

Ref. No. FAMD/FAPJ/ 399 /FY22

Date : 30.11.2021

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

Sub: Submission of six monthly compliance report on implementation of environmental safe guards of Ferro Alloys Plant, Joda for the period from Apr-2021 to Sept-2021.

Ref. Ministry of Environment & Forests Letter No.J-11011/03/2012-1A.II (I) Dated 5th November, 2015. and Email from MoEFCC Eastern Regional Office Dated 28.05.2020 with File No: 106-12/EPE Dated 11.05.2020

Dear Sir,

As per EIA Notification, we are herewith submitting six monthly compliance report in respect of stipulated environmental clearance condition of Ferro Alloy Plant, Joda for the period from Apr-2021 to Sept-2021.

We are also sending you softcopy of the report to your good office on Email: roez.bsr-mefi@nic.in for your kind perusal.

We trust that measures taken towards environmental safe guards comply with the stipulated environmental clearance condition. We look forward to your further guidance which shall certainly help us in our endeavour for further improve upon our Environmental Management Practices.

Thanking You

Your's Faithfully For: TATA STEEL LTD.

Head

Ferro Manganese Plant

Encl: Six Monthly Compliance Report (with Annexures) for Oct-2020 to March-2021 Copy to MoEF, New Delhi

- " " CPCB, Zonal Office Kolkata
- " "OSPCB, Bhubaneswar
- " "Regional Office, Keonjhar

TATA STEEL LIMITED

Half - Yearly Compliance Report

On

Name of the Project: Ferro Alloys Plant, M/s TATA STEEL LIMITED

Environmental Clearance Conditions

(MoEF Letter No. J-11011/03/2012-IA. II (I) Dated 5th November 2015)

Period: April'2021 – September'2021

Submitted By:

Ferro Alloys Plant, M/s TATA STEEL LIMITED

At/Po – Joda, District – Keonjhar, Odisha - 758034

A. SPECIFIC CONDITION:

Sl. No.	Specific Condition	Compliance Status (Apr'21 to Sept'2021)
I	The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.	Complied. Presently four nos. ambient air monitoring stations have been installed for manually monitoring air emission and the reports are submitted on monthly basis to SPCB, Odisha. Monitoring results for last six months i.e. Apr'21 to Sept'2021 is enclosed as Annexure-I.
Π	Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz, Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm3 and installing energy efficient technology.	Complied. There are four nos. of stacks in existing plant and all having adequate height and diameter. Online stack monitoring system installation has been completed. At present four nos. of Gas cleaning plants are operational among two of them are in operation and two are kept for stand-by to ensure emission level within the norms prescribed by CPCB. Same facility will be provided to forthcoming project. Stack Monitoring results for last six months i.e Apr'21 to Sept'2021 is enclosed as Annexure-II.
III	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Complied. Existing plant emissions are within the specified limit prescribed by national ambient air quality emission standards; also, the same will be followed commissioning of forthcoming Plant. Ambient Air quality Monitoring results for last six months i.e. Apr'21 to Sept'2021 is enclosed as Annexure-I.
IV	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414 (E) dated 30th May, 2008 should be followed.	Complied. Existing plant emission level is within the permissible limit. Guidelines/codes of practice issued by CPCB are
V	Water sprinkling arrangements as well as dry fog system to control fugitive emission shall be undertaken.	Complied. For dry fogging one Mobile water sprinkler cum mist canon is in operation. 2 Nos. of mobile Water sprinkling system was installed & 24 road sprinkler provided for existing plant same will be installed after project execution. We have replaced the existing 3x3 MVA furnace transformer with 3x4 MVA transformer. Page 3 of 42

		[Photographs enclosed as Annexure III]
Sl.	Specific Condition	Compliance Status (Apr'21 to Sept'2021)
No.		r i i i i i i i i i i i i i i i i i i i
VI	Tap hole emissions shall be taken to GCP system by providing proper hood and suction system.	Complied. Two nos. of Fume extraction system are in place for existing plant and same system will be provided to forthcoming project. We have replaced the existing 3x3 MVA furnace transformer with 3x4 MVA transformer. [Photographs enclosed as Annexure IV]
VII	Efforts should further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Use of air-cooled condensers shall be explored and closed-circuit cooling system should be provided to reduce water consumption and water requirement shall be modified accordingly.	Being Complied. Rain water harvesting measures shall be implemented as required under the NOC from the Central Ground Water Authority wherein inputs from Regional Director, Central Ground Water Board have been incorporated. Presently, a fully functional roof top rain water harvesting project at the Administrative office in is in working stage. For Existing Plant, close circuit cooling system is in operation & same will be followed for forthcoming plant. We have replaced the existing 3x3 MVA furnace transformer with 3x4 MVA transformer. [Refer Annexure III]
VIII	All the effluent should be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged, and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by the soak pit.	[Photograph is included in Annexure V]
IX	Regular monitoring of surface, sub-surface and ground water should be ensured and treated waste water should meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPEB	Being Complied. Monitoring of ground water and surface water is being carried out on regular basis. Leachate study for effluent generated will be carried out soon. [Details of monitoring results are given as Annexure VI]
X	and CPCB. Slag produced in Ferro Manganese (Fe-	Complied.

Page **4** of **41**

	monufacture of Cilics Manager (C' MA	Class and drand from existing E-Manufacture and (1)			
	manufacture of Silico Manganese (Si-Mn). All the other Ferro alloy slag should be used	Slag produced from existing FeMn plant are, partly used in the process as a raw material for FeMn production			
	in the preparation of building materials.	and rest are sold to the Ferro Alloys Industry.			
Sl.	Specific Condition	Compliance Status (Apr'21 to Sept'2021)			
No.	Specific Condition	Comphance Status (Apr 21 to Sept 2021)			
XI	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. Risk and disaster management plan along with the mitigation measures was submitted vide a. Letter no. FAPJ/4249/2016, dated. 01.02.2016 to the central Pollution control board, New Delhi, b. Letter no. FAP(J)/4250/2016, dated. 01.02.2016, to the Ministry of Environment & Forest, Eastern Regional Office, Bhubaneswar c. Letter no. FAP(J)/4251/2016, dated. 01.02.2016 to State Pollution Control Board, Bhubaneswar. [Copy of the letter is enclosed as Annexure-VII].			
XII	Green belt shall be developed in 33% of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	f Complied. 1 Plantation programme is regularly done. Plant specie			
XIII	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	neBeing Followed.orAll the recommendations made in the Charter on			
XIV	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Chennai. Implementation of such program shall be ensured accordingly in a time bound manner.	Complied. CSR is done by TSRDS wing of TATA Steel. The details of expenditure towards CSR activity done along with details are given in Annexure XI.			
XV	Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Complied. It has been complied. There are no labour camps within the Site. However, employees are provided with all necessary infrastructure and facilities such as fuel for cooking mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc outside the plant premises.			

