

Shree Shakambari Ferro Alloys (P) Ltd.

Village – Riwiang, B.P.O. Seinduly, Via Nongstoin, West Khasi Hills, Meghalaya

Email : rwiangssfapl@gmail.com, Mobile : 8837009450

Date: 22st September 2020

Government of India
Ministry of Environment,
Forest and Climate Change,
North Eastern Regional Office,
Law-U-Sib, Lumbatngen,
Shillong – 793 021

Kind Attention: Dr. V. Saio, Scientist 'C'

Subject: Regarding Submission of Six monthly Compliance Reports & Monitoring Reports from October 2019 to March 2020 of Ferro Silicon Plant with 10 MW Captive Power Plant at Village – Riwiang, BPO Seinduly, Nongstoin, West Khasi Hills, Meghalaya of M/s Shree Shakambari Ferro Alloys Pvt Ltd.

Dear Sir,

Please find enclosed herewith the Compliance Reports for our above mentioned units for the period October 2019 to March 2020.

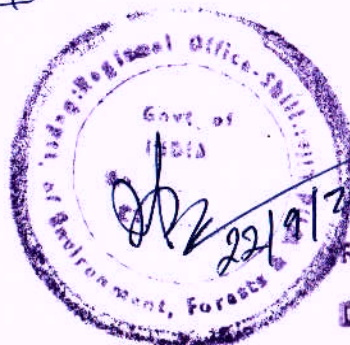
This is for your kind information and record.

Thanking you,

Yours Faithfully,

For Shree Shakambari Ferro Alloys Pvt. Ltd.

M. Bhimsaria
Mahesh Bhimsaria
Authorized Signatory



Central Pollution Control Board
क्षेत्रीय निदेशालय उत्तर पूर्व शिलांग - ७९३०१४
Regional Directorate - North East, Shillong - 793014
पर्यावरण व जलवायु परिवर्तन मंत्रालय, भारत सरकार
Ministry of Environment, Forest & Climate Change, Govt. of India
RECEIPT NO *Rebecca*
DATED 22.09.2020

Encl:-

- 1) Compliance Report – from Oct 19 to Mar 20
- 2) Test Report – AAQ (12 Parameters) Stack Emission Test Result, Noise Level, Effluent Water Analysis, Raw Water and Ground Water Analysis, Surface Water Analysis
- 3) Status of Commitment made in the Public Hearing Meeting
- 4) Report on Development Activities under CSR

CC to:-

- a) The Member Secretary, MSPCB, Shillong, Meghalaya
- b) The Regional Director CPCB, Shillong, Meghalaya

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD

Village - Riwiang, Via - Nongstoin, West Khasi Hills District, Meghalaya

COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020

A SPECIFIC CONDITIONS		STATUS	REMARKS
1	No charcoal shall be used as fuel, pet coke shall be used as reductent instead of charcoal from unknown sources	Is being complied	We are using coke for the production of ferro-silicon
2	Continuous monitoring facilities for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters. ID		Continuous monitoring facilities for all the stack of ferro-silicon is not mandatory and all other equipment exists. With fume extraction system bag filter
3	The national ambient air quality standard issued by the ministry vide G.S.R.No. dated 16th November, 2009 shall be followed	Is being followed	Monitoring reports are enclosed
4	Secondary fugitive emission 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.	Is being followed	We have already installed Springklers to control secondary fugitive emission.
5	Effort shall be made use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.	Being followed	Implemented.
6	Regular monitoring of influent and effluent surface, sub surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the state pollution control board. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the ministry regional Office at Shillong, SPCB and CPCB.	Report Enclosed	An Effluent Treatment Plant has been installed. We have constructed proper drainage system and the rain water goes to ETP where water is being treated and it is being reused in the plant.



COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020

	The total water requirement shall not be exceed 5016 m ³ /day. Permission from the state irrigation department/ Central Ground Water Board for drawl of water shall be obtained as may be applicable in this case.	Letter for permission of required amount of water have been obtained from village darbar.	We had applied earlier to Irrigation Department but no response has been received. We have also applied to the Department of Water Resources, Shillong, Meghalaya for permission to draw water from Riwiang River. We are mostly recycling the water and using the same.
8	Zero effluent discharge shall be strictly followed and no wastewater should be discharge.	Complied	We are using recycle water for the purpose of plant generation. An Effluent Plant Installed
9	All the ferro slag shall be used for land filling inside the plant or used as building material only after passing through Toxic C chemical Leachability Potential(TCLP) test.	Complied	Ferro-Silicon slag is marketable and not a waste product, we sell slag and not use it for land filling. Hence, no test for TCLP is required.
10	At the design stage, protection of the plant from the flood hazard shall be taken and preventive measures shall be taken at the construction stage.	There is no flood in this area.	However proper drains are being constructed for rain water.
11	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry Regional at Shillong, SPCB and CPCB within 3 months of issue of environment clearance letter.		It has already been submitted.
12	As proposed, green belt should be developed in at least 33% of the project area. Selection of the plant species shall be as per the CPCB guidelines in consultation with the DFO.	Plantation is in progress	More than 500 sampling have been planted in the path base and green belt area. Further 200 more sampling will be planted with the help of DFO.
13	All the commitments made to the public during the public hearing/ Public Consultation meeting held on 28th April 2010 shall be satisfactorily implemented and separate budget for implementing the same shall be allocated and information submitted to the Ministry Regional Office at Shillong.	Is being followed	Activities are going on as per the plan and being implemented phase by phase.



COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020

	At least 5% of the total cost of the project should be embarked towards the corporate social responsibility and item-details along with time bound action plan(need based) should be prepared and submitted to the Ministry Regional Office at Shillong.Implementation of such program shall be ensured according in a time bound manner.	Is being complied	A report on "The Development Activities" during the period October 2019 to March 2020 it is as per plan submitted to you earlier.
14	The company shall provide housing for the construction labour within the site with all the necessary infrastructure and facilities such as fuel for cooking,mobile toilet,mobile STP,safe drinking water,medical health care,creche etc.,The housing may be in the form of temporary structure to be removed after the completion of the project.	Constructed permanent and temporary quarter labour,staff quarters,drinking water plant in installed with Zeolite India(P)Ltd.,sanitary toilet are constructed,For health care-tide up with local hospitals and sufficient quantities of medicines are kept at site as per advice of doctor.	
15			

B GENERAL CONDITIONS

1	The Project Authority must be strictly adhere to the stipulations made by the Meghalaya Pollution Board(MPCB) and the State Government.	Yes	We agree to follow the guidelines of consent to establish and consent to operate issued by MPCB.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forestry.	Noted	



COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020

3	Atleast four ambient quality monitoring stations shall be establish in downwards direction as well as where maximum ground level concentration of SPM,SO ₂ and Nox are anticipated in consultation with the MPCB including one ambient air quality monitoring in downwards direction. Data on ambient air quality and stack emission should be regularly submitted to the Ministry including its Regional Office in Shillong and the MPCB once in six month.	Complied	Monitoring Stations are used during the testing by the authorized laboratory. We have installed the monitoring station.
4	Industrial wastewater shall be properly collected, treated so as to confirm to the standards prescribed under GSR 422(E) dated 18th May, 1993 and 31st december. 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Complied	An Effluent Treatment Plant has been installed.
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, silencer, enclosure etc., on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA rule, 1989 Viz. 75dBA (day time) and 70dBA (night time).	Within the limit.	
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per Factories ACT.	Yes	Dr. P. Lyngkholi from Nongstoin, conducts the Occupational health surveillance and medical check up at regular intervals for our workers & staffs
7	The company shall develop rain water harvesting structure to harvest the rain water for utilizing the lean season besides recharging the ground water table.	Complied	



COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020

	The project proponent shall also comply with all the environmental protection 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.	Complied	
8	As proposed, Rs163.00 Lakhs shall be embarked towards the capital cost and recurring cost/ annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the ministry of Environmental Forestry as well as State Governments. The funds so provided shall not be diverted for any other purpose.	Complied	
9	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and local NGO. If any, from whom suggestion/representations, if any, were received while processing proposal. The clearance letter shall also be put on the website of the company by the proponent.	Circulated to local darbar, Eleka Office, Autonomous Council, Local Block as well as local bodies.	The copy of letter had already been submitted to your office. The clearance letter has been uploaded on the website of the company (www.ssfapl.in) to be continued.
10	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 Regional Office of the MoEF, the respective Zonal Office of CPCB and the MPCB. The criteria pollutant levels namely SPM, RSPM, SO ₂ , NO _x (ambient as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at the convenient location near main gate of the company in the public domain.	Complied	Monitoring Data and Compliance Report have been displayed on the board near the main gate.
11			



COMPLIANCE REPORT FROM OCTOBER 2019 TO MARCH 2020

COMPLIANCE REPORT FROM OCTOBER'2019 TO MARCH'2020			
	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 copy as well as by e-mail) to the Regional Office of the MoEF at Shillong, the respective Zonal Office of the CPCB and SPCB. The Regional Office of this Ministry at Shillong/CPCB/MPCB shall monitor the stipulated conditions.	Is being complied	
12	The environmental statement for each financial year ending 31st March in Form-5 as mandated to the submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the environment(Protection)Rule, 1986, as amended subsequently, shall also put the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Complied	From-5 for the financial year 31st March 2020 was submitted on dated 22nd September 2020.
13	The project proponent shall inform the public that the project has been accorded environmental clearance letter are available with the MPCB and may also be seen at website of the Ministry of Environment and Forest at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, atleast in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same shall be forwarded to the Regional Office at the Shillong.	Circulated the clearance letter along with the Consent Letters of MPSCB to the Local Darbar, Eleka Office, Autonomous Council, Local Block as well as Local Bodies.	The copy of letter had already been submitted earlier
14	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.	The date of financial closure is 31st March.	The land Development work was started from December 10 after receiving the E.C. (Date of Environment Clearance was 26.10.2010)
15			

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam - 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in

Report No.: ENV/SSFAPL/AAQ/2019-20/02-01
Date : 26/02/2020

Order No.: SSFAPL/ENV/SEPT/19-20/001
Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang, P. O.: Seinduly

Dist: West Khasi Hills

Meghalaya - 793119

AMBIENT AIR QUALITY TEST RESULTS

LOCATIONS ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	NH ₃ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	O ₃ ($\mu\text{g}/\text{m}^3$)	B(a)P (ng/m^3)	C ₆ H ₆ ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Pb ($\mu\text{g}/\text{m}^3$)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)	400 (24 hrs. Average)	4.0 (1 hr. Average)	180 (1 hr. Average)	1.0 (Annual Average)	5.0 (Annual Average)	20 (Annual Average)	6.0 (Annual Average)	1.0 (24 hrs. Average)
In-Between Ferro Plant & Power Plant	11.02.2020	41.6	82.9	5.2	12.8	ND	0.071	ND	ND	ND	ND	ND	ND

Analysis Protocol: IS 5182

ND: Not Detected

Pankaj Baroi
PANKAJ BAROI
ENVIROCON

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

2. Results refer only to the particular parameters tested.

3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi - 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No. : ENV/SSFAPL/NLM/2019-20/02-01

Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001

Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang; P. O.: Seinduly

Dist.: West Khasi Hills

Meghalaya - 793119

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	Near Main Gate	11.02.2020	69	75	53	70
2	Coal Dumping Yard	11.02.2020	65	75	42	70
3	Near Cooling Tower	12.02.2020	63	75	56	70
4	Near Workers Colony	12.02.2020	48	55	35	45

Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No. : ENV/SSFAPL/SE/2019-20/02-01

Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001

Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang, P. O.: Seinduly

Dist.: West Khasi Hills

Meghalaya - 793119

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	SSFAPL/SE/2020/02-01	
02	Date of Sampling	11.02.2020	
03	Stack Attached To	10 MW CPP	
04	Stack Height (meter)	82	
05	Stack Diameter (meter)	3.4	
06	Flue Gas Temperature (°C)	161	
07	Exit Velocity of Gas (m/sec)	8.3	
08	Fuel Used	Coal	
Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Unit(s)	Result(s)
i.	PM- Particulate Matter	mg/Nm³	25.3
ii.	Sulphur Dioxide (as SO2)	ppm	236
iii.	Oxides of Nitrogen (as NOx)	ppm	152

