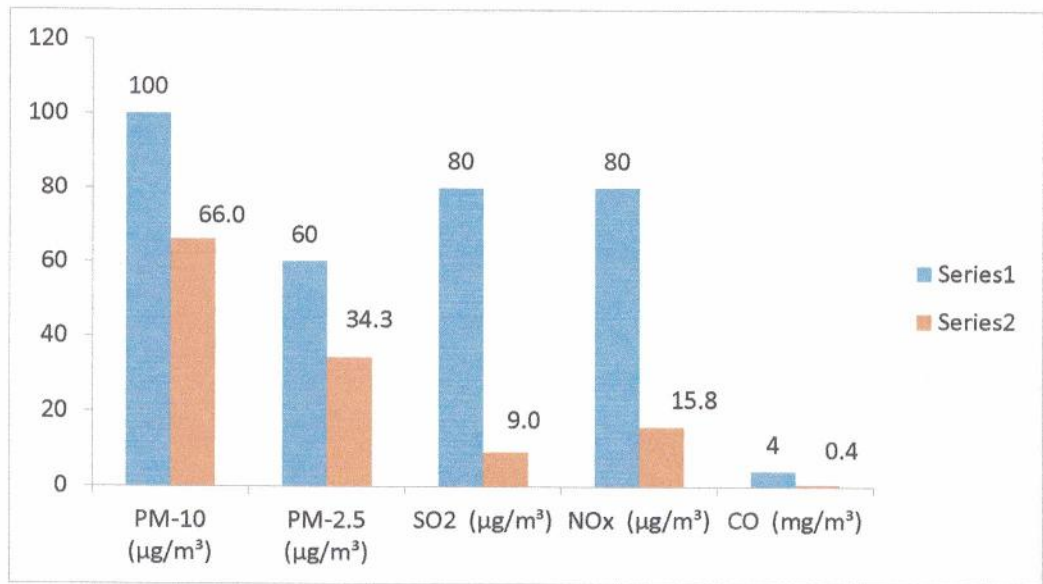
Seal of Laboratory

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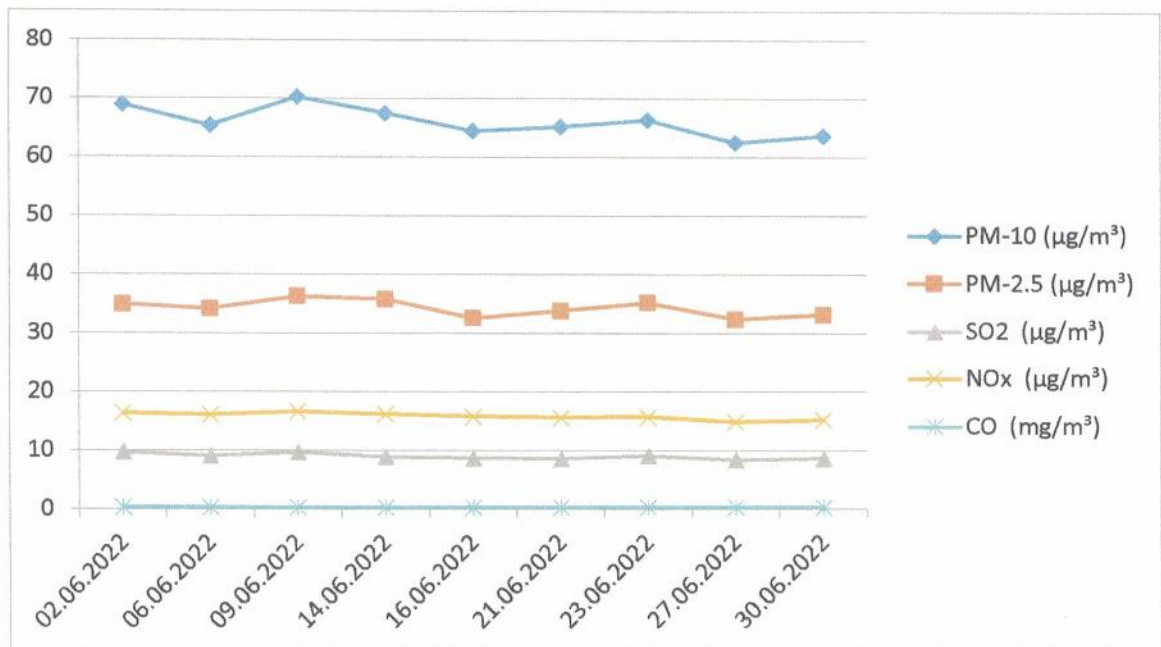
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NB-Series 1–Stands for Standard, Series 2–Stands for Result



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



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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/06/638
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	21.06.2022
Sample Drawn by	GESEC
Sampling Location	Near TSSEZL Project Office
Issued Date	03.07.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	Your LOI Email Dated 01/06/2022

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Relative Humidity	81	% RH	
3.	Sulphur Dioxide(SO ₂)	7.9	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.3	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	56.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	27.6	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.3	mg/M ³	≤ 04
8.	Ozone(O ₃)	10.3	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	30.6	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

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/06/639			
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	21.06.2022			
Sample Drawn by	GESEC			
Sampling Location	Near Anadrone Office			
Issued Date	03.07.2022			
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment			
P.O NO	Your LOI Email Dated 01/06/2022			
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Relative Humidity	82	% RH	
3.	Sulphur Dioxide(SO ₂)	8.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.8	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	63.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	33.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	11.8	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	32.1	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	




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TEST CERTIFICATE	
Report No:-	GESEC/PRO/2022-23/06/640
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	21.06.2022
Sample Drawn by	GESEC
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.07.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	Your LOI Email Dated 01/06/2022

Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Relative Humidity	82	% RH	
3.	Sulphur Dioxide(SO ₂)	8.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	15.6	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	65.2	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	33.8	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	13.5	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	34.7	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 
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 ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:-	GESEC/PRO/2022-23/06/641	
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	20.06.2022
	Start Date of Analysis	21.06.2022
	End Date of Analysis	26.06.2022
	Sample Details	Surface water (US)
	Nature of sample	Liquid
Sample Collected By	Green EnviroSafe Engineers & Consultant Pvt. Ltd.	
P.O NO	Your LOI Email Dated 01/06/2022	

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	10	300	Hazen	IS 3025: (Part 4)- 1983; (RA-2017)
2	pH	7.24	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	77	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	465	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	4.8	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	3.1	3	mg/l	IS 3025: Part 44- 1993; (RA-2014)
7	Sulphates as SO ₄	25.2	400	mg/l	APHA 23rd ED 4500-SO ₄ -E: 2017
8	Nitrates as NO ₃	3.12	50	mg/l	APHA 23rd ED 4500-NO ₃ -B: 2017
9	Fluoride as F	0.38	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 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 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	680	5000	MPN/100ml	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-



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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No:- GESEC/PRO/2022-23/06/642					
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		20.06.2022
			Start Date of Analysis		21.06.2022
			End Date of Analysis		26.06.2022
			Sample Details		Surface water (DS)
			Nature of sample		Liquid
Sample Collected By			Green Envirosafe Engineers & Consultant Pvt. Ltd.		
P.O NO			Your LOI Email Dated 01/06/2022		
WATER ANALYSIS RESULT					
Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	110	300	Hazen	IS 3025: (Part 4)- 1983:(RA-2017)
2	pH	6.96	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	60	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	428	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	5.2	4	mg/l	APHA 23rd ED 4500-OC :2017
6	BOD 3 days 27 °C	4.6	3	mg/l	IS 3025: Part 44- 1993:(RA-2014)
7	Sulphates as SO4	20.6	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO3	2.89	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.29	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 I IB,23rd Ed 2017 (AAS)
16	Arsenic asAs	<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: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	320	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-		
					
					

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NOISE LEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:- **GESEC/PRO/2022-23/06/643**

Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	20.06.2022
	Sample Details	Noise For 24 Hours
	Sample location	Near TSSEZL Project Office
Sample Collected By	Green Envirosafe Engineers & Consultant Pvt. Ltd.	
P.O NO:	Your LOI Email Dated 01/06/2022	

Noise Monitoring Result

Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
20.06.2022	06.00	55.4	20.06.2022	18.00	68.9	dB(A)	75/70
20.06.2022	07.00	54.3	20.06.2022	19.00	66.8	dB(A)	
20.06.2022	08.00	57.6	20.06.2022	20.00	56.4	dB(A)	
20.06.2022	09.00	68.4	20.06.2022	21.00	51.5	dB(A)	
20.06.2022	10.00	67.8	20.06.2022	22.00	45.3	dB(A)	
20.06.2022	11.00	64.3	20.06.2022	23.00	41.2	dB(A)	
20.06.2022	12.00	63.5	21.06.2022	24.00	38.4	dB(A)	
20.06.2022	13.00	68.6	21.06.2022	01.00	35.7	dB(A)	
20.06.2022	14.00	67.8	21.06.2022	02.00	33.7	dB(A)	
20.06.2022	15.00	55.1	21.06.2022	03.00	35.8	dB(A)	
20.06.2022	16.00	54.8	21.06.2022	04.00	46.5	dB(A)	
20.06.2022	17.00	67.9	21.06.2022	05.00	51.6	dB(A)	
Day Time Leq		61.8					
Night Time Leq		41.0					

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-

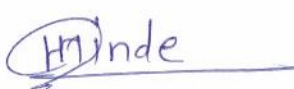
(Signature)

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:- GESEC/PRO/2022-23/06/644							
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020				Date of Sampling		20.06.2022	
				Sample Details		Noise For 24 Hours	
				Sample location		Near Anadrone Office	
Sample Collected By				Green Envirosafe Engineers & Consultant Pvt. Ltd.			
P.O NO				Your LOI Email Dated 01/06/2022			
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
20.06.2022	06.00	69.2	20.06.2022	18.00	69.8	dB(A)	75/70
20.06.2022	07.00	66.5	20.06.2022	19.00	66.8	dB(A)	
20.06.2022	08.00	65.4	20.06.2022	20.00	54.3	dB(A)	
20.06.2022	09.00	71.2	20.06.2022	21.00	59.8	dB(A)	
20.06.2022	10.00	69.5	20.06.2022	22.00	68.3	dB(A)	
20.06.2022	11.00	67.2	20.06.2022	23.00	53.1	dB(A)	
20.06.2022	12.00	66.1	21.06.2022	24.00	45.7	dB(A)	
20.06.2022	13.00	69.4	21.06.2022	01.00	43.4	dB(A)	
20.06.2022	14.00	70.2	21.06.2022	02.00	39.1	dB(A)	
20.06.2022	15.00	64.3	21.06.2022	03.00	37.5	dB(A)	
20.06.2022	16.00	58.1	21.06.2022	04.00	38.4	dB(A)	
20.06.2022	17.00	67.8	21.06.2022	05.00	67.6	dB(A)	
Day Time Leq		66.0					
Night Time Leq		49.1					
Remark-							
➤ All above Noise level results are within Central Pollution Control Board Standards limit.							
➤ Day/Night -75/70 dB.(A)							
AUTHORIZED SIGNATORY				ANALYZED BY-			
				 			

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/07/373
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	Client
Sampling Location	Near TS SEZL Project Office
Issued Date	03.08.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
04.07.2022	50.2	24.6	6.9	12.1	0.3
07.07.2022	51.3	25.9	7.5	12.8	0.3
11.07.2022	48.6	24.1	6.3	11.7	0.3
14.07.2022	55.5	28.7	7.7	13.2	0.3
18.07.2022	59.4	31.9	8.3	14.8	0.4
21.07.2022	60.3	30.4	8.5	14.7	0.4
25.07.2022	54.1	27.8	7.1	14.3	0.3
28.07.2022	60.5	31.3	8.4	15.7	0.4
Avg	55.0	28.1	7.6	13.7	0.3
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:

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- ☐ The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
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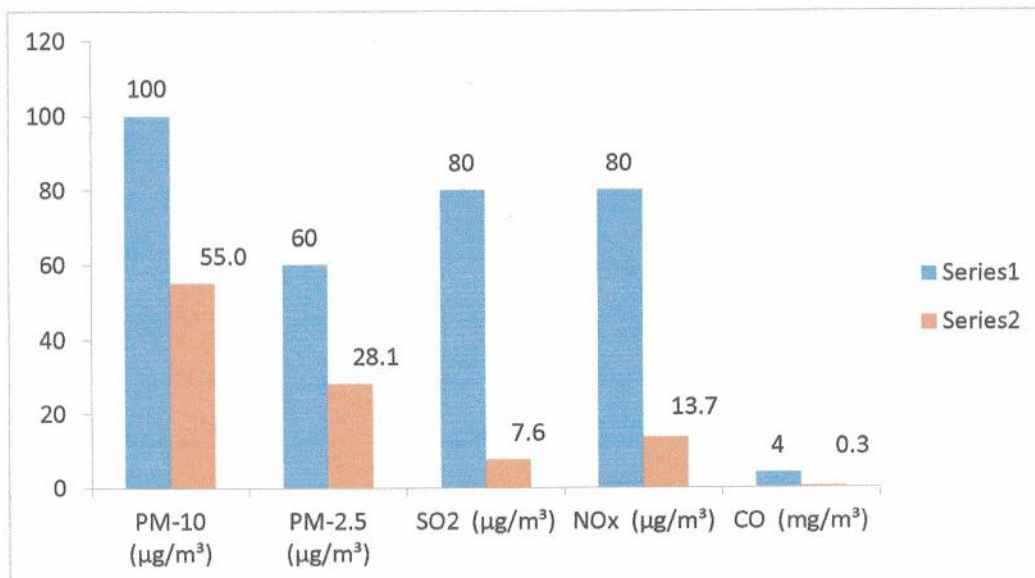
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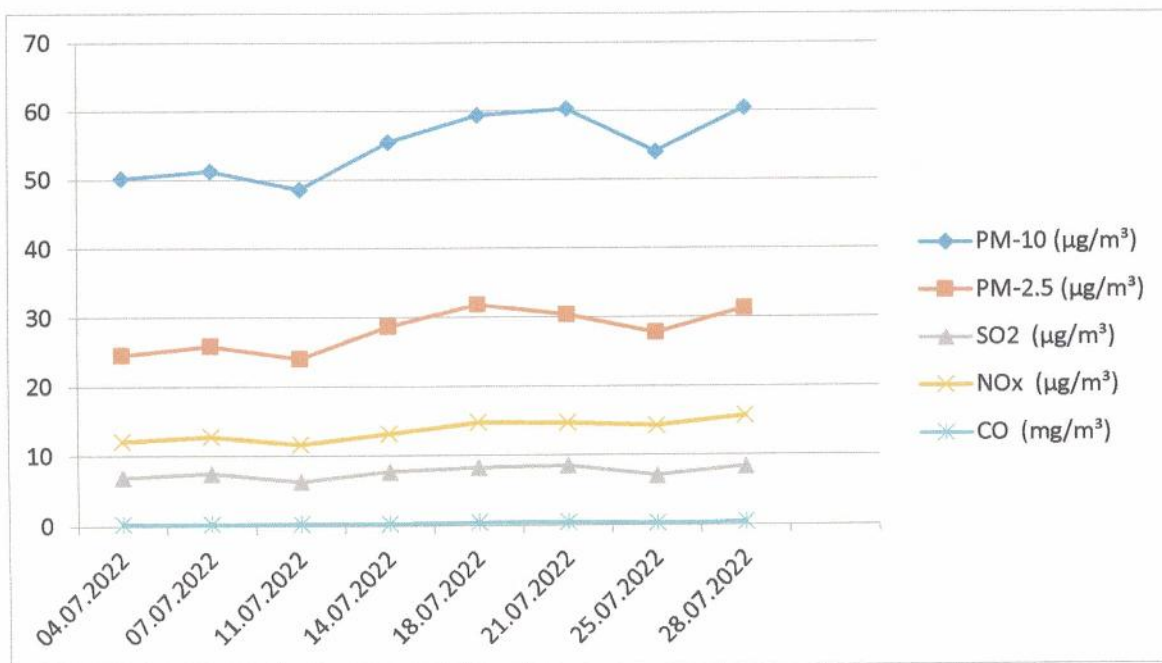


Seal of Laboratory

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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 July -22

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/07/374
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	Client
Sampling Location	Near Anadrone Office
Issued Date	03.08.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
04.07.2022	52.4	26.5	7.4	13.2	0.3
07.07.2022	51.6	26.5	7.8	12.8	0.3
11.07.2022	50.7	26.4	7.4	13.1	0.3
14.07.2022	62.5	33.1	8.8	14.7	0.4
18.07.2022	61.3	30.9	9.4	15.8	0.4
21.07.2022	65.3	29.8	9.4	14.8	0.4
25.07.2022	55.4	28.5	7.8	13.3	0.3
28.07.2022	63.6	33.5	8.9	14.9	0.4
Avg	57.9	29.4	8.4	14.1	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:

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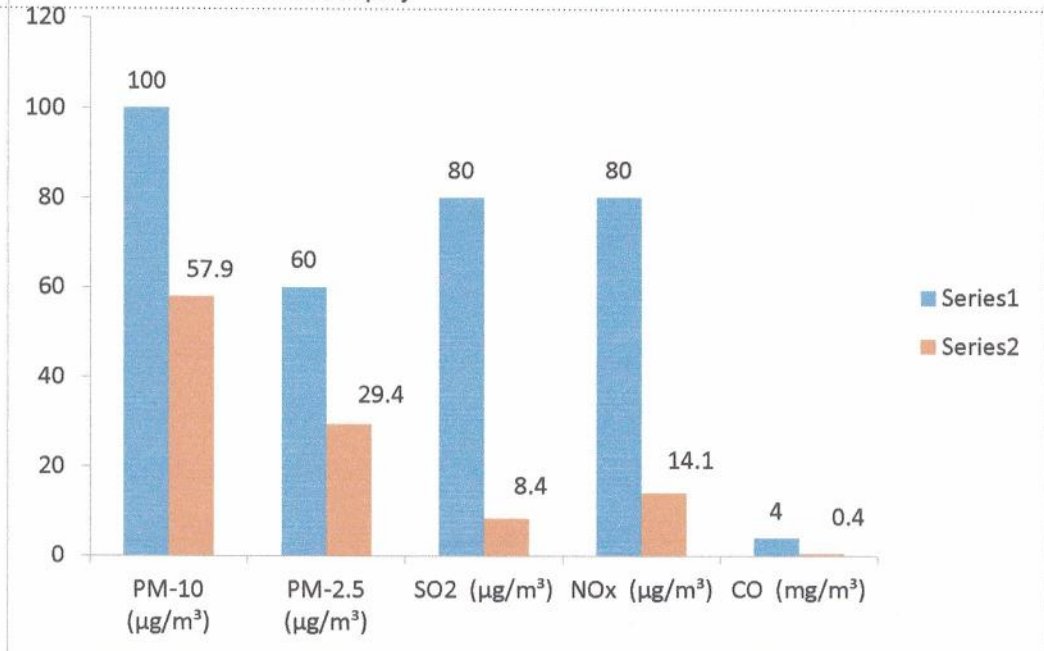
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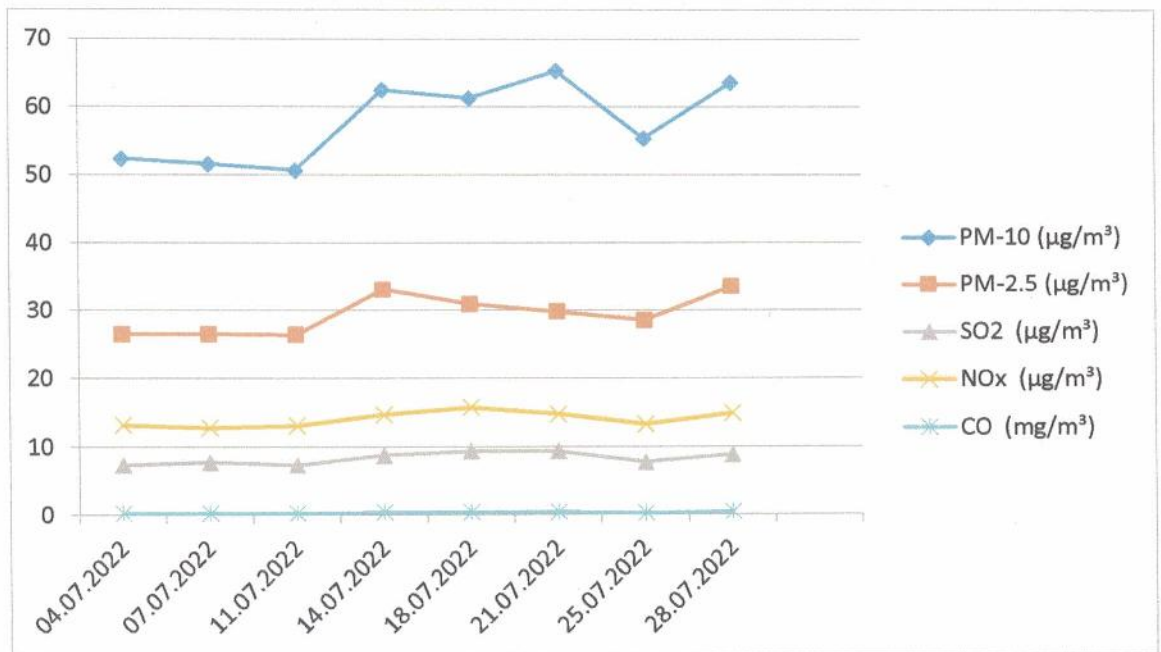


Seal of Laboratory

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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 July -22

Terms and conditions

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AMBIENT AIR QUALITY MONITORING TEST REPORT

ANALYSIS RESULT

Report No:-	GESEC/PRO/2022-23/07/375				
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.				
Sample Description	Ambient Air Quality				
Sample Drawn Period/Time	Monthly				
Sample Drawn by	Client				
Sampling Location	Near Main Gate (Chama Khandi)				
Issued Date	03.08.2022				
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment				
P.O NO	TSSEZL/2022/30002204232				
Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NOx (µg/m ³)	CO (µg/m ³)
04.07.2022	54.2	27.5	7.5	13.1	0.3
07.07.2022	57.6	28.7	8.3	14.4	0.3
11.07.2022	56.4	28.8	7.5	13.2	0.3
14.07.2022	64.6	34.2	8.9	15.8	0.4
18.07.2022	68.4	35.2	9.5	16.2	0.4
21.07.2022	70.1	36.3	9.8	16.7	0.4
25.07.2022	60.2	31.1	8.5	15.6	0.3
28.07.2022	68.9	35.3	9.7	16.6	0.4
Avg	62.6	32.1	8.7	15.2	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

Seal of Laboratory

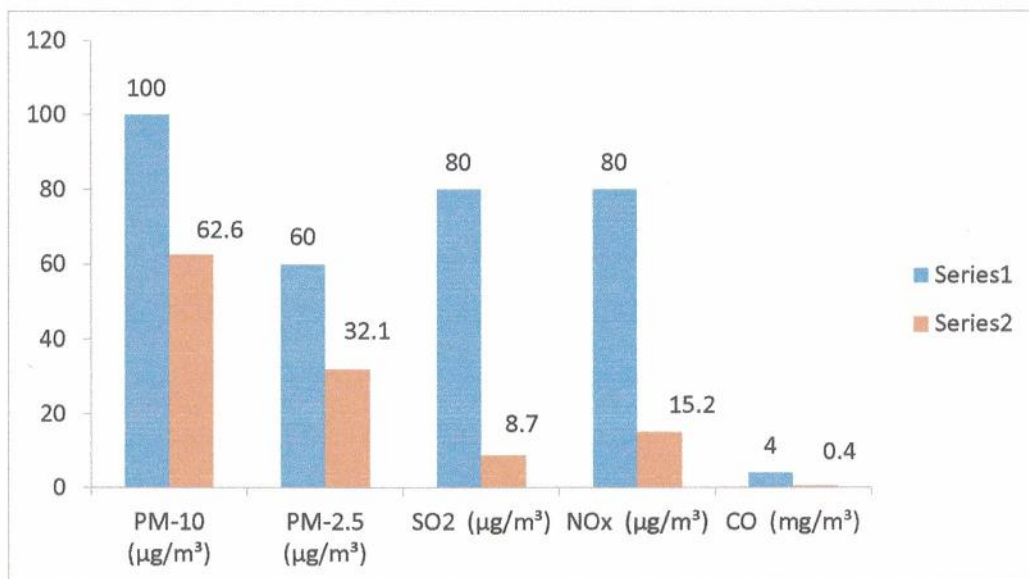
Notes:

1. The result given above related to the tested sample, as received. The customer asked for the above test only.
2. This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
3. The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
4. 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.

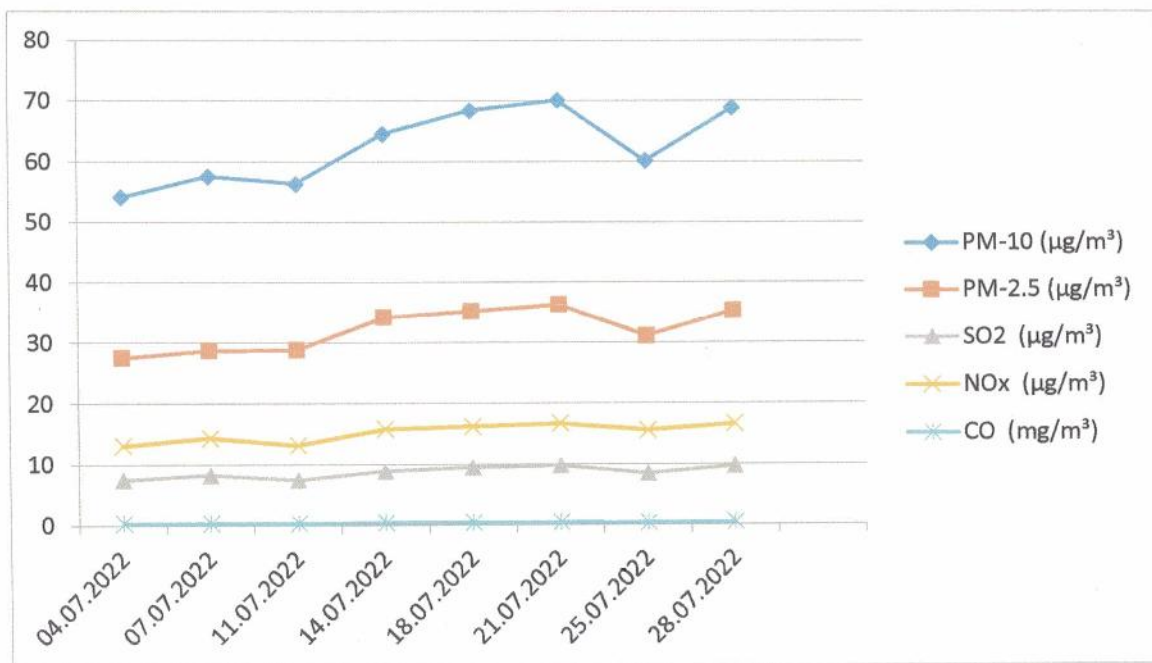
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NB-Series 1—Stands for Standard, Series 2—Stands for Result



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

22

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/07/376
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	21.07.2022
Sample Drawn by	Client
Sampling Location	Near TSSEZL Project Office
Issued Date	03.08.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

Ambient Air Analysis Result

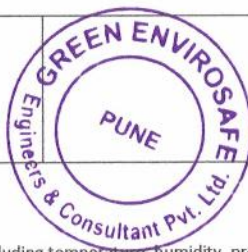
Sr. No	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Relative Humidity	62	% RH	
3.	Sulphur Dioxide(SO ₂)	8.5	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.7	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	60.3	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	30.4	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	7.4	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	22.3	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

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Seal of Laboratory

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/07/377
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	21.07.2022
Sample Drawn by	Client
Sampling Location	Near Anadron Office
Issued Date	03.08.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Relative Humidity	59	% RH	
3.	Sulphur Dioxide(SO ₂)	9.4	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.8	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	65.3	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	29.8	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	8.6	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	23.7	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-

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- BDL – Below Detectable Limit.