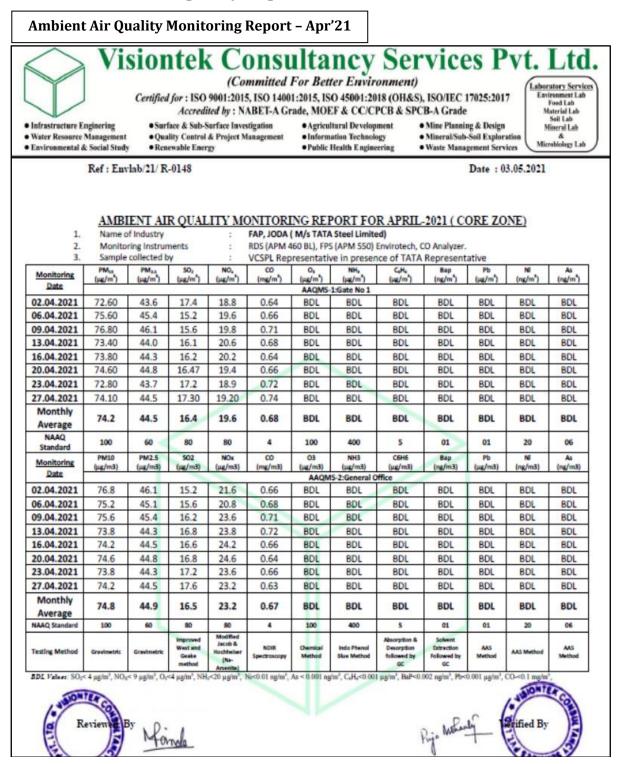
Sl. No.	Specific Condition	Compliance Status (Apr'21 to Sept'2021)
Ι	The project authorities must strictly adhere to the stipulations made by the Odisha Pollution Control Board and the State Government.	Complied. All the stipulations made by the Odisha Pollution Control Board and the State Government are strictly followed for existing facility.
II	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).	Complied. No expansion or modifications in the plant is carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC). As per EC,We have replaced the existing 3x3 MVA furnace transformer with 3x4 MVA transformer for augmentation of one furnace.
III	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Complied. At present four ambient air quality monitoring stations are installed at the downward direction in consultation with the SPCB. Ambient air quality report and stack emission reports are submitted monthly to Ministry including its Regional Office at Bhubaneswar and SPCB, Bhubaneswar. [Monitoring results for last six months i.e. Apr'21 to Sept'2021 is enclosed as Annexure-I]
IV	Industrial waste water shall be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Complied. It has been followed. Treated waste water is utilised for plantation/gardening purpose.
V	Overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	Complied. It has been strictly adhered. Acoustic enclosures are provided for DG sets. [Monitoring results for last six months i.e. Apr'21 to Sept'2021 is enclosed as Annexure-VIII.]

VI	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Complied. Periodic medical check-ups were conducted yearly. Last medical check-up was done on Nov-Dec 2020 and 518 nos. of employees are examined including contractual employees. For this year the Periodic medical check-up is in-continuation. Records were maintained as per Orissa factory rule. [Record is enclosed as Annexure IX] Being Complied. Construction of Roof Rain water harvesting system is in				
	harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	progress. First Phase of construction has been completed and rest is in progress.				
		S. Facility Description Total (Area in Acres) Catchment type Runoff Coefficient				
		1. Admin & other buildings 0.500 2. Raw Material Storage 7.533 3. Product Storage 0.230 catchment Total				
		4 Road & drainage 1.482 Roads and pavements 5. Truck Parking Area 0.33 Open area 0.75				
		6. Green Belt 15.6 Green area 0.7				
VIII	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake social- economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Complied. Complied to environmental protection measures and safeguards recommended in the EIA/EMP report. Social-economic development activities in the surrounding villages were carried out with Tata Steel Rural Development Society. [Details of Expenditure made towards CSR activities are given in Annexure XI]				
IX	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Complied. It will be adhered.				

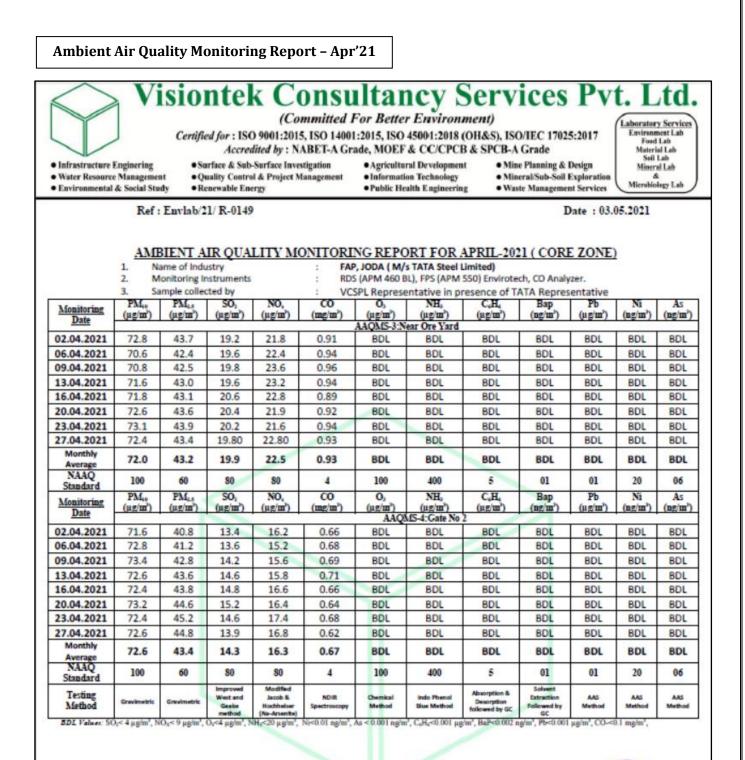
Х	A copy of clearance letter shall be sent by	Complied.
	the proponent to concerned Panchayat,	Already Complied. Intimation of obtaining
	Zila Parishad/Municipal Corporation,	Environmental Clearance is given to Zila Parishad vide
	Urban Local Body and the local NGO, if	letter No. FAPJ/4136/2015.
	any, from whom	
	suggestions/representations, if any, were	
	received while processing the proposal.	[Copy of Letter is given in Annexure-X]
	The clearance letter shall also be put on the	
	web site of the company by the proponent.	
XI	The project proponent shall upload the	Complied.
	status of compliance of the stipulated	Status of compliance is uploaded in the website along
	environment clearance conditions,	with the monitored data. It will be sent to regional office
	including results of monitored data on	of MoEFCC at Bhubaneswar, SPCB, Bhubaneswar &
	their website and shall update the same	regional office, Keonjhar.
	periodically. It shall simultaneously be	Last Six month EC compliance report is submitted on
	sent to the Regional Office of the	26.05.2021 vide letter no FAMD/FAPJ/169/FY22 at
	MoEFCC at Bhubaneswar. The respective	APCCF office, MOEF, Bhubaneswar
	Zonal Office of CPCB and the SPCB. The	The criteria pollutant levels PM 10,PM 2.5, SO2, NOX
	criteria pollutant levels namely; PM10,	CO, Ambient air parameters along with stack emission
	SO2, NOx (ambient levels as well as stack	parameters are displayed at the company's main gate.
	emissions) or critical sectoral parameters,	parameters are displayed at the company's main gate.
	indicated for the projects shall be	[Photograph is given in the Annexure XII]
	monitored and displayed at a convenient	
	location near the main gate of the company	
	in the public domain.	
XII	The project proponent shall also submit six	Complied.
	monthly reports on the status of the	It has been complied.
	compliance of the stipulated	1
	environmental conditions including results	
	of monitored data (both in hard copies as	
	well as by e-mail) to the Regional Office	
	of MoEFCC, the respective Zonal Office	
	of CPCB and the SPCB. The Regional	
	Office of the Ministry at	
	Bhubaneswar/CPCB/SPVCB shall	
	monitor the stipulated conditions.	
XIII	The environmental statement for each	Complied.
	financial year ending 31st March in Form-	F
	V as is mandated to be submitted by the	The Environment statement in Form V was submitted for
	project proponent to the concerned State	the year 2020-21 on 17 th Sep, 2020 vide letter no Ref
	Pollution Control Board as prescribed	No. FAMD/FAPJ/314/FY22 to SPCB, Bhubaneswar and
	under the Environment (Protection) Rules,	Regional office, Annexure-XIII
	1986, as amended subsequently, shall also	Keonjhar and the compliance of environmental
	be put on the website of the company	conditions is uploaded on the website.
	along with the status of compliance of	conditions is uproduce on the website.
	environmental conditions and shall also be	
	en in ominional conditions and shan also be	Page 8 of

	sent to the respective Regional Office of	
	the MoEFCC) at Bhubaneswar by e-mail.	
XIV	The project proponent shall inform the	Complied.
	public that the project has been accorded	Information regarding Environmental clearance issued
	environmental clearance by the Ministry	is published on Sambad oriya newspaper on 13 th
	and copies of the clearnces letter are	November issue and on the statesman English
	available with SPCB and may also be seen	Newspaper of 1th November issue.
	at website of the Ministry of Environment,	[Details of publication are given in Annexure XIV.]
	Forests and Climate Change (MoEPCC) at	
	https://envfor.nic.in. This shall be	
	advertise within seven days from the date	
	of issue of the clearance letter, at least in	
	two local newspaper that are widely	
	circulated in the region of which one shall	
	be in the vernacular language of the	
	locality concerned and a copy of the same	
	should be forwarded to the Regional	
	Office at Bhubaneswar.	
XV	Project authorities shall inform the	Being Followed.
	Regional Office as well as ministry. The	It will be strictly followed
	date of financial closure and final approval	it will be sulley followed
	of the project by the concerned authorities	
	and the date of commencing the land	
	development work	