Pankaj Baroi

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

- Results reported are valid at the time of and under the prevailing conditions of measurement.
- Results refer only to the particular parameters tested.
- This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Recognised By
PCB, Assam & MSPCB, Meghalaya

Digboi Stores Building, New Market
Digboi, Assam – 786 171
Ph: 03751-264414, 9435008657, 8876028672
E-mail: envirocon@rediffmail.com
Website: www.envirocon.net.in



Report No. : ENV/SSFAPL/SE/2019-20/02-02
Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001
Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang; P. O.: Seinduly
Dist: West Khasi Hills
Meghalaya - 793119

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	SSFAPL/SE/2020/02-02	
02	Date of Sampling	11.02.2020	
03	Stack Attached To	Ferro Alloy Stack No. 1	
04	Stack Height (meter)	34	
05	Stack Diameter (meter)	1.8	
06	Flue Gas Temperature (°C)	178	
07	Exit Velocity of Gas (m/sec)	13.2	
08	Fuel Used	Coal	
Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Unit(s)	Result(s)
i.	PM- Particulate Matter	mg/Nm³	45.2
ii.	Sulphur Dioxide (as SO2)	ppm	82
iii.	Oxides of Nitrogen (as NOx)	ppm	171

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No. : ENV/SSFAPL/WW/2019-20/02-01

Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001

Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang, P. O.: Seinduly

Dist.: West Khasi Hills

Meghalaya - 793119

ETP WATER ANALYSIS RESULTS

Sample Ref. No. : SSFAPL/19-20/WW-02/01

Sample Source : ETP Outlet

Sample Type : Treated Effluent

Collected On : 12-02-2020

Received On : 14-02-2020

Collected By : ENVIROCON Representative

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.6	5.5 – 9.0
02	Temperature	°C	24.3	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	23	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	15	30
05	Chemical Oxygen Demand	mg/l	51	250
06	Oil & Grease	mg/l	0.23	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	3.6	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	9.2	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

Pankaj Baroi

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No. : ENV/SSFAPL/RW/2019-20/02-01
Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001
Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang; P. O.: Seinduly
Dist.: West Khasi Hills
Meghalaya - 793119

RAW WATER ANALYSIS RESULTS

Sample Ref. No. : SSFAPL/19-20/RW-02/01
Collected On : 12-02-2020

Sample Source : Bore-well
Received On : 14-02-2020

Sample Type : Ground/Raw Water
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Desirable Limit (IS:11100:2012)
01	Colour, Hazen Units, Max	<1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.09	1.0
05	pH	7.1	6.5 – 8.5
06	Total Dissolved Solids, mg/l, Max	136	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	35	75
10	Chloride (as Cl), mg/l, Max	36	250
11	Copper (as Cu), mg/l, Max	ND	0.11
12	Fluorides (as F), mg/l, Max	0.11	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	0.051	0.3
15	Magnesium (as Mg), mg/l, Max	5.3	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO ₃), mg/l, Max	3.6	45
19	Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max	ND	0.001
20	Sulfate (as SO ₄), mg/l, Max	26	200
21	Total Alkalinity (as CaCO ₃), mg/l, Max	86	200
22	Total Hardness, (as CaCO ₃), mg/l, Max	41	200
23	Cyanide (as CN), mg/l, Max	ND	0.11
24	Lead (as Pb), mg/l, Max	ND	0.01
25	Total Arsenic (as As), mg/l, Max	ND	0.01
26	Total Chromium, (as Cr), mg/l, Max	ND	0.11
27	Total Coliform, MPN/100 ml	Absent	10 Max
28	Faecal Coliforms/ 100 ml	Absent	Absent
29	E. Coli / 100 ml	Absent	Absent

Analysis Protocol: IS 3025

ND: Not Detected

Pankaj Baroi

Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No. : ENV/SSFAPL/WW/2019-20/02-01

Date : 26/02/2020

Order No. : SSFAPL/ENV/SEP/19-20/001

Date : 01/09/2019

SHREE SHAKAMBARI FERRO ALLOYS PVT. LTD.

