

Ref. No.: FAMD/FAPBL/29/FY25

Date:29.11.2024

To,
The Additional Director,
Ministry of Environment and Forest & Climate Change,
Eastern Region Office,
A/3, Chandrasekhar,
Bhubaneswar-751023

Subject: Submission of half-yearly compliance report on the stipulated environmental clearance terms and conditions in respect of Ferro Alloys Plant, Balasore of M/s TATA Steel Ltd., for the period from Apr '2024 to Sept '2024.

Reference:

- 1) J-11011/55/2008-IA II (I), DATED 17th July 2008
- 2) J-11011/519/2010-IA-II (I), DATED 26th February 2013
- 3) J-11011/519/2010-IA-II (I), DATED 20th May 2014

Respected Sir,

We are herewith submitting the six-monthly compliance report on the status of the implementation of the conditions stipulated in environmental clearance awarded to us vide MoEF File No: J-11011/519/2010-IA-II (I) DATED 20th May 2014 in respect of Ferro Alloys Plant, Balasore of M/s TATA Steel Ltd. for the period from Apr '2024 to Sept '2024 for your kind perusal.

This is in reference to the MoEF&CC's notification vide S.O-5845, dt. 28th Nov 2018, the sixmonthly compliance report is being submitted only in soft copy mode, shared with your good office at e-mail @ roez.bsr-mef@nic.in.

We believe the above submission is in order.

Thanking you, Yours faithfully,

P. du Surono

Sai Swaroop Peela Head Ferro Alloys Plant, Balasore Tata Steel Limited sai.peela@tatasteel.com Mob: 8093033864

Encl: As above.

Copy To:

- 1) The Member Secretary, State Pollution Control Board, A/118, Nilakantha Nagar, Bhubaneswar, Odisha-751012.
- 2) The Regional Officer, Balasore, Ganeswarpur, P.O Januganj, Balasore

TATA STEEL LTD.

Half Yearly Compliance Report 2024 01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	Expansion of Ferro Alloy Plant by installation of Submerged Arc Furnace (16.5 MVA) for production of Si-Mn - 26645 TPA/ Fe-Mn - 29500 TPA/Fe-Si -11400 TPA/ Fe-Cr - 25000 TPA at Plot No. Z-1 IDCO IID Centre Village Somnathpur District Balasore in Odisha
Name of Entity / Corporate Office	Tata Steel Limited
Village(s)	N/A
District	BALESHWAR

Proposal No. IA/OR/IND/5459/2012 Plot / Survey / Khasra N/A State ODISHA MoEF File No. J-11011/519/2010-IA-II(I)

Category	Industrial Projects - 1
Sub-District	N/A
Entity's PAN	****2803M
Entity name as per PAN	UTSAV KASHYAP

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

Tata Steel Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	24.54	24.54
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	24.54	24.54

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Silico Manganese/Ferro Manganese/Ferro Silicon/Ferro Chrome	Tons per Annum (TPA)	31/03/2025	56140	36300	56140

Conditions

PPs Submission: Complied

Sr.No.	Condition Type	Condition Details	
1	GREENBELT	As proposed, green belt should be developed in at le of the project area. Selection of plant species shall be CPCB guidelines in consultation with the DFO.	
At preser	abmission: Being Complied nt, around 2000 saplings covering an a al plantation is planned for future.	area of around 5 acres are in self-sustaining conditions.	Date: 28/11/2024
2	ENERGY PRESERVATION MEASURES	No charcoal shall be used as fuel. Pet coke shall be instead of charcoal from unknown sources.	used as fuel
	abmission: Complied to all is being used as fuel.		Date: 28/11/2024
3	AIR QUALITY MONITORING AND PRESERVATION	Continuous monitoring facilities for the process star sufficient air pollution control equipments viz. fume of system with bag filters, ID fan and stack of adequate submerged arc furnace shall be provided to control er 50 mg/Nm3.	extraction height to
Presently	abmission: Agreed to Comply y, the process stacks have been provide	ed with Gas Cleaning Plant (GCP) of adequate	_
maintain been sha	with fume extraction system and bag ed. OCEMS system has already been	filters. ID fan and stack of adequate height (45m) is fixed with the analyzer and documents have already ng with OPCB system. Stack monitoring report is	Date: 28/11/2024
maintaine been shar attached	with fume extraction system and bag ed. OCEMS system has already been red with concerned partner for mapping	filters. ID fan and stack of adequate height (45m) is fixed with the analyzer and documents have already	28/11/2024
maintaine been shar attached 4 PPs Su Presently is followed for the m	with fume extraction system and bag ed. OCEMS system has already been red with concerned partner for mappir as Annexure 1. AIR QUALITY MONITORING AND PRESERVATION abmission: Complied 7, ambient Air Quality Standard notificed. For this purpose, four (04) nos. of	filters. ID fan and stack of adequate height (45m) is fixed with the analyzer and documents have already ag with OPCB system. Stack monitoring report is The National Ambient Air Quality Standards issued Ministry vide G.S.R. No. 826(E) dated 16th November be followed. ed vide G.S.R. No. 826(E) dated 16th November 2009 ambient air monitoring stations have been developed ameters as per NAAQS-2009 with a frequency of	28/11/2024 1 by the er, 2009 shall Date:
maintaine been shar attached PPs Su Presently is followed for the metwice per	with fume extraction system and bag ed. OCEMS system has already been red with concerned partner for mappir as Annexure 1. AIR QUALITY MONITORING AND PRESERVATION abmission: Complied of ambient Air Quality Standard notified. For this purpose, four (04) nos. of conitoring of Ambient Air Quality Partners and the content of the content	filters. ID fan and stack of adequate height (45m) is fixed with the analyzer and documents have already ag with OPCB system. Stack monitoring report is The National Ambient Air Quality Standards issued Ministry vide G.S.R. No. 826(E) dated 16th November be followed. ed vide G.S.R. No. 826(E) dated 16th November 2009 ambient air monitoring stations have been developed ameters as per NAAQS-2009 with a frequency of	Date: 28/11/2024 Date: 28/11/2024 hall be by the Ministree issued by the Min
PPs Su Presently is followed for the m twice per	with fume extraction system and bag ed. OCEMS system has already been red with concerned partner for mappin as Annexure 1. AIR QUALITY MONITORING AND PRESERVATION Abmission: Complied of a mbient Air Quality Standard notificed. For this purpose, four (04) nos. of conitoring of Ambient Air Quality Part week. AAQ monitoring report is attained at AIR QUALITY MONITORING AND PRESERVATION Abmission: Complied of Requisite procuring have been provious od near the tap hole for collection of the colle	filters. ID fan and stack of adequate height (45m) is fixed with the analyzer and documents have already ag with OPCB system. Stack monitoring report is The National Ambient Air Quality Standards issued Ministry vide G.S.R. No. 826(E) dated 16th November be followed. ed vide G.S.R. No. 826(E) dated 16th November 2009 ambient air monitoring stations have been developed ameters as per NAAQS-2009 with a frequency of ched as Annexure 2. Secondary fugitive emissions from all the sources as controlled within the latest permissible limits issued and regularly monitored. Guidelines / Code of Practices.	Date: 28/11/2024 Date: 28/11/2024 hall be by the Ministree issued by the Min

Date:

The slag	g is being sold for use a building mater	ial.	28/11/2024
7	WASTE MANAGEMENT	All the Ferro chrome slag shall be used for land fill plant or used as building material only after passing to Chemical Leach ability Potential (TCLP) test. Otherworks substances shall be recovered from the slag and output disposed in secured landfill as per CPCB guidelines.	hrough Toxic vise, hazardou
No Ferr	ver ferro chrome slag is generated, nece	ng period thus requirement of TCLP not applicable. essary TCLP test will be carried out prior to use of	Date: 28/11/2024
8	Risk Mitigation and Disaster Management	Risk and Disaster Management Plan along with the measures should be prepared and a copy submitted to Regional Office at Bhubaneswar, SPCB and CPCB v of issue of environment clearance letter.	the Ministry
	ubmission: Complied Emergency Plan available approved by	DoFB.	Date: 28/11/2024
9	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of influent and effluent surface and ground water shall be ensured and treated waster the norms prescribed by the State Pollution Control I described under the Environment (Protection) Act, 19 are more stringent. Leachate study for the effluent ge analysis should also be regularly carried out and report the Ministrys Regional Office at Bhubaneswar, SPCI	vater shall me Board or 986 whicheve nerated and ort submitted t
Since no study is		ts is getting generated thus requirement of leachate or quality is being monitored on regular basis. Ground Annexure 3.	Date: 28/11/2024
10	WATER QUALITY MONITORING AND PRESERVATION	The total water requirement for proposed expansion exceed 139 m3/day. Zero effluent discharge shall be followed and no wastewater should be discharged ou premises.	strictly
Total ra 287 m3	/day). NOC from CGWA has been obta /NOC/IND/REN/2/2020/5687. The con	48 m3/day and for Furnace 2 is 139 m3/day (Total - ained for drawl of 287m3/day vide NOC No. insumption of water shall not exceed the permitted	Date: 28/11/2024
11	WATER QUALITY MONITORING AND PRESERVATION	Efforts shall be made to make use of rain water har needed, capacity of the reservoir should be enhanced maximum water requirement. Only balance water recishould be met from other sources.	to meet the
		ed in the plant drains is being recycled for use in plant	Date: 28/11/2024
12	Corporate Environmental Responsibility	At least 5 percent of the total cost of the project she earmarked towards the Enterprise Social Commitmer locals need and item-wise details along with time bot should be prepared and submitted to the Ministrys Re	nt based on and action pla

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		accordingly in a time bound manner.		
PPs Submission: Complied The condition was applicable for previous owner of the plant during the first few years after grant of EC. After take over, Tata Steel has been carrying out CSR activities in the nearby areas through Tata Steel Foundation. Date: 28/11/2024				
13	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.			
PPs Submission: Complied Necessary infrastructure and facilities for the construction labors were provided during the construction Work. Date: 28/11/2024				

General Conditions

Sr.No.	Condition Type	Condition Details	
1	Statutory compliance	The Project Proponent shall inform the public that the been accorded environmental clearance by the Ministre the clearance letter are available with the SPCB and meat Website of the Ministry of Environment and Forests http://envfor.nic.in. This shall be advertised within seven the date of issue of the clearance letter, at least in two newspapers that are widely circulated in the region of be in the vernacular language of the locality concerned the same should be forwarded to the Regional office at	y and copies of ay also be seed at en days from local which one shall and a copy of
The inforthe transf	fer and amendment of environme	al Newspaper in Odia and English language. Subsequent to ental clearance in favour of M/s Tata Steel Limited, mendments shall be publicised by Tata Steel.	Date: 28/11/2024
2	MISCELLANEOUS	Project authorities shall inform the Regional Office a Ministry, the date of financial closure and final approve project by the concerned authorities and the date of colland development work.	al of the
	bmission: Complied vity was completed by M/s Stork	Ferro Alloys before the start of the construction Work.	Date: 28/11/2024
3	Statutory compliance The project authorities must strictly adhere to the stipulations made by the Odisha State Pollution Control Board and the State Government.		
	bmission: Agreed to Comply	•	Date:

AIR QUALITY
MONITORING AND
PRESERVATION

established in the downward direction as well as where maximum ground level concentration of PM10, 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.

At least four ambient air quality monitoring stations should be

PPs Submission: Complied

Presently four nos. ambient air monitoring stations have been developed for the monitoring of Ambient Air Quality Parameters as per National Ambient Air Quality Standard 2009. Monitoring and analysis are carried out by engaging an MoEFCC as well as NABL Accredited laboratory. Reports are submitted to State Pollution Control Board Odisha on monthly basis. AAQ monitoring report is attached as Annexure 2.

Date: 28/11/2024

5 WATER QUALITY 5 MONITORING AND PRESERVATION Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.

PPs Submission: Agreed to Comply

Since no process-based effluents/trade effluents is getting generated thus requirement of leachate study is not applicable. However, ground water quality is being monitored on regular basis. Ground water quality monitoring report is attached as Annexure 3.

Date: 28/11/2024

6 WATER QUALITY MONITORING AND PRESERVATION The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

PPs Submission: Agreed to Comply

During monsoon, the rainwater getting collected in the plant drains is being recycled for use in plant process.

Date: 28/11/2024

7 Statutory compliance

The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB / SPCB shall monitor the stipulated conditions.

PPs Submission: Being Complied

Last Six-Monthly Compliance report for the period Oct 2023 to March 2024 was submitted to MoEFCC/OSPCB Regional Office both in hard as well as soft copy.

Date: 28/11/2024

8

Statutory compliance

No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

PPs Submission: Agreed to Comply

No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

Date: 28/11/2024

9

Noise Monitoring & Prevention

The 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 (daytime) and 70 dBA (nighttime).

PPs Submission: Complied

Ambient Noise is regularly being monitored. Noise levels around the Plant area are being maintained within the standards. Noise Quality monitoring results is attached as Annexure-4.

Date: 28/11/2024

10

Human Health Environment

Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

PPs Submission: Agreed to Comply

Initial Medical Examination of all employees employed has been ensured. With-in one year all the employees will be covered under periodical medical check-up.

Date: 28/11/2024

11 Corporate Environmental Responsibility

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 socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.

PPs Submission: Being Complied

Environmental Protection measures as indicated in the EIA and EMP report have been implemented. Socio-economic developmental activities in Health, Education, Sports, agriculture, and infrastructure development are being carried out in the surrounding and periphery villages.

Date: 28/11/2024

12 Corporate Environmental Responsibility

Requisite amount 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 and Forests 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.

PPs Submission: Complied

Separate budget has been earmarked towards capital and operating environment expenditure.

Date: 28/11/2024

13 MISCELLANEOUS

A copy of 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 web site of the company by the proponent.

PPs Submission: Complied

Environment Clearance copy has been submitted to the concerned Govt. /Private Bodies. Environment Clearance letter has also been uploaded on the Tata Steel website, www.tatasteel.com

Date: 28/11/2024

14 MISCELLANEOUS

The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

PPs Submission: Being Complied

Last six-monthly compliance reports have been uploaded to the company's website www.tatasteel.com. Electronic multi-line display board installed to display the criteria pollutant levels namely, PM10, SO2, NOX or critical sectoral parameters, indicated for the projects at main gate of the company for the public domain. The compliance reports are being sent to the Regional Office, MoEFCC and the respective zonal office of CPCB and SPCB.

Date: 28/11/2024

15 Statutory compliance

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

Visit Remarks ast Site Visit Report Date: N/A		amended subsequently, shall also be put on the websit company along with the status of compliance of envir conditions and shall also be sent to the respective Reg the MOEF at Bhubaneswar by e-mail.	onmental
ast Site Visit Report Date: M/A dditional Remarks: Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's	PPs Submission: Complied The environmental statement is being submitted every year and the same is also being uploaded on company s website www.tatasteel.com Date: 28/11/2024		
dditional Remarks: Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's		Visit Remarks	
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's	Last Site Visit Report Date:	N/A	
considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's	Additional Remarks:		



Half-Yearly Compliance Report

On

Environmental Clearance Conditions For Ferro Alloy Plant - Balasore

Env clearance vide F no J-11011/519/2010-IA-II (I) dated 26/02/2013

Period: April 2024 – September 2024

Submitted By:

M/s. Tata Steel Limited

At- Plot No. Z-1, IDCO, IID Centre, Village Somnathpur, District Balasore, Odisha – 756 019

