



SHRI SHYAM ISPAT (INDIA) PVT. LTD.

SPONGE IRON DIVISION

Village: Taraimal, P.O.: Gerwani, District: Raigarh (C.G.) 496 001

Telefax : 07762 – 229728 / 29

Email : shrishyamispot@yahoo.in

SSIPL/RGH/21-22/27

13.12.2021

To,

The Scientist ``C``

Integrated Regional Office,

Aranya Bhawan, North Block,

Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh

E-mail: iroraipur@gmail.com

Subject : Submission of six monthly compliance report of EC granted to our company.

Dear Sir,

Please find attached herewith the six monthly compliance report of EC granted to our company for the period of April 2021 to September 2021.

Thanking you.

For M/s Shri Shyam Ispat (India) Private Limited,

(Rakesh Kesharwani)
Authorized Signatory

Encls : A/a

Compliance status to the conditions as stipulated vide EC **J-11011/161/ 2009-II (I)** dated:
15.09.2009

SR. NO.	CONDITIONS	COMPLIANCE REPORT
Specific Conditions		
1.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Sponge Iron kilns with WHRB based power plant are equipped Electrostatic Precipitators and bag filters. Power Plant [FBC based] is also equipped with Electrostatic Precipitators; while induction furnace unit is equipped with bag filter. All the air pollution equipments are designed to achieve particulate matter emission level below 50 mg/ Nm ³ . For measure of emission from stack we have installed continuous emission monitoring system and the data collected is being uploaded continuously as per protocol.
2.	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP More leaving out into the atmosphere through ID fan and stack. Electrostatic precipitator (ESP) shall be provided to FBC boiler power plant to control the particulate emissions below 100 mg/Nm ³ and the cleaned gases shall be let out to atmosphere through a stack of adequate height. Dust suppression system like fog type and mist water spray system shall be provided to beneficiation plant. The SPM levels from all the sources shall be controlled within 50 mg/Nm ³ as proposed.	All Sponge Iron kilns are equipped with WHRB based power plant for generation of 6 MW Power. DRI kilns and FBC based boiler are equipped with ESP and bag filter; which are designed to achieve PM emission level below 50 mg/ Nm ³ . The monitoring report of all stacks is enclosed as Annexure-1 . Water sprinkling system is installed for control fugitive emission.
3.	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression system with water sprinklers shall be provided at raw material handling, unloading and storage areas. Dust extraction system with bag filters shall be provided at kiln inlet and outlet, material transfer points, coal crushing , char & coal screening , cooler discharge and product separation areas. All the roads in the work area shall be asphalted. Monitoring of fugitive emissions in the work zone environment shall be carried out regularly as per the CPCB guidelines and reports submitted to CECB / CPCB and Ministry's Regional Office at Bhopal.	Following measured are adopted to minimize fugitive emissions: 1. Cooler discharge, Products house, Intermediate bins and Crusher/ Stock House is equipped with Bag Filters. 2. All the conveyors belts are covered throughout length. 3. Internal road are tar/Cemented. 4. Regular Water sprinkling. 5. Above all good housekeeping condition will be maintained all the time. The fugitive emission monitoring report is enclosed 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 emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	Agreed and complying. For control of fugitive emission the following measures are adopted: a. All the internal Roads are tar/Cemented. b. All the conveyors are covered through GI sheets. c. Coal crusher is equipped with Bag filter. d. Ash silos are equipped with Bag filter.

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		<p>e. Water sprinklers are installed at coal storage, coal crushing, conveying system and internal roads.</p> <p>f. 01 no. of Water Tanker is engaged in watering.</p> <p>We are maintaining good housekeeping condition in operational plant always.</p>
5.	<p>Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product. Water sprinkling system shall be installed to control fugitive emissions from vehicular movement. Vehicular emissions shall be regularly monitored.</p>	<p>Agreed and complying.</p> <p>For control of emissions due to vehicles we had installed Water spraying system and a Water Tanker is continuously engaged for suppression of dust in the plant premises.</p>
6.	<p>Total water requirement from Gerwani Nallah should not exceed 875 m3/day as per the permission accorded vide letter dated 11th May, 2009. Closed circuit cooling system shall be adopted. Acidic and alkaline effluent from DM plant along with boiler blow down shall be neutralized in a neutralization tank, mixed with cooling tower blow down in a Central Monitoring Basin (CMB) and used for dust suppression, ash conditioning, green belt development and various other project related activities after passing through an oil separator to remove the oil content in the effluent. Domestic effluents shall be treated in septic tank followed by a soak pit and used as manure for green belt development.</p>	<p>Agreed. Total water requirement for plant operation is about 785 KL/day.</p> <p>Boiler Blow down, is alkaline in nature and neutralized in neutralization tank and stored in Central Monitoring basin.</p> <p>The cooling tower Blow down is neutral in nature but contains high suspended solids to it has been passes through pressure sand filters and Transfer to final holding tank.</p> <p>All the Treated effluent (Boiler Blow down + Cooling tower effluent) has recycled for ash conditioning/dust suppression/in green belt development as per requirement.</p> <p>Septic Tanks and Soak pits are provided for domestic effluent treatment. Any effluent remains after soak pits has utilized for horticulture purpose.</p>
7.	<p>Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises</p>	<p>We always maintain Zero discharge condition in the plant.</p>
8.	<p>The water consumption shall not exceed 16 m3/Ton of Steel as per prescribed standard.</p>	<p>Agreed and complying.</p>
9.	<p>Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhopal , CPCB and CECB.</p>	<p>There is no SLF.</p> <p>Ground water analysis report is enclosed as Annexure-3.</p>
10.	<p>DRI kiln shall be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process. All the char and dolochar from the existing and proposed DRI plant shall be utilized in the AFBC boiler of power plant and no char shall be disposed off anywhere else. Accretion slag from DRI shall be used for road construction. Wet scrapper sludge from DRI plant shall be given to brick manufacturers for further utilization. All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. Used oil, oily waste, spent lubricants and lead acid batteries shall be provided to authorize recyclers/re-processors.</p>	<p>All Sponge Iron kilns are equipped with WHRB based power plant.</p> <p>Solid waste management plan is maintained as given below:</p> <ol style="list-style-type: none"> 1.Ash from DRI & Power Plant is used in own brick manufacturing as well as given to other brick manufacturers. 2.Char/Dolo Char is Used in FBC boiler as fuel. 3. Wet scrapper sludge is used in brick manufacturing. 4. Kiln Accretion slag is used in road construction inside the plant premises.

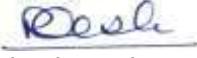
SR. NO.	CONDITIONS	COMPLIANCE REPORT						
11.	A time bound action plan shall be submitted to reduce solid waste , its proper utilization and disposal.	<p>Solid waste management plan is maintained as given below:</p> <p>1.Ash from DRI & Power Plant is used in own brick manufacturing as well as given to other brick manufacturers.</p> <p>2.Char/Dolo Char is Used in FBC boiler as fuel.</p> <p>3. Wet scrapper sludge is used in brick manufacturing.</p> <p>4. Kiln Accretion slag is used in road construction inside the plant premises.</p> <p>Hence complying the condition stipulated by the Honorable Ministry.</p>						
12.	Proper handling , storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.	<p>End use of solid waste is as below:</p> <table border="1" data-bbox="838 601 1473 938"> <tr> <td data-bbox="838 601 1044 725">Sponge Iron + WHRB Boiler</td><td data-bbox="1044 601 1473 725">Char/ dolochar is being utilized as fuel in FBC based boiler for generation of power</td></tr> <tr> <td data-bbox="838 725 1044 803">Furnace Slag</td><td data-bbox="1044 725 1473 803">Given to nearby slag crushing units.</td></tr> <tr> <td data-bbox="838 803 1044 938">Power Plant [FBC based]</td><td data-bbox="1044 803 1473 938">Utilized for in house brick manufacturing as well as given to other brick manufacturers.</td></tr> </table> <p>The toxicity report of slag is enclosed as Annexure-4.</p>	Sponge Iron + WHRB Boiler	Char/ dolochar is being utilized as fuel in FBC based boiler for generation of power	Furnace Slag	Given to nearby slag crushing units.	Power Plant [FBC based]	Utilized for in house brick manufacturing as well as given to other brick manufacturers.
Sponge Iron + WHRB Boiler	Char/ dolochar is being utilized as fuel in FBC based boiler for generation of power							
Furnace Slag	Given to nearby slag crushing units.							
Power Plant [FBC based]	Utilized for in house brick manufacturing as well as given to other brick manufacturers.							
13.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding ' shall be submitted to the Ministry's Regional Office at Bhopal within 3 months.	Ash from Power Plant is used in own brick manufacturing as well as given to other brick manufacturers. A copy of agreement with Brick Manufacturer is enclosed as Annexure-5 .						
14.	As proposed, green belt shall be developed in 24 acres (33%) out of total 70 acre area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	<p>We are maintaining good Greenery in and around plant premises, with total green area of more than 23 acres which is ≈33% to total available land.</p> <p>As on date we have planted approx. 24585 Nos. of trees and Shrubs with average width of 15 - 25 meters. The photographs of Plantation is enclosed as Annexure-6 & third party verification report of Plantation is enclosed as Annexure-7.</p>						
15.	Permission and recommendations of the State Forest Department regarding impact of the proposed plant on the surrounding Taraimal Reserve Forest shall be obtained and recommendations, if any, shall be implemented.	Not applicable.						
16.	The recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	<p>Agreed and complying.</p> <p>We are following the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector 7 the same is enclosed as Annexure-8.</p>						
17.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking , mobile toilets , mobile STP, safe drinking water , medical health care ,	Agreed.						

SR. NO.	CONDITIONS	COMPLIANCE REPORT
	creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
General Condition		
1.	Project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Agreed and complying.
2.	No. Further expansion or modifications in the plant Should be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
3.	Gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Continuous emission monitoring system has been installed and data is being uploaded as to CPCB and CECB sites as per protocol. The continuous monitoring report of stacks is enclosed as Annexure-9 .
4.	Least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NOx are anticipated in consultation with the CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB / CPCB once in six months.	Continuous ambient air quality-monitoring station has been installed and monitoring is being done. The report of ambient air quality-monitoring is enclosed as Annexure-10 .
5.	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.	Closed cooling circuit has been implemented in Sponge Iron, Induction Furnace Units and Rolling Mill; so there is no industrial effluent generation. Neutralization tank and settling tanks are constructed for treatment of industrial effluent generated from power plant. the treated effluent is being utilized for ash conditioning, horticulture and dust suppression within premises. Domestic effluent is being treated through septic tanks followed by soak pits and no effluent remains after soak pits for further disposal. Hence the ZERO discharge condition is being maintained. The monitoring report of effluent is enclosed as Annexure-11 .
6.	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 ,	Noise from plant is mainly confined to working zones only. The noise monitoring report at different locations of the plant is enclosed as Annexure-12 .

SR. NO.	CONDITIONS	COMPLIANCE REPORT
	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).	
7.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Agreed and complying and health records are maintained. The Medical report of employee is enclosed as Annexure-13 .
8.	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.	Rain water harvesting pond has already been constructed for this purpose. The Photograph of Rain water harvesting pond is enclosed as Annexure-14 .
9.	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.	Agreed. The work and amount spent in this regard is enclosed as Annexure-15 .
10.	As proposed, Rs. 4.00 Crores and Rs. 0.20 Crores 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 Bhopal. The funds so provided should not be diverted for any other purpose.	Agreed. The details towards capital cost and recurring cost/annum for environment pollution control measures is enclosed as Annexure-16 .
11.	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.	Agreed and complied.
12.	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, the respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , 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.	Agreed and complied.
13.	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	Agreed and assure you that we will submit the compliance status to your kind office within the stipulated time frame.

SR. NO.	CONDITIONS	COMPLIANCE REPORT
	(both in hard copies as well as by e-mail) to the Regional Office of MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the CECB. The Regional Office of this Ministry at Bhopal / CPCB / CECB shall monitor the stipulated conditions.	
14.	The environmental statement for each financial year ending 31 st 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 amended subsequently, shall also be put on 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.	Environmental statement for the year 2020-21 is enclosed as Annexure-17 .
15.	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 CECB 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.	News paper cutting regarding this is enclosed as Annexure-18 .
16.	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.	Agreed.

Shri Shyam Ispat (India) Pvt. Limited,


(Rakesh Kesharwani)
HOD-EMD

Encl: a/a.



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaep.com • Website : www.eaep.com

EAEP/ST/SSIPL/2021-22/032/1

Date: 5.07.2021

Issued to : M/s Shri Shyam Ispat (India) Pvt. Ltd.
 Village - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chattisgarh), Pin - 496001

Stack Emission Monitoring Report

SL. NO.	PARAMETERS	Unit	Stack -1 (2x100 TPD Sponge Iron Kilns)
1	Date of Sampling	-	18.06.2021
2	Stack Attached to	-	Kiln 1 & 2
3	Diameter of Stack	meter	1.8
4	Height of Stack	meter	45
5	Temp. of exit gas	° C	156
6	Velocity of exit gas	m/sec	9.97
7	Flow of exit gas at stack temp. & Press.	m ³ /hr	91287.71
8	Flow of exit gas at NTP	Nm ³ /hr	60241.38
9	SPM	mg/Nm ³	48.8
10	Total dust emission	kg/hr	2.94

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory



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EAEP/ST/SSIPL/2021-22/032/2

Date: 5.07.2021

Issued to

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 Village - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chhattisgarh), Pin - 496001

Stack Emission Monitoring Report

SL. NO.	PARAMETERS	Unit	Stack-2 (2x100 TPD Sponge Iron Kilns)
1	Date of Sampling	-	19.06.2021
2	Stack Attached to	-	Kiln 3 & 4
3	Diameter of Stack	meter	1.8
4	Height of Stack	meter	53
5	Temp. of exit gas	° C	154
6	Velocity of exit gas	m/sec	9.60
7	Flow of exit gas at stack temp. & Press.	m³/hr	87899.90
8	Flow of exit gas at NTP	Nm³/hr	58277.43
9	SPM	mg/Nm³	47.3
10	Total dust emission	kg/hr	2.76

For Enviro Analysts & Engineers Pvt. Ltd.