Village: Rwiang; P. O.: Seinduly

Dist.: West Khasi Hills

Meghalaya - 793119

ETP WATER ANALYSIS RESULTS

Sample Ref. No. : SSFAPL/19-20/WW-02/01

Sample Source : ETP Outlet

Sample Type : Treated Effluent

Collected On : 12-02-2020

Received On : 14-02-2020

Collected By : ENVIROCON Representative

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	pH	--	6.6	5.5 – 9.0
02	Temperature	°C	24.3	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	23	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	15	30
05	Chemical Oxygen Demand	mg/l	51	250
06	Oil & Grease	mg/l	0.23	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	3.6	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	9.2	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

Pankaj Baroi

Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

INVOICE

ENVIROCON

Digboi Stores Building, A.O.D. New Market
Digboi, Assam, 786171.

E-mail: envirocon@rediffmail.com

GSTIN: 18AAAE1179P1ZC

PAN No: AAAAE1179P

8876028672, 9435008657

- ☐ ORIGINAL FOR RECEIPT
☐ FOR SUPPLIER/TRANSPORT
☐ TRIPLICATE FOR ISSUER/SUPPLIER

Invoice No: IN-2361-23

Invoice Date: 24-08-2020

P.O No.: SSFAPL/ENV/SEP/19-20/001

P.O Date: 01-09-2019

Billed To:

**Shree Shakambari Ferro Alloys
Private Limited**

Village-Riwang, B.P.O-Seindully, Near-Riangdo,
via-Nongstoin
West Khasi Hills, Meghalaya
Postal Code: 793119
GSTIN: 17AAICS8677G1ZQ

SR.No	PRODUCT/SERVICE	QTY	RATE	AMOUNT	CGST	SGST	IGST	TOTAL
1	Ambient Air Quality Test SAC 998346	1	5000 Amt: ₹5000	5000	0	0	900	5900
2	Stack Emission Test SAC 998346	2	4000 Amt: ₹8000	8000	0	0	1440	9440
3	Noise Level Measurement SAC 998346	1	1500 Amt: ₹1500	1500	0	0	270	1770
4	Raw Water/Ground Water Analysis SAC 998346	1	3500 Amt: ₹3500	3500	0	0	630	4130
5	Effluent Water Analysis SAC 998346	1	2500 Amt: ₹2500	2500	0	0	450	2950
6	Surface Water Analysis SAC 998346	1	2500 Amt: ₹2500	2500	0	0	450	2950

Total Amount Before Tax : ₹ 23000

Less: DISCOUNT : ₹0

Add: CGST :

Add: SGST :

Add: IGST : ₹4140

Total Amount After Tax (Round Off): ₹ 27140

Total Payment Received : ₹ 0

Total Payment Due : ₹ 27140

Bank Details

Bank	Indian Bank	A/c No.	466080918
Branch	Digboi	IFSC Code	IDIB000D022

Total Amount in Words: Rupees Twenty Seven Thousands One Hundred Forty Only

GST Payable on Reverse Charge :

Terms and Conditions

1. Payment to be made within 15 days from the receipt of the bill.

2. All disputes are subject to Tinsukia Jurisdiction.

Certified that the particulars given above are true and correct

AUTHORIZED SIGNATORY

**PANKAJ
BAROI**

Digitally signed by PANKAJ BAROI
DN: c=IN, o=ENVIROCON,
ou=ADMINISTRATIVE,
postalCode=786171, st=Assam,
serialNumber=c6f8afb8b1951347e205
a54e7279fd806ca5fd72dc2fed42f8656
dfaa972299b, cn=PANKAJ BAROI
Date: 2020.08.24 13:19:23 +05'30'

SHREE SHAKAMBARI FERRO ALLOYS (P) LTD. RIWIANG MEGHALAYA

IN HOUSE WATER ANALYSIS REPORT(RIWIANG, WEST KHASIHILLS)