SI.	Condition	Compliance Status
اد	1	ific Conditions
1	No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.	Complied No charcoal is being used as fuel.
2	Continuous monitoring facilities for the process stacks and sufficient air pollution control equipment's viz. fume extraction system with bag filters. ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50 mg/NM3	Agreed to Comply Presently, the process stacks have been provided with Gas Cleaning Plant (GCP) of adequate capacity with fume extraction system and bag filters. ID fan and stack of adequate height (45m) is maintained. OCEMS system has already been fixed with the analyzer and documents have already been shared with concerned partner for mapping with OPCB system. Stack monitoring report is attached as Annexure 1.
3	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R No. 826(E) dated 16th November 2009 shall be followed.	Complied Presently, ambient Air Quality Standard notified vide G.S.R. No. 826(E) dated 16th November 2009 is followed. For this purpose, four (04) nos. of ambient air monitoring stations have been developed for the monitoring of Ambient Air Quality Parameters as per NAAQS-2009 with a frequency of twice per week. AAQ monitoring report is attached as Annexure 2.
4	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 shall be followed. The raw material storage shall be covered.	Complied Presently, Requisite procuring have been provided for taking care of fugitive dust emissions such as suction hood near the tap hole for collection of fugitive dust during tapping and the same is connected to the Fume Extraction System for subsequent venting through the Gas Cleaning Plant
5	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the state pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB	Agreed to Comply. Since no process-based effluents/trade effluents is getting generated thus requirement of leachate study is not applicable. However, ground water quality is being monitored on regular basis. Ground water quality monitoring report is attached as Annexure 3.
6	The total water requirement for proposed expansion shall not exceed 139 m3/day. 'Zero' effluent discharge shall be strictly followed and no wastewater, should be discharged outside the plant premises.	Complied Total raw water requirement for Furnace 1 is 148 m³/day and for Furnace 2 is 139 m³/day (Total – 287 m³/day). NOC from CGWA has been obtained for drawl of 287m3/day vide NOC No. CGWA/NOC/IND/REN/2/2020/5687. The consumption of water shall not exceed the permitted volume.

	SI.	Condition	Compliance Status
	7	Efforts shall be made to make use of	
		rainwater harvested. If needed capacity	During monsoon, the rainwater getting collected in the
		of the maximum water should	plant drains is being recycled for use in plant process.
		requirement only balance water	
		requirement should be met from other	
_		sources.	
	8	Slag produced in Ferro Manganese (Fe-	Complied
		Mn) production shall be used in	The slag is being sold for use a building material.
		manufacture of silico Manganese (Si-	
		Mn). The Fe-Si and Si-Mn slag shall be	
		used in the preparation of building materials.	
_	9	All the Ferro Chrome slag shall be used	Agreed to Comply.
		for land filling inside the plant after	No Ferro Chrome produced during the reporting period
		metal recovery or used as building	thus requirement of TCLP not applicable.
		material only after passing through	Whenever ferro chrome slag is generated, necessary
		Toxic Chemical Leachability Potential	TCLP test will be carried out prior to use of FeCr slag.
		(TCLP) test. Otherwise, hazardous	
		substances shall be recovered from the	
		slag and output waste and be disposed	
		in secured landfill as per CPCB	
		guidelines.	
	10	Risk and Disaster Management Plan	Complied.
		along with the mitigation measures	Onsite Emergency Plan available approved by DoFB.
		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.	
	11	As proposed, green belt shall be	Being Complied.
	••	developed in at least 33% of the project	At present, around 2000 saplings covering an area of
		area. Selection of plant species shall be	around 5 acres are in self-sustaining conditions.
		as per the CPCB guidelines in	Additional plantation is planned for future.
		consultation with the DFO.	' '
	12	At least 5% of the total cost of the	Complied
		project should be earmarked towards	The condition was applicable for previous owner of the
		the Enterprise Social Commitment	plant during the first few years after grant of EC. After
		based on locals need and item-wise	take over, Tata Steel has been carrying out CSR activities
		details along with time bound action	in the nearby areas through Tata Steel Foundation.
		plan should be prepared and submitted	
		to the Ministry's Regional Office at	
		Bhubaneswar. Implementation of such	
		program shall be ensured accordingly in	
-	12	a time bound manner.	Complied
	13	The company shall provide housing for construction labour within the site with	Complied Necessary infrastructure % facilities for the construction
		all necessary infrastructure and facilities	Necessary infrastructure & facilities for the construction labors were provided during the construction Work.
		such as fuel for cooking, mobile toilets	iabors were provided during the construction work.
		safe drinking water, medical health care,	
		creche etc. The housing may be in the	
		form of temporary structures to be	
<u>L</u>		1.5 or temporary structures to be	

SI.	Condition	Compliance Status
	removed after completion of the	
	project.	eral Conditions
1	The project authorities must strictly	Agreed to Comply.
	adhere to the stipulations made by the Odisha State Pollution Control Board and the State Government	Stipulations as made by the State & Central Govt. are being adhered to from time to time.
2	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Agreed to Comply No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
3	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB. Data on Ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/ CPCB once in six months	Complied Presently four nos. ambient air monitoring stations have been developed for the monitoring of Ambient Air Quality Parameters as per National Ambient Air Quality Standard 2009. Monitoring and analysis are carried out by engaging an MoEFCC as well as NABL Accredited laboratory. Reports are submitted to State Pollution Control Board Odisha on monthly basis. AAQ monitoring report is attached as Annexure 2.
4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilised for plantation purpose.	Agreed to Comply. Since no process-based effluents/trade effluents is getting generated thus requirement of leachate study is not applicable. However, ground water quality is being monitored on regular basis. Ground water quality monitoring report is attached as Annexure 3.
5	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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. 75dBA (daytime) and 70dBA (night-time)	Complied Ambient Noise is regularly being monitored. Noise levels around the Plant area are being maintained within the standards. Noise Quality monitoring results is attached as Annexure-4.
6	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the factories act.	Agreed to Comply. Initial Medical Examination of all employees employed has been ensured. With-in one year all the employees will be covered under periodical medical check-up.
7	The company shall develop rainwater harvesting structure to harvest the rainwater for utilisation in the lean season besides recharging the ground water table.	Agreed to Comply. During monsoon, the rainwater getting collected in the plant drains is being recycled for use in plant process.
8	The project proponent shall also comply with all the environmental protection measures and safeguards	Being Complied. Environmental Protection measures as indicated in the EIA and EMP report have been implemented.

SI.	Condition	Compliance Status
	recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking	Socio-economic developmental activities in Health, Education, Sports, agriculture, and infrastructure development are being carried out in the surrounding and periphery villages.
9	water supply and health care etc. Requisite amount 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 and Forests 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 Separate budget has been earmarked towards capital and operating environment expenditure.
10	A copy of 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. Environment Clearance copy has been submitted to the concerned Govt. /Private Bodies. Environment Clearance letter has also been uploaded on the Tata Steel website, www.tatasteel.com
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhubaneswar, the respective Zonal office of CPCB and the SPCB. The Criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameter, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being Complied. Last six-monthly compliance reports have been uploaded to the company's website www.tatasteel.com. Electronic multi-line display board installed to display the criteria pollutant levels namely, PM10, SO2, NOX or critical sectoral parameters, indicated for the projects at main gate of the company for the public domain. The compliance reports are being sent to the Regional Office, MoEFCC and the respective zonal office of CPCB and SPCB.
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard	Being Complied. Last Six-Monthly Compliance report for the period Oct'2023 to March'2024 was submitted to MoEFCC/OSPCB Regional Office both in hard as well as soft copy.

SI.	Condition	Compliance Status
	copies as well as by email) to the Regional office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of the Ministry at Bhubaneswar/ CPCB/ SPCB shall monitor the stipulated conditions.	•
13	The environmental statement for each financial year ending 31st March in Form-V as mandated to be submitted by the project proponent to the Concerned. State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of the company along with the status of compliance of Environmental Conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-Mail.	Complied. The environmental statement is being submitted every year and the same is also being uploaded on company's website www.tatasteel.com
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers 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.	Complied. The information was published in the local Newspaper in Odia and English language. Subsequent to the transfer and amendment of environmental clearance in favour of M/s Tata Steel Limited, information about future clearances and amendments shall be publicised by Tata Steel.
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of Financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Complied. The activity was completed by M/s Stork Ferro Alloys before the start of the construction Work.



ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12397 Date: 11.10.2024

SIX MONTH COMPLIANCE REPORT STATIONARY EMISSION MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024

1. Name of Industry : Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.

2. Sampling Location : ST-I Stack attached to Arc Furnace 3. Name of sampling Instrument: Vayubodhan Stack Sampler VSS 2 : VCSPL Representative 4. Sample Collected by

Parameters	Unit of Measur ement	APR 2024	MAY 2024	JUN 2024	JUL 2024	AUG 2024	SEP 2024	AVG	Standard MoEF & CPCB
Stack Temperature		104	91	86.7	73.2	71.9	73.1	83.3	-
Velocity of Flue Gas	⁰ C	10.6	11.19	12.3	8.59	7.9	8.6	9.9	
Concentration of Particulate Matter as PM	m/sec	38.1	39.11	36.6	31.8	29.3	32.1	34.5	50
Sulphur dioxide as SO ₂	mg/Nm ³	41.9	41.9	34.8	35.6	30.8	27.8	35.5	600
Oxides of Nitrogen as NO _x	mg/Nm ³	28.7	28.7	30.9	33.6	31.2	33.5	31.1	300
Carbon Monoxide as CO	mg/Nm ³	41.2	41.2	35.4	27.5	25.3	19.9	31.8	

Prepared By:





ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12392 Date:11.10.2024

SIX MONTH COMPLIANCE REPORT **AAO MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024** (CORE ZONE)

1. Name of Industry	:	M/s Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
2. Sampling Location	:	Monitoring Station ID: AAQMS-1 (Near 11KVA Substation).
3. Monitoring Instruments	:	RDS(APM 460 BL), FPS(APM 550) Envirotech, CO Monitor, VOC Sampler
4. Sample collected by	:	VCSPL representative in presence of TATA representative.

		PARAMETERS											
Month	PM ₁₀ (μg/m ³	PM _{2.5} (μg/m ³)	SO ₂ (μg/m³)	NO _x (μg/m ³)	Ο ₃ (μg/m ³)	CO (mg/m³)	NH ₃ (μg/m ³)	C_6H_6 (µg/m ³)	BaP (ng/m³)	Ni (ng/m³)	Pb (μg/m³)	As (ng/m³)	
APR 2024	64.5	33.5	12.0	20.0	11.9	0.8	25.0	BDL	BDL	BDL	BDL	BDL	
MAY 2024	64.4	32.8	11.7	20.8	11.9	0.7	24.5	BDL	BDL	BDL	BDL	BDL	
JUN 2024	63.4	31.8	13.5	20.2	10.0	0.7	24.4	BDL	BDL	BDL	BDL	BDL	
JUL 2024	59.5	27.1	11.2	16.1	9.4	0.6	23.4	BDL	BDL	BDL	BDL	BDL	
AUG 2024	58.6	29.6	10.7	15.7	8.4	0.6	23.8	BDL	BDL	BDL	BDL	BDL	
SEP 2024	58.0	29.2	9.0	14.5	8.5	0.7	24.2	BDL	BDL	BDL	BDL	BDL	
Average	61.4	30.7	11.4	17.9	10	0.68	24.1	BDL	BDL	BDL	BDL	BDL	
NAAQ Standard	100	60	80	80	180	4	400	5	1	20	1	6	
Testing method	Gravim etric	Gravimet ric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na- Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatogr aphy analysis	AAS method after sampling	AAS method after sampling	AAS method after samplin g	

BDL Values: PM₁₀ <20 μg/m³, PM₂₅ <10 μg/m³ SO₂<4 μg/m³, NO₃<6 μg/m³, O₃<4 μg/m³, NH₃<20 μg/m³, Ni<2.5 ng/m³, As <1 ng/m³, C₆H₆<4 μg/m³, BaP<0.5 ng/m³, Pb<0.02 μg/m³, CO<0.1 mg/m³,







ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12393 Date:11.10.2024

SIX MONTH COMPLIANCE REPORT AAQ MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024 (CORE ZONE)

1.	Name of Industry	:	M/s Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
2.	Sampling Location	:	Monitoring Station ID:AAQMS-3 (Near GCP)
3.	Monitoring Instruments	:	RDS(APM 460 BL), FPS(APM 550) Envirotech, CO Monitor, VOC Sampler
4.	Sample collected by	:	VCSPL representative in presence of TATA representative.

						PARA	METERS					
Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO _x (μg/m ³)	Ο ₃ (μg/m ³)	CO (mg/m³)	NH ₃ (μg/m ³)	C ₆ H ₆ (μg/m ³)	BaP (ng/m³)	Ni (ng/m³)	Pb (μg/m³)	As (ng/m ³)
APR 2024	64.5	32.7	12.6	21.3	12.7	0.8	25.3	BDL	BDL	BDL	BDL	BDL
MAY 2024	65.2	34.2	13.0	21.6	11.6	0.8	25.0	BDL	BDL	BDL	BDL	BDL
JUN 2024	64.3	32.8	13.5	22.0	9.9	0.7	24.1	BDL	BDL	BDL	BDL	BDL
JUL 2024	57.6	25.7	10.4	15.5	9.5	0.6	23.9	BDL	BDL	BDL	BDL	BDL
AUG 2024	58.6	29.2	10.3	14.9	9.5	0.6	23.8	BDL	BDL	BDL	BDL	BDL
SEP 2024	58.9	30.3	10.4	14.8	10.1	0.7	23.8	BDL	BDL	BDL	BDL	BDL
Average	61.5	30.8	11.7	18.4	10.6	0.7	24.3	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	180	4	400	5	1	20	1	6
Testing method	Gravimetric	Gravimetric	Improve d West and Geake method	Modified Jacob & Hochheiser (Na- Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatograp hy analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

BDL Values: PM₁₀<20 μg/m³, PM_{2.5}<10 μg/m³ SO₂<4 μg/m³, NO₃<6 μg/m³, O₃<4 μg/m³, NH₃<20 μg/m³, Ni<2.5 ng/m³, N i<2.5 ng/m³, As < 1 ng/m³, C₆H₆<4 μg/m³, BaP<0.5 ng/m³, Pb<0.02 μg/m³, CO<0.1 mg/m³,







ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12394 Date:11.10.2024

SIX MONTH COMPLIANCE REPORT AAO MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024 (CORE ZONE)

5. Name of Industry	:	M/s Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
6. Sampling Location	:	Monitoring Station ID:AAQMS-3 (Near Main gate)
7. Monitoring Instruments	:	RDS(APM 460 BL), FPS(APM 550) Envirotech, CO Monitor, VOC Sampler
8. Sample collected by	:	VCSPL representative in presence of TATA representative.

						PARAME	ΓERS					
Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO_x $(\mu g/m^3)$	O_3 ($\mu g/m^3$)	CO (mg/m³)	NH ₃ (μg/m ³)	C ₆ H ₆ (μg/m ³)	BaP (ng/m³)	Ni (ng/m³)	Pb (μg/m³)	As (ng/m³)
APR 2024	65.0	33.4	12.2	21.5	12.0	0.8	24.4	BDL	BDL	BDL	BDL	BDL
MAY 2024	64.5	33.8	11.8	21.1	11.7	0.8	23.9	BDL	BDL	BDL	BDL	BDL
JUN 2024	63.7	31.9	12.6	19.4	10.3	0.7	24.8	BDL	BDL	BDL	BDL	BDL
JUL 2024	58.5	27.6	11.2	15.2	9.9	0.6	24.1	BDL	BDL	BDL	BDL	BDL
AUG 2024	56.8	28.8	9.1	13.4	10.0	0.6	23.1	BDL	BDL	BDL	BDL	BDL
SEP 2024	55.7	27.1	8.7	13.0	9.8	0.6	22.5	BDL	BDL	BDL	BDL	BDL
Average	60.7	30.4	10.9	17.3	10.6	0.68	23.8	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	180	4	400	5	1	20	1	6
Testing method	Gravimetri c	Gravimetric	Improved West and Geake method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatogr aphy analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

BDL Values: $PM_{10} < 20 \mu g/m^3$, $PM_{2.5} < 10 \mu g/m^3$, $PM_{2.$







ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12395 Date:11.10.2024

SIX MONTH COMPLIANCE REPORT AAQ MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024 (CORE ZONE)

1.	Name of Industry	:	M/s Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
2.	Sampling Location	:	Monitoring Station ID:AAQMS-4 (Near Admin Building)
3.	Monitoring Instruments	:	RDS(APM 460 BL), FPS(APM 550) Envirotech, CO Monitor, VOC Sampler
4.	Sample collected by	:	VCSPL representative in presence of TATA representative.