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EAEPL/ST/SSIPL/2021-22/032/3

Date: 5.07.2021

Issued to : M/s Shri Shyam Ispat (India) Pvt. Ltd.
 Village - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chattisgarh), Pin - 496001

Stack Emission Monitoring Report

SL. NO.	PARAMETERS	Unit	12 MW AFBC Power plant Stack No. 3
1	Date of Sampling	-	19.06.2021
2	Diameter of Stack	meter	2.3
3	Height of Stack	meter	61
4	Temp. of exit gas	0 C	121
5	Velocity of exit gas	m/sec	10.34
6	Flow of exit gas at stack temp. & Press.	m3/hr	154578.24
7	Flow of exit gas at NTP	Nm3/hr	112237.93
8	PM	mg/Nm3	26.6
9	SO2	mg/Nm3	251.7
10	NOx	mg/Nm3	162.3

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,
 Telefax : 0712 - 2241 836

Pune Branch:
 Flat No. 11,
 Tarankit Co. Op. Hsg. Soc. Ltd.,
 City S. No. 209, B/1, Sadashiv Peth,
 L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,
 Pune - 411 030.
 Tel. : 020-2432 4444

Lab :
 Row House No. 2, Shalom Garden,
 Opp. Kanakia College,
 100 Feet Kanakia Road,
 Mira Road (East), Thane - 401 107.
 Tel. : 022-2811 6442

Workshop :
 Plot No. E - 122,
 MIDC Tarapur,
 Boisar,
 Dist. - Thane - 401 506.





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EAEPL/ST/SEPL/2021-22/032/4

Date: 5.07.2021

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: M/s Shri Shyam Ispat (India) Pvt. Ltd.
 Village - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chhattisgarh), Pin - 496001

Stack Emission Monitoring Report

SL. NO.	PARAMETERS	Unit	Stack-4 (1x100 TPD Sponge Iron Kilns)
1	Date of Sampling	-	20.06.2021
2	Stack Attached to	-	Kiln 5
3	Diameter of Stack	meter	2.3
4	Height of Stack	meter	45
5	Temp. of exit gas	° C	152
6	Velocity of exit gas	m/sec	8.35
7	Flow of exit gas at stack temp. & Press.	m ³ /hr	124828.66
8	Flow of exit gas at NTP	Nm ³ /hr	87526.92
9	SPM	mg/Nm ³	46.4
10	Total dust emission	kg/hr	4.06

For Enviro Analysts & Engineers Pvt. Ltd.

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 Village - Taraimal , Post - Gerwani ,
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Sample Particulars : Fugitive Dust Emission

Duration of Sampling : 8hrly

TEST REPORT

Sr. No.	LOCATION	Date of sampling	PM $\mu\text{g}/\text{m}^3$
1.	Near Kiln Area	19.06.2021	794
2.	Near ESP DRI	19.06.2021	666
3.	Near Coal Circuit of Power Plant	19.06.2021	720
4.	Near Product House	19.06.2021	632
CPCB Standards			1200

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EAEPL/GW/SSIPL/2021-22/032

Date: 5.07.2021

ISSUED TO:
M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars: Ground water Near fly Ash Dump Area

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 2 ltr	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
1	pH Value at 28°C	-	IS : 3025 (Part 11)-1983	6.5 to 8.5	No relaxation	8.10
2	Turbidity NTU	NTU	IS : 3025 (Part 10)-1984	1	5	1.2
3	Apparent Colour	Hazen units	IS : 3025 (Part 4)-1983	5	15	2.5
4	Odour	-	IS : 3025 (Part 5)-1983	Agreeable	Agreeable	Agreeable
5	Taste	-	IS : 3025 (Part 8)-1984	Agreeable	Agreeable	
6	Total Dissolved Solids (TDS)	mg / l	IS : 3025 (Part 16)-1984	500	2000	752
7	Fluoride (as F)	mg / l	IS : 3025 1964	1.0	1.5	1.0
8	Chlorides (as Cl)	mg / l	IS : 3025 (Part 32)-1988	250	1000	41.3
9	Total Alkalinity (as CaCO ₃)	mg / l	IS : 3025 (Part 23)-1986	200	600	252
10	Total Hardness as (CaCO ₃)	mg / l	IS : 3025 (Part 21)-1983	200	600	374
11	Calcium (as Ca)	mg / l	IS : 3025 (Part 40)-1991	75	200	82.5
12	Magnesium (as Mg)	mg / l	IS : 3025 (Part 46)-1994	30	100	40.8
13	Sulphate (as SO ₄)	mg / l	IS : 3025 (Part 24)-1986	200	400	36.2
14	Nitrates (as NO ₃)	mg / l	IS : 3025 (Part 34)-1988	45	100	3.570
15	Total Iron (as Fe)	mg / l	IS : 3025 (Part -II)-2004	0.3	1.0	0.25
16	Cyanide	mg / l	IS 3025 : 1986 (Part 27)	0.05	No relaxation	< 0.005
17	Copper (as Cu)	mg / l	IS : 3025 (Part II)-2004	0.05	1.5	< 0.03
18	Manganese (as Mn)	mg / l	IS : 3025 (Part II)-2004	0.1	0.3	0.030
19	Mercury (as Hg)	mg / l	IS : 3025 (Part II)-2004	0.001	No relaxation	< 0.0005

For Enviro Analysts & Engineers Pvt. Ltd.

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Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,

Pune Branch:
 Flat No. 11,
 Tarankit Co. Op. Hsg. Soc. Ltd.,
 City S. No. 209, B/1, Sadashiv Peth,
 L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,

Lab :
 Row House No. 2, Shalom Garden,
 Opp. Kanakia College,
 100 Feet Kanakia Road,
 Mira Road (East), Thane - 401 107.

Workshop :
 Plot No. E - 122,
 MIDC Tarapur,
 Boisar,
 Dist. - Thane - 401 506.





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Page 2 of 2

EAEPL/GW/SEPL/2021-22/032

Date: 5.07.2021

ISSUED TO:
M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars: Ground water Near fly Ash Dump Area

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 2 ltr	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
20	Cadmium (as Cd)	mg / l	IS : 3025 (Part II)-2004	0.003	No relaxation	< 0.001
21	Selenium (as Se)	mg / l	IS : 3025 (Part II)-2004	0.01	No relaxation	< 0.001
22	Arsenic (as As)	mg / l	IS : 3025 (Part II)-2004	0.01	0.05	< 0.01
23	Lead (as Pb)	mg / l	IS : 3025 (Part II)-2004	0.05	No relaxation	< 0.001
24	Zinc (as Zn)	mg / l	IS : 3025 (Part II)-2004	5	15	1.78
25	Total Chromium (as Cr)	mg / l	IS : 3025 (Part II)-2004	0.05	No relaxation	< 0.01
26	Aluminum as (Al)	mg / l	IS : 3025 (Part II)-2004	0.03	0.2	0.01
27	Boron as (B)	mg / l	IS : 3025 (Part II)-2004	1	5	0.37
28	Mineral Oil	ppm	IS 3025 (Part 39)-1991	0.05	No relaxation	< 0.001
29	Phenolic Compounds	ppm	IS : 3025 (Part 43):1992	0.001	0.002	< 0.001
30	Residual Chlorine	ppm	IS : 3025 (Part 26)-1986	Min.0.2	1.0	Nil
31	E. coli	CFU/100ml	IS : 1622-1981	Absent	Absent	Absent
32	Total Coliform	MPN/100 ml	IS : 1622-1981	Absent	Absent	Absent

Note: 1. Results relate to tested sample only. 2. Test report should not be reproduced partially.

REMARKS: Based upon request of the party, sample was tested for above mentioned parameters only. As per IS: 10500:2012, for test nos. 6, 9, 10, 11 & 12 sample exceeds acceptable limits. However, the results are within Maximum Permissible limits, indicating that with respect to the tested parameters, it can be used for drinking purpose in absence of an alternate source.

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,

Pune Branch:
 Flat No. 11,
 Tarankit Co. Op. Hsg. Soc. Ltd.,
 City S. No. 209, B/1, Sadashiv Peth,
 L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,

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 MIDC Tarapur,
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 Dist. - Thane - 401 506.





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Page 1 of 2

EAEPL/GW/SEPL/2021-22/032/1

Date: 5.07.2021

ISSUED TO:

M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin - 496001

Sample Particulars: Ground water Near Weigh Bridge

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 2 ltr	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
1	pH Value at 28°C	-	IS : 3025 (Part 11)-1983	6.5 to 8.5	No relaxation	7.70
2	Turbidity NTU	NTU	IS : 3025 (Part 10)-1984	1	5	0.5
3	Apparent Colour	Hazen units	IS : 3025 (Part 4)-1983	5	15	1.0
4	Odour	-	IS : 3025 (Part 5)-1983	Agreeable	Agreeable	Agreeable
5	Taste	-	IS : 3025 (Part 8)-1984	Agreeable	Agreeable	
6	Total Dissolved Solids (TDS)	mg / l	IS : 3025 (Part 16)-1984	500	2000	620
7	Fluoride (as F)	mg / l	IS : 3025 1964	1.0	1.5	0.90
8	Chlorides (as Cl)	mg / l	IS : 3025 (Part 32)-1988	250	1000	17.2
9	Total Alkalinity (as CaCO ₃)	mg / l	IS : 3025 (Part 23)-1986	200	600	202
10	Total Hardness as (CaCO ₃)	mg / l	IS : 3025 (Part 21)-1983	200	600	296
11	Calcium (as Ca)	mg / l	IS : 3025 (Part 40)-1991	75	200	74.2
12	Magnesium (as Mg)	mg / l	IS : 3025 (Part 46)-1994	30	100	26.9
13	Sulphate (as SO ₄)	mg / l	IS : 3025 (Part 24)-1986	200	400	15.9
14	Nitrates (as NO ₃)	mg / l	IS : 3025 (Part 34)-1988	45	100	2.30
15	Total Iron (as Fe)	mg / l	IS : 3025 (Part -II)-2004	0.3	1.0	0.20
16	Cyanide	mg / l	IS 3025 : 1986 (Part 27)	0.05	No relaxation	< 0.005
17	Copper (as Cu)	mg / l	IS : 3025 (Part II)-2004	0.05	1.5	< 0.03
18	Manganese (as Mn)	mg / l	IS : 3025 (Part II)-2004	0.1	0.3	0.035
19	Mercury (as Hg)	mg / l	IS : 3025 (Part II)-2004	0.001	No relaxation	< 0.0005

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory



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Page 2 of 2

EAEP/GW/SEPL/2021-22/032/2

Date: 5.07.2021

ISSUED TO:
M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars: Ground water Near Weigh Bridge

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 2 ltr	Sampled by	: EAEP Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	As per IS : 10500 : 2012 (Drinking Water - Specification)		Results
				Acceptable Limit	Permissible Limit	
20	Cadmium (as Cd)	mg / l	IS : 3025 (Part II)-2004	0.003	No relaxation	< 0.001
21	Selenium (as Se)	mg / l	IS : 3025 (Part II)-2004	0.01	No relaxation	< 0.001
22	Arsenic (as As)	mg / l	IS : 3025 (Part II)-2004	0.01	0.05	< 0.01
23	Lead (as Pb)	mg / l	IS : 3025 (Part II)-2004	0.05	No relaxation	< 0.001
24	Zinc (as Zn)	mg / l	IS : 3025 (Part II)-2004	5	15	2.05
25	Total Chromium (as Cr)	mg / l	IS : 3025 (Part II)-2004	0.05	No relaxation	< 0.01
26	Aluminum as (Al)	mg / l	IS : 3025 (Part II)-2004	0.03	0.2	0.01
27	Boron as (B)	mg / l	IS : 3025 (Part II)-2004	1	5	0.30
28	Mineral Oil	ppm	IS 3025 (Part 39)-1991	0.05	No relaxation	< 0.001
29	Phenolic Compounds	ppm	IS : 3025 (Part 43):1992	0.001	0.002	< 0.001
30	Residual Chlorine	ppm	IS : 3025 (Part 26)-1986	Min.0.2	1.0	Nil
31	E. coli	CFU/100ml	IS : 1622-1981	Absent	Absent	Absent
32	Total Coliform	MPN/100 ml	IS : 1622-1981	Absent	Absent	Absent

Note: 1. Results relate to tested sample only. 2. Test report should not be reproduced partially.

REMARKS: Based upon request of the party, sample was tested for above mentioned parameters only. As per IS: 10500:2012, for test nos. 6, 9 & 10 sample exceeds acceptable limits. However, the results are within Maximum Permissible limits, indicating that with respect to the tested parameters, it can be used for drinking purpose in absence of an alternate source.

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,

Pune Branch:
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Page 1 of 2

ENV/SW/2021-22/032

Date: 05.07.2021

ISSUED TO:

M/s Shri Shyam Ispat (India) Pvt. Ltd.
 Gram - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars : Induction Furnace Slag

Sample Registration Date	: 18.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 1 kg	Analysis Completion Date	: 04.07.2021
Sample Type:	: Solid Waste	Sampled by	: EAEP Representative

Toxicity Characteristic Leaching Procedure (TCLP)

TEST RESULTS

Sr. No.	Parameter as per Class: A	Result (mg/kg)	Standards as per Schedule II of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
1	Arsenic	0.38	5.0
2	Barium	17.7	100.0
3	Cadmium	0.3	1.0
4	Chromium and Chromium III	1.3	5.0
5	Lead	1.15	5.0
6	Manganese	5.92	10.0
7	Mercury	0.11	0.2
8	Selenium	0.58	1.0
9	Silver	0.15	5.0
10	Ammonia	13.4	50
11	Cyanide	ND	20
12	Nitrate	61.2	1000
13	Sulphide as(H ₂ S)	0.77	5.0
14	1-1 Dichloroethylene	ND	0.7
15	1-2 Dichloroethane	ND	0.5
16	1-4 Dichlorobenzene	ND	7.5
17	2,4-5 Trichlorophenol	ND	400.0

N.D.: 0.1 ppm

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,
 Telefax : 0712 - 2241 836

Pune Branch:
 Flat No. 11,
 Tarankit Co. Op. Hsg. Soc. Ltd.,
 City S. No. 209, B/1, Sadashiv Peth,
 L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,
 Pune - 411 030.
 Tel. : 020-2432 4444

Lab :
 Row House No. 2, Shalom Garden,
 Opp. Kanakia College,
 100 Feet Kanakia Road,
 Mira Road (East), Thane - 401 107.
 Tel. : 022-2811 6442

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 Plot No. E - 122,
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ENV/SW/2021-21/032

Date: 5.07.2021

ISSUED TO:

M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars : Induction Furnace Slag

Sample Registration Date	: 18.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 1 kg	Analysis Completion Date	: 4.07.2021
Sample Type:	: Solid Waste	Sampled by	: EAEP Representative

**Toxicity Characteristic Leaching Procedure (TCLP)
TEST RESULTS**

Sr. No.	Parameter as per Class: A	Result (mg/kg)	Standards as per Schedule II of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
18	2,4,6- Trichlorophenol	ND	2.0
19	2,4 Dinitrotoluene	ND	0.13
20	Benzene	ND	0.5
21	Benzo (a) Pyrine	< 0.001	0.001
22	Antimony	0.57	15
23	Beryllium	0.13	0.75
24	Chromium (IV)	1.30	5.0
25	Cobalt	7.6	80.0
26	Copper	3.75	25
27	Molybdenum	16.33	350
28	Nickel	5.38	20.0
29	Thallium	1.15	7.0
30	Vanadium	1.26	24.0
31	Zinc	28.7	250
32	Fluoride	19.4	180
33	Polychlorinated biphenyls	ND	5.0

N.D.: 0.1 ppm

Note: 1. Results relate to tested sample only.