ANNEXURE # 1 Ambient Air quality Report From 01.10.2020 To 31-03-2021



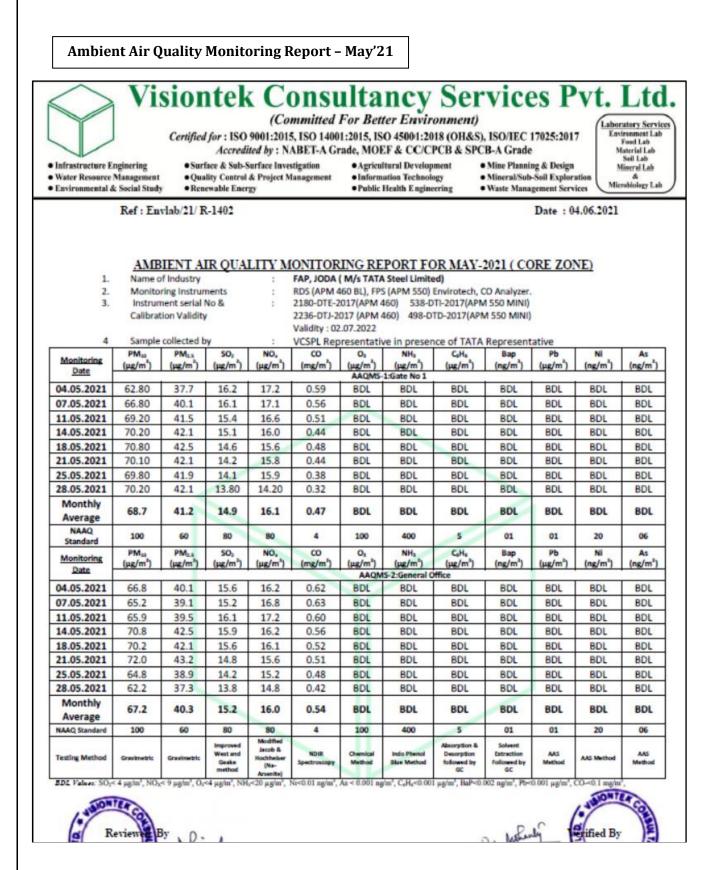
Page 10 of 41

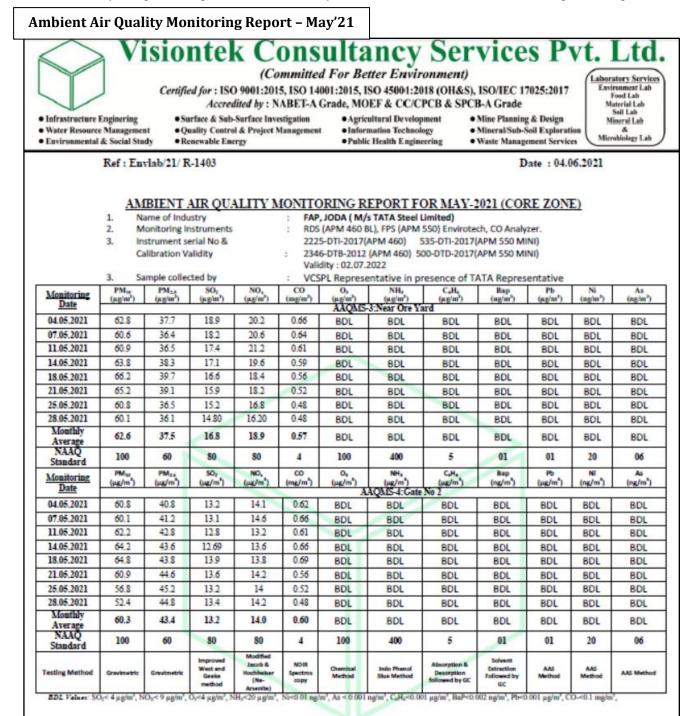


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Page **11** of **41**

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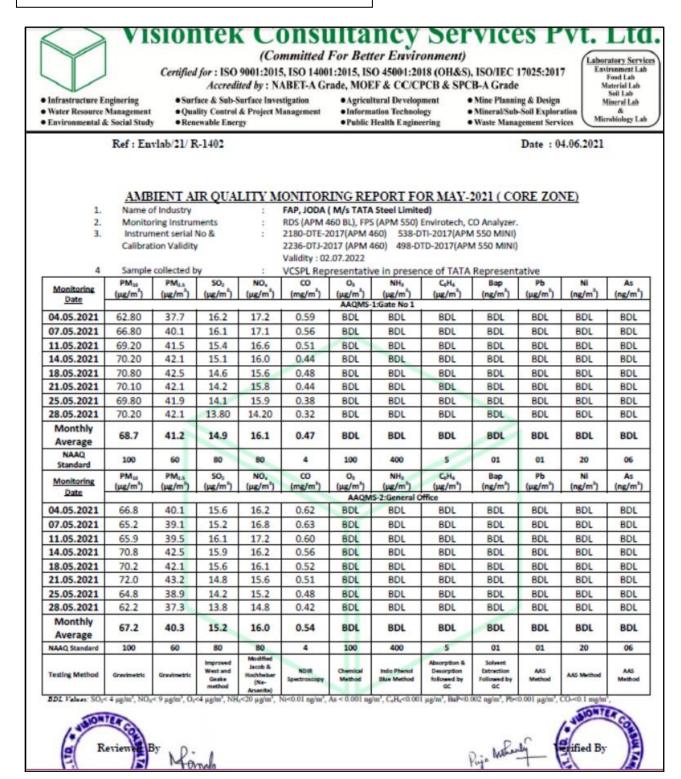




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Ambient Air Quality Monitoring Report - June'21



Ambient Air Quality Monitoring Report – June'21

		vlab/21/ F	1-1403									
	AM								D	ate : 04.0	6.2021	
	-	DIENT	ATR OU	TITVA	IONTIC	DINC D	FRORTE	OPMAN	001 (COI	DE ZON	D	
		ame of Indu					s TATA Steel	OR MAY-1 Limited)	021 (COI	AE LUN		
	2. M	lonitoring in	nstruments		: RDS	(APM 460 I	BL), FPS (APM	550) Envirote	ch, CO Analy	zer.		
		strument s						535-DTI-2017				
	Ca	alibration V	alidity			6-DTB-2012 dity : 02.07.		00-DTD-2017(APM 550 M	INI)		
	3. Sa	mple colle	cted by					resence of T	ATA Repres	entative		
Monitoring	PMie	PM	SO	NO.	CO	0,	NH ₂	CaHa	Bap	Pb	Ni	As
Date	(µg/m²)	(#g/m ²)	(µg/m²)	(µg/m ²)	(mg/m ²)	(ug/m²)	(µg/m²) -3:Near Ore Ya	(µg/m²)	(ng/m ²)	(µg/m²)	(ng/m²)	(ng/m ²)
04.05.2021	62.8	37.7	18.9	20.2	0.66	BDL	BDL	BDL	BDL	BDL	BDL	BDL
07.05.2021	60.6	36.4	18.2	20.6	0.64	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11.05.2021	60.9	36.5	17.4	21.2	0.61	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.05.2021	63.8	38.3	17.1	19.6	0.59	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18.05.2021	66.2	39.7	16.6	18.4	0.56	BDL	BDL	BDL	BDL	BDL	BDL	BDL
21.05.2021	65.2	39.1	15.9	18.2	0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25.05.2021	60.8	36.5	15.2	16.8	0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28.05.2021	60.1	36.1	14.80	16.20	0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Mouthly Average	62.6	37.5	16.8	18.9	0.57	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4	100	400	5	01	01	20	06
Monitoring Date	РМ _{зи} (µg/m [*])	PM _{2.8} (µg/m [*])	50; (µg/m ¹)	NO. (ug/m ¹)	CO (mg/m [*])	0, (µg/m [*])	NH, (µg/m [*]) AQMS-4:Gate	C.H. (µg/m [*])	Bap (ng/m [*])	Ρο (μg/m [*])	NI (ng/m [*])	As (ng/m [*])
04.05.2021	60.8	40.8	13.2	14.1	0.62	BDL	BDL	BDL	BDL	BDL	BDL	BDL
07.05.2021	60.1	41.2	13.1	14.6	0.66	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11.05.2021	62.2	42.8	12.8	13.2	0.61	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14.05.2021	64.2	43.6	12.69	13.6	0.66	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18.05.2021	64.8	43.8	13.9	13.8	0.69	BDL	BDL	BDL	BDL	BDL	BDL	BDL
21.05.2021	60.9	44.6	13.6	14.2	0.56	BDL	BDL	BDL	BDL	BDL	BDL	BDL
25.05.2021	56.8	45.2	13.2	14	0.52	BDL	BDL	BDL	BDL	BDL	BDL	BDL
28.05.2021	52.4	44.8	13.4	14.2	0.48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Monthly Average	60.3	43.4	13.2	14.0	0.60	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Standard	100	60	80	80	4	100	400	5	01	01	20	06
and the second se		Gawimetric	Improved West and	Modified Jacob & Hochheber	NDIR Spectros	Chemical	Indo Phenol Blue Method	Absorption & Description	Solvent Extraction Followed by	AAS Method	AA5 Method	AAS Method