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
06-03-2020	RIVER WATER BRIDGE SIDE	6.8	20	12	0	16
	RIVER WATER DAMP SIDE	6.8	20	12	0	16
	ETP INLET WATER	6	80	36	0	8
	ETP OUTLET WATER	9	35	30	12	32
	NEUTRALISATION PIT WATER	7.8	42	26	0	0
	CULVERT DRAIN WATER	7	380	38	2	12

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
14-03-2020	RIVER WATER BRIDGE SIDE	6.8	30	12	0	12
	RIVER WATER DAMP SIDE	6.8	30	12	0	12
	ETP INLET WATER	6	80	38	6	18
	ETP OUTLET WATER	8.8	28	33	8	22
	NEUTRALISATION PIT WATER	8	40	26	0	0
	CULVERT DRAIN WATER	6.5	110	40	2	12
DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
25-03-2020	RIVER WATER BRIDGE SIDE	7	40	14	0	14
	RIVER WATER DAMP SIDE	7	40	14	0	14
	ETP INLET WATER	6.8	90	42	4	20
	ETP OUTLET WATER	7.8	30	32	8	14
	NEUTRALISATION PIT WATER	8.2	60	28	0	0
	CULVERT DRAIN WATER	6.5	500	56	0	20

[Handwritten Signature]

[Handwritten Signature]



SHREE SHAKAMBARI FERRO ALLOYS (P) LTD. RIWIANG MEGHALAYA**IN HOUSE WATER ANALYSIS REPORT(RIWIANG, WEST KHASIHILLS)**

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
04-02-2020	RIVER WATER BRIDGE SIDE	7	20	12	0	14
	RIVER WATER DAMP SIDE	7	20	12	0	14
	ETP INLET WATER	5.5	110	50	0	8
	ETP OUTLET WATER	8.5	10	28	10	68
	NEUTRALISATION PIT WATER	7.8	30	20	0	0
	CULVERT DRAIN WATER	6.5	500	56	0	20

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
16-02-2020	RIVER WATER BRIDGE SIDE	7	30	12	0	12
	RIVER WATER DAMP SIDE	7	30	12	0	12
	ETP INLET WATER	6.5	100	40	0	8
	ETP OUTLET WATER	9	12	32	12	70
	NEUTRALISATION PIT WATER	7.5	90	28	0	0
	CULVERT DRAIN WATER	7.5	420	60	4	18

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
26-02-2020	RIVER WATER BRIDGE SIDE	6.5	30	12	0	8
	RIVER WATER DAMP SIDE	6.5	30	12	0	8
	ETP INLET WATER	5.8	90	52	0	10
	ETP OUTLET WATER	8.8	23	35	8	22
	NEUTRALISATION PIT WATER	8	30	22	0	0
	CULVERT DRAIN WATER	7.8	410	40	0	14



SHREE SHAKAMBARI FERRO ALLOYS (P) LTD. RIWIANG MEGHALAYA

IN HOUSE WATER ANALYSIS REPORT(RIWIANG, WEST KHASIHILLS)

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
01-01-2020	RIVER WATER BRIDGE SIDE	7	30	14	0	14
	RIVER WATER DAMP SIDE	7	30	14	0	14
	ETP INLET WATER	6.5	80	50	0	10
	ETP OUTLET WATER	9	40	35	10	30
	NEUTRALISATION PIT WATER	7.8	36	24	0	0
	CULVERT DRAIN WATER	7.5	590	110	8	20

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
10-01-2020	RIVER WATER BRIDGE SIDE	7	30	14	0	14
	RIVER WATER DAMP SIDE	7	30	14	0	14
	ETP INLET WATER	6.5	80	50	0	10
	ETP OUTLET WATER	9	80	42	10	30
	NEUTRALISATION PIT WATER	7.8	36	24	0	0
	CULVERT DRAIN WATER	7.5	590	110	8	20

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
18-01-2020	RIVER WATER BRIDGE SIDE	7	30	14	0	12
	RIVER WATER DAMP SIDE	7	30	14	0	12
	ETP INLET WATER	6.8	90	48	0	8
	ETP OUTLET WATER	9	30	40	10	30
	NEUTRALISATION PIT WATER	8	30	22	0	0
	CULVERT DRAIN WATER	7.5	480	80	6	20