2. Test report should not be reproduced partially.

For Enviro Analysts & Engineers Pvt. Ltd.

REMARKS: Based upon request of party, sample was tested
for above mentioned parameters only.

Authorized Signatory

Nagpur Branch :
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Nagpur - 440 010.
Tel. : 0712 - 2241 835,
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Boisar,
Dist. - Thane - 401 506.





छत्तीसगढ़ CHHATTISGARH

X 391384

कर्तव्य

यह इकरारनामा आज दिनांक 29/12/2020 को प्रथम पक्षकार मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि. ग्राम तराईमाल जिला रायगढ़ (छ.ग.)की ओर से कारखाना प्रबंधक श्री भूपेन्द्र सिंह ठाकुर, अ.स्व.रेवतीरयण सिंह ठाकुर उम्र 41 वर्ष एवं द्वितीय पक्षकार मेसर्स बी.डी.फ्लाई एश ब्रिक्स ग्राम ग्राम—दौराभाटा तह. तमनार जिला रायगढ़ (छ.ग.)की ओर से प्रोपराइटर श्री भूपेन्द्र गुप्ता, आत्मज श्री सुखरु गुप्ता उम्र 36 वर्ष के बीच निम्नलिखित बिंदुओं पर निष्पादित किया गया :—

1 प्रथम पक्षकार के उद्योग के विद्युत उत्पादन से जनित फ्लाई एश को द्वितीय पक्षकार के फ्लाई एश ब्रिक्स प्लांट में प्रतिदिन लगभग 60 टन प्रदाय किया जाना है।

2 प्रथम पक्षकार द्वारा स्वयं के परिवहन व्यय पर द्वितीय पक्षकार को निरंतर फ्लाई एश की पूर्ति करेगा।

3 द्वितीय पक्षकार स्वयं उपयोग हेतु आवश्यक फ्लाई एश की पूर्ति प्रथम पक्षकार से ही करेगा।

4 द्वितीय पक्षकार द्वारा प्रथम पक्षकार से प्राप्त फ्लाई एश का उपयोग पर्यावरणीय नियमों का पालन करते हुए केवल ईंट निर्माण में किया जायेगा।

दोनों पक्षकारों के द्वारा दो साक्षियों के समक्ष आपसी सहमति प्रदान करते हुए हस्ताक्षर किया गया।

साक्षी गण
Subash Chandra Sahu

1 Subash Chandra Sahu
Dhimplapur Road
Raigarh

B. D. Palai
हस्ताक्षर
(प्रथम पक्षकार)

मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि.

2 *N. Mishra*
Naresh Mishra
Chattisgarh Nagar
Raigarh.

B. D. Palai
हस्ताक्षर
(द्वितीय पक्षकार)
मेसर्स बी.डी.फ्लाई एश ब्रिक्स
Raigarh (C.G.)

29 DEC 2020

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नरेश मिश्रा
कर्तवी सगढ़ (छ.ग.) CHHATTISGARH

दिल्ली-रायगढ़ (छ.ग.) 22 MAR 2021

इकरारनामा

यह इकरारनामा आज दिनांक 22/03/2021 को प्रथम पक्षकार मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि. ग्राम तराईमाल जिला रायगढ़ (छ.ग.) की ओर से कारखाना प्रबंधक श्री भूपेन्द्र सिंह ठाकुर, आत्मज स्व. रेवतीरमण सिंह ठाकुर उम्र 41 वर्ष एवं द्वितीय पक्षकार मेसर्स जी.एस.फ्लाई एश ब्रिक्स ग्राम जरईकेरा तह. तमनार जिला रायगढ़ (छ.ग.) की ओर से प्रोपराइटर श्री ज्ञानेश बेहेरा आत्मज श्री प्रदीप कुमार बेहेरा उम्र 28 वर्ष के बीच निम्नलिखित बिंदुओं पर निष्पादित किया गया :-

1 प्रथम पक्षकार के उद्योग के विद्युत उत्पादन से जनित फ्लाई एश को द्वितीय पक्षकार के फ्लाई एश ब्रिक्स प्लांट में प्रतिदिन लगभग 60 टन प्रदाय किया जाना है।

2 प्रथम पक्षकार द्वारा स्वयं के परिवहन व्यय पर द्वितीय पक्षकार को, निरंतर फ्लाई एश की पूर्ति करेगा।

3 द्वितीय पक्षकार स्वयं उपयोग हेतु आवश्यक फ्लाई एश की पूर्ति प्रथम पक्षकार से ही करेगा।

4 द्वितीय पक्षकार द्वारा प्रथम पक्षकार से प्राप्त फ्लाई एश का उपयोग पर्यावरणीय नियमों का पालन करते हुए केवल ईंट निर्माण में किया जायेगा।

दोनों पक्षकारों के द्वारा दो साक्षियों के समक्ष आपसी सहमति प्रदान करते हुए हस्ताक्षर किया गया।

साक्षी गण

1

नरेश मिश्रा

श्री अतरसुदा, रायगढ़

हस्ताक्षर
(प्रथम पक्षकार)

मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि.

2 दुर्घटनाकारी संस्था
की इट बॉक्स
रायगढ़

SIGNATURE ATTESTED

हस्ताक्षर
(द्वितीय पक्षकार)

Naresh Mishra मेसर्स जी.एस.फ्लाई एश ब्रिक्स
Nary Distt. Raigarh (C.G.)

22 MAR 2021

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रुला-रायगढ़ (छ.ग.)
22 MARCH 2021

इकरारनामा

रायगढ़ शासन

यह इकरारनामा आज दिनांक 22/03/2021 को प्रथम पक्षकार मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि. ग्राम तराईमाल जिला रायगढ़ (छ.ग.) की ओर से कारखाना प्रबंधक श्री भूपेन्द्र सिंह ठाकुर, आ. स्व.रेवतीरमण सिंह ठाकुर उम्र 41 वर्ष एवं द्वितीय पक्षकार मेसर्स कमला सिदार फ्लाई एश ब्रिक्स ग्राम- डोंगामहुआ, सतरंगा तह. तमनार जिला रायगढ़ (छ.ग.) की ओर से प्रोपराइटर श्रीमती कमला सिदार, पति श्री जगमोहन सिदार उम्र 35 वर्ष के बीच निम्नलिखित बिंदुओं पर निष्पादित किया गया :-

1 प्रथम पक्षकार के उद्योग के विद्युत उत्पादन से जनित फ्लाई एश को द्वितीय पक्षकार के फ्लाई एश ब्रिक्स प्लांट में प्रतिदिन लगभग 60 टन प्रदाय किया जाना है।

2 प्रथम पक्षकार द्वारा स्वयं के परिवहन व्यय पर द्वितीय पक्षकार को निरंतर फ्लाई एश की पूर्ति करेगा।

3 द्वितीय पक्षकार स्वयं उपयोग हेतु आवश्यक फ्लाई एश की पूर्ति प्रथम पक्षकार से ही करेगा।

4 द्वितीय पक्षकार द्वारा प्रथम पक्षकार से प्राप्त फ्लाई एश का उपयोग पर्यावरणीय नियमों का पालन करते हुए केवल ईट निर्माण में किया जायेगा।

दोनों पक्षकारों के द्वारा दो साक्षियों के समक्ष आपसी सहमति प्रदान करते हुए हस्ताक्षर किया गया।

साक्षी गण

1

Pragant Sehov

VII-Taraimal, Raigarh

(प्रथम पक्षकार)

SIGNATURE ATTESTED BY मेसर्स श्री श्याम इस्पात (इंडिया) प्रा.लि.

2

Krishna Murari Soni

Kelo Vihar Colony

Raigarh

Nareesh Mihir

RAIGARH DISTRICT CO. LTD.

क्रमांक 1461C

हस्ताक्षर

(द्वितीय पक्षकार)

मेसर्स कमला सिदार फ्लाई एश ब्रिक्स

22 MAR 2021



PLANTATION PHOTOGRAPHS OF M/s SHRI SHYAM ISPAT (INDIA) PVT. LTD. VILLAGE : TARAIMAL :: RAIGARH (C.G.)

**PHYSICAL VERIFICATION OF TREE PLANTATION IN
M/s Shyam Ispat (India) Pvt. Ltd.,
Taraimal Village, Raigarh (Chhattisgarh)
2021**



Evaluation & Verification Done By :

ARIF ALI

Rtd. Dy. CF. (SFS)

CONSULTANT

(ENVIRONMENT AND FOREST) RAIPUR

Mob. : 7440212827



ARIF ALI

Consultant Environment and Forest
K-6 Anupam Nagar, Raipur Chhattisgarh (492001)

Ref.No.- RPR/12/21

Date :- 21/10/2021

CERTIFICATE

This is to certify that M/s Shyam Ispat (India) Pvt. Ltd., Taraimal Village, Raigarh (Chhattisgarh) is spread over an area of 70"00 acre land for their sponge Iron, Steel & Power plant. In the premises Amla, Karanj, Mahauwa, Jamun, Neem, Korea was found with girth of 46-60 cms. During the last three years they have also planted Gulmohar, Cassia Semia, Ashoka, Peltaforum with average height 3' to 10' which is good & healthy. The total green cover is 24.00 acre which is 33% of the total area of the factory. The total no. of plants are approx 24585 nos. available inside the plant premises.


ARIF ALI 21.10.2021

RTD. Dy. CF. (SFS)
Consultant Env. & Forest
Raipur (C.G.)

प्रपत्र (अ)

वर्ष 2021 के मानसून सत्र में वृक्षारोपण की जानकारी

उद्योग / खदान का नाम, पता	वर्ष 2021 के मानसून में वृक्षारोपण का लक्ष्य एवं संख्या	वर्ष 2021 में प्रस्तावित लक्ष्य के विवर्ण प्राप्त संख्या	जीवित वृक्षों का प्रतिशत एवं संख्या	उद्योग / खदान में रोपित वृक्ष की प्रजाति	उद्योग / खदान के बाहर रोपित वृक्षों की प्रजाति	रिमार्क
उद्योग / खदान के बाहर लक्ष्य के अंदर लक्ष्य	उद्योग / खदान के बाहर लक्ष्य	उद्योग / खदान परिसर के अंदर प्राप्त लक्ष्य	उद्योग / खदान के बाहर प्राप्त लक्ष्य	उद्योग / खदान के अंदर जीवित वृक्ष प्रतिशत	उद्योग / खदान के बाहर जीवित वृक्ष प्रतिशत	
M/s Shyam Ispat India Pvt Ltd., Vill Taraimal, Raigarh (C.G.)	5000 वृक्ष	निरंक	5000 वृक्ष	निरंक	4500 वृक्ष	90 प्रतिशत
						गुलमोहर, पेल्टाफोरम, केसिया, सियामिया, नीम, जामुन, करंज इत्यादि

प्रपत्र (ब)

उद्योग द्वारा अब तक किए गए वृक्षारोपण की जानकारी

उद्योग / खदान का नाम व पता	उद्योग / खदान का कुल भूमि का क्षेत्रफल (एकड़)	उद्योग / खदान परिसर में वृक्षारोपण हेतु आरक्षित भूमि (एकड़)	अब तक किए गए ¹ वृक्षारोपण का क्षेत्र / संख्या	अब तक किए गए ¹ वृक्षारोपण का क्षेत्र कुल जीवित वृक्षों की संख्या एवं प्रतिशत	उद्योग / खदान में रोपित वृक्षों की प्रजाति	उद्योग / खदान परिसर के बाहर क्षेत्र का नाम संख्या / क्षेत्रफल
M/s Shyam Ispat India Pvt Ltd., Vill Taraimal, Raigarh (C.G.)	70	24	24 एकड़ / 27317 वृक्ष	24585 वृक्ष एवं 90 प्रतिशत	गुलमोहर, पेल्टाफोरम, केसिया सियामिया, नीम, जामुन, करंज इत्यादि	-
						21.10.21 S.M. Meraan Team ver. 1.0

**SPONGE IRON DIVISION**

Village: Taraimal, P.O.: Gerwani, District: Raigarh (C.G.) 496 001

Telefax : 07762 – 229728 / 29

Email : shrishyamispot@yahoo.in

CREP Implementation Report

The following are the Air emission Control Systems provided in the existing steel plant as per the CREP Guidelines of CPCB.

S. No	Name of Product	Air emission Control System provided
1.	Sponge Iron	
	(a) 2x50 TPD DRI Kiln	ESP (1 no.) & Bag Filter (3 nos.)
	(b) 2x100 TPD DRI Kiln	ESP (1 no.) & Bag Filter (3 nos.)
	(c) 1x100 TPD DRI Kiln	ESP (1 no.) & Bag Filter (2 no.)
2.	FBC based CPP 12 MW	ESP (1 no.) & Bag Filter (1 no.)
3.	Induction Furnace	
	(a) 2x6 MT	Bag Filter with Fume Extraction system & Suction Hood (1 no.)
	(b) 1x6 MT	Bag Filter with Fume Extraction system & Suction Hood (1 no.)