Page **15** of **41**

Ambient Air Quality Monitoring Report – July'21

Visiontek Consultancy Services Pvt. Ltd. (Committed For Better Environment)

Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

 Infrastructure Engineering Water Resource Management

1

2

3.

 Surface & Sub-Surface Investigation Quality Control & Project Management · Environmental & Social Study Renewable Energy

 Agricultural Development Information Technology Public Health Engineering Mine Planning & Design Mineral/Sub-Soil Exploration

Laboratory Services at Lab

> Material Lab Soil L

Mineral Lab

æ **Microbiology** Lab

Environment I Food Lab

Waste Management Services

Ref : Envlab/21/R-3054

Date : 02.08.2021

AMBIENT AIR QUALITY MONITORING REPORT FOR JULY-2021 (CORE ZONE) FAP, JODA (M/s TATA Steel Limited)

- Name of Industry
- Monitoring Instruments
- Instrument Serial No & tion Validity

RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer. 2180-DTE-2017(APM 460) 538-DTI-2017 (APM 550 MINI) 2236-DTJ-2017(APM 460) 498-DTD-2017 (APM 550 MINI) Validity : 02.07.2022

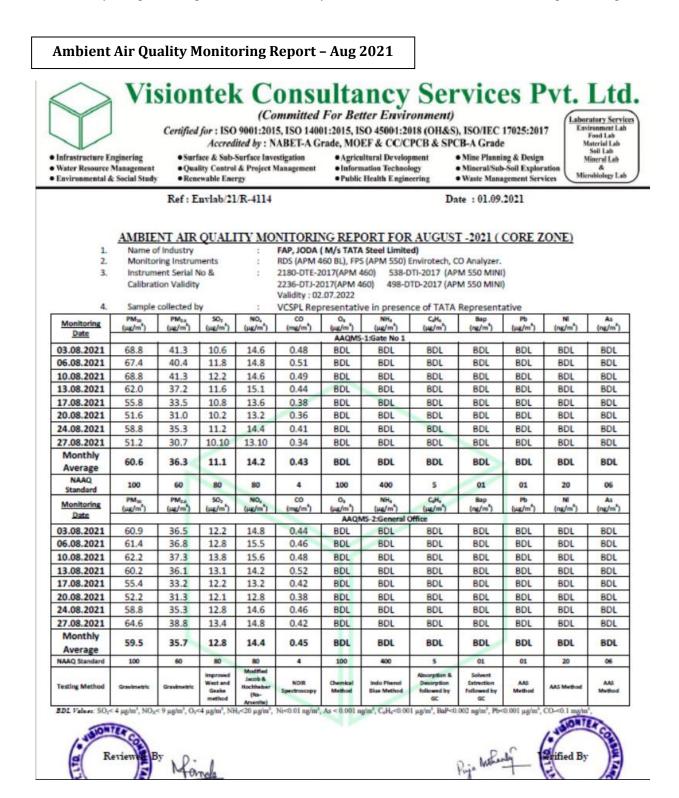
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Sample collected by 4 VCSPL Representative in presence of TATA Representative C.H. (HE/m) PM-PM_{2.4} 50, NO. 00 0, NH. Pb N As Monitoring lug/m* (m) m (ug/m*) (mg/m^{*}) 4g/m*) (ng/m*) (ug/m) (ng/m*) (ng/m*) (ug/m) (ug/m) Date AAOMS-1:Gate No 1 02.07.2021 58.60 35.2 10.8 14.8 0.42 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 <4 < 0.002 06.07.2021 56.20 0.44 < 0.001 < 0.001 < 0.001 33.7 10.2 14.6 <4 <20 < 0.01 < 0.002 <0.01 09.07.2021 52.80 31.7 10.6 15.1 0.48 <4 <20 < 0.001 < 0.001 < 0.001 31.7 13.07.2021 52.80 10.4 14.2 0.46 <4 <20 < 0.001 < 0.002 < 0.001 <0.01 < 0.001 16.07.2021 50.60 30.4 10.2 14.1 0.44 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 20.07.2021 51.20 30.7 9.8 13.8 0.41 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 23.07.2021 50.60 30.4 9.1 13.6 0.44 <4 <20 27.07.2021 51.20 30.7 9.40 13.20 0.41 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 30.07.2021 50.80 28.8 9.20 13.20 0.38 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 Monthly 52.8 31.8 10.0 14.1 0.43 <4 <20 < 0.001 < 0.002 <0.001 <0.01 < 0.001 Average NAAQ 100 60 80 80 4 100 400 5 01 01 20 06 Standard NO, 00 C.H. PM-PM_{2.4} \$0, 0, NH. Bag Pb N As Monitoring (ng/m) (ug/m) (ng/m*) (ug/m (ux/m) (µg/m*) (mg/m) a/m ug/m* (ue/m (ng/m) (ug/m) Date AAQMS-2:General Of ce 02.07.2021 56.8 34.1 12.6 14.6 0.42 < 0.001 < 0.002 < 0.001 <0.01 < 0.001 <4 <20 06.07.2021 55.2 33.1 12.8 14.8 0.44 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 55.8 33.5 13.1 15.2 0.41 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 09.07.2021 52.6 31.6 12.4 15.6 0.38 <4 <20 < 0.001 < 0.002 < 0.001 <0.01 < 0.001 13.07.2021 50.8 30.5 12.6 0.32 <4 <20 < 0.001 < 0.002 < 0.001 <0.01 < 0.001 16.07.2021 15.1 0.33 <4 <20 < 0.002 < 0.001 <0.01 < 0.001 20.07.2021 51.4 30.8 12.2 14.2 < 0.001 0.31 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 23.07.2021 51.8 31.1 11.6 14.1 52.2 31.3 11.8 13.8 0.3 <4 <20 < 0.001 <0.002 < 0.001 < 0.01 < 0.001 27.07.2021 30.07.2021 51.6 30.8 11.2 12.9 0.32 <4 <20 < 0.001 < 0.002 < 0.001 < 0.01 < 0.001 Monthly 53.1 32.0 12.3 14.5 0.36 <4 <20 < 0.001 < 0.002 <0.001 <0.01 < 0.001 Average NAAQ Standard 100 60 80 80 4 100 400 5 01 01 20 05 Modifi Solvent Improved West and ption & Jacob & NDIR do Phar Extracti AAS AAS **Testing Method** ochh Method Method Geaks **Blue Method** Method ed by Follow ed by (Namethod CC. GC

BDL Values: SO₂ < 4 µg/m³, NO₂ < 9 µg/m³, O₃ < 4 µg/m³, NH₂ < 20 µg/m³, Ni<0.01 ng/m³, As < 0.001 ng/m³, C₄H₂ < 0.001 µg/m³, BaP<0.002 ng/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, CO<0.1 mg/m³ ONTER