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/07/378
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	21.07.2022
Sample Drawn by	Client
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.08.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	31	°C	
2.	Relative Humidity	65	% RH	
3.	Sulphur Dioxide(SO ₂)	9.8	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	16.7	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	70.1	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	36.3	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	10.4	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	26.2	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-

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- BDL – Below Detectable Limit.

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:-	GESEC/PRO/2022-23/07/379	
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	22.07.2022
	Start Date of Analysis	23.07.2022
	End Date of Analysis	28.07.2022
	Sample Details	Surface water (US)
	Nature of sample	Liquid
Sample Collected By	Client	
P.O NO	TSSEZL/2022/30002204232	

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	7.1	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	420	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.5	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	18.6	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	2.9	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.11	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 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 4500 Cr B 23rd Ed. 2017 (AAS)
20	Phenolic Compounds	ND	0.005	mg/l	IS : 3025 (Part 23)
21	Total Coliform	760	5000	MPN/100ml	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.

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE

Report No:-	GESEC/PRO/2022-23/07/380	
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	22.07.2022
	Start Date of Analysis	23.07.2022
	End Date of Analysis	28.07.2022
	Sample Details	Surface water (DS)
	Nature of sample	Liquid
Sample Collected By	Client	
P.O NO	TSSEZL/2022/30002204232	

WATER ANALYSIS RESULT

Sr. No.	Parameter	Result	Limits as per Is 2296:2012	Unit(s)	Standard Method
Physical Parameter					
1	Colour	25	300	Hazen	IS 3025: (Part 4)- 1983;(RA-2017)
2	pH	6.8	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	45	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	398	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	14.2	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	2.3	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.07	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	0.09	50	mg/l	APHA 23 rd 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 I IB,23rd Ed 2017 (AAS)
16	Arsenic asAs	<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 23 rd ED 3500-Cr-B: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23 rd ED 3500
21	Total Coliform	430	5000	MPN/100ml	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.

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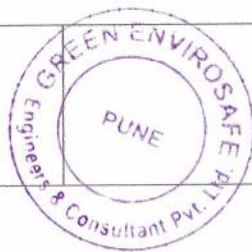
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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:-			GESEC/PRO/2022-23/07/381				
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		21.07.2022		
			Sample Details		Noise For 24 Hours		
			Sample location		Near TSSEZL Project Office		
Sample Collected By			Client				
P.O NO:			TSSEZL/2022/30002204232				
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
21.07.2022	06.00	54.2	21.07.2022	18.00	67.3	dB(A)	75/70
21.07.2022	07.00	55.2	21.07.2022	19.00	65.1	dB(A)	
21.07.2022	08.00	55.9	21.07.2022	20.00	54.6	dB(A)	
21.07.2022	09.00	66.4	21.07.2022	21.00	50.5	dB(A)	
21.07.2022	10.00	67.6	21.07.2022	22.00	44.8	dB(A)	
21.07.2022	11.00	64.2	21.07.2022	23.00	42.2	dB(A)	
21.07.2022	12.00	62.8	22.08.2022	24.00	39.6	dB(A)	
21.07.2022	13.00	66.9	22.08.2022	01.00	34.9	dB(A)	
21.07.2022	14.00	67.2	22.08.2022	02.00	33.8	dB(A)	
21.07.2022	15.00	56.2	22.08.2022	03.00	32.4	dB(A)	
21.07.2022	16.00	53.7	22.08.2022	04.00	39.9	dB(A)	
21.07.2022	17.00	65.9	22.08.2022	05.00	53.4	dB(A)	
Day Time Leq		62.2					
Night Time Leq		40.1					
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB..(A)							
AUTHORIZED SIGNATORY 						ANALYZED BY- 	



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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE

Report No:-	GESEC/PRO/2022-23/07/382	
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020	Date of Sampling	21.07.2022
	Sample Details	Noise For 24 Hours
	Sample location	Near Anadrone Office
Sample Collected By	Client	
P.O NO	TSSEZL/2022/30002204232	

Noise Monitoring Result

Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
21.07.2022	06.00	68.7	21.07.2022	18.00	68.3	dB(A)	75/70
21.07.2022	07.00	65.4	21.07.2022	19.00	67.1	dB(A)	
21.07.2022	08.00	66.2	21.07.2022	20.00	55.3	dB(A)	
21.07.2022	09.00	69.3	21.07.2022	21.00	58.6	dB(A)	
21.07.2022	10.00	67.6	21.07.2022	22.00	67.8	dB(A)	
21.07.2022	11.00	66.8	21.07.2022	23.00	52.4	dB(A)	
21.07.2022	12.00	65.7	22.08.2022	24.00	46.1	dB(A)	
21.07.2022	13.00	68.9	22.08.2022	01.00	42.5	dB(A)	
21.07.2022	14.00	63.7	22.08.2022	02.00	38.4	dB(A)	
21.07.2022	15.00	61.5	22.08.2022	03.00	36.9	dB(A)	
21.07.2022	16.00	58.6	22.08.2022	04.00	37.6	dB(A)	
21.07.2022	17.00	67.4	22.08.2022	05.00	66.7	dB(A)	
Day Time Leq		64.9					
Night Time Leq		48.6					

Remark-

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

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- 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)
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/08/311
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	03.09.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
02.08.2022	59.6	30.4	8.2	14.3	0.4
04.08.2022	58.3	29.5	7.9	13.5	0.4
08.08.2022	55.4	28.4	7.4	13.5	0.3
11.08.2022	49.6	26.8	6.8	11.2	0.3
16.08.2022	57.9	28.7	7.8	13.2	0.3
18.08.2022	52.7	26.8	7.1	13.7	0.3
22.08.2022	48.4	24.6	6.5	11.5	0.3
25.08.2022	59.8	29.5	8.6	14.5	0.4
30.08.2022	61.4	30.2	8.7	14.8	0.4
Avg	55.9	28.3	7.7	13.4	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.

[Signature]

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Notes:

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4. 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.



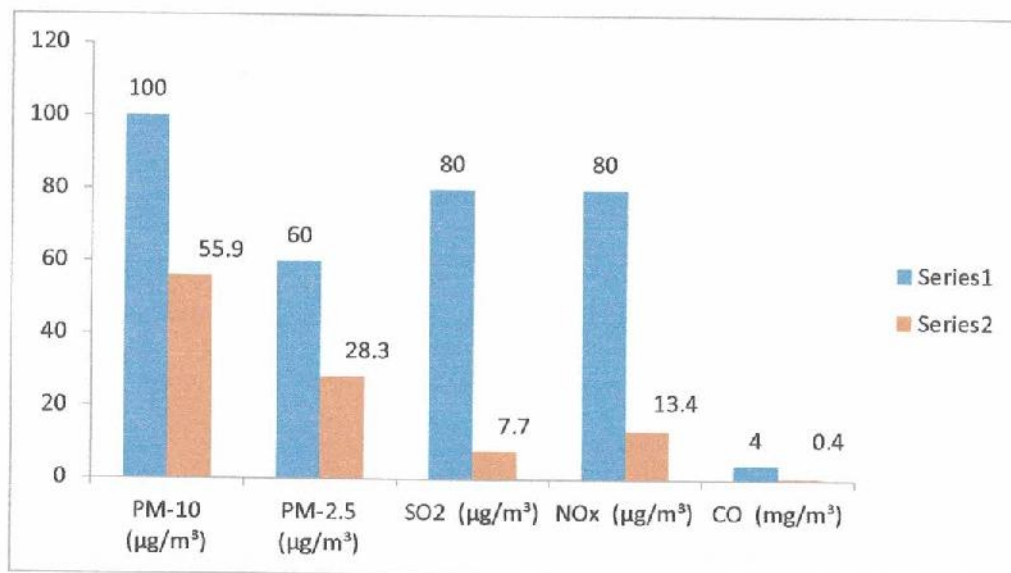
[Signature]

Authorized Signatory

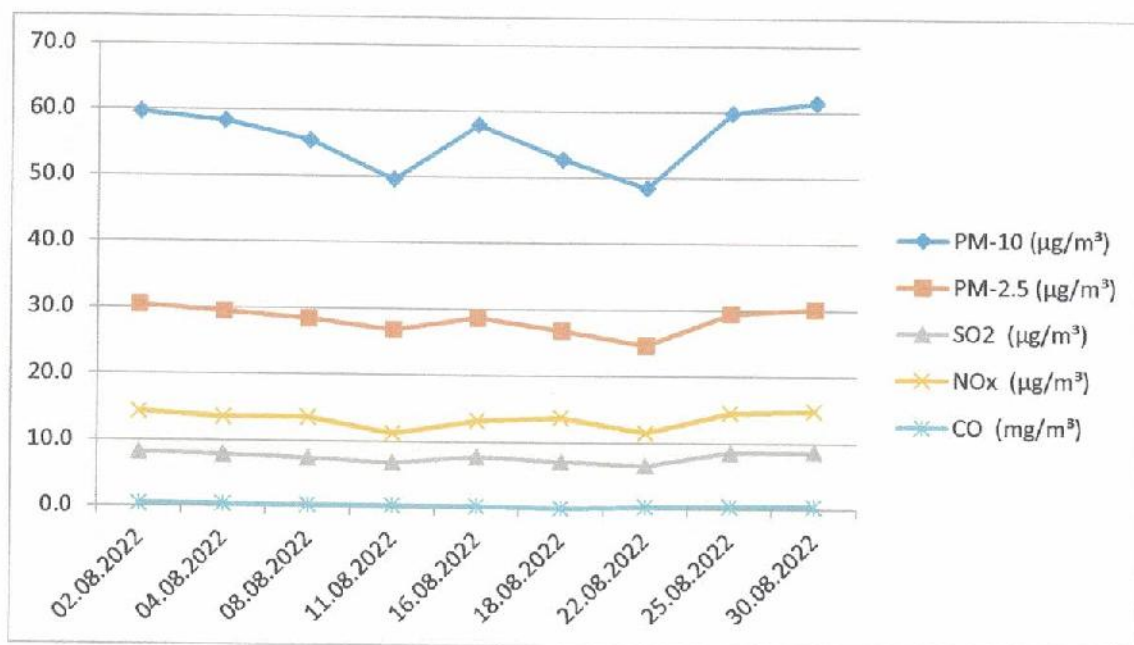
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6. MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024

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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 August -22

Terms and conditions

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/08/312
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	03.09.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
02.08.2022	64.2	34.5	8.9	14.6	0.4
04.08.2022	65.3	33.8	8.4	14.2	0.4
08.08.2022	58.4	29.5	8.4	13.6	0.3
11.08.2022	56.7	28.9	8.1	13.1	0.3
16.08.2022	62.1	30.5	8.7	14.2	0.4
18.08.2022	55.7	28.4	7.6	12.9	0.3
22.08.2022	53.4	27.3	7.5	13.9	0.3
25.08.2022	63.4	32.8	8.1	13.9	0.4
30.08.2022	66.2	34.1	8.7	14.6	0.4
Avg	60.6	31.1	8.3	13.9	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.*

ANALYZED BY

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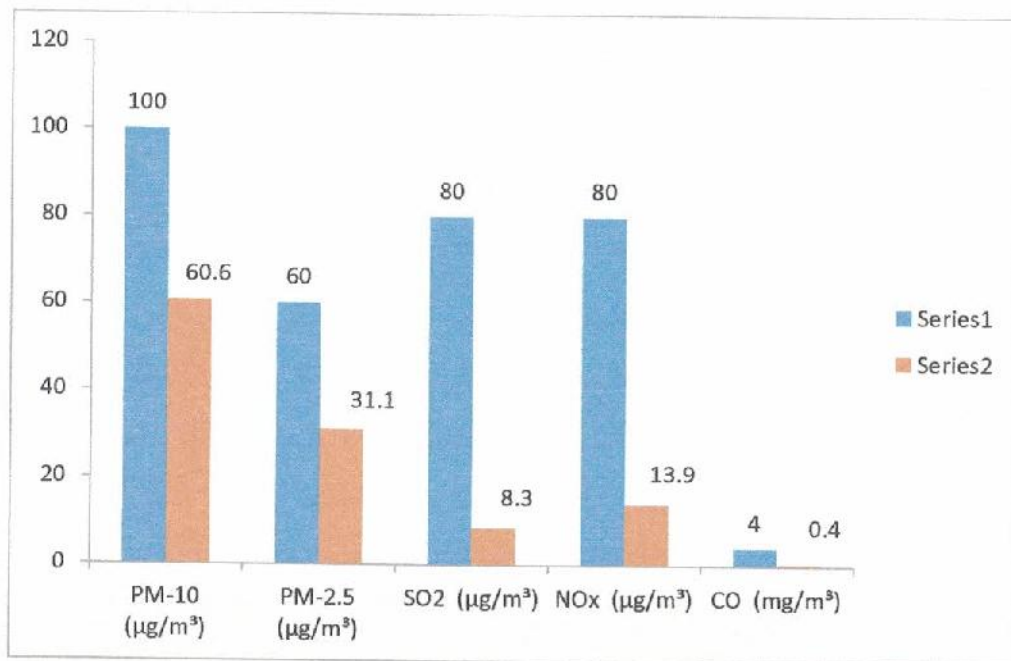
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6. MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024