For M/s Shri Shyam Ispat (India) Private Limited,

(Rakesh Kesharwani)
Authorized Signatory

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/01/01 To Date: 2021/02/01

Report Name: Custom Report

Report Created by Shyamispal12 on 2021-02-02 13:23:04

Time	Stack_2_KIL N_3and4_1 00TPD- SO2_U	Stack_2_KIL N_3and4_1 00TPD- PM_U	Stack_1_KIL N_1and2_5 0TPD- SO2_U	Stack_1_KIL N_1and2_5 0TPD-PM_U	STACK_4_1 X100TPD_S PONGE_IRO N_KILN_KIL N_NO_5- PM_U	STACK_4_1 X100TPD_S PONGE_IRO N_KILN_KIL N_NO_5- SOx_U	STACK_3_1 2MW_AFBC- SO2_U	STACK_3_1 2MW_AFBC- NO2_U	STACK_3_1 2MW_AFBC- PM_U
2021-01-01	NA	NA	NA	NA	NA	NA	22.82	30.56	43.65
2021-01-02	26.32	39.41	25.35	41.08	22.56	0	22.76	30.02	44.03
2021-01-03	25.83	38.88	25.33	40.55	21.69	0	22.70	30.76	43.78
2021-01-04	26.51	39.1	25.61	40.77	22.81	0	22.64	30.65	43.95
2021-01-05	25.89	39.67	25.39	41.35	21.72	0	22.58	30.75	44.02
2021-01-06	25.63	39.31	25.46	40.98	21.26	0	22.52	30.85	44.08
2021-01-07	26.90	38.92	25.44	40.59	23.53	0	22.46	30.95	43.34
2021-01-08	25.70	39.5	25.45	41.17	21.51	0	22.40	31.05	42.60
2021-01-09	24.84	38.2	25.27	39.87	19.92	0	22.34	31.15	41.86
2021-01-10	25.98	38.61	25.32	40.28	21.92	0	22.28	31.25	41.12
2021-01-11	26.58	38.65	25.53	40.32	23.04	0	NA	NA	NA
2021-01-12	25.38	38.91	25.44	40.59	20.82	0	NA	NA	NA
2021-01-13	26.74	38.98	25.41	40.65	23.24	0	NA	NA	NA
2021-01-14	26.99	40.06	25.30	41.72	23.69	0	NA	NA	NA
2021-01-15	26.62	39.03	25.38	40.69	23.04	0	22.93	31.91	43.00
2021-01-16	25.44	39.73	25.28	41.40	21.00	0	22.45	31.67	43.70
2021-01-17	27.03	39.47	25.47	41.12	23.77	0	22.41	31.52	43.94
2021-01-18	25.93	39.27	25.34	40.92	21.85	0	21.89	31.06	43.22
2021-01-19	22.47	40.25	25.54	41.91	15.75	0	22.18	31.23	41.94
2021-01-20	NA	NA	NA	NA	NA	NA	21.43	30.48	41.94
2021-01-21	NA	NA	NA	NA	NA	NA	22.05	30.97	42.24
2021-01-22	27.07	23.26	25.18	24.84	24.34	0	22.03	30.87	44.12
2021-01-23	26.40	23.58	25.49	25.16	23.15	0	21.88	30.67	43.75
2021-01-24	27.98	23.81	25.29	25.39	25.77	0	21.53	30.28	42.66
2021-01-25	27.03	23.60	25.19	25.18	23.91	0	20.75	29.55	41.08
2021-01-26	26.08	23.76	25.22	25.46	24.63	0	20.54	29.33	41.88
2021-01-27	25.13	23.92	25.25	25.58	24.76	0	21.28	29.91	41.61
2021-01-28	24.18	24.08	25.28	25.71	24.89	0	21.47	30.03	42.66
2021-01-29	26.25	24.07	25.27	25.66	23.02	0	20.54	29.14	43.91
2021-01-30	NA	NA	NA	NA	NA	NA	21.1	29.6	44.02
2021-01-31	NA	NA	NA	NA	NA	NA	21.45	29.92	41.89
Prescribed Standards	0 -	0 - 50	0 -	0 - 50	0 - 100	0 -	0 -	0 -	0 - 150
Maximum Value	27.98	40.25	25.61	41.91	25.77	0	22.93	31.91	44.12
Maximum Value At Time	2021-01-24	2021-01-19	2021-01-04	2021-01-19	2021-01-24	2021-01-02	2021-01-15	2021-01-15	2021-01-22
Minimum Value	22.47	23.26	25.18	24.84	15.75	0	20.54	29.14	41.08
Minimum Value At Time	2021-01-19	2021-01-22	2021-01-22	2021-01-22	2021-01-19	2021-01-02	2021-01-26	2021-01-29	2021-01-25
Valid Data Points	26	26	26	26	26	26	27	27	27
Total Data Points	31	31	31	31	31	31	31	31	31
Data Availability %	83.87	83.87	83.87	83.87	83.87	83.87	87.10	87.10	87.10

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/02/01 To Date: 2021/03/01

Report Name: Custom Report

Report Created by Shyamispat12 on 2021-03-02 13:26:56

Time	Stack_2_KIL_N_3and4_10 0TPD-SO2_U	Stack_2_KIL_N_3and4_10 0TPD-PM_U	Stack_1_KIL_N_1and2_50 TPD-SO2_U	Stack_1_KIL_N_1and2_50 TPD-PM_U	STACK_4_1X 100TPD_SPO NGE_IRON_KILN_KILN_NO_5-PM_U	STACK_4_1X 100TPD_SPO NGE_IRON_KILN_KILN_NO_5-SOx_U	STACK_3_1 2MW_AFB C-SO2_U	STACK_3_1 12MW_AF BC-NO2_U	STACK_3_1 2MW_AFB C-PM_U
2021-02-01	27.05	23.14	25.38	24.73	44.29	0	21.24	29.63	40.8
2021-02-02	26.73	23.49	25.22	25.09	43.72	0	21.01	29.42	41.82
2021-02-03	25.96	23.65	25.42	25.23	42.33	0	20.72	29.12	42.83
2021-02-04	27.11	23.76	25.44	25.36	44.34	0	21.37	29.64	42.7
2021-02-05	25.36	23.29	24.23	24.88	41.35	0	20.65	29.02	42.01
2021-02-06	25.54	24.67	24.51	25.23	41.63	0	20.67	29.02	41.42
2021-02-07	25.24	24.82	24.31	25.29	41.10	0	20.68	28.98	42.6
2021-02-08	24.94	25.27	24.10	25.34	40.58	0	20.34	28.65	42.91
2021-02-09	24.64	25.73	23.89	25.40	40.05	0	21.03	29.23	43.44
2021-02-10	24.34	26.18	23.68	25.46	41.32	0	20.22	28.48	42.01
2021-02-11	19.02	38.30	23.55	39.97	42.12	0	19.84	28.17	41.44
2021-02-12	18.66	37.53	25.68	39.20	41.87	0	20.33	28.56	38.05
2021-02-13	21.38	38.44	25.89	41.11	42.15	0	19.83	28.11	40.06
2021-02-14	22.05	37.32	24.83	39.90	42.42	0	20.11	28.38	39.73
2021-02-15	23.23	37.55	24.62	39.97	42.70	0	20.11	28.34	40.69
2021-02-16	24.41	37.45	24.19	40.04	42.98	0	21.14	29.2	42.19
2021-02-17	25.59	37.34	23.77	40.11	43.26	0	21.54	29.54	42.51
2021-02-18	26.77	37.24	23.64	40.18	43.54	0	21.28	29.32	43.02
2021-02-19	14.23	38.04	26.27	39.72	43.81	0	20.82	28.95	41.51
2021-02-20	NA	NA	NA	NA	NA	NA	20.97	29.04	40.28
2021-02-21	NA	NA	NA	NA	NA	NA	20.31	28.5	43.29
2021-02-22	NA	NA	NA	NA	NA	NA	20.07	28.27	43.78
2021-02-23	NA	NA	NA	NA	NA	NA	20.28	28.44	44.08
2021-02-24	NA	NA	NA	NA	41.23	0	20.34	28.48	43.58
2021-02-25	NA	NA	NA	NA	42.55	0	20.24	28.4	43.97
2021-02-26	24.11	38.24	25.49	39.92	42.48	0	20.5	28.61	43.69
2021-02-27	22.48	37.86	25.35	39.52	45.69	0	20.98	29.06	42.61
2021-02-28	23.44	37.5	25.43	39.15	42.41	0	21.34	29.32	43.42
Prescribed Standards	0 -	0 - 50	0 -	0 - 50	0 - 100	0 -	0 -	0 -	0 - 150
Maximum Value	27.11	38.44	26.27	41.11	45.69	0	21.54	29.64	44.08
Maximum Value At Time	2021-02-04	2021-02-13	2021-02-19	2021-02-13	2021-02-27	2021-02-01	2021-02-17	2021-02-04	2021-02-23
Minimum Value	14.23	23.14	23.55	24.73	40.05	0	19.83	28.11	38.05
Minimum Value At Time	2021-02-19	2021-02-01	2021-02-11	2021-02-01	2021-02-09	2021-02-01	2021-02-13	2021-02-13	2021-02-12
Valid Data Points	22	22	22	22	24	24	28	28	28
Total Data Points	28	28	28	28	28	28	28	28	28
Data Availability %	78.57	78.57	78.57	78.57	85.71	85.71	100	100	100

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/03/01 To Date: 2021/04/01

Report Name: Custom Report

Report Created by Shyamispal12 on 2021-04-05 10:27:53

Time	Stack_2_KIL_N_3and4_1 00TPD-SO2_U	Stack_2_KIL_N_3and4_1 00TPD-PM_U	Stack_1_KIL_N_1and2_5 0TPD-SO2_U	Stack_1_KIL_N_1and2_5 0TPD-PM_U	STACK_4_1X 100TPD_SPO NGE_IRON_K ILN_KILN_NO 5-PM_U	STACK_4_1X 100TPD_SPO NGE_IRON_K ILN_KILN_NO 5-SOx_U	STACK_3_1 2MW_AFBC SO2_U	STACK_3_1 2MW_AFBC NO2_U	STACK_3_1 2MW_AFBC PM_U
2021-03-01	22.66	37.66	25.44	39.32	15.74	0	20.47	28.57	39.46
2021-03-02	22.19	37.73	25.42	39.38	14.95	0	20.23	28.37	42.05
2021-03-03	22.63	36.9	25.35	38.54	16.01	0	20.44	28.55	44.17
2021-03-04	23.94	38.06	25.7	39.7	18.23	0	20.91	29	43.58
2021-03-05	24.64	38.38	25.44	40.03	19.46	0	20.96	29.01	42.44
2021-03-06	24.16	37.97	25.13	39.62	18.59	0	20.37	28.47	42.73
2021-03-07	23.34	39.14	25.25	40.8	17.27	0	20.06	28.24	43.7
2021-03-08	22.24	37.92	25.6	39.57	15.7	0	20.05	28.21	44.6
2021-03-09	22.28	38.9	25.71	40.57	15.25	0	20.71	28.74	44.41
2021-03-10	24.28	36.25	25.19	37.88	19.06	0	20.43	28.51	45.17
2021-03-11	22.25	39.44	25.26	41.09	15.51	0	20.07	28.23	44.87
2021-03-12	23.58	41.87	25.28	43.54	17.8	0	20.26	28.39	43.63
2021-03-13	NA	NA	NA	NA	NA	NA	19.41	27.65	44.74
2021-03-14	21.64	23.84	25.45	25.39	14.5	0	19.65	27.85	44.26
2021-03-15	21.26	23.93	25.57	25.49	14.07	0	20.69	28.73	45.39
2021-03-16	22.47	30.12	25.32	31.71	15.87	0	20.03	28.19	44.84
2021-03-17	25.04	37.29	25.46	38.93	20.26	0	19.76	27.95	44.81
2021-03-18	23.88	37.13	25.04	38.77	18.28	0	19.63	27.86	44.87
2021-03-19	24.77	36.59	25.57	38.23	19.84	7.2	20.35	28.5	44.92
2021-03-20	23.83	36.32	25.54	37.97	18.45	12.78	18.93	27.05	44.81
2021-03-21	22.55	36.56	25.53	38.2	16.13	12.84	18.32	26.51	44.49
2021-03-22	22.85	36.58	25.35	38.22	16.69	12.64	17.87	26.14	44.47
2021-03-23	22.45	37.01	25.49	38.66	16.31	12.33	17.69	25.99	44.7
2021-03-24	24.13	36.3	25.63	37.94	19.52	11.87	18.32	26.51	44.38
2021-03-25	24.93	37.15	25.46	38.8	20.79	12.36	17.16	25.55	44.96
2021-03-26	24.56	35.9	25.71	37.54	20.15	12.56	NA	NA	NA
2021-03-27	21.9	35.74	25.9	37.38	15.52	12.64	NA	NA	NA
2021-03-28	23.25	35.97	25.57	37.6	17.75	12.29	NA	NA	NA
2021-03-29	22.39	36.79	25.61	38.44	16.19	13.13	17.88	26.29	45.08
2021-03-30	23.7	36.29	25.48	37.93	18.38	13.5	18.6	26.79	45.33
2021-03-31	24.55	36.96	25.69	38.62	20.05	12.71	18.59	26.81	45.05
Prescribed Standards	0 -	0 - 50	0 -	0 - 50	0 - 100	0 -	0 -	0 -	0 - 150
Maximum Value	25.04	41.87	25.9	43.54	20.79	13.5	20.96	29.01	45.39
Maximum Value At Time	2021-03-17	2021-03-12	2021-03-27	2021-03-12	2021-03-25	2021-03-30	2021-03-05	2021-03-05	2021-03-15
Minimum Value	21.26	23.84	25.04	25.39	14.07	0	17.16	25.55	39.46
Minimum Value At Time	2021-03-15	2021-03-14	2021-03-18	2021-03-14	2021-03-15	2021-03-01	2021-03-25	2021-03-25	2021-03-01
Valid Data Points	30	30	30	30	30	30	28	28	28
Total Data Points	31	31	31	31	31	31	31	31	31
Data Availability %	96.77	96.77	96.77	96.77	96.77	96.77	90.32	90.32	90.32