		PARAMETERS										
Date	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO_x $(\mu g/m^3)$	O_3 ($\mu g/m^3$)	CO (mg/m³)	NH ₃ (μg/m ³)	C ₆ H ₆ (μg/m ³)	BaP (ng/m³)	Ni (ng/m³)	Pb (μg/m³)	As (ng/m³)
APR 2024	64.9	33.7	13.5	21.9	11.8	0.8	24.7	BDL	BDL	BDL	BDL	BDL
MAY 2024	64.8	33.3	12.8	21.9	12.5	0.7	24.6	BDL	BDL	BDL	BDL	BDL
JUN 2024	61.6	30.0	12.6	20.5	11.3	0.7	24.2	BDL	BDL	BDL	BDL	BDL
JUL 2024	57.8	25.8	11.4	16.3	10.1	0.6	23.9	BDL	BDL	BDL	BDL	BDL
AUG 2024	55.6	28.1	9.9	12.9	9.0	0.6	22.7	BDL	BDL	BDL	BDL	BDL
SEP 2024	55.1	26.9	9.1	13.6	9.5	0.5	22.5	BDL	BDL	BDL	BDL	BDL
Average	59.9	29.6	11.5	17.9	10.7	0.65	23.8	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	180	4	400	5	1	20	1	6
Testing method	Gravimetri c	Gravimetric	Improved West and Geake method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatogr aphy analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

 $\textbf{\textit{BDL Values}}: PM_{10} < 20 \ \mu\text{g/m}^3, PM_{2.5} < 10 \ \mu\text{g/m}^3, SO_2 < 4 \ \mu\text{g/m}^3, NO_3 < 4 \ \mu\text{g/m}^3, NH_3 < 20 \ \mu\text{g/m}^3, Ni < 2.5 \ n\text{g/m}^3, As \\ < 1 \ n\text{g/m}^3, C_6H_6 < 4 \ \mu\text{g/m}^3, BaP < 0.5 \ n\text{g/m}^3, Pb < 0.02 \ \mu\text{g/m}^3, CO < 0.1 \ m\text{g/m}^3, Ph < 0.02 \ \mu\text{g/m}^3, Ph < 0.02 \ \mu\text{g/m}^3,$







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Ref : Envlab/24-25/TR-12396 Date :11.10.2024

SIX MONTH COMPLIANCE REPORT AAQ MONITORING REPORT FOR APRIL 2024 TO SEPTEMBER 2024 (BUFFER ZONE)

1. Name of Industry : M/s Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.

2. Monitoring Instruments : RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Analyzer & VOC Sampler

3. Sample collected by : VCSPL Representative in presence of TATA Representative

Monitoring	PM ₁₀ (μg/m ³)	PM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO _x (μg/m ³)	O ₃ (μg/m ³)	CO (mg/m³)	NH ₃ (μg/m ³)	C ₆ H ₆ (μg/m ³)	BaP (ng/m³)	Ni (ng/m³)	Pb (μg/m³)	As (ng/m³)
Date	(μg/III)	(μg/m)	(μg/m)	(μg/m)			ripur Villag		(lig/iii)	(lig/iii)	(μg/III)	(lig/iii)
APR 2024	64.7	33.7	10.8	19.9	BDL	0.85	BDL	BDL	BDL	BDL	BDL	BDL
MAY 2024	62.5	29.6	9.8	18.6	BDL	0.69	BDL	BDL	BDL	BDL	BDL	BDL
JUN 2024	57.6	25.6	10.2	15.2	BDL	0.56	BDL	BDL	BDL	BDL	BDL	BDL
JUL 2024	52.3	23.4	6.5	10.2	BDL	0.55	BDL	BDL	BDL	BDL	BDL	BDL
AUG 2024	51.2	25.3	8.2	11.1	BDL	0.51	BDL	BDL	BDL	BDL	BDL	BDL
SEP 2024	49.6	23.8	7.6	10.3	BDL	0.48	BDL	BDL	BDL	BDL	BDL	BDL
Average	56.3	26.9	8.9	14.2	BDL	0.61	BDL	BDL	BDL	BDL	BDL	BDL
					В	Z-2:Somna	thpur Villag	ge				
APR 2024	63.8	31.9	12.6	18.4	BDL	0.67	BDL	BDL	BDL	BDL	BDL	BDL
MAY 2024	60.8	30.2	7.6	20.3	BDL	0.76	BDL	BDL	BDL	BDL	BDL	BDL
JUN 2024	59.3	28.1	8.9	13.2	BDL	0.62	BDL	BDL	BDL	BDL	BDL	BDL
JUL 2024	51.9	25.1	8.4	12.9	BDL	0.51	BDL	BDL	BDL	BDL	BDL	BDL
AUG 2024	48.9	23.4	6.9	9.1	BDL	0.55	BDL	BDL	BDL	BDL	BDL	BDL
SEP 2024	51.5	22.9	9.1	8.6	BDL	0.53	BDL	BDL	BDL	BDL	BDL	BDL
Average	56.0	26.9	8.9	13.8	BDL	0.61	BDL	BDL	BDL	BDL	BDL	BDL
						BZ-3:Bada	gaa Village					
APR 2024	65.9	36.2	11.7	13.3	BDL	0.74	BDL	BDL	BDL	BDL	BDL	BDL
MAY 2024	60.4	27.5	10.2	19.4	BDL	0.66	BDL	BDL	BDL	BDL	BDL	BDL
JUN 2024	56.8	26.3	9.7	12.7	BDL	0.58	BDL	BDL	BDL	BDL	BDL	BDL
JUL 2024	50.8	22.33	7.6	10.1	BDL	0.52	BDL	BDL	BDL	BDL	BDL	BDL
AUG 2024	53.1	25.2	7.3	10.3	BDL	0.52	BDL	BDL	BDL	BDL	BDL	BDL
SEP 2024	50.6	22.4	7.2	9.4	BDL	0.49	BDL	BDL	BDL	BDL	BDL	BDL
Average	56.3	26.7	8.9	12.5	BDL	0.59	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standard	100	60	80	80	4		100	60	80	80	4	I
Testing Method	Gravimetric	Gravimetric	Improved West and Geake method	Modified Jacob &Hochheise r (Na- Arsenite)	Chemical Method	NDIR Spectro scopy	Indo phenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatog raphy analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling

BDL Values :SO₂< 4 μ g/m³, NO₃< 9 μ g/m³,O₃<4 μ g/m³, CO-<0.1 μ g/m³, NH₃ <20 μ g/m³, C₆H₆<0.001 μ g/m³, BaP<0.002 μ g/m³, Ni<0.01 μ g/m³, Ni<0.01 μ g/m³, Pb<0.001 μ g/m³, As < 0.001 μ g/m³.