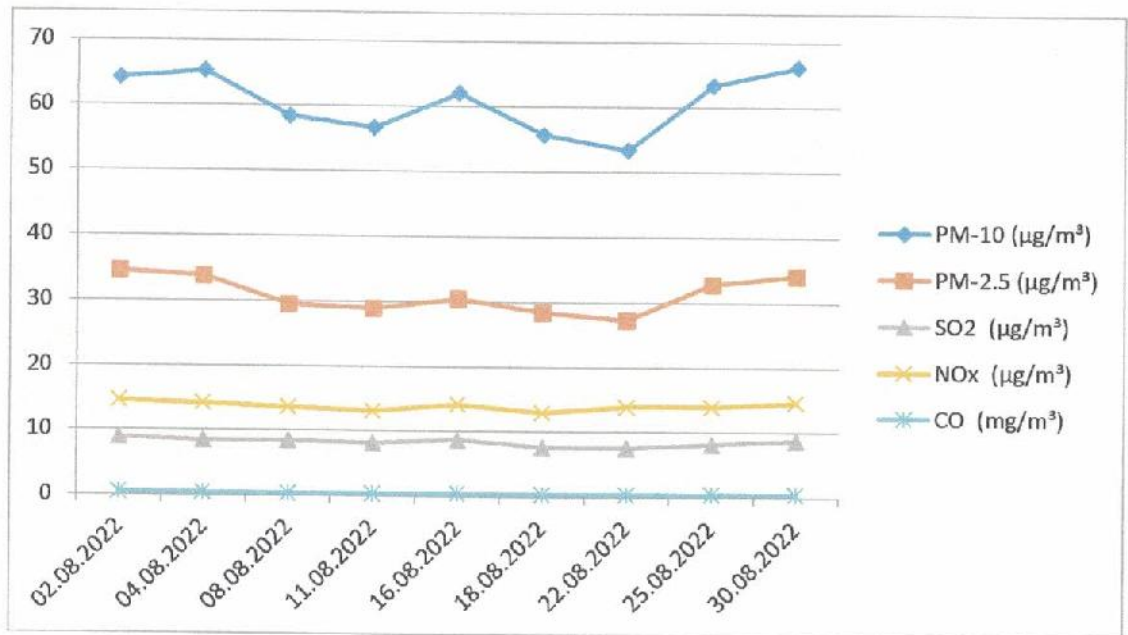


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NB-Series 1—Stands for Standard, Series 2—Stands for Result



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

Terms and conditions

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- MoEF approved Lab by Govt. of India, From date, 16/02/2022 to 29/02/2024





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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/08/313
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	03.09.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
02.08.2022	68.2	35.2	9.5	16.2	0.4
04.08.2022	69.5	35.7	9.6	16.5	0.4
08.08.2022	58.2	29.8	8.7	13.9	0.3
11.08.2022	56.4	27.9	8.4	13.5	0.3
16.08.2022	64.5	32.6	8.1	14.5	0.4
18.08.2022	59.4	30.3	8.8	14.6	0.3
22.08.2022	55.4	27.9	7.9	13.6	0.3
25.08.2022	64.8	34.7	8.9	15.7	0.4
30.08.2022	67.9	34.9	9.1	16.2	0.4
Avg	62.7	32.1	8.8	15.0	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.

ANALYZED BY

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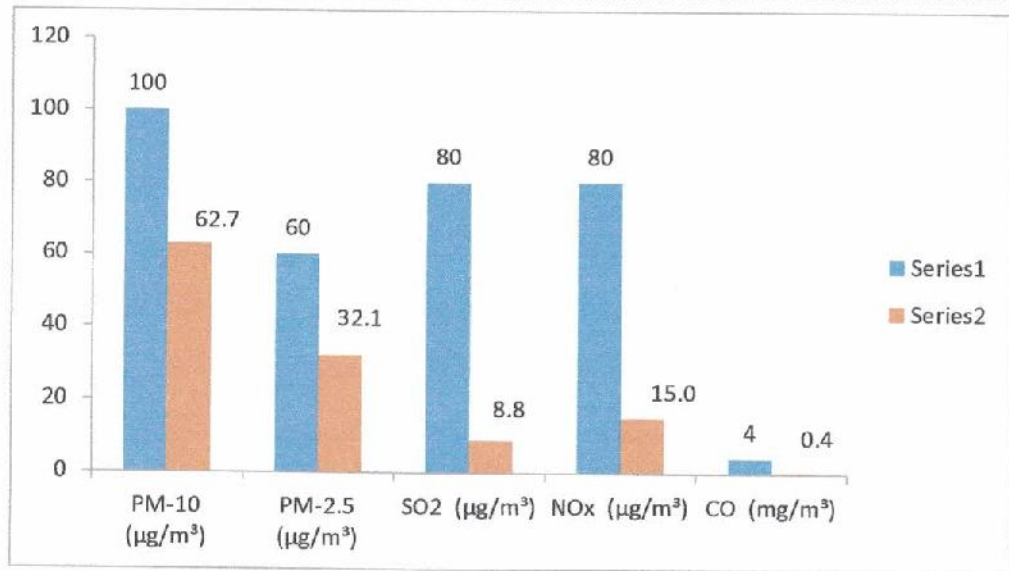
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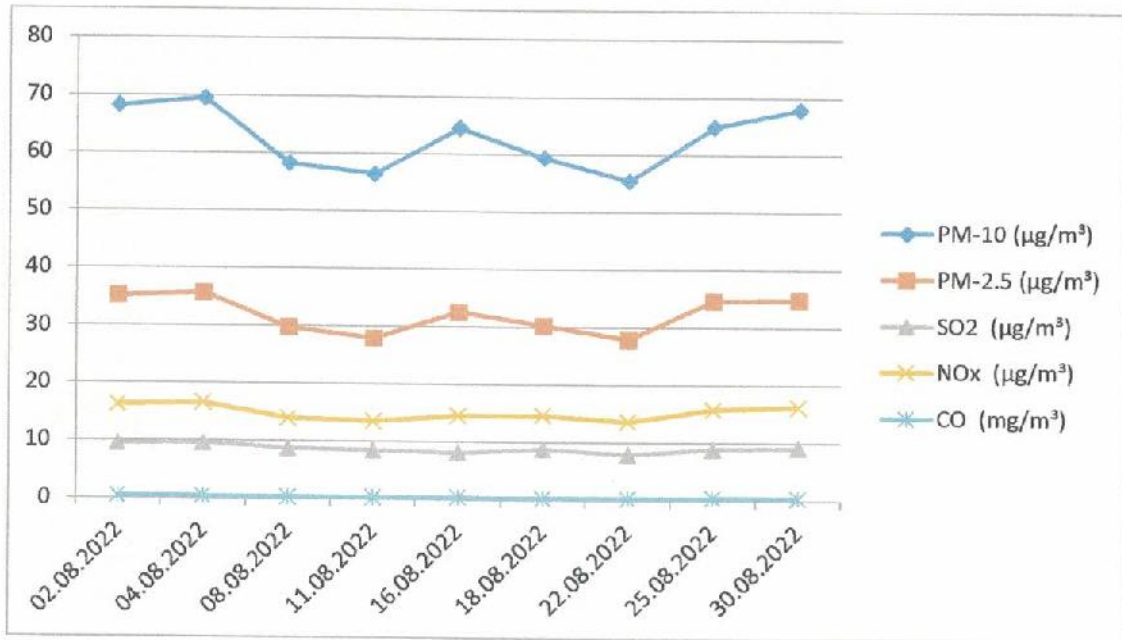
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NB-Series 1-Stands for Standard, Series 2-Stands for Resu



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

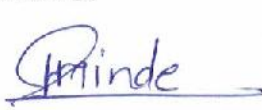


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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/08/314			
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	25.08.2022			
Sample Drawn by	GESEC			
Sampling Location	Near TSSEZL Project Office			
Issued Date	03.09.2022			
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment			
P.O NO	TSSEZL/2022/30002204232			
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Relative Humidity	68	% RH	
3.	Sulphur Dioxide(SO ₂)	8.6	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.5	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	59.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	29.5	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)	<17	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.				
ANALYZED BY		AUTHORIZED SIGNATORY		
				
				

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/2022-23/08/315			
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	25.08.2022			
Sample Drawn by	GESEC			
Sampling Location	Near Anadron Office			
Issued Date	03.09.2022			
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment			
P.O NO	TSSEZL/2022/30002204232			
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	29	°C	
2.	Relative Humidity	68	% RH	
3.	Sulphur Dioxide(SO ₂)	8.1	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	13.9	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	63.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	32.8	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.				
ANALYZED BY		AUTHORIZED SIGNATORY		
				

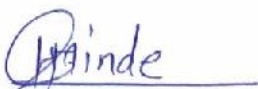


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SPECIAL AIR QUALITY MONITORING TEST REPORT

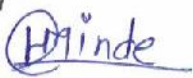
Report No:-	GESEC/PRO/2022-23/08/316			
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.			
Sample Description	Ambient Air Quality			
Sample Drawn Period/Time	Monthly (Special)			
Date of Sampling	25.08.2022			
Sample Drawn by	GESEC			
Sampling Location	Near Main Gate (Chama Khandi)			
Issued Date	03.09.2022			
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment			
P.O NO	TSSEZL/2022/30002204232			
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	30	°C	
2.	Relative Humidity	70	% RH	
3.	Sulphur Dioxide(SO ₂)	8.9	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	15.7	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	64.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	34.7	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	<09	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	<20	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.				
ANALYZED BY		AUTHORIZED SIGNATORY		
				
				

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 ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SURFACEWATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No:- GESEC/PRO/2022-23/08/317					
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		26.08.2022
			Start Date of Analysis		27.08.2022
			End Date of Analysis		31.08.2022
			Sample Details		Surface water (US)
			Nature of sample		Liquid
Sample Collected By			Green EnviroSafe Engineers & Consultant Pvt. Ltd.		
P.O NO			TSSEZL/2022/30002204232		
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	6.9	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	59	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved solids	453	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.8	4 (min)	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 SO ₄	15.9	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.4	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.15	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	0.21	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	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 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	620	5000	MPN/100ml	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.					
ANALYZED BY			AUTHORIZED SIGNATORY		
					
					

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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No:- GESEC/PRO/2022-23/08/318					
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		26.08.2022
			Start Date of Analysis		27.08.2022
			End Date of Analysis		31.08.2022
			Sample Details		Surface water (DS)
			Nature of sample		Liquid
Sample Collected By			Green Envirosafe Engineers & Consultant Pvt. Ltd.		
P.O NO			TSSEZL/2022/30002204232		
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	7.01	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	52	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	403	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.2	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	13.1	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO3	3.2	50	mg/l	APHA 23rd ED 4500-NO3-B: 2017
9	Fluoride as F	0.11	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	0.19	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 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 23rd ED 3500-Cr-B: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23rd ED 3500
21	Total Coliform	390	5000	MPN/100ml	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.					
ANALYZED BY			AUTHORIZED SIGNATORY		
					
					

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:- GESEC/PRO/2022-23/08/319							
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020				Date of Sampling		25.08.2022	
				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/2022/30002204232			
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.08.2022	06.00	55.1	25.08.2022	18.00	67.8	dB(A)	75/70
25.08.2022	07.00	55.9	25.08.2022	19.00	64.9	dB(A)	
25.08.2022	08.00	60.1	25.08.2022	20.00	55.2	dB(A)	
25.08.2022	09.00	66.8	25.08.2022	21.00	51.8	dB(A)	
25.08.2022	10.00	67.1	25.08.2022	22.00	43.9	dB(A)	
25.08.2022	11.00	66.2	25.08.2022	23.00	42.4	dB(A)	
25.08.2022	12.00	63.4	26.08.2022	24.00	39.6	dB(A)	
25.08.2022	13.00	65.8	26.08.2022	01.00	35.1	dB(A)	
25.08.2022	14.00	67.5	26.08.2022	02.00	34.8	dB(A)	
25.08.2022	15.00	55.9	26.08.2022	03.00	33.1	dB(A)	
25.08.2022	16.00	54.2	26.08.2022	04.00	38.9	dB(A)	
25.08.2022	17.00	66.3	26.08.2022	05.00	54.2	dB(A)	
Day Time Leq		60.5					
Night Time Leq		39.3					
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB..(A)							
ANALYZED BY- 							
				AUTHORIZED SIGNATORY 			

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:- GESEC/PRO/2022-23/08/320							
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020				Date of Sampling		25.08.2022	
				Sample Details		Noise For 24 Hours	
				Sample location		Near Anadrone Office	
Sample Collected By				Green Envirosafe Engineers & Consultant Pvt. Ltd.			
P.O NO				TSSEZL/2022/30002204232			
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.08.2022	06.00	68.1	25.08.2022	18.00	68.5	dB(A)	75/70
25.08.2022	07.00	67.5	25.08.2022	19.00	67.2	dB(A)	
25.08.2022	08.00	65.9	25.08.2022	20.00	54.9	dB(A)	
25.08.2022	09.00	68.9	25.08.2022	21.00	57.8	dB(A)	
25.08.2022	10.00	68.2	25.08.2022	22.00	68.1	dB(A)	
25.08.2022	11.00	67.1	25.08.2022	23.00	53.2	dB(A)	
25.08.2022	12.00	65.9	26.08.2022	24.00	46.3	dB(A)	
25.08.2022	13.00	67.5	26.08.2022	01.00	43.5	dB(A)	
25.08.2022	14.00	64.2	26.08.2022	02.00	39.4	dB(A)	
25.08.2022	15.00	61.8	26.08.2022	03.00	35.9	dB(A)	
25.08.2022	16.00	59.1	26.08.2022	04.00	38.4	dB(A)	
25.08.2022	17.00	67.6	26.08.2022	05.00	66.9	dB(A)	
Day Time Leq		65.2					
Night Time Leq		45.1					
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB.(A)							
ANALYZED BY				AUTHORIZED SIGNATORY			
							