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/04/01 To Date: 2021/05/01

Report Name: Custom Report

Report Created by Shyamispat12 on 2021-10-27 13:28:50

Time	Stack_2_KI LN_3and4_100TPD-SO2_U	Stack_2_KI LN_3and4_100TPD-PM_U	Stack_1_KI LN_1and2_50TPD-SO2_U	Stack_1_KI LN_1and2_50TPD-PM_U	STACK_4_1 X100TPD_SPONGE_I_RON_KILN_KILN_NO_5-PM_U	STACK_4_1 X100TPD_SPONGE_I_RON_KILN_KILN_NO_5-PM_U	STACK_3_12MW_AF BC-SO2_U	STACK_3_12MW_AF BC-NO2_U	STACK_3_12MW_AF BC-PM_U
2021-04-01	24.32	38.32	25.68	39.98	19.39	12.97	18.49	26.7	44.2
2021-04-02	23.15	38.32	25.66	39.97	17.44	13.69	18.47	26.71	44.52
2021-04-03	25.51	39.41	25.72	41.07	21.52	12.88	18.84	27	44.35
2021-04-04	24.1	39.34	25.42	41	19.12	14.34	19.25	27.37	44.73
2021-04-05	25.69	38.87	25.43	40.53	21.88	14.11	18.47	26.72	42.74
2021-04-06	NA	NA	NA	NA	NA	NA	19.87	27.9	43.93
2021-04-07	NA	NA	NA	NA	NA	NA	20.33	28.26	45.93
2021-04-08	25.7	39.3	25.6	40.96	21.86	14.73	19.86	28.04	44.63
2021-04-09	25.75	39.04	25.65	40.7	21.8	14.37	19.7	27.74	43.52
2021-04-10	26.49	38.32	25.65	39.97	23.22	13.72	19.84	27.88	42.94
2021-04-11	23.82	39.34	25.76	41	18.4	14.25	20.64	28.59	42.58
2021-04-12	25.52	39.06	25.69	40.7	21.3	13.91	28.84	37.25	42.62
2021-04-13	25.89	47.85	25.59	49.59	21.88	13.95	31.64	40.29	43.9
2021-04-14	25.82	50.92	25.63	52.68	21.82	13.74	31.5	40.16	43.64
2021-04-15	25.85	52.73	25.57	54.56	21.87	14.42	32.07	40.69	40.43
2021-04-16	25.22	54.72	25.68	56.58	20.79	14.25	31.21	39.91	42.8
2021-04-17	26.05	54.73	25.65	56.58	22.14	14.81	31.35	40.06	43.27
2021-04-18	25.33	54.78	25.56	56.62	20.59	14.51	31.33	40.08	44.26
2021-04-19	26.5	36.71	25.54	38.36	23.06	13.87	NA	NA	NA
2021-04-20	25.01	23.98	25.47	25.53	20.76	14.35	NA	NA	NA
2021-04-21	25.92	24.14	25.69	25.69	22.3	14.86	NA	NA	NA
2021-04-22	26.58	24.35	25.6	25.89	23.49	14.19	31.73	40.4	41.6
2021-04-23	26.91	24.18	25.55	25.73	24.11	14.17	31.6	40.3	42.16
2021-04-24	27.95	24.15	25.39	25.69	25.9	14.02	31.24	39.96	41.66
2021-04-25	27.4	24.24	25.62	25.78	24.87	14.09	31.1	39.9	38.81
2021-04-26	28.91	24.17	25.5	25.71	27.63	13.72	30.39	39.25	40.84
2021-04-27	27.38	24.06	25.65	25.59	24.98	13.97	30.41	39.22	42.15
2021-04-28	27.55	24.2	25.56	25.74	25.09	13.98	30.42	39.21	39.61
2021-04-29	30.09	24.26	25.55	25.79	29.67	13.37	32	40.66	40.23
2021-04-30	30.05	24.13	25.48	25.66	29.65	14.11	NA	NA	NA
Prescribed Standards	0 -	0 - 50	0 -	0 - 50	0 - 100	0 -	0 -	0 -	0 - 150
Maximum Value	30.09	54.78	25.76	56.62	29.67	14.86	32.07	40.69	45.93
Maximum Value At Time	2021-04-29	2021-04-18	2021-04-11	2021-04-18	2021-04-29	2021-04-21	2021-04-15	2021-04-15	2021-04-07
Minimum Value	23.15	23.98	25.39	25.53	17.44	12.88	18.47	26.7	38.81
Minimum Value At Time	2021-04-02	2021-04-20	2021-04-24	2021-04-20	2021-04-02	2021-04-03	2021-04-02	2021-04-01	2021-04-25
Valid Data Points	28	28	28	28	28	28	26	26	26
Total Data Points	30	30	30	30	30	30	30	30	30
Data Availability %	93.33	93.33	93.33	93.33	93.33	93.33	86.67	86.67	86.67

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/05/01 To Date: 2021/06/01

Report Name: Custom Report

Report Created by Shyamispal12 on 2021-06-02 12:29:46

Online Pollution Monitoring Portal

Site Name: M/s Shri Shyam Ispat (India) Private Limited

From Date: 2021/06/01 To Date: 2021/07/01

Report Name: Custom Report

Report Created by Shyamispal12 on 2021-07-04 11:39:05

Time	Stack_2_KIL_N_3and4_1 00TPD-SO2_U	Stack_2_KIL_N_3and4_1 00TPD-PM_U	Stack_1_KIL_N_1and2_5 0TPD-SO2_U	Stack_1_KIL_N_1and2_5 0TPD-PM_U	STACK_4_1X1 00TPD_SPONG_E_IRON_KILN_KILN_NO_5-PM_U	STACK_4_1X1 00TPD_SPONG_E_IRON_KILN_KILN_NO_5-SOx_U	STACK_3_1 2MW_AFBC_SO2_U	STACK_3_1 2MW_AFBC_NO2_U	STACK_3_1 2MW_AFBC_PM_U
2021-06-01	15.65	44.74	25.47	43.51	46.43	13.57	18.99	27.29	39.82
2021-06-02	14.53	43.52	25.51	42.67	43.78	12.64	19.41	27.62	40.93
2021-06-03	14.68	45.27	25.55	43.49	42.86	13.85	18.96	27.27	44.21
2021-06-04	16.32	41.68	25.59	43.20	44.56	13.63	19.63	27.77	44.46
2021-06-05	15.84	41.95	25.63	43.19	42.78	13.77	19.66	27.84	44.57
2021-06-06	16.05	41.20	25.67	43.18	42.12	13.91	18.78	27.11	44.32
2021-06-07	16.27	40.46	25.71	43.17	41.47	14.05	19.04	27.31	45.08
2021-06-08	14.41	39.72	25.70	43.16	40.82	14.28	12.19	20.23	44.29
2021-06-09	15.19	30.80	25.62	32.21	40.16	13.65	11.02	19.14	43.12
2021-06-10	14.42	36.70	25.68	38.39	39.51	13.89	11.87	19.87	42.12
2021-06-11	14.51	36.52	25.65	38.21	38.86	13.03	11.88	19.86	42.11
2021-06-12	14.64	37.27	25.66	38.97	38.20	10.31	11.83	19.85	42.89
2021-06-13	14.14	35.99	25.58	37.70	37.55	0.01	11.29	19.43	43.39
2021-06-14	18.58	36.40	25.79	38.10	36.90	0	11.43	19.48	42.47
2021-06-15	24.45	36.93	25.49	38.63	36.25	0	12.29	20.22	41.05
2021-06-16	NA	NA	NA	NA	NA	NA	11.96	19.9	41.18
2021-06-17	NA	NA	NA	NA	NA	NA	11.87	19.89	41.84
2021-06-18	26.36	37.10	25.63	38.81	47.18	0	11.54	19.59	37.96
2021-06-19	24.09	36.71	25.60	38.42	40.27	0	11.53	19.56	38.98
2021-06-20	24.72	37.02	25.64	38.71	41.87	0	11.21	19.32	39.71
2021-06-21	25.50	38.42	25.65	40.11	44.03	0	11.89	19.92	41.05
2021-06-22	26.98	36.76	25.51	38.46	41.38	0	NA	NA	NA
2021-06-23	27.89	37.80	25.57	39.48	40.59	0	NA	NA	NA
2021-06-24	27.19	37.16	25.70	38.82	39.81	0	NA	NA	NA
2021-06-25	25.86	40.48	25.40	42.16	39.02	0	NA	NA	NA
2021-06-26	25.30	46.12	25.54	47.86	38.24	8.13	NA	NA	NA
2021-06-27	24.78	44.88	25.53	43.19	37.45	12.51	NA	NA	NA
2021-06-28	24.50	38.22	25.76	33.02	36.67	11.66	NA	NA	NA
2021-06-29	NA	NA	NA	NA	NA	NA	13.59	21.61	37.65
2021-06-30	NA	NA	NA	NA	NA	NA	12.73	20.97	37.94
Prescribed Standards	0 -	0 - 50	0 -	0 - 50	0 - 100	0 -	0 -	0 -	0 - 150
Maximum Value	27.89	46.12	25.79	47.86	47.18	14.28	19.66	27.84	45.08
Maximum Value At Time	2021-06-23	2021-06-26	2021-06-14	2021-06-26	2021-06-18	2021-06-08	2021-06-05	2021-06-05	2021-06-07
Minimum Value	14.14	0	25.4	32.21	36.25	0	11.02	19.14	37.65
Minimum Value At Time	2021-06-13	2021-06-08	2021-06-25	2021-06-09	2021-06-15	2021-06-14	2021-06-09	2021-06-09	2021-06-29
Valid Data Points	26	26	26	26	26	26	23	23	23
Total Data Points	30	30	30	30	30	30	30	30	30
Data Availability %	86.67	86.67	86.67	86.67	86.67	86.67	76.67	76.67	76.67



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaep.com • Website : www.eaep.com

EAEP/AA/SSIPL/2021-22/032

Date: 05.07.2021

Issued to : M/s Shri Shyam Ispat (India) Pvt. Ltd.
 Village - Taraimal , Post - Gerwani ,
 Dist - Raigarh (Chattisgarh), Pin - 496001

Sample Particulars : Ambient Air Quality

Duration of Sampling : 24hrly

TEST REPORT

Sr. No.	LOCATION	Date of sampling	PM 10 $\mu\text{g}/\text{m}^3$	PM 2.5 $\mu\text{g}/\text{m}^3$	SO ₂ $\mu\text{g}/\text{m}^3$	NO ₂ $\mu\text{g}/\text{m}^3$	CO mg/m^3
1.	North Direction- near Weigh Bridge	18.06.2021	83.8	41.8	10.5	33.4	0.312
2.	South Direction - near DG. Room	18.06.2021	90.7	45.2	18.4	39.7	0.568
3.	East Direction - near Admin Office	18.06.2021	80.4	39.6	10.2	31.0	0.282
4.	West Direction - near Boundary Wall	18.06.2021	86.6	44.0	15.4	35.8	0.490
CPCB Standards							
Industrial, Residential, Rural and other Area		100	60	80	80	2	

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaep.com • Website : www.eaep.com

EEAEP/WW/2021-22/032/1

Date: 5.07.2021

ISSUED TO:

M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal , Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars : DM Plant Effluent

Location of sample : Neutralization Pit DM Plant

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 1 ltr	Sampled by	: EAEPL Representative

TEST RESULTS

Sr. No.	Parameters	Measurement Unit	Method	Result
1	pH Value	-	IS : 3025 (Part 11)-1983	7.55 at 25°C
2	TSS	mg / l	IS : 3025 (Part 17) 1984	28
3	TDS	mg / l	IS : 3025 (Part 16)-1984	632
4	COD	mg / l	IS : 2488 (Part 5) -1976	44.9
5	BOD at 27°C for 3 days	mg / l	IS : 3025 (Part 44) -1993	4.8
6	Oil & Grease	mg / l	IS : 3025 (Part 39)-1991	< 4

For ENVIRO ANALYSTS & ENGINEERS PVT. LTD.

Authorized Signatory

Nagpur Branch :
 Shiv Kunj, Bunglow No. 65,
 Old Verma Layout, Ambazari,
 Nagpur - 440 010.
 Tel. : 0712 - 2241 835,
 Telefax : 0712 - 2241 836

Pune Branch:
 Flat No. 11,
 Tarankit Co. Op. Hsg. Soc. Ltd.,
 City S. No. 209, B/1, Sadashiv Peth,
 L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,
 Pune - 411 030.
 Tel. : 020-2432 4444

Lab :
 Row House No. 2, Shalom Garden,
 Opp. Kanakia College,
 100 Feet Kanakia Road,
 Mira Road (East), Thane - 401 107.
 Tel. : 022-2811 6442

Workshop :
 Plot No. E - 122,
 MIDC Tarapur,
 Boisar,
 Dist. - Thane - 401 506.





H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaep.com • Website : www.eaep.com

EAEP/WW/2021-22/032

Date: 5.07.2021

ISSUED TO:

M/s Shri Shyam Ispat (India) Pvt. Ltd.
Gram - Taraimal, Post - Gerwani ,
Dist - Raigarh (Chattisgarh), Pin – 496001

Sample Particulars : Cooling Tower Blow Down Water

Sample Collection Date	: 20.06.2021	Analysis Starting Date	: 21.06.2021
Quantity received	: 1 ltr	Sampled by	: EAEP Representative

TEST RESULTS

Sr. No.	Test Parameters	Unit	Method	Results
1	Free Available Chlorine	mg / l	IS : 3025 (Part 26)-1986	0.25
2	Zinc as (Zn)	mg / l	IS : 3025 (Part II)-2004	0.18
3	Total Chromium as (Cr)	mg / l	IS : 3025 (Part II)-2004	0.011
4	Phosphate as (PO4)	mg/l	IS : 3025 (Part 31)-1988	1.32

For **ENVIRO ANALYSTS & ENGINEERS PVT. LTD.**

Authorized Signatory



H. O. : B-1003, Enviro House, 10th Floor, Western Edge II, Western Express Highway, Borivali (E), Mumbai - 400 066.
 • Tel. : +91 22 2854 1647 / 48 / 49 / 67 / 68 • E-mail : info@eaep.com • Website : www.eaep.com

EAEPL/N/SSIPL/2021-22/032

Date: 5.07.2021

Issued to	:	M/s Shri Shyam Ispat (India) Pvt. Ltd. Village - Taraimal , Post - Gerwani , Dist - Raigarh (Chattisgarh), Pin - 496001
Sample Particulars	:	Noise Monitoring Report

Date of Sampling: 18.06.2021

SL. NO.	LOCATION	RESULT (dBA)	
		DAY	NIGHT
1	Near Rolling Mill	72.6	64.8
2	Near Main Gate	60.2	58.1
3	Near TG Building	73.9	68.8
4	Near DRI Kiln	68.4	62.5
	CPCB Standards		
	Industrial Area	75	70
	Residential Area	55	45

For Enviro Analysts & Engineers Pvt. Ltd.

Authorized Signatory

Nagpur Branch :
Shiv Kunj, Bunglow No. 65,
Old Verma Layout, Ambazari,
Nagpur - 440 010.
Tel. : 0712 - 2241 835,
Telefax : 0712 - 2241 836

Pune Branch:
Flat No. 11,
Tarankit Co. Op. Hsg. Soc. Ltd.,
City S. No. 209, B/1, Sadashiv Peth,
L. B. S. Road, Nr. Dnyaneshwar Mangal Hall,
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Tel. : 020-2432 4444

Lab :
Row House No. 2, Shalom Garden,
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100 Feet Kanakia Road,
Mira Road (East), Thane - 401 107.
Tel. : 022-2811 6442

Workshop :
Plot No. E - 122,
MIDC Tarapur,
Boisar,
Dist. - Thane - 401 506.