Page 16 of 41

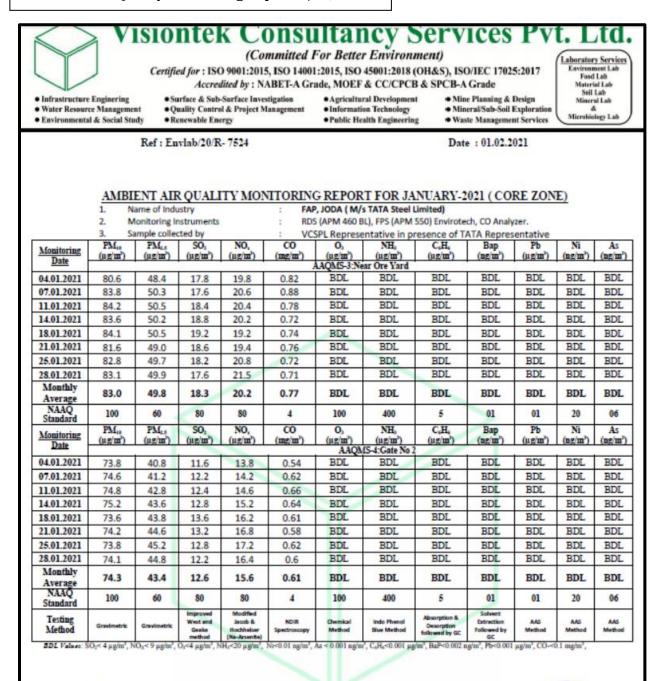
Pine Mathematy



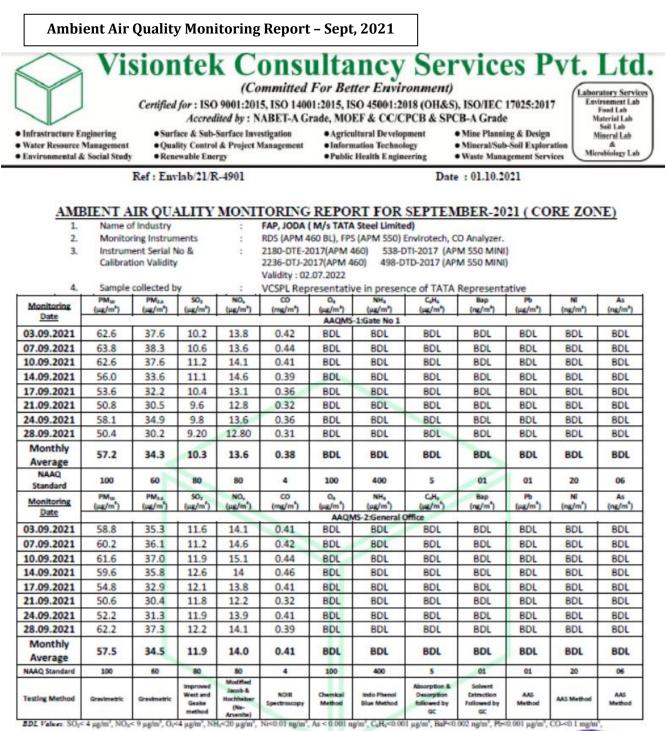
Page 17 of 41

Ambient Air Quality Monitoring Report - Jan, 2021

Fands



Pinja Wahandy







Annexure- II

Stack Emission Monitoring Report from 01.04.2021 To 30-09-2021

Stack Emission Monitoring Report - Apr'21

Consultancy Services Pvt. Ltd. isiontek (Committed For Better Environment) Laboratory Services Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Food Lab Material Lab Soil Lab Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade Surface & Sub-Surface Investigation Agricultural Development Mine Planning & Design • Infrastructure Engineering Mineral Lab & Microbiology Lab Water Resource Management Quality Control & Project Management Information Technology Mineral/Sub-Soil Exploration · Environmental & Social Study Renewable Energy Public Health Engineering Waste Management Services

Ref : Envlab/21/ R-0153

Date : 03.05.2021

STACK ANALYSIS REPORT FOR THE MONTH OF APRIL 2021

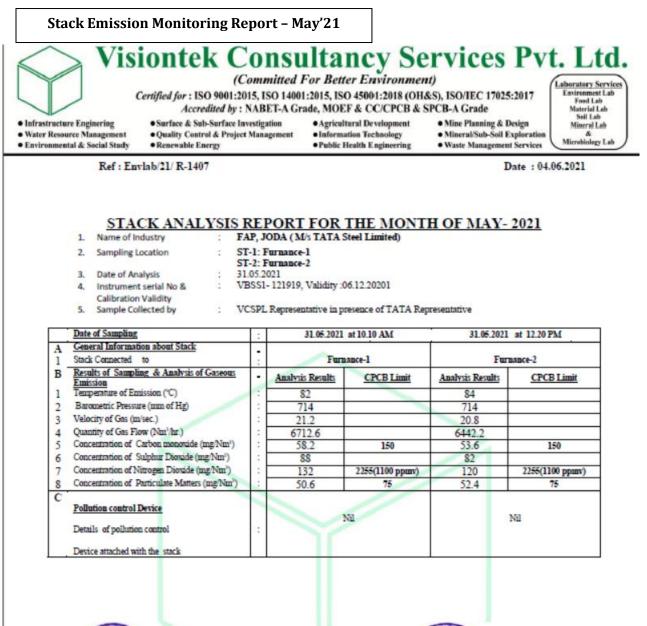
- 1. Name of Industry
- FAP, JODA (M/s TATA Steel Limited) ST-1: Furnance-1
- 2. Sampling Location
- ST-2: Furnance-2
- 3. Date of Analysis
- : 23.04.2021
- 4. Sample Collected by
- VCSPL Representative in presence of TATA Representative

	Date of Sampling	1.5	23.04.2021	at 11.15 AM	23.04.2021	at 12.10 PM
A 1	General Information about Stack Stack Connected to	•	Furr	ance-1	Fur	nance-2
B	Results of Sampling & Analysis of Gaseous Emission	•	Analysis Results	CPCB Limit	Analysis Results	CPCB Limit
1	Temperature of Emission (°C)	1	86		88	
2	Barometric Pressure (mm of Hg)	:	714		714	
3	Velocity of Gas (m/sec.)	- 20	20.6		19.2	
4	Quantity of Gas Flow (Nm3/hr.)	1	6628.14		6348.82	
5	Concentration of Carbon monoxide (mg/Nm3)	1	59.6	150	54.21	150
6	Concentration of Sulphur Dioxide (mg/Nm3)	12	92		86	
7	Concentration of Nitrogen Dioxide (mg/Nm ³)	13	136	2255(1100 ppmv)	124	2255(1100 ppmv)
8	Concentration of Particulate Matters (mg/Nm ¹)	1	52.2	75	55.2	75
С	Pollution control Device		1	NI		Nil
	Details of pollution control Device attached with the stack					