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Ref :Envlab/24-25/R-12476 Date :11.10.2024

SIX MONTH COMPLIANCE OF DRINKING WATER QUALITY APR 24 TO SEP 24

1. Name of Industry : Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.

2. Sampling location : Near Pump House (Aquaguard Water)

	2. Sampling location	. Iteal I amp House	(11dam8am1a			
Sl. No.	Parameter	Testing Methods	Unit	Standard as per Amended on		Analysis Results
110.				Acceptable Limit	Permissible Limit	
Essen	tial Characteristics					
1	Colour	APHA 2120 B, C	Hazen	5	15	<5
2	Odour	APHA 2150 B		Agreeable	Agreeable	Agreeable
3	Taste	APHA 2160 C		Agreeable	Agreeable	Agreeable
4	Turbidity	APHA 2130 B	NTU	1	5	<1
5	pH Value (at 25°C)	APHA 4500H+B		6.5-8.5	No relaxation	7.49
6	Total Hardness (as CaCO ₃)	АРНА 2340 С	mg/l	200	600	118
7	Iron (as Fe)	APHA 3500Fe, B	mg/l	1	No relaxation	0.21
8	Chloride (as Cl)	APHA 4500Cl ⁻ B	mg/l	250	1000	31.5
9	Residual, free Chlorine	APHA 4500Cl, B	mg/l	0.2	1	0.37
Desir	able Characteristics					
10	Dissolved Solids	APHA 2540 C	mg/l	500	2000	151
11	Calcium (as Ca)	APHA 3500Ca B	mg/l	75	200	35.3
12	Magnesium (as Mg)	APHA 3500Mg B	mg/l	30	100	6.47.4
13	Copper (as Cu)	APHA 3111 B,C	mg/l	0.05	1.5	< 0.02
14	Manganese (as Mn)	APHA 3500Mn B	mg/l	0.1	0.3	< 0.025
15	Sulphate (as SO ₄)	APHA 4500 SO ₄ ² · E	mg/l	200	400	6.3
16	Nitrate (as NO ₃)	APHA 4500 NO ₃ - E	mg/l	45	No relaxation	0.5
17	Fluoride (as F)	APHA 4500F-C	mg/l	1.0	1.5	0.43
18	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 5530 B,D	mg/l	0.001	0.002	< 0.001
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	< 0.003
21	Selenium (as Se)	APHA 3500 Se C	mg/l	0.01	No relaxation	< 0.01
22	Arsenic (as As)	APHA 3114 B	mg/l	0.01	No relaxation	< 0.01
23	Cyanide (as CN)	APHA 4500 CN ⁻ C,D	mg/l	0.05	No relaxation	< 0.05
24	Lead (as Pb)	APHA 3111 B,C	mg/l	0.01	No relaxation	<0.01
25	Zinc (as Zn)	АРНА 3111 В,С	mg/l	5.0	15.0	< 0.03
26	Anionic Detergents (as MBAS)	APHA 5540 C	mg/l	0.2	1.0	<0.2
27	Total Chromium (as Cr)	APHA 3500Cr B	mg/l	0.05	No relaxation	< 0.05
28	Mineral Oil	APHA 5220 B	mg/l	0.5	No relaxation	BDL
29	Alkalinity	APHA 2320 B	mg/l	200	600	91.5
30	Aluminium as(Al)	APHA 3500Al B	mg/l	0.03	0.2	< 0.03
31	Boron (as B)	APHA 4500B, B	mg/l	0.5	1.0	<0.5
32	Poly Aromatic Hydrocarbon as PAH	APHA 6440 B	mg/l	0.0001	No relaxation	< 0.0001
33	Pesticide	АРНА 6630 В,С	μg/l			Absent
34	E Coli	IS 15185:2016	per 100 ml	shall not be detectable in any 100 ml sample	shall not be detectable in any 100 ml sample	Absent
35	Total Coli forms	IS 15185:2016	per 100 ml	shall not be detectable in any 100 ml sample		Absent
DT (I)	NUTTI C -0.02 /I N/ -0.025				

BDL (Below Detectable Limits) Values: Turbidity <1NTU, Cu<0.02 mg/l, Mn<0.025 mg/l, $C_6H_5OH<0.05$ mg/l, $C_6H_5OH<0.004$ mg/l, C_6H_5OH m



P. Paty.
Verified By



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Ref: Envlab/24-25/R-12477

Date:11.10.2024 SIX MONTH COMPLIANCE OF DRINKING WATER QUALITY APR 24 TO SEP 24

Name of Industry Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar. Near Canteen (Aquaguard water) Sampling location

	2. Sampling location	: Near Canteen (Aqu	laguaru water	r)		
Sl. No.	Parameter	Testing Methods	Unit	Standard as per Amended on 2		Analysis Results
				Acceptable Limit	Permissible Limit	
Essen	tial Characteristics		1	T	1	
1	Colour	APHA 2120 B, C	Hazen	5	15	<5
2	Odour	APHA 2150 B		Agreeable	Agreeable	Agreeable
3	Taste	APHA 2160 C		Agreeable	Agreeable	Agreeable
4	Turbidity	APHA 2130 B	NTU	1	5	<1
5	pH Value (at 25°C)	APHA 4500H+B		6.5-8.5	No relaxation	6.8
6	Total Hardness (as CaCO ₃)	APHA 2340 C	mg/l	200	600	111.5
7	Iron (as Fe)	APHA 3500Fe, B	mg/l	1	No relaxation	0.39
8	Chloride (as Cl)	APHA 4500Cl ⁻ B	mg/l	250	1000	28.3
9	Residual, free Chlorine	APHA 4500Cl, B	mg/l	0.2	1	0.44
Desire	able Characteristics					
10	Dissolved Solids	APHA 2540 C	mg/l	500	2000	139.8
11	Calcium (as Ca)	APHA 3500Ca B	mg/l	75	200	35.7
12	Magnesium (as Mg)	APHA 3500Mg B	mg/l	30	100	6.8
13	Copper (as Cu)	APHA 3111 B,C	mg/l	0.05	1.5	< 0.02
14	Manganese (as Mn)	APHA 3500Mn B	mg/l	0.1	0.3	< 0.025
15	Sulphate (as SO ₄)	APHA 4500 SO ₄ ² - E	mg/l	200	400	6.1
16	Nitrate (as NO ₃)	APHA 4500 NO ₃ - E	mg/l	45	No relaxation	0.44
17	Fluoride (as F)	APHA 4500F-C	mg/l	1.0	1.5	0.57
18	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 5530 B,D	mg/l	0.001	0.002	< 0.001
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	< 0.003
21	Selenium (as Se)	APHA 3500 Se C	mg/l	0.01	No relaxation	< 0.01
22	Arsenic (as As)	APHA 3114 B	mg/l	0.01	No relaxation	< 0.01
23	Cyanide (as CN)	APHA 4500 CN ⁻ C,D	mg/l	0.05	No relaxation	< 0.05
24	Lead (as Pb)	APHA 3111 B,C	mg/l	0.01	No relaxation	<0.01
25	Zinc (as Zn)	APHA 3111 B,C	mg/l	5.0	15.0	<0.03
26	Anionic Detergents (as MBAS)	APHA 5540 C	mg/l	0.2	1.0	<0.2
27	Chromium (as Cr ⁺⁶)	APHA 3500Cr B	mg/l	0.05	No relaxation	<0.05
28	Mineral Oil	APHA 5220 B	mg/l	0.5	No relaxation	<0.5
29	Alkalinity	APHA 2320 B	mg/l	200	600	89.2
30	Aluminium as(Al)	APHA 3500Al B	mg/l	0.03	0.2	<0.03
31	Boron (as B)	APHA 4500B, B	mg/l	0.5	1.0	<0.5
32	Poly Aromatic Hydrocarbon as PAH	APHA 6440 B	mg/l	0.0001	No relaxation	<0.0001
33	Pesticide	АРНА 6630 В,С	μg/l			Absent
34	E Coli	АРНА 9221-F	MPN/ 100 ml	shall not be detectable in any 100 ml sample		Absent
35	Total Coli forms	АРНА 9221-В	MPN/ 100 ml	shall not be detectable in any 100 ml sample		Absent

Note: ND: Not Detected.

BDL (Below Detectable Limits) Values: Turbidity<1NTU, Cu<0.02 mg/l, Mn<0.025 mg/l, C₆H₅OH<0.05 mg/l, Hg<0.004 mg/l, Cd<0.03 mg/l, Se<0.001 mg/l, As<0.004 mg/l, Pb<0.02 mg/l, Zn<0.03 mg/l, Cr⁺⁶<0.01 mg/l, Al<0.1 mg/l, B<0.1 mg/l, Anionic Detergents<0.2mg/l, PAH<0.0001 mg/l.







ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/R-12478

Date:11.10.2024 SIX MONTH COMPLIANCE OF GROUND WATER QUALITY APR 24 TO SEP 24

<u> </u>		1CL	Of GROUND WHILK QUILLIT IN K 24 TO BE	_
	1. Name of Industry	:	Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.	
	2. Sampling location	:	Near Zigging Area	l

	2. Sumpling location	. Item Engling III				
Sl. No.	Parameter	Testing Methods Unit Standard as per IS -1 Amended on 2015			Analysis Results	
110.				Acceptable Limit	Permissible Limit	Results
Essen	tial Characteristics					
1	Colour	APHA 2120 B, C	Hazen	5	15	<5
2	Odour	APHA 2150 B		Agreeable	Agreeable	Agreeable
3	Taste	APHA 2160 C		Agreeable	Agreeable	Agreeable
4	Turbidity	APHA 2130 B	NTU	1	5	<1
5	pH Value (at 25°C)	APHA 4500H+B		6.5-8.5	No relaxation	7.13
6	Total Hardness (as CaCO ₃)	APHA 2340 C	mg/l	200	600	120.5
7	Chloride (as Cl)	APHA 4500Cl ⁻ B	mg/l	250	1000	31.6
8	Residual, free Chlorine	APHA 4500Cl, B	mg/l	0.2	1	BDL
9	Dissolved Solids	APHA 2540 C	mg/l	500	2000	121
11	Calcium (as Ca)	APHA 3500Ca B	mg/l	75	200	31.7
12	Magnesium (as Mg)	APHA 3500Mn B	mg/l	30	100	12.9
13	Sulphate (as SO ₄)	APHA 4500 SO ₄ ² - E	mg/l	200	400	5.1
14	Nitrate (as NO ₃)	APHA 4500 NO ₃ - E	mg/l	45	No relaxation	0.047
15	Fluoride (as F)	APHA 4500F-C	mg/l	1.0	1.5	<1
16	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 5530 B,D	mg/l	0.001	0.002	<0.001
17	Cyanide (as CN)	APHA 4500 CN ⁻ C,D	mg/l	0.05	No relaxation	< 0.05
18	Mineral Oil	APHA 5220 B	mg/l	0.5	No relaxation	<0.5
19	Alkalinity	APHA 2320 B	mg/l	200	600	125
20	Aluminium as(Al)	APHA 3500Al B	mg/l	0.03	0.2	< 0.03
21	Boron (as B)	APHA 4500B, B	mg/l	0.5	1.0	<0.5
22	Poly Aromatic Hydrocarbon as PAH	APHA 6440 B	mg/l	0.0001	No relaxation	<0.0001
23	Pesticide	APHA 6630 B,C	μg/l			<10
24	E Coli	АРНА 9221-F	MPN/ 100 ml	shall not be detectable in any 100 ml sample		<1.1
			MPN/	shall not be detectable in		
25	Total Coli forms	APHA 9221-B	100 ml	any 100 ml sample		<1.1
Trace	Metals					
01	Iron (as Fe)	APHA 3500Fe, B	mg/l	1	No relaxation	0.12
02	Manganese(Mn)	APHA 3500Mg B	mg/l	0.1	0.3	< 0.05
03	Copper (as Cu)	АРНА 3111 В,С	mg/l	0.05	1.5	<0.05
04	Mercury (as Hg)	APHA 3500 Hg	mg/l	0.001	No relaxation	< 0.001
05	Cadmium (as Cd)	АРНА 3111 В,С	mg/l	0.003	No relaxation	< 0.003
06	Selenium (as Se)	APHA 3500 Se C	mg/l	0.01	No relaxation	<0.01
07	Arsenic (as As)	APHA 3114 B	mg/l	0.01	No relaxation	<0.01
08	Lead (as Pb)	АРНА 3111 В,С	mg/l	0.01	No relaxation	<0.01
09	Zinc (as Zn)	АРНА 3111 В,С	mg/l	5.0	15.0	<0.03
10	Chromium (as Cr ⁺⁶)	APHA 3500Cr B	mg/l			<0.01
BDL (I	Below Detectable Limits) Values:Turbidity<1	NTIL Cu<0.02 mg/L Mn<0	.025 mg/L C ₄ H	-OH<0.05 mg/l. Hg<0.004 mg/l	Cd<0.03 mg/L Se<0.0	01 mg/L As<0.00

BDL (Below Detectable Limits) Values: Turbidity<1NTU, Cu<0.02 mg/l, Mn<0.025 mg/l, $C_6H_5OH<0.05$ mg/l, $H_9<0.004$ mg/l, $C_0<0.03$ mg/l, $C_0<0.001$ mg/ mg/l, Pb<0.02 mg/l, Zn<0.03 mg/l, Cr⁺⁶<0.01 mg/l, Al<0.1 mg/l, B<0.1 mg/l, Anionic Detergents<0.2mg/l, PAH<0.0001 mg/l.







ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Certified

Ref: Envlab/24-25/TR-12479 Date:11.10.2024

SURFACE WATER QUALITY ANALYSIS REPORT FOR APR 24 TO SEP 24

1. Name of Industry	:	Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
2. Sampling location	:	Near Darakhuli,Naraharipur (Pond water)
3. Date of sampling	:	27.09.2023
4. Date of analysis	:	27.09.2023 to 03.09.2023
5. Sample collected by	:	VCSPL Representative

Sl. No.	Parameter	Testing Methods	Unit	Standards as per IS- 2296:1992 Class –'C'	Analysis Results
1	Colour	APHA 2120 B, C	Hazen	300	CL
2	Turbidity	APHA 2130 B	NTU		<1
3	pH Value (at 25°C)	APHA 4500H+B		6.0-9.0	7.42
4	Total Hardness (as CaCO ₃)	АРНА 2340 С	mg/l		137
5	Iron (as Fe)	APHA 3500Fe, B	mg/l	0.5	0.45
6	Chloride (as Cl)	APHA 4500Cl ⁻ B	mg/l	600	34.8
7	Dissolved Solids	APHA 2540 C	mg/l	1500	270.8
8	Calcium (as Ca)	APHA 3500Ca B	mg/l		34.2
9	Magnesium (as Mg)	APHA 3500Mg B	mg/l		12.5
10	Copper (as Cu)	APHA 3111 B,C	mg/l	1.5	BDL
11	Sulphate (as SO ₄)	APHA 4500 SO ₄ ²⁻ E	mg/l	400	13.1
12	Nitrate (as NO ₃)	APHA 4500 NO ₃ - E	mg/l	50	5.6
13	Fluoride (as F)	APHA 4500F-C	mg/l	1.5	0.72
14	Phenolic Compounds (as C ₆ H ₅ OH)	APHA 5530 B,D	mg/l	0.005	BDL
15	Mercury (as Hg)	APHA 3500 Hg	mg/l		BDL
16	Cadmium (as Cd)	APHA 3111 B,C	mg/l	0.01	BDL
17	Selenium (as Se)	APHA 3500 Se C	mg/l	0.05	BDL
18	Arsenic (as As)	APHA 3114 B	mg/l	0.2	BDL
19	Cyanide (as CN)	APHA 4500 CN ⁻ C,D	mg/l	0.05	BDL
20	Lead (as Pb)	АРНА 3111 В,С	mg/l	0.1	BDL
21	Zinc (as Zn)	АРНА 3111 В,С	mg/l	15	0.073
22	Anionic Detergents (as MBAS)	APHA 5540 C	mg/l	0.2	<0.2
23	Chromium (as Cr ⁺⁶)	APHA 3500Cr B	mg/l	0.05	BDL
24	Alkalinity	APHA 2320 B	mg/l		166.8
25	Pesticide	АРНА 6630 В,С	μg/l		Absent
26	Dissolved Oxygen (as DO)	АРНА 4500 О-С	mg/l	4.0	6.1
27	Biochemical Oxygen Demand (as BOD at 270C For 3 days)	IS 3025(P-44) : 1993 RA 2003	mg/l	3.0	3.8
28	Chemical Oxygen Demand (as COD)	APHA 23 RD Ed,2017: 5220 C	mg/l		11.9
29	Total Suspended Solids	APHA 2540 C	mg/l		26.4
30	Silica as SiO2	APHA 23 RD Ed,2017: 4500 SiO ₂ C	mg/l		3.0
31	Total Coli forms	АРНА 9221-В	MPN/ 100 ml	5000	52.5