Natwar School, Beside Atithi Hotel, Civil Lines Road, RAIGARH (C.G.) : 7440533303, : 98261-20225

Lab No. : 1302012
 NAME : AJAY KUMAR JENA Age : 34 Years, Male
 Referred by : Dr. C/O SHRI SHYAM ISPAT(INDIA)PVT LTD

Reporting Date : 14-02-2021
 Sampling Date : 13-02-2021

Investigation	Result	Unit	Indication	Reference range
HAEMATOLOGY				
HEMOGLOBIN	14.7	gm/dl		13.0 - 17.0
<u>RBC INDICES</u>				
RBC COUNT	4.91	mill/cu.mm		4.5 - 5.5
Total W.B.C. Count	8800	Cells /Cu.mm		4000 - 10000
<u>Differential Leucocyte Count</u>				
NEUTROPHILS	63	%		40 - 80
LYMPHOCYTE	33	%		20-40
MONOCYTE	02	%		2-10
EOSINOPHILS	02	%		1 - 6
BASOPHILS	00	%		< 2
PLATELET COUNT	2.20	Lacs/cu.mm		1.5 - 4.1

METHOD : Test done by Sysmex XP-100 Automated Haematology Analyzer.

Dr. Hanish Kumar Chawda, MBBS, MD
 Pathologist, Olive Diagnostics, Raigarh

Checked By


Page : 2

Lab No.	: 1302012	Reporting Date	: 14-02-2021
NAME	: AJAY KUMAR JENA Age : 34 Years, Male		
Referred by	: Dr. C/O SHRI SHYAM ISPAT(INDIA)PVT LTD	Sampling Date	: 13-02-2021

Investigation	Result	Unit	Indication	Reference range
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URINE ANALYSIS

PHYSICAL EXAMINATION

COLOUR	PALE YELLOW
APPEARANCE	CLEAR
REACTION	ACIDIC

CHEMICAL EXAMINATION

SUGAR	NIL
ALBUMIN	NIL

MICROSCOPIC EXAMINATION

PUS CELLS	0--1	/ hpf
EPITHELIAL CELLS	0--1	/ hpf
RBCs	NIL	/ hpf
CAST	NIL	
CRYSTAL	NIL	
BACTERIA	NIL	

REMARK:

NOTE:- MICROSCOPIC EXAMINATION OF URINE IS PERFORMED BY CENTRIFUGED URINARY SEDIMENT.

METHOD : Test done by Siemens Clinitek Status+ Urine Analyzer.

Dr. Hanish Kumar Chawda, MBBS, MD
Pathologist, Olive Diagnostics, Raigarh

Checked By


Page : 3

Lab No. : 1302012 Reporting Date : 14-02-2021
 NAME : AJAY KUMAR JENA Age : 34 Years, Male
 Referred by : Dr. C/O SHRI SHYAM ISPAT(INDIA)PVT LTD Sampling Date : 13-02-2021

Investigation	Result	Unit	Indication	Reference range
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BIOCHEMISTRY

CHEM-7

FASTING BLOOD SUGAR	86	mg/dl	70 - 110
POST PRAND. BLOOD SUGAR (2 HR)	99	mg/dl	70 - 140
BLOOD UREA NITROGEN	9.55	mg/dl	6 - 21
SERUM CREATININE	1.01	mg/dl	0.6 - 1.4
URIC ACID	4.44	mg/dl	3.6 - 7.2
SGOT	17.53	U/L	UPTO 45
SGPT	34.52	IU/L	Upto 45
ALKALINE PHOSPHATASE	75.30	IU/L	58 - 331

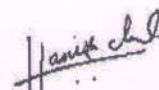
METHOD : Test done by Merilyzer Autoquant 100 Fully Automated Biochemistry Analyzer.

LIPID PROFILE

CHOLESTEROL	159	mg/dl.	Upto 200
TRIGLYCERIDES	136	mg/dl.	40 - 160
HDL	43.60	mg/dl.	35.5 - 79.5
LDL	88.20	mg/dl.	80 to 150

Reference Range :-

	Cholesterol	Triglyceride	Total : HDL Ratio
Desirable	Below 200	Below 200	Below 3.5
Borderline	200 to 250	200 to 400 with normal Cholesterol	3.5 to 5.5
High	250 to 300	200 to 400 with high Cholesterol	Above 5.5
Very High	Above 300	Above 400	





Page : 4

Lab No.	: 1302012	Reporting Date :	14-02-2021
NAME	: AJAY KUMAR JENA Age : 34 Years, Male	Sampling Date :	13-02-2021
Referred by	: Dr. C/O SHRI SHYAM ISPAT(INDIA)PVT LTD		

Investigation	Result	Unit	Indication	Reference range
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SEROLOGY

BLOOD GROUP	"A "
RH	POSITIVE

STOOL EXAMINATION

PHYSICAL EXAMINATION

CONSISTANCY	SEMI SOLID
COLOUR	BROWNISH
MUCUS	ABSENT
OVA	NIL
CYST	NIL
PUS CELL	NIL
C.B.C.	NIL
REMARK	NORMAL

Checked By

Hanish Chawda
Dr. Hanish Kumar Chawda, MBBS, MD
Pathologist, Olive Diagnostics, Raigarh



Natwar School, Beside Atithi Hotel, Civil Lines Road, RAIGARH (C.G.) : 7440533303, : 98261-20225

DATE 13/01/2021

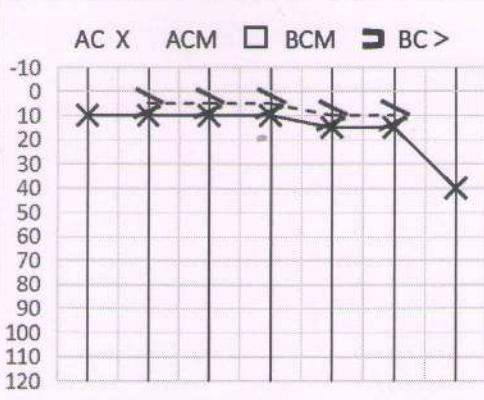
AUDIOMETER : AUDITIVO

NAME : AJAY KUMAR JENA

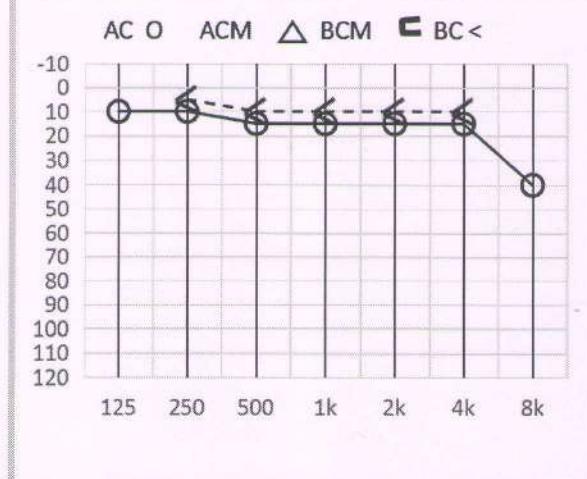
AGE / SEX 34/M

COMPANY SHRI SHYAM ISPAT PVT.LTD

EAR \ MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE
	MASKED	UNMAS	MASKED	UNMASKED	
LEFT	□	X	■	>	BLACK
RIGHT	△	O	■	<	BLACK
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS					



Frequency (Hz) LEFT



Frequency (Hz) RIGHT

dBHL	PTA - 1	PTA - 2
RIGHT EAR	15.00	
LEFT EAR	11.67	

TEST EAR	RINNE	WEBER	BING
RIGHT EAR			
LEFT EAR			

DIAGNOSIS : B/L HEARING SENSTIVITY WITHIN NORMAL LIMITS.
ABSENCE OF NOISE INDUCED HEARING LOSS.

DR. Mrinal Ray Chaudhuri
MBBS (Dai) AFIH
General Physician
No. CG.M. 3655/2011
2nd

MENSURAL HISTORY OBSTETRIC HISTROY
MENARCHE AT Yrs. GRAVIDA PARA
LMP :
MENSTRUAL IRREGULARITY, IF ANY

INVESTIGATIONS

(8) LAB INVESTIGATION :

URINE : ALBUMIN SUGAR
MICROSCOPY STOOL

HAEMOGRAM

Blood Group Rh. Factor Hb TLC /cumm RBC million./cumm.
DLC - P L E M B Platelets Count : Lakhs/cumm.....

Serum cholesterol :mg/dts/Triglycerides

HDL:mg/dl. LDL.....mg/dl.....mg/dl.....

HEPATIC PROFILE

SGPT:....IU/I SGOT :.....IU/I.
Alkaline Phosphatase :.....IU/I.

RENAL PROFILE

Blood Urea: S/Creatinine :

METABOLIC

Blood Sugar - F: Blood Sugar - PP : S/Uric acid :mg/dl

(9) OTHER INVESTIGATION :

X- Ray Chest (In normal persons once in three years.....

in case of any abnormality X ray can be done at shorter intervals)

ECG (in case of any abnormality further tests should be carried out)

Ultra sound whole abdomen (in normal persons once in three years in case of any abnormality can be done at shorter intervals)

Others :

(10) PULMONARY FUNCTION TEST

	FVC	FEV 1	FEV1/ FVC
Predicated			
Measured			
% of predicted			

Remarks :

(11) Audiometry examination :- PTA of both ears at frequency of 125, 250, 500, 1000, 2000, 4000, 8000 Cycles per second

(12) Medical examination of canteen staff

- a- Blood examination for venereal disease and routine blood examination
- b- Stool and urine examination for worm infection
- c- Screening for skin diseases (scabies and others)
- d- X-ray and other tests for T.B.

(13) Details of other specific medical examination carried out as mentioned in the respective schedules of Rule 107 of C.G. factory rules 1962 -

Human Capital Survey
DR. Mrinal Ray Chaudhuri
MNBS, (Kol) AFH
General Physician
Reg. No. CG.M.C. 385-2011

Signature (with date) of
Factory Medical Officer

Signature (with date) of
Certificate Surgeon

FORM 21

[Prescribed under Rule (19)]

Health Register

(In respect of persons employed in occupation declared to be dangerous operation under Section 87)

PRE-EMPLOYEMENT & PERIODIC MEDICAL EXAMINATION

Photo

Date:

13/02/21

Name:- Ajayakumar Jena	Age(Years) 34	Male / Female
Nature of Employment :	Employee No.: 120553	
DoJ - 28.02.21		
Department : Instrumentation CP.P.	Design - Instrument Engg.	
No. of working years:	Previous working:	Mobile No.: 9961590348
ESIC number: 5917527890,	Aadhar No.: 35821085 5688	

(1) GENERAL EXAMINATION

HEIGHT : 172 CM, WEIGHT: 72 KG, BMI:
 CHEST : INSPIRATION 92 CM, EXPIRATION 92 CM
 BUILT - AVERAGE/STRONG/POOR
 THROAT TONGUE TONSILS
 TEETH GUMS THYROID
 LYMPHNODES
 ADDITIONAL FINDINGS

(2) CARDIO-VASCULAR SYSTEM

PULSE REGULAR/IRREGULAR PERIPHERAL PULSE - FIRM/ NOT FIRM
 B.P. 120/80 Mm of Hg.
 HEART SOUND :
 MURMUR IF ANY :
 ADDITIONAL FINDING (S), IF ANY :

(3) RESPIRATORY SYSTEM :

SHAPE OF CHEST : *wc*
 CHEST MOVEMENTS :
 TRACHEA :
 BREATH SOUNDS : *mmp*

(4) GASTRO-INTESTINAL SYSTEM :

LIVER : SPLEEN :
 ANY ABDOMINAL LUMPS :

(5) EXAMINATION OF EYES :

EXTERANAL EXAM : SQUINT :
 NYSTAGMUS :
 COLOUR VISION - NORMAL/DEFECTIVE
 FUNDUS (L) (R) *(w)* INDIVIDUAL COLOUR IDENTIFICATION - NORMAL/DEFECTIVE
 DISTANT VISION (WITHOUT GLASSES)
 RIGHT LEFT
 (WITH GLASSES) RIGHT LEFT
 NEAR VISION (WITH GLASSES)
 RIGHT LEFT
 NIGHT BLINDNESS : (NYOTALOPIA) :

(6) EXAMINATION OF EAR, NOSE & THROAT :

EXTERNAL EXAM :

(7) GENITO URINARY SYSTEM :

HEANIA : HYDROCELE/VARICOCELE :
 CRYPTORCHIDISM PHIMOSIS
 VARICOSE VEINS SIGNS OF STD

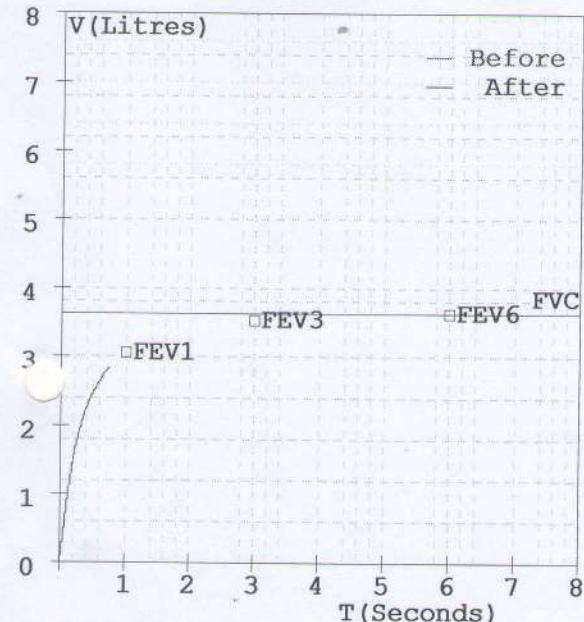
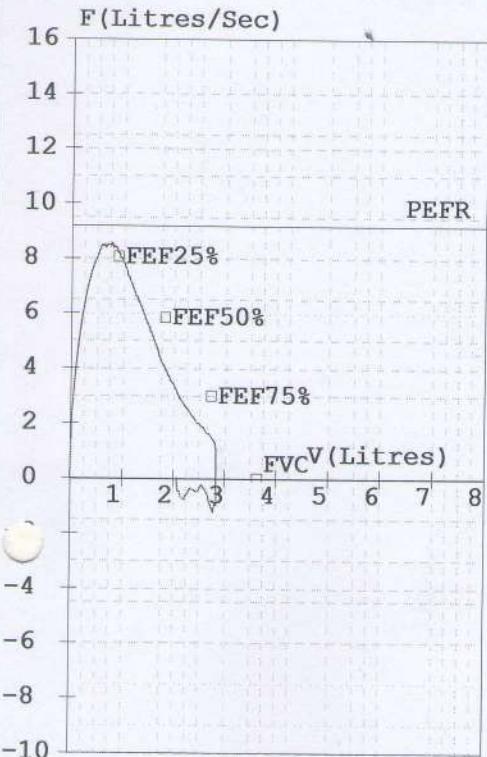
OTHER EXAMINATION FOR FEMALES:

OLIVE DIAGNOSTIC

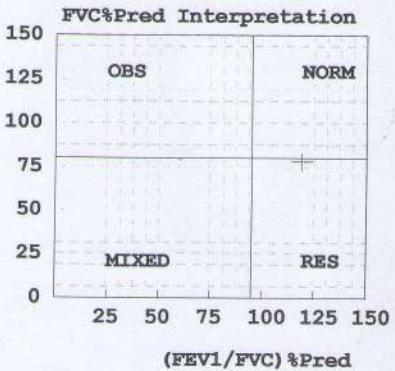
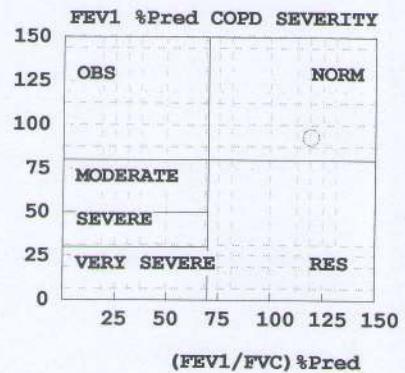
CIVIL LINE ATHITI HOTEL RAIGARH

Patient: AJAYA KUMAR JENA
 Refd. By: SHRI SHYAM ISPAT
 Pred.Eqns: IMPL
 Date : 13-02-2021 12:32 PM

Age : 34 Years Gender : Male
 Height : 172 Cms Smoker : No
 Weight : 72 Kgs Eth. Corr: 100
 ID: 4185 Temp : degrees



FVC Results					
Parameter	Pred	M.Bef%Pred	M.After%Pred	%Imp	
FVC (L)	03.63	02.84	078	-----	---
FEV1 (L)	03.04	02.84	093	-----	---
FEV1/FVC (%)	83.75	100.00	119	-----	---
FEF25-75 (L/s)	04.25	05.15	121	-----	---
PEFR (L/s)	09.20	08.51	092	-----	---
FIVC (L)	-----	00.76	---	-----	---
FEV.5 (L)	-----	02.47	---	-----	---
FEV3 (L)	03.52	02.84	081	-----	---
PIFR (L/s)	-----	01.26	---	-----	---
FEF75-85 (L/s)	-----	02.38	---	-----	---
FEF.2-1.2 (L/s)	07.40	07.56	102	-----	---
FEF 25% (L/s)	08.07	08.39	104	-----	---
FEF 50% (L/s)	05.85	05.87	100	-----	---
FEF 75% (L/s)	02.99	02.84	095	-----	---
FEV.5/FVC (%)	-----	86.97	---	-----	---
FEV3/FVC (%)	96.97	100.00	103	-----	---
FET (Sec)	-----	00.74	---	-----	---
ExplTime (Sec)	-----	00.08	---	-----	---
Lung Age (Yrs)	034	036	106	-----	---
FEV6 (L)	03.63	-----	-----	-----	---
FIF25% (L/s)	-----	08.04	---	-----	---
FIF50% (L/s)	-----	07.13	---	-----	---
FIF75% (L/s)	-----	06.32	---	-----	---



Before Test COPD Severity

Test within normal limits

Before Medication Report Indicates
 Mild Restriction as (FEV1/FVC) %Pred >95 and FVC%Pred <80

Dr. Minjal Ray Chaudhuri
 MBBS, (Kol) AFIH
 General Physician
 9810000000 / 9810000000



Name: Mr. Ajay Kumar Jena	Age: 34 Yrs	Sex: Male
Referred by: Shri Shyam Ispat		Date: 13.02.2021

USG ABDOMEN

Liver: Normal in size and echogenicity. No evidence of any intrahepatic biliary dilatation. Hepatic veins and intrahepatic IVC are normal. Portal vein appears normal. CBD appears normal.

Gall Bladder: Partially distended and normal in wall thickness.

Pancreas: Visualized part is normal in size and echogenicity.

Spleen: Normal in size and echogenicity.

Right Kidney: Normal in size and cortical echogenicity. The cortico-medullary differentiation is well maintained.

Left Kidney: Normal in size and cortical echogenicity. The cortico-medullary differentiation is well maintained.

Urinary Bladder: Partially distended.

Prostate: Normal in size and echogenicity.

No evidence of any free fluid is seen in the peritoneal cavity.

IMPRESSION:

- No significant abnormality detected.

Please correlate clinically & with other investigations.

Thanks for reference.

Dr. Mukesh Kumar Patel
DMRD, DNB

The science of radiological diagnosis is based on the interpretation of various shadows produced by both the normal and abnormal tissues and is not always conclusive. Further biochemical and radiological investigation and clinically correlation is required to enable the clinician to reach the final diagnosis. **The report and films are not valid for medico – legal purpose.** Reg. No. 4 P272042



Natwar School, Beside Atithi Hotel, Civil Lines Road, RAIGARH (C.G.) : 7440533303, : 98261-20225



Name: Mr. Ajay Kumar Jena	Age: 34 Yrs	Sex: Male
Referred by: Shri Shyam Ispat		Date: 13.02.2021

X-RAY CHEST PA VIEW

- Both the lung fields are clear.
- Both costophrenic angles are normal.
- Bilateral hila are normal.
- The cardiac shadow is within normal limits.
- The bony thorax is normal.

IMPRESSION:

- No significant abnormality detected.

Please correlate clinically & with other investigations.

Thanks for reference.

Dr. Mukesh Kumar Patel

DMRD, DNB

Dr. Mukesh Kumar Patel
MBBS, DMRD, DNB
Reg. No. 4127/2012

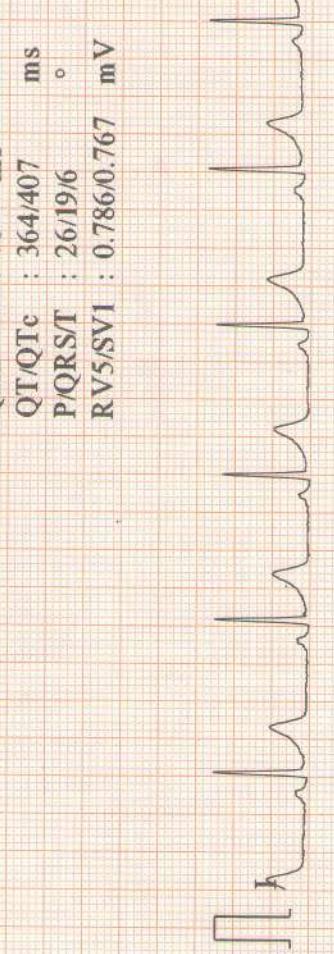
The science of radiological diagnosis is based on the interpretation of various shadows produced by both the normal and abnormal tissues and is not always conclusive. Further biochemical and radiological investigation and clinically correlation is required to enable the clinician to reach the final diagnosis. **The report and films are not valid for medico - legal purpose.**

ID: 8

13-02-2021 12:53:27 AM

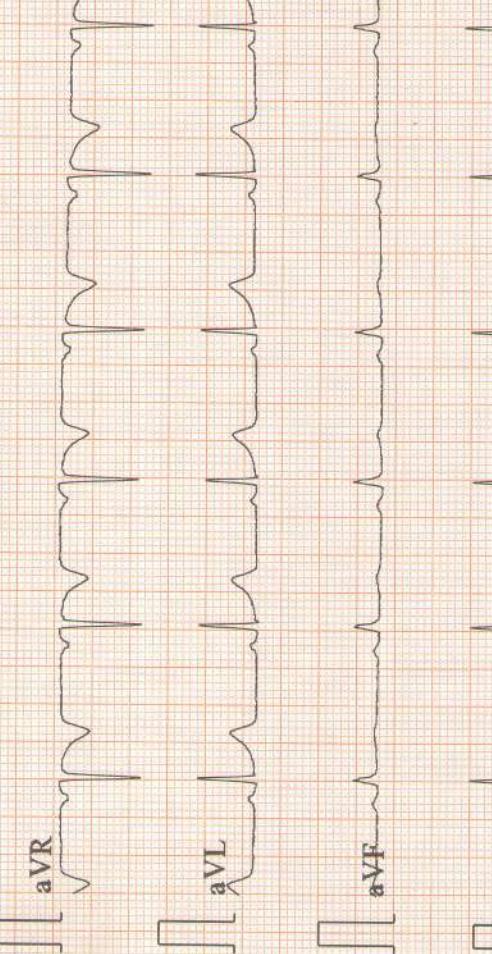
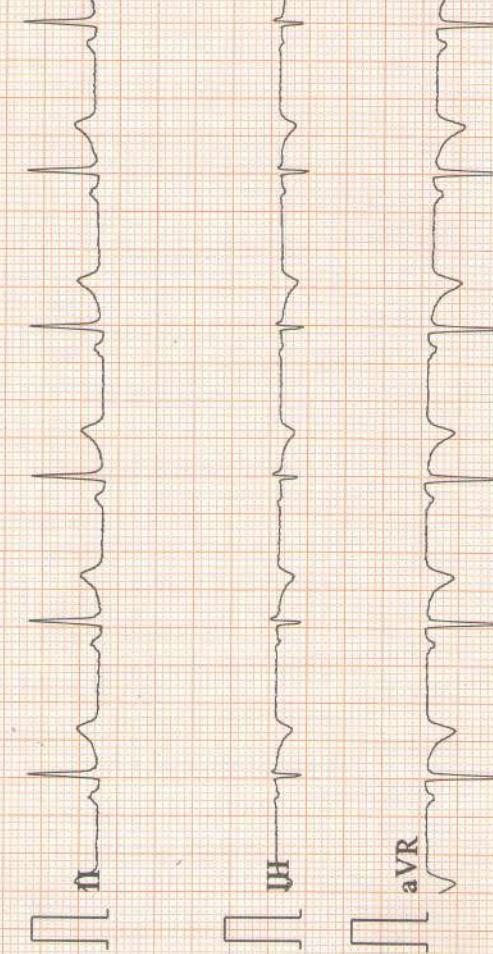
Diagnosis Information:

AJAY KUMAR JENA
Female 34 Years
HR : 75 bpm
P : 98 ms
PR : 132 ms
QRS : 78 ms
QT/QTc : 364/407 ms
P/QRS/T : 26/19/6 °
RV5/SV1 : 0.786/0.767 mV



*Dr. Minal Ray Chaudhuri
MUSA (Kol) AFIH
General Practitioner
no. CG.M.C. 3855201*

Ref-Phys. : SHRI SHYAM ISPAT
Report Confirmed by:
Raghu



Normal ECG

Sinus rhythm

Report Confirmed by:

Ref-Phys. : SHRI SHYAM ISPAT

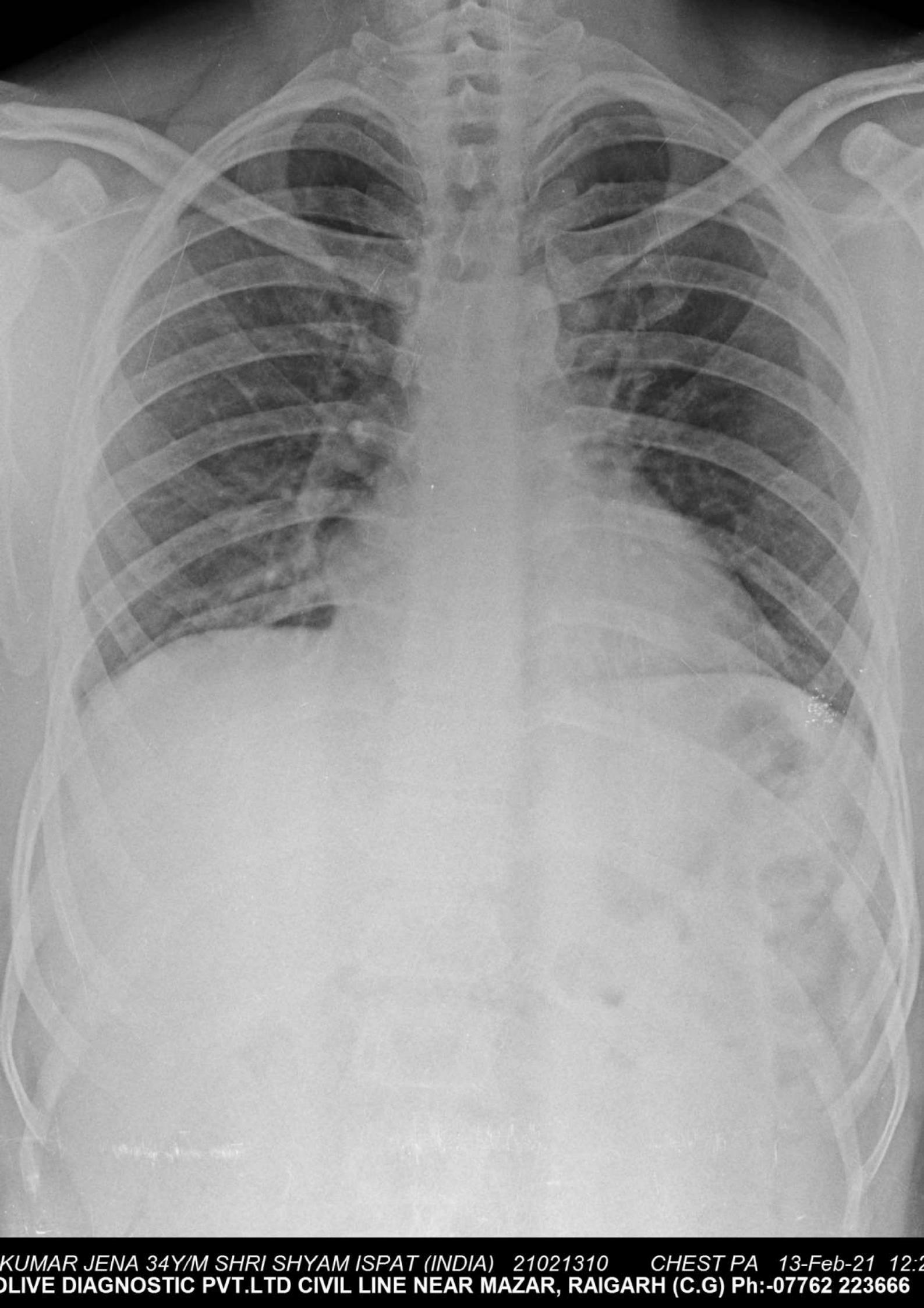
Report Confirmed by:

Raghu

0.05~35Hz AC50 25mm/s 10mm/mV 2*5.0s+1s •75 CARDIOLINE 9108 D V1.43 Glasgow V28.6.0 OLIVE DIAGNOSTICS RAIGAD