Monda



Page **21** of **41**

Stack Emission Monitoring Report -July'21



Certified for : ISO 9001:201	omm 15, IS (ABE estigati	itted For Bette 0 14001:2015, ISO T-A Grade, MOEl on • Agricult ement • Information	er Environment)	5), ISO/IEC 170	25:2017 Design Exploration
Ref : Envlab/21/R-4119			Date : 01.	09.2021	
Calibration Validity 5. Sample Collected by : VC			esence of TATA Repre		
Date of Sampling			T 111 TO 10 OF FRAT	30.08.20	21 at 12.20PM
A General Information about Stack	•		mance-l		021 at 12.20PM
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous	•			F Analysis	
A General Information about Stack Stack Connected to	:	Fu	rnance-l	F	urnance-2
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission	•	Fu <u>Analysis Results</u>	rnance-l	F Analysis Results	urnance-2
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 B arometric Pressure (num of Hg) 3 Velocity of Gas (m/sec.) 1	•	Fu <u>Analysis Results</u> 74	rnance-l	F Analysis Results 80	urnance-2
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 Barometric Pressure (num of Hg) 3 Velocity of Gas (m/sec.) 4 Quantity of Gas Flow (Nun ³ /hr.)	•	Fu Analysis Results 74 714	rnance-l	F Analysis Results 80 714	urnance-2
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 Barometric Pressure (mm of Hg) 3 Velocity of Gas (m/sec.) 4 Quantity of Gas Flow (Nm²/hr.) 5 Concentration of Carbon monovide (mg/Nm²)		Fu Analysis Results 74 714 20.8 6891.62 62.2	rnance-l	F Analysis Results 80 714 19.8	urnance-2
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 Barometric Pressure (num of Hg) 3 Velocity of Gas (m/sec.) 4 Quantity of Gas Flow (Nm²/hr.) 5 Concentration of Carbon monovide (mg/Nm²) 6 Concentration of Sulphur Dioxide (mg/Nm²)		Fu Analysis Results 74 714 20.8 6891.62 62.2 90.6	rnance-1 <u>CPCB Limit</u>	F Analyzis Results 80 714 19.8 6526.81 58.8 88.2	urnance-2 <u>CPCB Limit</u> 150
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 Barometric Pressure (mm of Hg) 3 Velocity of Gas (m/sec.) 4 Quantity of Gas Flow (Nm²/hr.) 5 Concentration of Carbon monovide (mg/Nm²) 6 Concentration of Sulphur Diovide (mg/Nm²) 7 Concentration of Nitrogen Diovide (mg/Nm²)		Fun Analysis Results 74 714 20.8 6891.62 62.2 90.6 128.8	rnance-1 <u>CPCB Limit</u> 2255(1100 pputy)	F Analyziz Results 80 714 19.8 6526.81 58.8 88.2 126.2	Urnance-2 <u>CPCB Limit</u> 150 2255(1100 ppmv)
A General Information about Stack 1 Stack Connected to B Results of Sampling & Analysis of Gaseous Emission 1 Temperature of Emission (°C) 2 Barometric Pressure (num of Hg) 3 Velocity of Gas (m/sec.) 4 Quantity of Gas Flow (Nm²/hr.) 5 Concentration of Carbon monovide (mg/Nm²) 6 Concentration of Sulphur Dioxide (mg/Nm²)		Fu Analysis Results 74 714 20.8 6891.62 62.2 90.6	rnance-1 <u>CPCB Limit</u>	F Analyzis Results 80 714 19.8 6526.81 58.8 88.2	urnance-2 <u>CPCB Limit</u> 150



Manda



Page 23 of 41

Stack Emission Monitoring Report -Sept, 2021



Puja Wehan

Annexure-III



Mobile High Velocity Water Sprinkler cum Mist Canon



Dry Fogging System for Fugitive dust suppression

Page 25 of 41

S. No.	Facility Description	Total (Area in Acres)	Catchment type	Runoff coefficient
1.	Admin & other buildings	0.500		
2.	Raw Material Storage	7.533	Roof-top	
3.	Product Storage	0.230	catchment	0.9
	Total	8.263		
4	Road & drainage	1.482	Roads and	0.8
5.	Truck Darking Area	0.22	pavements	0.75
5.	Truck Parking Area	0.33	Open area	0.75
6.	Green Belt	15.6	Green area	0.7

RAIN WATER HARVESTING



Page **26** of **41**

Downstream hannel leads to Six Monthly Compliance Report to EC – Ferro Alloys Plant, Joda, M/s Tata Steel Limited for Apr'21 to Sep'2021
<u>Annexure-IV</u>

Fume Extraction System





Fume Extraction System For existing Plant

Page **27** of **41**

Annexure - V



Sewage Treatment Plant Installed at FAP, Joda

Page **28** of **41**

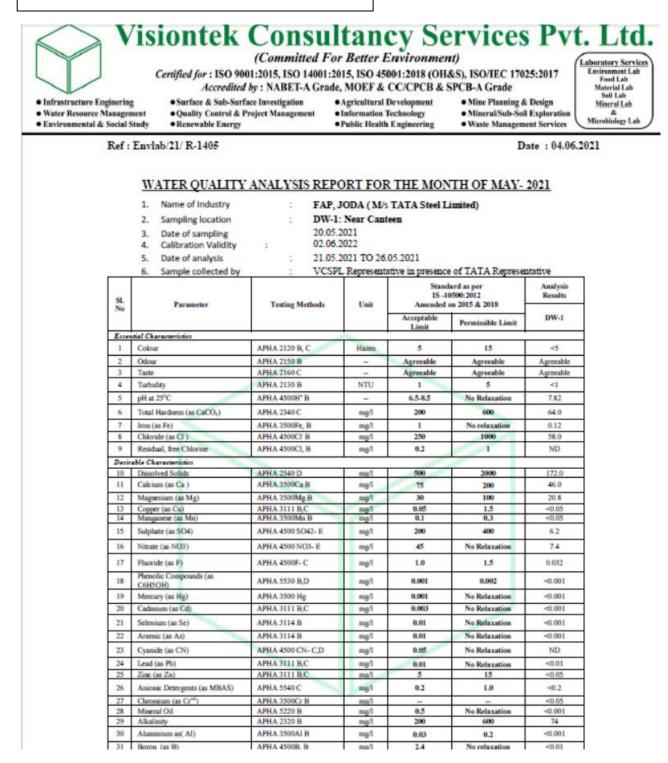
<u>Annexure – VI</u>

Ground water Analysis Report

Ground Water Quality Analysis - Apr, 2021

Visiontek Consultancy Services Pvt. Ltd. (Committed For Better Environment) Laboratory Services Environment Lab Food Lab Material Lab Soil Lab Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade Surface & Sub-Surface Investigation Agricultural Development Mine Planning & Design • Infrastructure Engineering **Mineral Lab** & Microbiology Lab Water Resource Manager Quality Control & Project Management Information Technology Mineral/Sub-Soil Exploration Public Health Engineering · Environmental & Social Study Renewable Energy Waste Management Services Ref : Envlab/21/ R-0151 Date : 03.05.2021 WATER QUALITY ANALYSIS REPORT FOR THE MONTH OF APRIL 2021 FAP, JODA (M/s TATA Steel Limited) 1. Name of Industry 2. Sampling location DW-1: Near Canteen 3. Date of sampling 1 07.04.2021 08.04.2021 TO 14.04.2021 4. Date of analysis VCSPL Representative in presence of TATA Representative Sample collected by 5. Standard as per IS -10500;2012 Analysis Results SL Parameter **Testing Methods** Unit Amended on 2015 & 2018 No DW-1 Acceptable Permissible Limit Limit tal Characteristics Em Colour APHA 2120 B, C Hazen 15 0 1 5 2 Odour APHA 2150 B Agreeable Agreeable Agreeable 3 Taste APHA 2160 (Agreeable Agreeable Agreeabi NTU 4 Turbidity APHA 2130 B 1 5 <1 APHA 4500H* B 65.85 No Relaxati 7.89 5 pH at 25°C 6 Total Hardness (as CaCO₁) APHA 2340 C mg/l 200 600 68.0 fron (as Fe) APHA 3500Fe, B No relaxati 0.16 7 mg/l 1 8 Chloride (as Cl.) APHA 4500CT B 250 1000 60.0 mg/ APHA 4500CL B ND 9 Residual, free Chlorine mg/l 0.2 1 Desirable Characteriztics 10 Dissolved Solids APHA 2540 D 182.0 may's 500 2000 APHA 3500Ca B 11 Calcium (as Ca) 50.0 mg/l 75 200 12 Magnesium (as Mg) APHA 3500Mg B 30 100 24.0 mg/l 13 Copper (as Cu) APHA 3111 B.C 0.05 1.5 ma/ 14 Manganese (as Mn 0.3 APHA 3500Mn E 0.1 may Sulphate (as \$O4) 15 APHA 4500 SO42- E mg/l 200 400 6.5 Nitrate (as NO3) APHA 4500 NO3- E 45 No Relaxation 16 mg/l 6.2 17 Fluoride (as F) APHA 4500F- C mg/l 1.0 1.5 0.031 olic Compounds (as 18 APHA 5530 B,D mg/l 0.001 0.002 <0.001 C6H5OH) 19 Mercury (as Hg) APHA 3500 Hg mg/l 0.001 No Relaxation <0.001 20 Cadmium (as Cd) APHA 3111 B.C mg/l 0.003 No Relaxation <0.001 21 Seler ium (as Se) APHA 3114 B 0.01 No Relaxation <0.001 mg/l 22 Arsenic (as As) APHA 3114 B mg/l 0.01 No Relaxation <0.001 23 Cyanide (as CN) APHA 4500 CN- C,D ND mg/l 0.05 No Relaxation 24 Lead (as Pb) APHA 3111 B.C. mg/l 0.01 No Relaxation <0.01 25 Zine (as Zn) APHA 3111 B.C 15 mail ~ 26 Anionic Detergents (as MBAS) APHA 5540 C <0.2 mg/l 0.2 1.0 27 Chromium (as Cr⁴⁸) APHA 3500Cr B ma/l <0.05 Mineral Oil 28 0.5 No Relaxation <0.001 mg/ 29 Alkalinity APHA 2320 B 200 may 600 70 30 Aluminium as(AI) APHA 3500AI B mg/l <0.001 0.03 0.2 APHA 4500B, B 2.4 < 0.01 31 Boron (as B) ma/1 No relaxat