							

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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/AAQM/2022-23/09/759
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	Ardra Consulting Services Pvt, Ltd,
Sampling Location	Near TS SEZL Project Office
Issued Date	03.10.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
01.09.2022	62.3	31.8	8.4	13.6	0.4
06.09.2022	59.9	30.1	7.8	13.2	0.4
08.09.2022	55.2	28.7	7.1	12.9	0.3
12.09.2022	51.4	28.2	6.6	11.5	0.3
15.09.2022	49.3	26.9	6.4	11.1	0.3
19.09.2022	48.4	26.6	6.8	11.2	0.3
22.09.2022	58.8	29.3	7.7	13.2	0.3
26.09.2022	61.6	30.1	8.2	14.2	0.4
29.09.2022	57.6	29.1	7.5	13.8	0.3
Avg	56.1	29.0	7.4	12.7	0.3
NAAQ* Standard	100	60	80	80	4
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)

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

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Notes:



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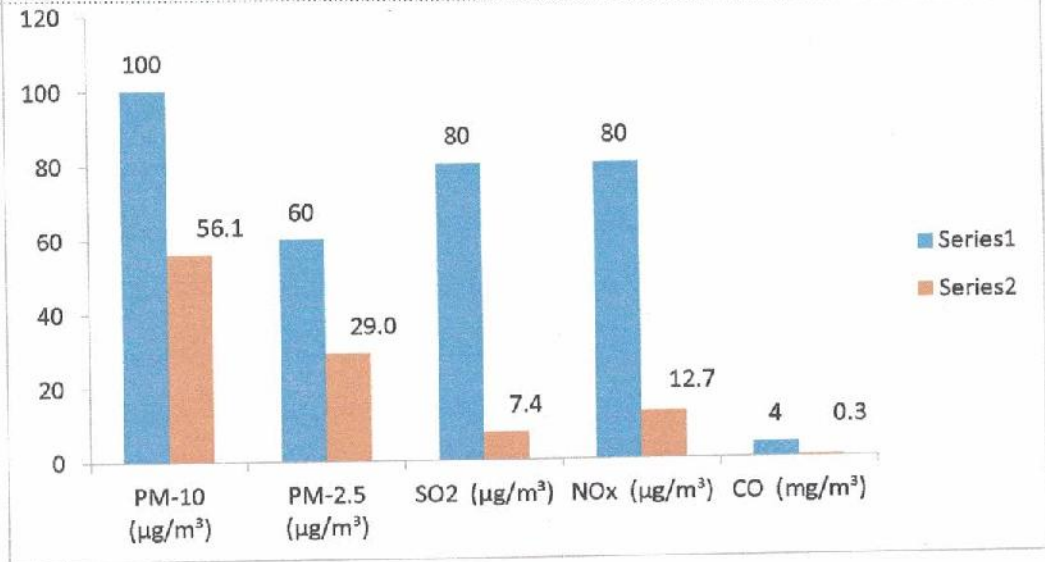
AUTHORIZED SIGNATORY

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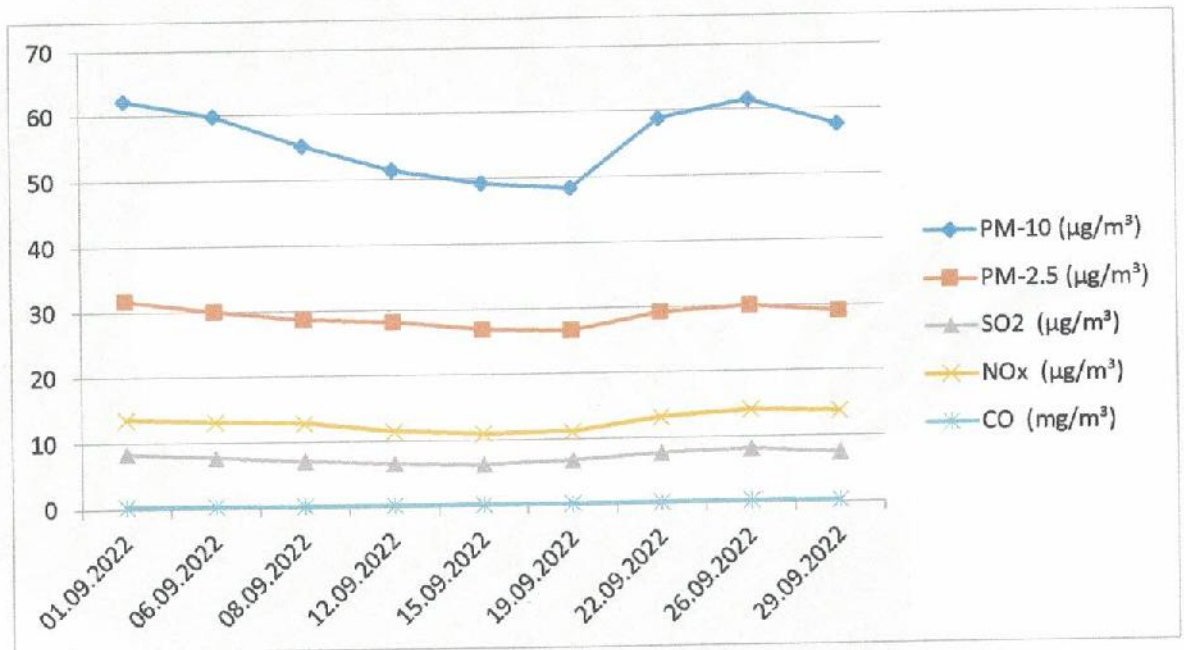
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NB-Series 1-Stands for Standard, Series 2-Stands for Result



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



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AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/AAQM/2022-23/09/760
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	Ardra Consulting Services Pvt, Ltd,
Sampling Location	Near Anadrone Office
Issued Date	03.10.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
01.09.2022	66.8	34.2	8.6	14.3	0.4
06.09.2022	67.3	35.1	8.9	14.8	0.4
08.09.2022	59.8	30.2	8.4	13.8	0.4
12.09.2022	56.7	28.8	7.9	13.2	0.3
15.09.2022	54.2	28.4	7.7	12.8	0.3
19.09.2022	49.4	26.7	6.7	11.3	0.3
22.09.2022	61.2	31.4	8.2	13.9	0.4
26.09.2022	66.4	34.2	8.8	14.6	0.4
29.09.2022	57.5	30.1	7.8	13.1	0.3
Avg	59.9	31.0	8.1	13.5	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.*

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Notes:



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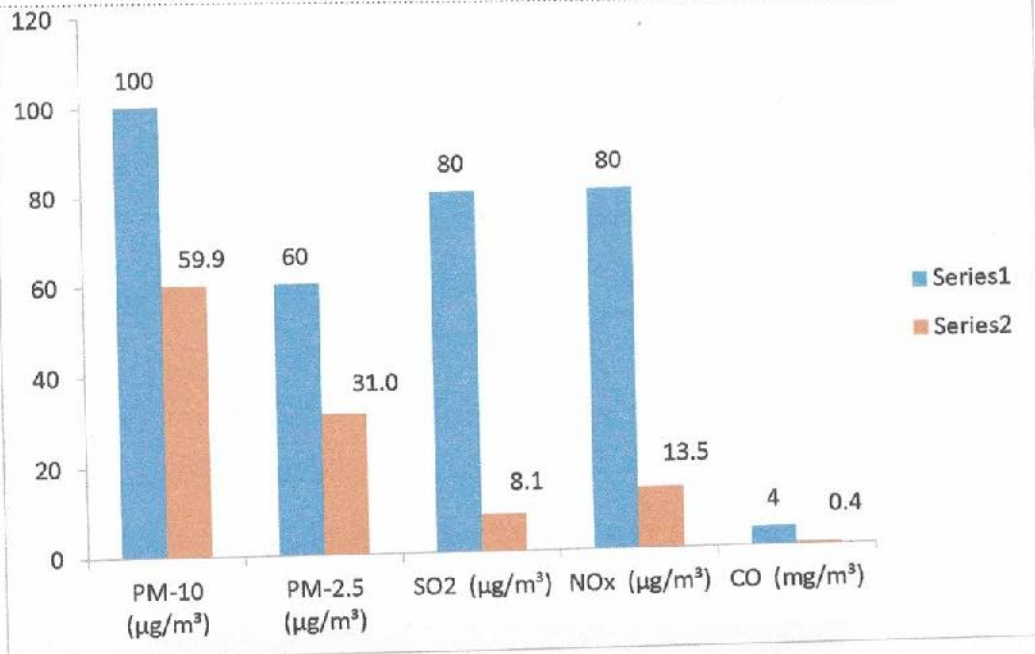
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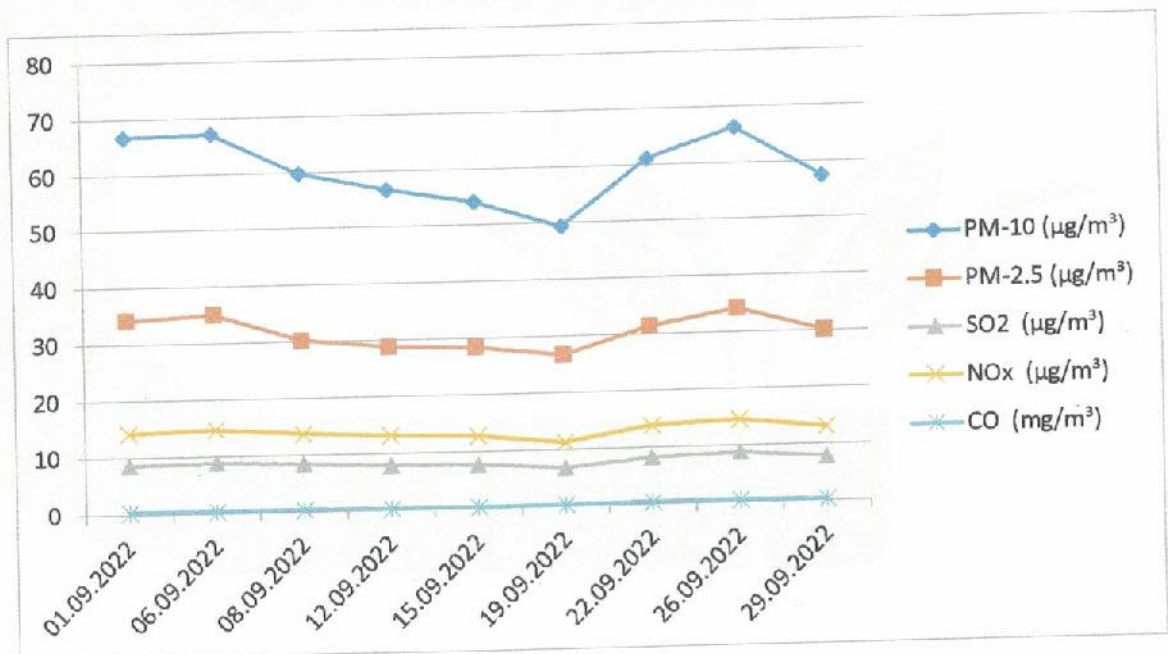
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NB-Series 1-Stands for Standard, Series 2-Stands for Result



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



Terms and conditions

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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company
AMBIENT AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/AAQM/2022-23/09/761
Issued to	M/s. Tata Steel Special Economic Zone Ltd, Gopalpur.
Sample Description	Ambient Air Quality
Sample Drawn Period/Time	Monthly
Sample Drawn by	Ardra Consulting Services Pvt, Ltd,
Sampling Location	Near Main Gate (Chama Khandi)
Issued Date	03.10.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

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)
01.09.2022	68.4	35.1	9.6	6.3	0.4
06.09.2022	67.5	34.8	9.2	16.1	0.4
08.09.2022	59.8	29.9	8.8	14.5	0.4
12.09.2022	57.4	28.4	8.5	13.8	0.3
15.09.2022	54.3	27.1	8.1	13.7	0.3
19.09.2022	51.4	26.8	7.6	12.8	0.3
22.09.2022	63.9	33.8	8.4	15.4	0.4
26.09.2022	67.8	35.3	8.9	16.2	0.4
29.09.2022	58.4	29.7	8.3	13.8	0.4
Avg	61.0	31.2	8.6	14.7	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.