AECOW CE

AECOW CE



KUMAR JENA 34Y/M SHRI SHYAM ISPAT (INDIA) 21021310 CHEST PA 13-Feb-21 12:20
OLIVE DIAGNOSTIC PVT.LTD CIVIL LINE NEAR MAZAR, RAIGARH (C.G) Ph:-07762 223666



RAIN WATER HARVESTING STRUCTURE – SIZE 50 Mtr X 15 Mtr X 3 Mtr



RAIN WATER HARVESTING STRUCTURE – SIZE 25 Mtr X 75 Mtr X 3 Mtr

SHRI SHYAM ISPAT (INDIA) PVT. LTD. VILL.:TARAIMAL: RAIGARH

श्री श्याम इस्पात (ई0) प्रा लि0

सी.एस.आर. मद अन्तर्गत वर्ष 2018–19 में किये गये कार्यों का विवरण

क्रं.	कार्य का नाम	कार्य स्थ.ल	कार्य की व्यय राशि (रु. मे)	कार्य एजेसी
1	वृक्षारोपण	रायगढ़	5,00,000.00	स्वयं
2	चकधर समारोह हेतु सहयोग राशि ।	"	1,50,000.00	जिला प्रशासन रायगढ़
3	स्पंज आयरन एसोशिएशन में सामाजिक कार्यों हेतु सहयोग राशि	"	2,00,000.00	स्पंज आयरन एशोसिएशन
4	सी.एस.आर के तहत शिक्षकों की भर्ती हेतु देय राशि (माह मार्च 2019 तक)	"	92,583.00	जिला प्रशासन रायगढ़
5	निर्धन मजदूरों को कबंल वितरण	"	1,50,400.00	स्वयं
6	ग्रामीण खेल कुद एवं अन्य प्रोत्साहन एवं विकास कार्य	"	1,30,000.00	स्वयं
	कुल राशि		12,22,983.00	

सी.एस.आर. मद अन्तर्गत वर्ष 2019–20 में किये गये कार्यों का विवरण

क्रं.	कार्य का नाम	कार्य स्थ.ल	कार्य की व्यय राशि (रु. मे)	कार्य एजेसी
1	वृक्षारोपण	रायगढ़	5,00,000.00	स्वयं
2	चकधर समारोह हेतु सहयोग राशि ।	"	1,50,000.00	जिला प्रशासन रायगढ़
3	स्पंज आयरन एसोशिएशन में सामाजिक कार्यों हेतु सहयोग राशि	"	2,00,000.00	स्पंज आयरन एशोसिएशन
4	सी.एस.आर के तहत शिक्षकों की भर्ती हेतु देय राशि	"	24,000.00	जिला प्रशासन रायगढ़
5	शिक्षा के विकास हेतु Gargi Foundation	"	30,00,000.00	जिला प्रशासन रायगढ़
6	ग्रामीण खेल कुद एवं अन्य प्रोत्साहन	"	1,50,000.00	स्वयं
	कुल राशि		40,24,000.00	

सी.एस.आर. मद अन्तर्गत वर्ष 2020–21 में किये गये कार्यों का विवरण

क्रं.	कार्य का नाम	कार्य स्थ.ल	कार्य की व्यय राशि (रु. मे)	कार्य एजेसी
1	वृक्षारोपण	रायगढ़	5,00,000.00	स्वयं
2	मास्क वितरण	"	15,000.00	जिला प्रशासन रायगढ़
3	लाकडाउन समय में भेजन आदि सामाग्री वितरण	"	50,000.00	स्वयं
4	सी.एस.आर.मद में जमा की गयी नगद राशि	"	10,00,000.00	जिला प्रशासन रायगढ़
	कुल राशि		15,65,000.00	

SHRI SHYAM ISPAT (INDIA) PVT. LTD.

VILLAGE : TARAIMAL : RAIGARH (C.G.)

Details of expenses for Environmental Protection Measures for the Year 2020-21

S. No.	Particulars	Capital Cost (Rs. In Crores)	Recurring Cost/Annum (Rs. In Lakhs)
1	Air Emission Management	...	221.265
	ESP (4 Nos.)	6.950	2.050
	Bag Filter (10 Nos.)	0.950	0.950
	Other APCS (Converyor Systems,etc.)	0.000	0.520
	Stacks/Chimney	0.690	0.250
	CSEMS (4 stacks)	0.230	0.580
	CAAQMS	0.365	1.500
	Environmental Monitoring	0.400	0.435
	CC Road Construction & maintainance	0.150	2.750
	Mechanical Dust Sweeper Machine	0.085	1.820
	Water Tanker & Water Sprinklers	0.150	0.180
Sub Total		9.970	11.035
2	Waste Water Management		
	Settling Pond	0.150	0.250
	Effluent Water Treatment	0.025	1.620
	Sub Total	0.175	1.870
3	Solid Waste Management		
	Ash Handling & Disposal System	0.170	7.350
	Hazardous Waste Storage & Disposal	0.090	0.200
	Fly Ash Bricks Machine	0.150	4.850
	Sub Total	0.410	12.400
4	Green Belt Development	0.510	1.930
5	Occupational Health & Safety	0.250	2.570
6	Firefighting System	0.110	0.950
YEAR TOTAL		...	30.76
GRAND TOTAL		11.425	252.02

(Rakesh Kesharwani)
Authorized Signatory



SHRI SHYAM ISPAT (INDIA) PVT. LTD.

SPONGE IRON DIVISION

Village: Taraimal, P.O.: Gerwani, District: Raigarh (C.G.) 496 001

Telefax : 07762 – 229728 / 29

Email : shrishyamispat@yahoo.in

SSIPL/RGH/21-22/19

29th Sep. 2021

To,

The Regional Officer,

Chattisgarh Environment Conservation Board,

R A I G A R H (C.G.).

Sub :- Submission of Environment Statement.

Dear Sir,

We are submitting herewith the Environment Statement for the year 2020-21.

This is for your kind information please.

Thanking you.

Yours Sincerely,

For M/s Shri Shyam Ispat (India) Private Limited,

(Rakesh Kesharwani)

Sr. Manager

Encl. – A/a

514



ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the
Financial year ending with 31st March 2021

PART-A

- i. Name and address of the owner/ occupier of the industry : **M/Shri Shyam Ispat India Pvt. Limited, through Mr. Sanjay Agrawal, Director**
Address: **(Factory)**
Village = Taraimal,
Post = Gerwani,
Tehsil = Tamnar,
District = Raigarh [C.G.]
- Address:** **(Regd. Office)**
Singhal House, 10, Sector - 1,
Shankar Nagar, Raipur [C.G.]
- Operation or Process : Operation
- ii. Industry category : Medium Scale Industry
- Primary - (STC Code) :
Secondary- (STC Code) :
- iii. Production Category : Sponge Iron = 90000 TPA
Induction Furnace unit = 60000 TPA
WHRB based Power Plant = 6 MW
FBC based Power Plant = 12 MW
- iv. Year of establishment : Sponge Iron 2 x 50 TPD = 2004
Sponge Iron 1 x 100 TPD = 2006
Sponge Iron 1 x 100 TPD = 2010
Induction Furnace [1x6 T] = 2013
Induction Furnace [1x6 T] = 2016
Power Plant (**WHRB based**) = 2013
Power Plant (**FBC based**) = 2014
Rolling Mill = 2020
- v. Date of the last environmental statement submitted : Submitted in 2020

PART – B

Water and Raw Material Consumption:

- i. Water consumption in m³/ day : Approx. 890 m³/ day
- | | |
|-----------------------|---------------------------|
| Cooling | : 735 m ³ /Day |
| Boiler | : 100 m ³ /Day |
| DM Plant Regeneration | : 40 m ³ /Day |
| Domestic | : 15 m ³ /Day |

Sr. No	Name of the Products	Process water consumption per unit of products	
		During FY 2019 – 2020	During FY 2020 – 2021

	Sponge Iron Kilns	0.646 m ³ /Tons	0.712 m ³ /Tons
2.	Induction Furnace unit	0.463 m ³ /Ton	0.532 m ³ /Ton
3.	Rolling Mill	---	0.502 m ³ /Ton
4.	Power Plant	1.899 m ³ / MW	2.23 m ³ / MW

ii. Raw material consumption

Sr. No	Name of Products	Name of Raw Materials *	Consumption of raw material per unit of output	
			During FY 2019 – 2020	During FY 2020 – 2021
1.	Sponge Iron	Coal	1.619 Tons/Tons	1.325 Tons/Tons
		Iron Ore	1.993 Tons/Tons	1.590 Tons/Tons
		Dolomite	0.400 Tons/Tons	0.406 Tons/Tons
2.	Induction Furnaces	Sponge Iron	0.906 tons/ ton	0.896 tons/ ton
		Scrap/ pig Iron	0.199 tons/ ton	0.203 tons/ ton
		Ferro Alloys	0.010 tons/ ton	0.010 tons/ ton
3.	Power Plant [WHRB]	Not Required	---	---
4.	Power Plant [FBC]	Coal	0.951 Tons/ MW	2.101 Tons/ MW
		Char/ Dolochar	0.626 Tons/ MW	1.264 Tons/ MW
5.	Rolling Mill	Ingots/ Billets	---	1.054 Tons/Tons

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Sr. No	Pollutants	Quantity of Pollutants discharged (Mass/ Day)		Concentration of pollutants discharged (Mass/ Volume)	Percentage of variation from Prescribed Standards with Reasons
a.	Water	BOD	< 30 mg/ NM ³	---	---
		COD	< 100 mg/ NM ³	---	---
		TS	< 100 mg/ NM ³	---	---
		O&G	< 10 mg/ NM ³	---	---
b.	Air	SPM	< 500 µg/ NM ³	---	---
		SO ₂	< 120 µg/ NM ³	---	---
		NO _x	< 120 µg/ NM ³	---	---
		CO	BDL	---	---

We are maintaining ZERO effluent discharge condition.

PART - D
HAZARDOUS WASTES

As specified under Hazardous and Other Wastes (Management and T/b Movement) Rules, 2016

Authorization has been obtained for collection, storage, handling and disposal of Used or Spent oil [5.2 kl/ year] and Spent Ion Exchange resin [0.4 Tons/ year] and Chemical Sludge from Waste Water Treatment [0.15 Tons/ year]. Used or spent oil is being sold to Authorized Recyclers; while spent resin is being used as per SoP stipulated by CPCB.

**PART - E
Solid Wastes:**

Sr. No	Solid Wastes	Name of the solid wastes	Total Quantity (Tons/ year)	
			During FY 2019 – 2020	During FY 2020 – 2021
a.	From Process	Char/ Dolochar	34484 Tons	39144 Tons
		ESP and Bag filter dust	4732 Tons	4512.0 Tons
		Kiln Accretion	33 Tons	37 Tons
		Ash	54471 Tons	36707 Tons
		Furnace Slag	3498 Tons	5512.348 Tons
		Mill Scales	---	232.19 Tons
		End Cuttings	---	928.78 Tons
b.	From Pollution Control Facilities	ESP and Bag Filter Dust	4732 Tons	4512.0 Tons
c.	Quantity recycled or reutilized within the unit	Ash	54471 Tons	36707 Tons

PART - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sr. No.	Solid Wastes	Name of the Solid Wastes	During FY 2020 – 2021	Disposal methods
a.	From Process	Char/ Dolochar	39144 Tons	Generated char / dolochar is being utilized as fuel in own FBC Based Power Plant and also part of the quantity sold to brick manufacturing unit
		ESP and Bag filter dust	4512.0 Tons	Given to local brick manufacturing unit and also part of the quantity is being utilized for filling low lying area within premises.
		Kiln Accretion	37 Tons	Used for land reclamation and also given to nearby villagers for filling low lying areas.
		Ash	36707 Tons	Used for brick manufacturing and also given to local brick manufacturing units.
		Furnace Slag	5512.348 Tons	Given to slag crushing units.
		Mill Scales	232.19 Tons	Reuse in sister concern Ferro Alloys manufacturing unit
		End Cuttings	928.78 Tons	Recycled in process

b.	From pollution control facilities	ESP and Bag filter dust	4512.0 Tons	Given to local brick manufacturing unit and also part of the quantity is being utilized for filling low lying area within premises.
		Ash	36707 Tons	Used for brick manufacturing and also given to local brick manufacturing units.

PART - G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

WHRB based power plant is in operation, thereafter there must be positive impact on conservation of natural resources, as we generated power without any fuel consumption.

PART - H

Additional measures/ investment proposal for environmental protection including abatement of pollution.

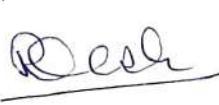
Nil During Period

PART - I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

Char / dolochar being used in our captive power plant as fuel.


 (R. Keshavani)
 Sr. Mgr.
 M/s Shri Shyam Ispat (India) Pvt. Ltd.

सर्वसाधारण को शुभित्रियांगता है कि मेरी इस्पात इंस्पेक्शन (इंडिया) प्रायोगिक लिमिटेड को ग्राम: तराइमाल, दिल्ला, चारकुण्ड (छत्तीसगढ़) वर्दी स्टील एंड कॉम्पनी द्वारा पर्यावरण स्वीकृति प्रदान की गई है। जिसे बहुत बड़े स्टील एंड वर्दी सासन के पत्र क्रमांक F. No. J-11011/161/2009-I A II (I) दिनांक 15.09.2009 द्वारा पर्यावरण स्वीकृति प्रदान की गई है। जिसे बहुत बड़े स्टील एंड वर्दी सासन की वेबसाइट (<http://envfor.nic.in>) पर देखा जा सकता है। एवं छत्तीसगढ़ पर्यावरण संबंध मण्डल के मुख्य कार्यालय, 1- तिलक नगर, अवैति विहार, रायपुर में भी स्पष्टकर्त्ता है।

लघु
द्वारा
मेरी इस्पात (इंडिया) प्रायोगिक लिमिटेड
रायपुर

RAIPUR ■ THURSDAY ■ OCTOBER 8 ■ 2009 ■ The **Hitavada**

NOTICE

This is to Inform all the concerned peoples that M/s Shri Shyam Ispat (India) Private Limited had awarded Environmental Clearance by Ministry of Environment & Forest, Government of India vide their letter F.No. J-11011/161/2009 - I A II (I) dated 15.09.2009 for Expansion of Steel and Captive Power Plant at Village : Taraimal District : Raigarh (C.G.) The aforesaid letter is available at Ministry of Environment & Forest Website <http://envfor.nic.in> / and Chhattisgarh Environment Conservation Board at its Head Office 1- Tilak Nagar, Aventi Vihar, Raipur.

For M/s Shri Shyam Ispat (India) Private Limited
Director

TRUE COPY

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Dated 10/10/2009
Raigarh (C.G.)
C.G. 01/10/30/10/2009

10 OCT 2009