Ground Water Quality Analysis - May, 2021



<u>Annexure – VII</u> <u>Risk & Disaster Mitigation Plan submission covering Letter</u>

Ref. No. FAPJ/ 42 51 /2016 Dated : 01 02 . 2016 To The Chairman Orissa Pollution Control Board Paribesh Bhawan A/118,Nilkantha Nagar Unit-VIII ,Bhubaneswar - 751012 Sub : Submission of Risk & Disaster Management Plant along with the mitigation measures for expansion of Ferro Manganese Plant, Joda. Sir, It may kindly be aware that with reference to Environment Clearance issued for expansion of Ferro Manganese Plant, Joda, vide F. No. J-11011/03/2012-IA.II (1) dated 5th November, 2015, there is a specific condition mentioned in clause (xi) for submission of Risk & Disaster Management Plan along with the mitigation measures. As such, we hereby enclose the Risk & Disaster Management Plan along with the mitigation measures for expansion of Ferro Manganese Plant from 0.0504 MTPA to 0.06 MTPA, Silico Manganese Plant of 0.06 MTPA and Manganese Sinter Plant of 0.05 MTPA. Thanking you, Yours faithfully, For TATA STEEL Ltd. ler HEAD FERRO ALLOYS PLANT, JODA Encl : as above. DI וה חהר UUI S.P.C. BOARD BHUBANESWAR. TATA STEEL LIMITED Ferro Alloys Plant, Joda-758034, Dist. Keonjhar, Odisha, India Tel.: 09236100945, e-mail: headoffice.fapi@tatasteel.com Registered Office: Bombay House, 24, Horni Mody Street, Fort, Mumbai-400001, India Tel. 9122 66657282, Fas.9122 6665724 Corporate identity Number L27100MH1907PLC000260, Website: www.tatasteel.com

Risk & Disaster Management Plan Submitted to OSCPCB, Bhubaneswar

Ref. No. FAPJ/ 4250	/2016	Dated : 01.02.2016
To The Additional Principal C Ministry of Environment & Regional office (EZ) A/3, Chandersekharpur, Bhubaneswar - 751023	Forests	
Sub : Submission of Risk 8 for expansion of Ferr	t Disaster Managemer o Manganese Plant, Jo	nt Plant along with the mitigation measures
Sir,		
Ferro Manganese Plant, J	oda, vide F. No. J-11 ndition mentioned in c	vironment Clearance issued for expansion of 1011/03/2012-IA.II (I) dated 5 th November, clause (xi) for submission of Risk & Disaster sures.
measures for expansion of	Ferro Manganese Plan	Management Plan along with the mitigation nt from 0.0504 MTPA to 0.06 MTPA, Silico Sinter Plant of 0.05 MTPA.
Yours faithfully, For TATA STEEL Ltd.		
HEAD FERRO ALLOYS PLANT	r, joda	
Encl : as above.		
		GOVT. OF INDIA MEEF & CC. Eastern R.O. Bhubaneswar.751023 OHEB 2016 RECEIVED
	table 400, MIRIN 500, - 400, Harris Para Para	
Transaction Registered Off	el. : 09238100945, e-mail : he ice : Bombay House, 24, Hom Tel. 91 22 66658282, F	s, Dist. Keonjhar, Odisha, India sadoffice.fapj@tatasteel.com i Mody Street, Fort, Mumbai-400001, India

Risk & Disaster Management Plan Submitted to MOEF, Regional Office, Bhubaneswar Page 32 of 41

<u>Annexure VIII</u>

Noise Monitoring Report from 01.04.2021 to 30.09.2021

Vis Vis	iontek Consu	Itancy Se		t. Ltd.
\Box	Certified for : ISO 9001:2015, ISO 1400 Accredited by : NABET-A Gr	1:2015, ISO 45001:2018 (OH	&S), ISO/IEC 17025:2017	Laboratory Services Environment Lab Food Lab Natorial Lab Soit Lab
Infrastructure Engineering Water Resource Management Environmental & Social Study	Surface & Sub-Surface Investigation Quality Control & Project Management Renovable Energy	Agricultural Development Information Technology Public Health Engineering	Mine Planning & Design Mineral/Sub-Soil Exploration Waste Management Services	Minerel Lab & Microliakog Lab

Ref : Envlab/21/ R-0159

Date : 03.05.2021

NOISE QUALITY ANALYSIS REPORT FOR THE MONTH OF APRIL 2021

2

1. Name of Industry

FAP, JODA (M/s TATA Steel Limited) 21.04.2021

Date of sampling
 Sample collected by

: VCSPL Representative in presence of TATA Representative

SI.No	Sampling Location		Night
1	Infront of Store		53.6
2	JCB 40X 1MTR Distance		69.8
3	Near Weight Bridge		54.6
4	Loader 2mtr distance	92.61	80.6
5	Crusher Area	89.44	81.8
6	Near Back Gate	77.26	45.6
7	Breaking Yard (During Work)	72.61	54.2
8	Plot No 4 B	66.80	49.6
9	Area Furnance Ground Floor	89.92	71.4
10	Area Furnance Floor		71.8
11	Pit Site Area		46.6
12	Near Cooling Tower		68.9
13	Pump House (Inside)		84.8
14	Telphar Floor		61.6
15	GCP Floor (1 mtr away from blower)	82.46	74.8
16	ACS Area	78.81	69.6
17	CMDS Area	78.26	70.2
18	Office Area	63.60	43.8
19	Quality Control Analysis Lab	61.80	40.6
20	Laboratory Crusher Room (During Work)	65.40	49.2
21	Canteen Kitchen	65.61	43.6
22	Near Main gate	73.80	43.1
23	D.G Room	82.60	74.2
24	Locomotive During Operation	77.81	69.6
Voise Stand	dard For Auto Mobiles, Equipments & Work Zone	In	dBA
1	Pasenger or Commercial Vehicles upto 4 tonnes	72.6	
ii.	Pasenger or Commercial Vehicles upto 4 tonnes & upto 12 tonnes 82.8		2.8
iii	Pasenger or Commercial Vehicles exceeding 12 tonnes 85.2		5.2
iv	Work Zone Standard 76.8		6.8