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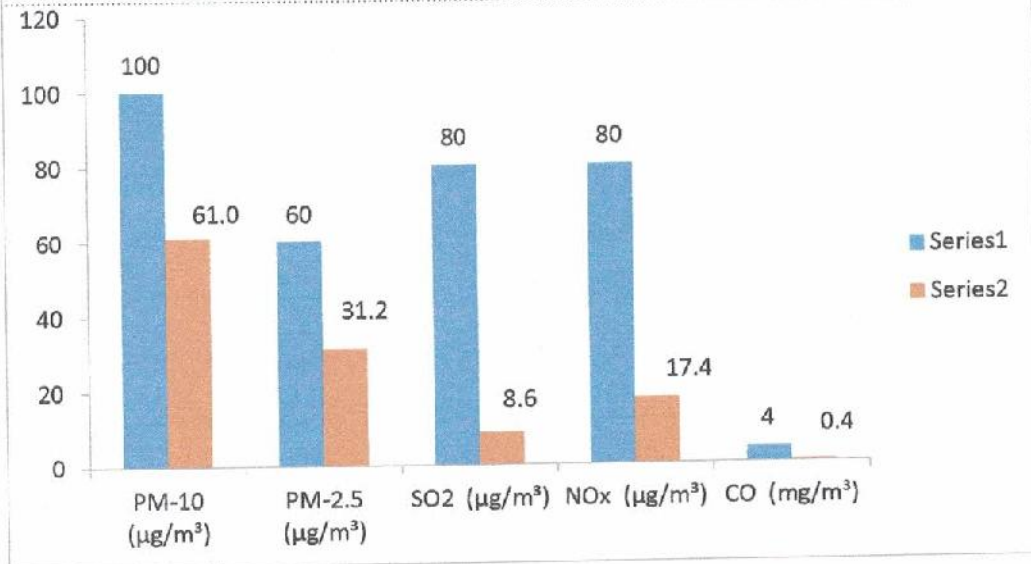
Notes:

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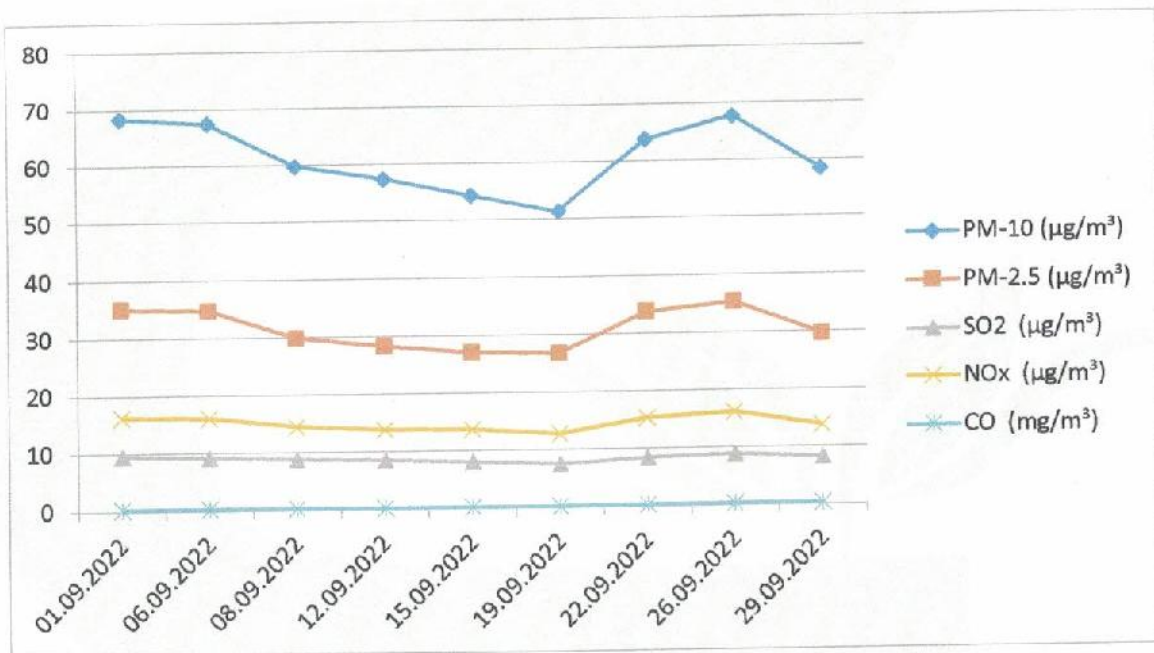
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NB-Series 1—Stands for Standard, Series 2—Stands for Resu



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



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6. MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-	GESEC/PRO/AAQM/2022-23/09/762
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	26.09.2022
Sample Drawn by	Ardra Consulting Services Pvt, Ltd,
Sampling Location	Near TSSEZL Project Office
Issued Date	03.10.2022
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment
P.O NO	TSSEZL/2022/30002204232

Ambient Air Analysis Result

Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Relative Humidity	76	% RH	
3.	Sulphur Dioxide(SO ₂)	8.2	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.2	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	61.6	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	30.1	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)	<17	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.

ANALYZED BY-

[Signature]



AUTHORIZED SIGNATORY

[Signature]

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-		GESEC/PRO/AAQM/2022-23/09/763		
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		26.09.2022		
Sample Drawn by		Ardra Consulting Services Pvt, Ltd,		
Sampling Location		Near Anadrone Office		
Issued Date		03.10.2022		
Instrument Used		Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment		
P.O NO		TSSEZL/2022/30002204232		
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	27	°C	
2.	Relative Humidity	76	% RH	
3.	Sulphur Dioxide(SO ₂)	8.8	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	14.6	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	66.4	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	34.2	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.				
ANALYZED BY-			AUTHORIZED SIGNATORY	
				
				

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SPECIAL AIR QUALITY MONITORING TEST REPORT

Report No:-		GESEC/PRO/AAQM/2022-23/09/764		
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		26.09.2022		
Sample Drawn by		Ardra Consulting Services Pvt, Ltd,		
Sampling Location		Near Main Gate (Chama Khandi)		
Issued Date		03.10.2022		
Instrument Used		Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment		
P.O NO		TSSEZL/2022/30002204232		
Ambient Air Analysis Result				
Sr. No.	Parameter	Result	Unit(s)	NAAQ Standards
1.	Ambient Temperature	28	°C	
2.	Relative Humidity	77	% RH	
3.	Sulphur Dioxide(SO ₂)	8.9	µg/M ³	≤ 80
4.	Oxides of Nitrogen(NO ₂)	16.2	µg/M ³	≤ 80
5.	Particulate Matter PM ₁₀	67.8	µg/M ³	≤ 100
6.	Particulate Matter PM _{2.5}	35.3	µg/M ³	≤ 60
7.	Carbon Monoxide (CO)	0.4	mg/M ³	≤ 04
8.	Ozone(O ₃)	<09	µg/M ³	≤ 180
9.	Lead (Pb)	<0.09	µg/M ³	≤ 1.0
10.	Ammonia(NH ₃)	<20	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.				
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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No			GESEC/PRO/W/2022-23/09/765		
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		27.09.2022
			Start Date of Analysis		28.09.2022
			End Date of Analysis		02.10.2022
			Sample Details		Surface water (US)
			Nature of sample		Liquid
Sample Collected By			Ardra Consulting Services Pvt, Ltd,		
P.O NO			TSSEZL/2022/30002204232		
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	7.32	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	60.4	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	458	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.4	4 (min)	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	15.8	400	mg/l	APHA 23rd ED 4500-SO42-E: 2017
8	Nitrates as NO ₃	3.4	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	0.20	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 asAs	<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	580	5000	MPN/100ml	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.					
ANALYZED BY-			AUTHORIZED SIGNATORY -		
					
					

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SURFACE WATER QUALITY TEST REPORT

TEST CERTIFICATE					
Report No:-		GESEC/PRO/W/2022-23/09/766			
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020		Date of Sampling		27.09.2022	
		Start Date of Analysis		28.09.2022	
		End Date of Analysis		02.10.2022	
		Sample Details		Surface water (DS)	
		Nature of sample		Liquid	
Sample Collected By		Ardra Consulting Services Pvt, Ltd,			
P.O NO		TSSEZL/2022/30002204232			
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	7.20	6.5-8.5	--	APHA 23rd ED 4500- H+B:2014
3	Chlorides as Cl	54.6	600	mg/l	APHA 23rd Ed 4500- Cl-B:2017
4	Total Dissolved Solids	412	1500	mg/l	APHA 23rd ED 2540-C: 2017
5	Dissolved Oxygen	6.2	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	12.6	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	0.10	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 23 rd 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 IB,23rd Ed 2017 (AAS)
16	Arsenic asAs	<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 23 rd ED 3500-Cr-B: 20 17
20	Phenolic Compounds	ND	0.005	mg/l	APHA 23 rd ED 3500
21	Total Coliform	340	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.					
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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:-				GESEC/PRO/NLM/2022-23/09/767			
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020				Date of Sampling		26.09.2022	
				Sample Details		Noise For 24 Hours	
				Sample location		Near TSSEZL Project Office	
Sample Collected By				Ardra Consulting Services Pvt, Ltd,			
P.O NO:				TSSEZL/2022/30002204232			
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.08.2022	06.00	55.3	25.08.2022	18.00	67.2	dB(A)	75/70
25.08.2022	07.00	60.2	25.08.2022	19.00	65.1	dB(A)	
25.08.2022	08.00	65.9	25.08.2022	20.00	55.6	dB(A)	
25.08.2022	09.00	66.9	25.08.2022	21.00	52.4	dB(A)	
25.08.2022	10.00	64.1	25.08.2022	22.00	44.1	dB(A)	
25.08.2022	11.00	65.7	25.08.2022	23.00	41.8	dB(A)	
25.08.2022	12.00	63.2	26.08.2022	24.00	38.5	dB(A)	
25.08.2022	13.00	64.9	26.08.2022	01.00	34.5	dB(A)	
25.08.2022	14.00	67.1	26.08.2022	02.00	33.5	dB(A)	
25.08.2022	15.00	55.8	26.08.2022	03.00	37.8	dB(A)	
25.08.2022	16.00	54.5	26.08.2022	04.00	38.2	dB(A)	
25.08.2022	17.00	66.4	26.08.2022	05.00	53.9	dB(A)	
Day Time Leq		61.9					
Night Time Leq		40.3					
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB..(A)							
ANALYZED BY-				AUTHORIZED SIGNATORY			
							
							

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NOISELEVEL MONITORING REPORT

TEST CERTIFICATE							
Report No:-			GESEC/PRO/NLM/2022-23/09/768				
Client Name and Address: TATA STEEL SPECIAL ECONOMIC ZONE LTD Gopalpur Industrial Park-DTA Chamakhandi, Chhatrapur, Dist-Ganjam Odisha-761020			Date of Sampling		26.09.2022		
			Sample Details		Noise For 24 Hours		
			Sample location		Near Anadrone Office		
Sample Collected By			Ardra Consulting Services Pvt, Ltd,				
P.O NO			TSSEZL/2022/30002204232				
Noise Monitoring Result							
Date	Timing	Result dB(A)	Date	Timing	Result dB(A)	Unit	CPCB Standards dB(A)
25.08.2022	06.00	68.4	25.08.2022	18.00	68.3	dB(A)	75/70
25.08.2022	07.00	67.8	25.08.2022	19.00	66.9	dB(A)	
25.08.2022	08.00	66.1	25.08.2022	20.00	55.2	dB(A)	
25.08.2022	09.00	68.2	25.08.2022	21.00	56.7	dB(A)	
25.08.2022	10.00	69.1	25.08.2022	22.00	68.4	dB(A)	
25.08.2022	11.00	66.8	25.08.2022	23.00	54.2	dB(A)	
25.08.2022	12.00	64.6	26.08.2022	24.00	46.2	dB(A)	
25.08.2022	13.00	66.7	26.08.2022	01.00	44.3	dB(A)	
25.08.2022	14.00	68.1	26.08.2022	02.00	38.6	dB(A)	
25.08.2022	15.00	62.4	26.08.2022	03.00	34.8	dB(A)	
25.08.2022	16.00	58.7	26.08.2022	04.00	35.6	dB(A)	
25.08.2022	17.00	66.5	26.08.2022	05.00	62.8	dB(A)	
Day Time Leq		65.0					
Night Time Leq		48.1					
Remark- ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day/Night -75/70 dB.(A)							
ANALYZED BY- 						AUTHORIZED SIGNATORY 	



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ANNEXURE - II

TATA STEEL FOUNDATION, GOPALPUR		
BUDGET AND EXPENDITURE STATEMENT TILL SEPTEMBER,2022		Fig,in Lakhs
Vertical	BUDGET	Expenses
PUBLIC HEALTH	210.46	3.92
EDUCATION	47.84	23.34
LIVELIHOODS (AGRICULTURE)	226.52	26.71
LIVELIHOODS (Empowerment)	25.89	10.23
LIVELIHOODS (SKILL DEVELOPMENT)	347.90	0.05
SPORTS	27.58	2.25
ENVIRONMENT	70.50	3.33
RURAL INFRASTRUCTURE & URBAN SERVICES	43.76	20.22
DRINKING WATER	58.29	28.29
VOLUNTEERISM	1.00	0.00
SPECIAL COMMITMENTS	100.00	0.00
HR PROJECT COST	185.13	67.93
COMBAT COVID INITIATIVES	3.26	3.26
GRAND TOTAL	1348.12	189.52

MIS-VPCS- Agriculture
Reporting Month-June_22

Departmental Means	KPI	Target FY 22	Plan Till August-22	Actuals till August-22	Plan for September_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRI, maize, millet and pulses	No. of Households covered	66,000	3000 farmers	8340farmers cultivated paddy through SRI method in 2465 ac & Vegetables in 2126ac through 2860farmers & Maize in 400ac through 520farmers.	On farm training on critical inputs application.
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.			258 dairy farmers	56034.4 ltrs of milk purchased and sold to OMFED with income generation of Rs.18,49,135.00 through 259 farmers. Fingerlings/yearlings have been released in 165 ponds of 62 villages in 175 ac of water area with involving 500 farmers.	Cattale health camp in 8 Milk Cooperative Societies.

MIS-VPCS- Agriculture
Reporting Month-June_22

Departmental Means	KPI	Target FY 22	Plan Till July-22	Actuals till July-22	Plan for August_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRI, maize, millet and pulses	No. of Households covered	66,000	2000 farmers	3000 farmers(Rice cultivation through SRI method has been done in 350 ac with involving 800 farmers & Vegetable in 1200ac through 2000farmers & Maize in 200ac through 200farmers)	SRI in 1000ac.
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.			200 dairy farmers	55901ltrs of milk purchased and sold to OMFED with income generation of Rs.17,88,832.00 through 258 farmers.	Release of fingerling/yearlings in 30 ponds.