BDL (Below Detectable Limits) Values: Turbidity<1NTU, Cu<0.02 mg/l, Mn<0.025 mg/l, C₆H₅OH<0.05 mg/l, Hg<0.004 mg/l, Cd<0.03 mg/l, Se<0.001 mg/l, $mg/l, Pb<0.02 \ mg/l, Zn<0.03 \ mg/l, Cr^{+6}<0.01 \ mg/l, Al<0.1 \ mg/l, B<0.1 \ mg/l, Anionic Detergents<0.2 mg/l, PAH<0.0001 \ mg/l.$

As<0.004





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Ref: Envlab/24-25/TR-12474 Date:11.10.2024

SIX MONTH COMPLIANCE NOISE LEVEL MONITORING REPORT

Name of Industry	:	Ferro Alloys Plant Baleswar, (M/s TATA Steel Limited); Baleswar.
2. Monitoring Instruments	:	Noise Meter
3. Sample collected by	:	VCSPL Representative in presence of TATA Representative

Location ID	Location	Noise Level in SPL
44 7777 4 0 7 4 4		
11 KVA Substation		T
N-01	Shift Office	65.4
N-02	Work Shop	65.1
N-03	LT Room	70.9
N-04	HR Room	70.2
Furnished Production Yard	·	
N-05	Infront of rest Shed	71.9
N-06	Breaking Yard (Cast House	
	corner)	69.7
N-07	Hot Metal Dumping Yard	67.8
N-08	Metal Loading Area	68.4
Cast House		
N-09	Infront Of FCE-1 & T.H-2	66.8
N-10	Middle Person	69.2
N-11	Infront of FCE-2	65.3
N-12	Buffer Man Standing Area	64.9
N-13	FCE-2 Slag Dump Area	69.1
Road		
N-14	Infron of cast House	66.2
N-15	Infront of GCP	68.6
N-16	Infront of daybin	63.3
N-17	RM Yard	64.4
FCE Building		
N-18	Near Hoist	68.8
N-19	In Between 2 FCE	68.1
N-20	Near Staircase	67.3

1st Floor FCE		
N-21	Near FCE-2	60.6
N-22	In between 2FCE	64.7
N-23	Stair Case	60.8
N-24	Near FCE-1	58.8
N-25	FCE Control Room	58.6
2 nd Floor FCE		
N-26	Stair case	67.2
N-27	Transformer Room	66.6
N-28	Near Water Mainfood	67.5
N-29	Between 2 FCE	65.5
N-30	FCE-2	61.2
3rd floor FCE		
N-31	Stair case	59.8



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N-32	FCE-2 MCC Room	58.5
N-33	FCE-1 MCC Room	59.4
N-34	Infront of MCC Room	58.6
4th floor FCE		
N-36	Casing Manufacture-2	57.9
N-37	Casing manufacture-1	59.5
5th floor FCE		
N-38	Rotary Conveyor-2	58.8
N-39	Rotary Conveyor-1	58.6
Pump House		
N-40	Panel Room	62.6
N-41	Pump Room	63.7
GCP		
N-42	Dust Loading Area	63
N-43	GCP Control Room	61.7
N-44	Silo Dust Release area	62.6
N-45	Bag House-1	62.3
N-46	Bag house-2	60.9
N-47	Compressor Room	60.6
DayBin 1st Floor		
N-48	BC-8 FCE-1 & 2	63.9

DayBin 2 nd Floor		
N-49	Bin-3	55.8
N-50	Bin-9	55.2
N-51	Bin-6	60.2
N-52	Bin-10	58.7
DayBin 3rd Floor		
N-53	Entrance	59.5
N-54	Carraige-1	57.4
N-55	Carraige-2	58.2
N-56	backside	58.3
Jigging		
N-57	Pond	64.3
N-58	Fab Yard	61.9
Screening House		
N-59	Ground Floor	61.1
N-60	1 st floor	62.7
N-61	2 nd floor	59.8
Plant side		
N-62	Dolomite stack	69
N-63	Store	69.3
N-64	Lab	68.6
N-65	Admin Room	63.1
Industrial Noise Standard		75.0



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Ref: Envlab/24-25/TR-12475

SIX MONTH COMPLIANCE ILLUMINATION ANALYSIS REPORT

Date: 11.10.2024

Location ID	Location	Measuring in LUX	Standard For IS 6665-1972
11 KVA Substation	1		
L-01	Shift Office	79.2	150
L-02	Work Shop	90.8	300
L-03	LT Room	59.9	100
L-04	HR Room	67.8	100
Furnished Production		<u> </u>	
L-05	Infront of rest Shed	60.6	100
L-06	Breaking Yard (Cast House corner)	87.9	150
L-07	Hot Metal Dumping Yard	111.2	150
L-08	Metal Loading Area	87.9	150
Cast House	•		
L-09	Infront Of FCE-1 & T.H-2	58	150
L-10	Middle Person	70.2	100
L-11	Infront of FCE-2	68.8	150
L-12	Buffer Man Standing Area	66.9	150
L-13	FCE-2 Slag Dump Area	70.3	150
Road	·		
L-14	Infron of cast House	114.9	150
L-15	Infront of GCP	108.5	150
L-16	Infront of daybin	94.1	150
FCE Building	·		
L-17	Near Hoist	107.3	150
L-18	In Between 2 FCE	90.5	100
L-19	Near Staircase	94.4	100
1st Floor FCE	·		
L-20	Near FCE-2	110	150
L-21	In between 2FCE	87.4	150
L-22	Stair Case	88.9	100
L-23	Near FCE-1	110	150
L-24	FCE Control Room	109.2	150
2 nd Floor FCE			
L-25	Stair case	76.8	100
L-26	Transformer Room	64.2	100
L-27	Between 2 FCE	55.3	100
L-28	FCE-2	66.8	150
3rd floor FCE			
L-29	Stair case	68.5	100
L-29 L-30	FCE-2 MCC Room	91.9	200
L-30 L-31	FCE-1 MCC Room	81.6	200
L-31 L-32	Infront of MCC Room	99.9	200
4th floor FCE	amont of thee from	55.5	200
L-33	Casing Manufacture-2	90.4	200
L-34	Casing manufacture-1	84.6	200
5th floor FCE	Cabing manaractare 1	04.0	200
L-35	Rotary Conveyor-2	87.2	150
L-36	Rotary Conveyor-1	86.2	150
	110001 5 00110 5 01 1	1 00.2	

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Pump House			
L-37	Panel Room	95.4	200
L-38	Pump Room	86.2	200
GCP	•	<u> </u>	
L-39	Dust Loading Area	92.2	200
L-40	GCP Control Room	78.4	150
L-41	Silo Dust Release area	60.9	150
L-42	Bag House-1	77.1	150
L-43	Bag house-2	65.5	150
L-44	Compressor Room	70.7	150
DayBin 1st Floor			
L-45	BC-8 FCE-1 & 2	70.7	150
DayBin 2nd Floor	•	<u> </u>	
L-46	Bin-3	129	150
L-47	Bin-9	98	150
L-48	Bin-6	94.6	150
L-49	Bin-10	99.3	150
DayBin 3rd Floor			
L-50	Entrance	57	100
L-51	Carraige-1	65.3	150
L-52	Carraige-2	55.9	150
L-53	backside	55.5	150
Jigging			
L-54	Fab Yard	64	150
Screening House			
L-55	Ground Floor	65.3	100
L-56	1 st floor	58	100
L-57	2 nd floor	54.3	100
Plant side			
L-58	Dolomite stack	74.8	150
L-59	Store	67.1	200
L-60	Lab	111.4	300
L-61	Admin Room	87.8	150



Prepared By



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