Page **33** of **41**

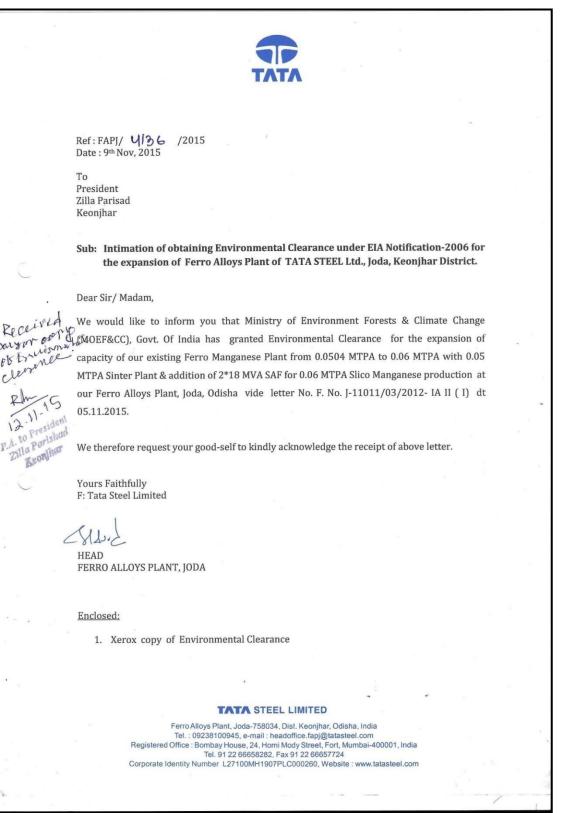
Annexure IX

Form No. 31 - A HEALTH RECORD Date: /9~//-26	14. Abdoment Tenderness パロード・パート Nのつ. 15. Nervous System
PO No. (Pre-employment /Periodical) PO No. (Prescribed under Rule 62-J) Si. No. <u>13.2</u>	10. Hervous System
PO No. (Prostrated where the or of t	History of Fits Yes / No
(el (po 70))	Epilepsy Yes / No
1. Name of the Factory Taster Street (1970)	Remarks on Mental Health: Grov
2. Name of the Employee : Sus banks key Delivery Photo	
3. Name of the Agency : MITRA SK	16. Locomotor System : Normal / Abnormal
4. Employee Distinguishing Number:	17. Skin condition : Normal / Abnormal
5. Age of the Employee : 22 adv.	Remarks on any skin condition noticed : (rom)
Identification mark	
Nature of Job . Samphy ?	
6. Date of Employment in the pi-tg - Loco	
7. Length of service in years sensed : 2 men thy scentral a	19. Hydrosol Present / Absent
8. General Survey	20. Present Complain, if any : No. Fish Complain
8. General Survey Ar4y Health :660d / Fair / Poor	- Abad Part Part Part
144 144	21. Summary of Findings
Abuse in a second se	Heart Disease NAM HT Date
Weight 5 % Kg.	Preat Disease
9. Blood Group	Comparison pile repartersive.
10. Eye vision	Diabetes
use glass : Yes / No	T.B. Consolid Standard : (O salt Respired diet
3,11. Hearing , the g	Epilepsy testing of the state o
12. Respiratory system & Chest Measurement	Poisoning (2) Report by after vory
Inspiration : 8600 pressed	Others notice
Expiration : 8400 anno	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Respiration rate / min : 14 2	Occupational disease, if any :
Remarks, if any : C1 own ·	
	22. Recommendation, if any further investigation : CLONCULLY AT
13. Cardiovascular system	ela flit 10 tys Al alale
Pulse rate	Dr. Arabinar Dispathy
D.F.	y Sushants the Detremy MBBB, DPH, DH, DMC H Regd. No. 12005 / BCMR 178
Heart Sound : Sista	Signature of the Employee Signature of the Medical Officer
Ope - hu pertortive	

Periodic Medical Examination Records

Annexure X

Intimation Letter oF EC to Zila Parishad



Intimation Letter oF EC to Chairman, Joda Municipalty

/2015 Ref: FAPJ/ 4135 Date : 9th Nov, 2015 To Chairman **Joda Municipality** Joda. Sub: Intimation of obtaining Environmental Clearance under EIA Notification-2006 for the expansion of Ferro Alloys Plant of TATA STEEL Ltd., Joda, Keonjhar District. Dear Sir/ Madam, We would like to inform you that Ministry of Environment Forests & Climate Change (MOEF&CC), Govt. Of India has granted Environmental Clearance for the expansion of capacity of our existing Ferro Manganese Plant from 0.0504 MTPA to 0.06 MTPA with 0.05 MTPA Sinter Plant & addition of 2*18 MVA SAF for 0.06 MTPA Slico Manganese production at our Ferro Alloys Plant, Joda, Odisha vide letter No. F. No. J-11011/03/2012- IA II (I) dt 05.11.2015. We therefore request your good-self to kindly acknowledge the receipt of above letter. Yours Faithfully F: Tata Steel Limited HEAD FERRO ALLOYS PLANT, JODA Enclosed: 1. Xerox copy of Environmental Clearance TATA STEEL LIMITED Ferro Alloys Plant, Joda-758034, Dist. Keonjhar, Odisha, India Tel.: 09238100945, e-mail: headoffice.fapj@tatasteel.com Registered Office : Bombay House, 24, Homi Mody Street, Fort, Mumbai-400001, India

Registered Office : Bombay House, 24, Homi Mody Street, Fort, Mumbal-400001, India Tel. 91 22 66658282, Fax 91 22 66657724 Corporate Identity Number L27100MH1907PLC000260, Website : www.tatasteel.com

Annexure XI

Period	Year-wise expenditure Planning in (Rs. Cr.)	Actual Expenditure for C.S.R. in Rs. Cr.	Name of CSR activities	Whether Completed or Not
2017-18	14.00 Cr.	14.27 Cr.	Construction of PCC Pathway. Boundary, toilet and painting, procuring 2 mobile medical units and ambulances, waiver for free treatment at Tata Steel Hospital, Joda, Installation of piped drinking water supply system in Gurutuan, Kamalpur, Bandhuabeda, Deoghar & Kusumdih, School improvement project (1000 SChools and Hans Foundation), 30 Model School project at Keonjhar, Women Empowerment Programmes	Completed
2018-19	10.21 Cr.	9.50 Cr.	Health, Drinking Water, Education, Rural Infra, Roads & Drains, Livelihood (Agriculture & Enterprise Dev.), Skill Development, Disability Screening Camp- 82 patients were provided with Prosthetics and orthopedic aids and appliances, Support of School Infrastructure- SSVM, Joda, Support of School Infrastructure- Joda Valley Girls School, Construction of drain at Kundrunala, Awareness on flora and fauna	Completed
2019-20	13.02 Cr	12.8 Cr	Health, Education, Livelihood, Rural Infrastructure, Major Project Like Kalyan Mandap in Joda	Completed
2020-21	18.6 Cr	17.12 Cr.	Health, Education, Livelihood, Rural Infrastructure, 102 patients were provided with Prosthetics and orthopedic aids and appliances, Support of School Infrastructure- SSVM, Joda, Support of School Infrastructure, Construction of drain at Kundrunala, Awareness on flora and fauna	Completed
2021-22	19.2 Cr	8.45 Cr	Health, Education, Livelihood, Rural Infrastructure, Support of School Infrastructure- SSVM, Joda, Support of School Infrastructure, Construction of drain at Kundrunala, Awareness on flora and fauna	In progress

Details of CSR funds allocated and released Expenditure against CSR Activities

<u>Annexure XII</u> <u>Environmental Parameter Display board at Main Gate</u>



Annexure XIII

Covering Letter of Form V. Environment statement submission



TATA STEEL LTD. FERRO MANGANESE PLANT, JODA

Ref. No. FAMD/FAPJ/ 214 /FY 22

Dated: 22.9.2021.

The Member Secretary State Pollution Control Board, Odisha Paribesh Bhavan A/118, Nilakantha Nagar, Unit-VIII Bhubaneswar-751012

Sub: <u>Submission of Environmental Statement of Ferro Manganese Plant, Joda for the period of 2020-21.</u>

Dear Sir,

We are submitting one set of Annual Environmental Statement in FORM-V dully filled in for the year 2020-2021 in respect of M/s Ferro Manganese Plant, Joda by Tata steel for your kind consideration.

We wish to maintain that necessary control measures have been installed and adopted to minimize the impact on environment.

We look forward to further your guidance which shall certainly help us in endeavoring further improvements in our Environmental Management Practices.

Thanking you,

Yours faithfully, For : TATA STEEL ICO

HEAD FERRO MANGANESE PLANT, JODA

Encl : as above.

23 SEP 2021 E. D.O. BOARD NOUBANEISWARD

Copy to -Regional Officer, OPCB, At-Baniapatt, College Road, Keonjhar - with enclosure.

Annexure XIV

Details of Publication on the Newspapers

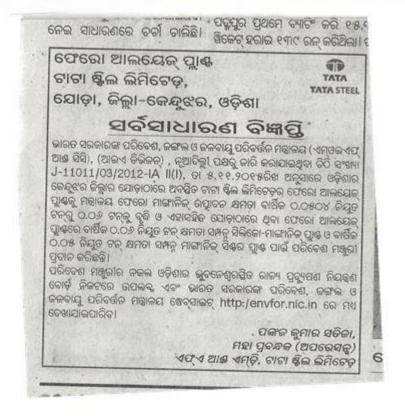




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Page **40** of **41**





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