MIS-VPCS- Agriculture
Reporting Month-June_22

Departmental Means	KPI	Target FY 22	Plan Till June-22	Actuals till June-22	Plan for July_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRL, maize, millet and pulses	No. of Households covered	66,000			
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.					

MIS-VPCS- Agriculture
Reporting Month-May_22

Departmental Means	KPI	Target FY 22	Plan Till May -22	Actuals till May-22	Plan for June_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRL, maize, millet and pulses	No. of Households covered	66,000			Nursery Raising & Base Line survey of new 2500 families
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.			Milk Collection & Harvesting of Fish	*56398.91ltrs of milk have been procured from 254 farmers through 12 Milk cooperative Societies with income generation of Rs.18,04,765.12 only. *Under the promotion of commercial fish cultivation till 30th April,2022 from six village community ponds 64439Kgs of fish harvested and sold @Rs.150/- per Kg. with total income of Rs.96,65,850.00only of 260 farmers.	Harvesting of Fish in community ponds.

MIS-VPCS- Agriculture
Reporting Month-April_ 22

Departmental Means	KPI	Target FY 22	Plan Till April -22	Actuals till April-22	Plan for May_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRI, maize, millet and pulses	No. of Households covered	66,000			Base line survey of new 2500 farmers with crop planning for Kharif season.
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.			Milk Collection & Harvesting of Fish	*52388ltrs of milk have been procured from 253 farmers through 12 Milk cooperative Societies with income generation of Rs. 16,76,416.00 only. *Under the promotion of commercial fish cultivation till 30th April,2022 from six village community ponds 5745Kgs of fish harvested and sold @Rs. 150/- per Kg. with total income of Rs.8.61.750.00only of 40 farmers.	Harvesting of Fish from community ponds.

MIS-VPCS- Agriculture
Reporting Month-June_22

Departmental Means	KPI	Target FY 22	Plan Till September-22	Actuals till September-22	Plan for October_22
2.3.1 Engage with the marginal and excluded farmers for income generation by promotion of various agriculture interventions i.e. SRI, maize, millet and pulses	No. of Households covered	66,000	On farm training on critical inputs application.	11340farmers cultivated paddy through SRI method in 8570 ac & Vegetables in 3326ac through 4860farmers & Maize in 600ac through 720farmers.	On farm training on critical inputs application.
2.3.2 Promotion of Second crop cultivation and orchard development for increased income of the target households					
2.3.3 Engage target households through various agri-allied interventions for generating additional income like Poultry, Dairy, Fishery, Tassar etc.			300 dairy farmers	53303.0 ltrs of milk purchased and sold to OMFED with income generation of Rs.17,58,999.00 through 255 farmers. Fingerlings/yearlings have been released in 175 ponds of 80 villages in 320 ac of water area with involving 500 farmers.	Cattale health camp in 8 Milk Cooperative Societies.



TATA STEEL FOUNDATION
(an Employee Engagement Initiative)

DEPARTMENTAL MONTHLY UPDATES (CSR DIVISION)
MONTHLY STAFF MEETING

Dept. Head Name : Rocky Martin	Month / Year: October, 2022
Department : Gopalpur	Date : 28.10.2022

*** Monthly updates are to be submitted by the end of every month to the HR department.**

The following are the updates of key initiatives undertaken by our department in this month & future plans/initiatives in the upcoming month (additional space/pages may be used as per required):

Key initiatives/activities of this month

1) Livelihood

Observation of World Food day: On October 16, was celebrated as World Food Day to mark the founding of the Food and Agricultural Organization (FAO) of the United Nations.

The main goal for observation of World Food Day was to promote the message that food is a basic and fundamental human right. In line with this objective, the day aims at promoting awareness about food, nutrition, and healthy eating practices and urges people to take action against world hunger and unfair allocation of resources. Also to encourage attention to agricultural food production and to stimulate national, bilateral, multilateral with participation of rural people, particularly women and the least privileged categories, in decisions and activities influencing their living conditions.

With theme of this year "**Leave NO ONE Behind**" we observed this day with our farming community at **Burupada, Hinjilicut** by volunteerism in harvesting of their produces followed with discussion of their importance on the day we observed.



TATA STEEL FOUNDATION (an Employee Engagement Initiative)



2. On farm Training –Mushroom Cultivation

Training cum demonstration on commercial mushroom cultivation was held at Banabulapalli village of Chamakhundi Panchayat for 50 farmers on 21st October, 2022. In the training program senior Scientist from "Krishi Vigyan Kendra"(KVK) address farmers about the profitability and marketing scope of Mushroom cultivation and its value addition products. Also farmers raised issues and challenges like pest management, up scaling followed by demonstration for raising beds.





TATA STEEL FOUNDATION **(an Employee Engagement Initiative)**

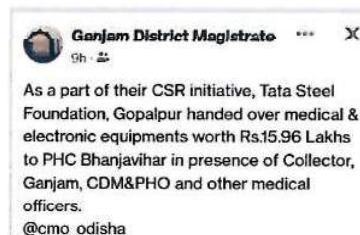
3) Tata Electronics Placement Drive

On 15th October, 22 successfully conducted the preliminary written test for 86 girl students out of 100 selected at JNTTEC, Gopalpur for the placement drive in Tata Electronics Ltd, Husur, Tamilnadu as Junior technician for the periphery villages. The objective of the initiatives is to provide better carrier opportunity to the girl students of rural.



4) Health

Handing over of Medical Equipment & Electronics materials: Towards strengthening the primary health centers and meeting the National Quality Assurance standard of GOI, TSF supported with requisite medical equipments, electronic materials and peripheral development of the Bhanjabihar PHC in presence of Collector & district Magistrate Ganjam on 15th October, 2022.





TATA STEEL FOUNDATION **(an Employee Engagement Initiative)**

5) International day of Girl Child

Under Rishta project, observed international day of Girl child on 11.10.2022 at Sri Ramchandarpur & Kalipalli and aware the girls on Child rights (rights to live, survive, education, health, speech,) their Physical change gender equality, child labour, . Early age of marriage and net and clean, child trafficking, with presence of school teachers. The main objective of this program is to raise voice on importance of girl child.



Future plans/initiatives in the upcoming month(s)

- 1) District level workshop on Disaster preparedness & mitigation

Remarks (if any): _____

Rockey Martin
Signature of Dept. Head

Observation of NO Tobacco day 2022

Tata Steel Foundation , Gopalpur has observed No Tobacco day on 31.05.2022 at different Places Arjyapalli, Narendrapur, Sri Ramchandrapur, Sitallapalli villages of our operational zone. Adolescents, Parents. Students & labors were aware regarding harmful effects of tobacco. Many diseases Causes due to use of tobacco like any form like chewing of betel, Nut,& smoking Cigarette. The Nicotine present in Tobacco causes addition on tobacco. The chewing of betel can because ulcer in mouth that can leads to oral cancer & smoking of Cigarette, cause cardiovascular disease lung disease & cancer. The smoke of Cigarette not only harms to active smoker but also harm to people present near surrounding. Total nos of participants were 68.



Celebration of International Yoga day

Theme: "Yoga for humanity "

Tata Steel Foundation, Gopalpur has celebrated 8 Th International day of yoga with the theme "Yoga for Humanity. " Samaranch of Chamakhandi panchayat Mr. Manoj Reddy & Tahasildar chatrapur, Sarapanch SriRam Chandrapur Mr. Saroj Reddy & village president Mr. Kesab Behera, VDC members were attend the program.

The youths & villagers from operational area trained by team of Patanjali Yoga Samiti by different Poses of yoga like Surya Namaskar. Anulambilam, Kapalbharti, Bajaraasana, etc. with explaining the benefits of Yoga like improve posture, increase flexibility, builds muscle strength, Boosts metabolism, control blood sugar, increases blood flow, keep diseases at bay ,improve lung function , helps sleep better, . The PRI members appreciated the program. The total no of participates were 78.



Celebration of Breast Feeding week 2022

Theme: Step up for Breast feeding

TSF Gopalpur has celebrated world Breast feeding week on 4.08.2022 at Kalipalli under Chatrapur block in presence of Pregnant women, lactating mothers, AWW, ANM. Local vdc members & Sarapancha Smt B. Lakshmi Patro. Mr. Narasingha Sahu (Pharmacist) focused on ensure of Breast feeding minimum of six month to two Year & more, mother's milk contains all vitamins & minerals which is required for growth of baby. The Colostrum present in milk acts as antibody. Increases immunity power which prevent baby from many diseases like Cold, Flu, Gastroenteritis, Whooping cough, Pneumonia etc.

Breast feeding is benefit for both mother & baby. It act as natural contraceptive, prevent mother from Breast & Ovarian cancer, Arthritis, Prevent from obesity. The PRI members appreciated the program. Total no's of Participants were 95.



Observation of International Youth day

Theme –“ Intergenerational solidarity ; Creating a World for All Ages “

International youth day has celebrated on 12.08.2022 in project affected villages like Sindhigaon , Jagannathpur, P. laxmipur, Chamakhandi . Youths are back bone of the country. The Program held with slogan & drawing competitions among them on Youthday. Youth were share their thoughts to engage themselves in the development of village, Prevention of child marriage, discrimination of gender. Total no's of participants were 41.



Mandiapalli, Odisha, India
BVCJ+MJX, Mandiapalli, Odisha 760007, India
Lat 19.321763°
Long 84.684281°

Sathiya training 2022

Tata Steel Foundation Gopalpur has organized 3 days non residential Sathiya training from 24.8.22 to 26.8.22 at community hall of Sri Ram chandarpur Panchyat office. The adolescents joined from operational villages like Taganapalli, Tatacolony, Badaputti, Kaliaballi, B. Paikapada, Sitanager, A.Totapalli .First day conducted Pre test& trained on stages of life, changes in adolescents , (ARSH) adolescents reproductive sexual health, With drawing completion. On second day Menstruation cycle & to maintain of hygienic, game, with question answer session, nutrition, On third day Gender & sex equality , harmful effects of child marriage, impact of social media & Post test on 15 interventions of Rishta . The adolescents were informed to adopt a peer leader approach to be the part of improvement of the society.

Total no of participants @ 29.



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Handing Over of Medical Equipment's and Electronic Materials

PHC Bhanjabihar

Tata Steel Foundation Gopalpur has handed over the requisite to PHC Bhanjabihar on 15.10.2022 in the graceful presence of District collector and magistrate Ganjam, Tahsildar, Kanishi . The equipments like medical and surgical instruments, Electronics instruments Like water filter with cooler, AC, LCD, TV, HDU bed , crash cart trolley ,modular dressing table etc. for providing better treatment of the patients.



International day of Girl Child

Tata Steel Foundation Gopalpur celebrate international day of Girl child on 11.10.2022 at Sri Ramchandarpur & Kalipalli . Discussed on Child rights (rights to live, survive, education, health, speech,) their Physical change gender equality, child labour, . Early age of marriage and net and clean, child trafficking, with presence of school teachers. The main objective of this program is to raise voice on importance of girl child. The school staff appreciated this program. Total no's of participants are 60.



Meeting on Village level Child protection committee (Patropur)

Tata steel foundation Gopalpur has organized village level child Protection committee meeting at Patropur village of luhajhara panchyat on Date 20.10.2022. The meeting was held under chairmanship of P. kamala Reddy (Sarapancha), Mr L. Kesaba Patro (VDC) .Discussion was taken on how can eradicate child marriage,child labour, Child Right, child trafficking, punishments & penalty regarding violence of Child act. The committee members took oath on protection of child & no to child marriage. Total no of participates were 15.



Handing Over of Medical Equipment's and Electronic Materials

PHC Bhanjabihar

Tata Steel Foundation Gopalpur has handed over the requisite to PHC Bhanjabihar on 15.10.2022 in the graceful presence of District collector and magistrate Ganjam, Tahsildar, Kanishi . The equipments like medical and surgical instruments, Electronics instruments Like water filter with cooler, AC, LCD, TV, HDU bed , crash cart trolley ,modular dressing table etc. for providing better treatment of the patients.



International Placement:

Students Name	District	Working Location	Salary in Rupees
Kedarnatha Patra	Ganjam	Croatia	Rs.75,000
Somanatha Rana	Ganjam	Washington DC	Rs.55,000
Betal Siva	Ganjam	Washington DC	Rs.45,000
Srikanta Sahu	Ganjam	Oman	Rs.52,000
Aswini Kumar Dang	Balangir	Oman	Rs.57,000
Vishal Kumar Nayak	Jajpur	Dubai	Rs.65,000
Bishnuprasad Sapkota	Ganjam	Qutar	Rs.72,000
Shibasankar	Ganjam	Russia	Rs.48,000
Md. Shahbaz Allam	Sambalpur	Dubai	Rs.58,000
Ramesh Maddy	Puri	Wasington DC	Rs.52,000

- The students are basically placed in Food Production Department.
- They are basically in five star hotel in that location.
- Another 10 students are in the que for abroad placement.