DATE	SAMPLE COLLECTED FROM	PH	TDS	TH	P-ALK	M-ALK
26-01-2020	RIVER WATER BRIDGE SIDE	6.8	30	12	0	12
	RIVER WATER DAMP SIDE	6.8	30	12	0	12
	ETP INLET WATER	6.5	100	42	0	8
	ETP OUTLET WATER	9	42	38	8	30
	NEUTRALISATION PIT WATER	7.5	30	26	0	0
	CULVERT DRAIN WATER	8	390	80	6	18

[Handwritten Signature]



STATUS OF COMMITMENTS MADE IN THE PUBLIC HEARING MEETING AS ON 31.10.2020

SL. NO	COMMITMENTS	STATUS	REMARKS
A. Pollution Control Measures: (Construction Phase)			
1	Project authority will initiate control measure like covering construction material stacks, debris etc during construction phase.	complied	Construction Phase is over. Plant are on operation
2	Excavated earth will be utilized to fill up low-lying areas, the rubbish will be cleared and all inbuilt surfaces reinstated.	complied	Construction Phase is over. Plant are on operation
3	Water sprinkling will be done on regular basis and all vehicles will have valid pollution check certificate and transport the material in covered form.	complied	Construction Phase is over. Plant are on operation
4	Temporary houses along with canteen and toilet facilities will be provided to construction workers.	complied	Construction Phase is over. Plant are on operation
5	Noise prone activities will be restricted during night (10 pm to 6 am) and on site workers will be provided ear muffs.	complied	Construction Phase is over. Plant are on operation
6	It is proposed to utilize maximum rain water from the stored reservoir. Water for washing & sanitary requirement will be meet out from the Riwang river/stored rain water. The drinking water will be purchased from outside to minimize the impact on the surface water quality	complied	Construction Phase is over. Plant are on operation
7	During Construction Phase contaminate runoff from storage will be captured in the ditches / ponds with an oil trap on the outlet instead of free flow.	complied	Construction Phase is over. Plant are on operation
8	Debris and bitumen waste remaining after black top works, will be cleaned and disposed off in a safe place. An area of approximately 2000 sq. ft will be kept for storage of the waste and this area will be covered by tin sheets.	complied	Construction Phase is over. Plant are on operation
9	All loose soil etc will be provided with retaining wall of suitable height to prevent mixing with surface water during rain.	complied	Construction Phase is over. Plant are on operation
10	Clean drinking water will be provided to all workers.	complied	Construction Phase is over. Plant are on operation
11	Guarding all parts of dangerous machineries.	complied	Construction Phase is over. Plant are on operation
12	Adequate light for working during night.	complied	Construction Phase is over. Plant are on operation
13	Provision of protective equipment like helmet, ear muff etc	complied	Construction Phase is over. Plant are on operation
B. Pollution Control Measures: (Operation Phase)			
a. Air Pollution Control Measures			
1	Bag filters will be installed at Raw Material Storage, raw	Complied	Already installed

Shree Shakambari Ferro Alloys Pvt. Ltd.

Amif Sharma
Authorised Signatory

			employment of local people is more than 200 nos.
16	The Company will also take up Rural Employment, Construction of Bus Shelters & Community Hall, Educational Activities, Literacy Campaign, Rain Water Harvesting, Medical Assistance, Eradication of Child Labour, Library, Sports and Cultural Facilities in the area in consultation with local Darbar and within the budget earmarked.	Complied	A Community hall has already been constructed for the local village. Health Camps, Sports & Cultural Programmed, Medical Assistance are being taken up through Local Dorbar, Different NGOS. The Six Monthly Development Activities Plan & Achievement is submitted herewith separately.
17	The Company will contribute to improve/ encourage Education, Health & Hygiene, Promotion of cultural and social welfare activities etc.	Will be complied	

Shree Shakambari Ferro Alloys Pvt. Ltd.

Amif Sharma

Authorised Signatory