Training Photos:



F&BService	2	Nilesh Pradhan	Dhinkisala		
F&BService	2	Surabhi Naik	Nuagaon		
F&BService	2	Sujata Kumari Satapathy	Padmanabhapur		
F&BService	2	Reshma Sadangi	Kumarpani		
F&BService	2	Barsharani Dash	Bandhaguda		
F&BService	2	Puja Gouda	Gambariguda		
F&BService	2	Srikanta Gouda	Sumantapur		
F&BService	2	Suman Patro	Jalameripalli		
F&BService	2	Maithiu Raita	Burupada		
F&BService	2	Shantanu Kumar Behera	Badaputi		
MOFA	5	Binayak Sethi	Thruburai		
MOFA	5	Santoshini Martha	Merikote		
MOFA	5	Sita Nayak	Jokia		
MOFA	5	Basista Kumar Naik	Jalli		
MOFA	5	Kanhu Charana Patra	Narayanpur		
MOFA	5	Sipunu Pradhan	S Gopalpur		
MOFA	5	Suraja Pradhan	S Gopalpur		
MOFA	5	Rachana Muni	Khamara		
MOFA	5	Madhusmita Swain	Mahupadar		
MOFA	5	S Pradipa Reddy	Ramakrushnpur		
MOFA	5	Santoshini Bisoyi	Osta		
MOFA	5	Sulallita Patra	Padmapur		
MOFA	5	Renubala Patra	Padmapur		
MOFA	5	Barsarani Dora	Padmapur		
MOFA	5	Arupa Dora	Padmapur		
MOFA	5	Swayamprabha Patra	Padmapur		
MOFA	5	Narayan Patra	Padmapur		
MOFA	5	Babul Kumar Dora	Padmapur		
MOFA	5	Sumitra Kumari Dora	Padmapur		

MOFA	5	Mamali Das	Takarada		
MOFA	5	Deepika Mallik	Bodalundi		
MOFA	5	Sankar Gouda	Kankarada		
MOFA	5	Narayan Das	Kankarada		
MOFA	5	Sunil Kumar Naik	Dhaupada		
MOFA	5	Achuta Naik	Harapriyapur		
MOFA	5	Laxmi Mallik	Abhayapur		
MOFA	5	Santoshi Naik	Harapriyapur		
MOFA	5	Subhasmita Sethi	Badakorakar		

- There are 130 students placed in different properties in India.
- The average Inhand salary of the students was Rs.7000.
- Some students are also self-placed.
- Maximum students placed in the south region as per their interest.

Maximum students placed property this Financial Year:

Property Name	Location	Average Salary
Murghvani Resorts	Hi-tech city	Rs.7000
Hotel Mid City	Vijayawada	Rs.7000
Best Western	Visakhapatnam	Rs.7000
The Mantris	Vizag	Rs.7000
Annapurna D Royal	Guntur	Rs.7000
Hotel Alishan	Balangir,Odisha	Rs.7000

Food Production		Basudev Bhuyan	Tirida	Ice & Pizza Café,Berhampur	8500
Food Production	1	Swapaneswar Bhuyan	Benkuda	Ice & Pizza Café,Bam	8500
F&B Services	1	Durgaprasad Sethi	Sidhapur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Kanhucharan Behera	Sidhapur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Narayana Panda	Sidhapur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Raju Naik	Sidhapur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Bhabani Sethi	Dengapadar	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Sagar Sahu	Bikrampur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Bansidhar Gouda	Patharpunji	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	Bijaya Sahu	Patapur	Annapurna D Royal, Guntur,AP	8500
F&B Services	1	P Bideshi Reddy	Mahanala	The Capital,Guntur	8000
F&B Services	1	Narayan Behera	Kodala	The Capital,Guntur	8000
F&B Services	1	Javili Italari	Newgolabandha	The Capital,Guntur	8000
F&B Services	1	Pitambar Choudhury	Sheragada	The Capital,Guntur	8000
F&B Services	1	Panchanan Nayak	Nua Jali	The Capital,Guntur	8000
F&B Services	1	Meghanada Bisoyi	Hadichira	The Capital,Guntur	8000
F&B Services	1	Ranjan Naik	Goudagotha	The Capital,Guntur	8000
F&B Services	1	Papun Mahakur	Balangir	The Capital,Guntur	8000
F&B Services	1	Trilochan Das	Sheragada	The Capital,Guntur	8000
MOFA	4	Mangala Dakua	Dhabalapur	Murgvani Resorts,Hyderbad	7000
MOFA	4	Madhumita Sahu	Kumarpani	Ice & Pizza Café,Berhampur	7000
MOFA	4	Etishree Mohanty	Gambhariguda	Ice & Pizza Café,Berhampur	
MOFA	4	Sikha Jena	Gambhariguda	Ice & Pizza Café,Berhampur	7000
MOFA	4	Subhendu Sekhar Mohanty	Gambhariguda	Self Placed	
MOFA	4	Nirakara Gouda	Patharapunji	Best Western ,Vizag	7000
MOFA	4	Lipu Bisoi	Patapur	Best Western ,Vizag	7000
MOFA	4	Tilu Behera	Chikili	Biswal Super Store,Ganjam	6000
MOFA	4	Jitendra Pradhan	Borada	The Mantris,Vizag	7000

MOFA	4	Maheswar Dalai	Jali	The Mantris,Vizag	7000
MOFA	4	Gobinda Naik	Chintakhali	The Mantris,Vizag	7000
MOFA	4	Sambit Maharana	Kanheipur	Best Western ,Vizag	7000
MOFA	4	K.Srinath	Badakainchapur	Murgvani Resorts,Hyderbad	7000
MOFA	4	Rasmita Mahapatra	Malitotasahi	Ice & Pizza Café,Berhampur	7000
MOFA	4	Javili Appa Rao	Newgolabandha	Murgvani Resorts,Hyderbad	7000
MOFA	4	Dillip Kumar Pattnayak	Sheragada	Murgvani Resorts,Hyderbad	6000
MOFA	4	Bhagyalata Pattanayak	Sheragada	Murgvani Resorts,Hyderbad	6000
MOFA	4	Shankara Badatya	Sidhapur	Best Western,Vizag	7000
MOFA	4	Amit Kumar Sahu	Patapur	Biswal Super Store	6000
MOFA	4	Sibasankar Gouda	Dhabalapur	Best Western	7000
F&BService	2	Lokesh Mandal	Batakhala		
F&BService	2	Dipak Badatya	Kankarada		
F&BService	2	Rajesh Majhi	Boroda		
F&BService	2	Kamalabati Sabar	Laxmipur		
F&BService	2	Nilabati Mandal	Banyanagar		
F&BService	2	Mangulu Sethi	Sheragada		
F&BService	2	Suresh Sahu	Gangapur		
F&BService	2	S.Pawan Kumar	Newgolabandha		
F&BService	2	Balaram Pradhan	S Gopalpur		
F&BService	2	Kunjabihari Sethi	Lathipada		
F&BService	2	Bikash Pradhan	S Gopalpur		
F&BService	2	Omm Barada	S Gopalpur		
F&BService	2	Akash Prusty	S Gopalpur		
F&BService	2	S.Simanchal	Hatipada		
F&BService	2	Barsharani Purohit	Palaspur		
F&BService	2	Sibaram Pradhan	Dhinkisala		
F&BService	2	Raja Swain	Dhinkisala		

Beneficiary Details:

Course	Batch	Students Name	Village Name	Property & Location	Salary
MOFA	3	Raja Rauta	Pratapgiri	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Subham Panigrahy	Pratapgiri	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Rajesh Panigrahy	Pratapgiri	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Surendra Nayak	Pratapgiri	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Sibasankar Badatya	Padmapur	Hotel Murhavani Resort Hyderabad	
MOFA	3	D Kanha Patra	Padmapur	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Mithun Gouda	Balighai	Hotel Murhavani Resort Hyderabad	7000
MOFA	3	Pabitraramohan Badatya	Padmapur	Alishan Hotel , Balangir	7000
MOFA	3	Mangala Dakua	Dhabalapur	Alishan Hotel , Balangir	7000
MOFA	3	Surukala Gopal Rao	Golabandha	Alishan Hotel , Balangir	7000
MOFA	3	Jali Kumari Swain	Benipolli	Alishan Hotel , Balangir	7000
MOFA	3	Resamarani Swain	Benipolli	Alishan Hotel , Balangir	7000
MOFA	3	Mangulu Sia	Thrubuarai	Alishan Hotel , Balangir	7000
MOFA	3	Himansu Gouda	Thrubuarai	Alishan Hotel , Balangir	7000
MOFA	3	Mohit Harijan	Umerkote	Alishan Hotel , Balangir	7000
Food Production	1	Bishnu Prasad Tripathy	Kotapalla	Ginger,Jajpur	6000
Food Production	1	Deepak Kumar Sahoo	Kotapalla	Ginger,Jajpur	6000
Food Production	1	Purnachandra Swain	Badagada	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Rajesh Pradhan	Bhusunda	Desi Food,Ganjam	8500
Food Production	1	Rudraprasad Mahanty	Mahanala	Minerva Grand, Vijayawada	8500
Food Production	1	Nirvair Singh	Kaleghanpur	Minerva Grand, Vijayawada	8500
Food Production	1	Manjider Singh	Kaleghanpur	Minerva Grand, Vijayawada	8500
Food Production	1	Papu Lal	V.laxmipura	Minerva Grand, Vijayawada	8500

Food Production	1	Mitu Khuntia	Hinjilicut	Desi Food,Ganjam	8500
Food Production	1	Jayaprakash Nayak	P.jagannathpur	Desi Food,Ganjam	8500
Food Production	1	Kaushal Kalta	Bangabahal	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Papun Mahakur	Bangabahal	Hotel Moonlight,Ganjam	8500
Food Production	1	Sanyog Kumar Pandey	Mahipur	Hotel ,Moonlight,Ganjam	8500
Food Production	1	Anuar Mallik	Basudevpur	Minerva Grand, Vijayawada	8500
Food Production	1	Saroj Kumar	Jarauwa	Minerva Grand, Vijayawada	8500
Food Production	1	Sagar Bhuyan	Haridakhandi	Minerva Grand, Vijayawada	8500
Food Production	1	Arabinda Behera	Balipada	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Dinesh Kumar Lenka	Berhampur	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Pabitra Mandal	Tantigeria	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Neeraj Tomar	Agra	Annapurna D Royal, Guntur,AP	8500
Food Production	1	Suraj Kumar Panigrahy	Gangapur	Jyoti Residency,Berhampur	8500
Food Production	1	Pabitra Bishoyi	Hadichira	Minerva Grand, Vijayawada	8500
Food Production	1	Samaya Kumar Pattanayak	Bandhasahi	Golden Palm, Patna,Bihar	8500
Food Production	1	Arabinda Tripathy	Ostapur	Golden Palm, Patna,Bihar	8500
Food Production	1	Sankar Pradhan	Patapur	Golden Palm, Patna,Bihar	8500
Food Production	1	D.Ghanashyama Patra	Phasidi	Ice & Pizza Café,Berhampur	8500
Food Production	1	Basanta Bhuyan	Tirida	Ice & Pizza Café,Berhampur	8500
Food Production	1	Likun Barad	Erendra	Ice & Pizza Café,Bam	8500

Introduction:

PACE Skill Training Center is situated near the block office, Sheragada in the Ganjam district. Since 2014 center running its batches with the support of TATA Steel foundation in residential mode.

- In this financial year, we have completed Five batches and two batches in running mode
- Per Month target is 30
- Total Hostel Capacity was 60 students
- There are three courses running at this time, which was
 - *Food Production*
 - *F&B Services*
 - *Multifunctional Office Associate*
- The placement has the main focus point of our center. In every batch all students are placed within 5 days of batch completion.
- Currently, there are 16 students who have been working in abroad.
- In this financial year, 190 students enrolled in different courses.
- Our Yearly target is 250

Batch Details:

Course Name	Start Date	End Date	Enrolled	Completed
Multifunctional Office Associate	15/04/2022	28/06/2022	26	26
Multifunctional Office Associate	16/5/2022	5/08/2022	32	15
Food Production	1/06/2022	17/07/2022	30	30
F&B Services	5/7/2022	5/09/2022	17	17
Multifunctional Office Associate	1/08/2022	13/10/2022	30	22
F&B Services	10/9/2022	24/11/2022	27	Continue
Multifunctional Office Associate	5/10/2022	11/12/2022	28	Continue

- There are **5 batches** completed and **2 batches** are ongoing now.
- We have enrolled **190** students so far.
- **132 students** successfully completed their training 190 and the rest of them are continuing their training.
- The batch duration of all batches was 65 Days

TRAINING REPORT

NAME OF THE CENTER : PACE SKILL TRAINING CENTER

LOCATION : SHERAGADA, GANJAM

DATES : FROM APRIL 2022 TO OCTOBER 2022

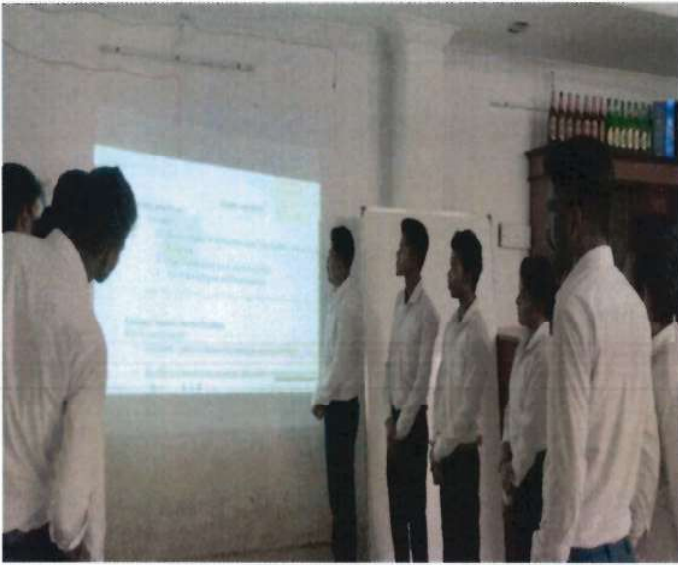


PACE SHERAGADA
PRATHAM EDUCATION FOUNDATION
Supported By: TATA STEEL FOUNDATION

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1. Introduction
2. Batch Details
3. Beneficiary Details
4. Placement Details
5. International Placement Details
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- 7. Placement Photos**
- 8. Achievement Photos**





Working In Property:



Achievement Photos:

Best Mobilizer Award



Best Center Award