

# SANTPURIA ALLOYS PVT. LTD.

Registered Office :

Room No. 226, Kamalalaya Centre  
156A, Lenin Sarani, Kolkata -700013 (West Bengal)

CIN : U27100WB2004PTC237157

Mob. : 9204066719

E-mail : santpuria2006@gmail.com

SAPL/EC/2021-22/57

Dated: 07/07/2021

✓ To

The Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (ECZ),  
Bungalow No. A-2, Shyamali Colony,  
Ranchi – 834002

**Sub: Submission of six monthly compliance of Environmental Clearance issued vide letter no: EC/SEIAA/2014-15/570/2014/306 Ranchi, dated: 13/12/2018 by State Level Environment Impact Assessment Authority, Jharkhand**

Sir,

Following documents are being furnished for your kind and needful perusal.

- Copy of Environmental Clearance
- Compliance of Environmental Clearance.
- Copy of Clearance issued by DFO, Giridih East Division..
- Copy of Test Report stacks emission, ambient air, ambient noise & Fugitive air for two qtrs.
- Copy of ground water analysis report.

Hence, you are requested to kindly find the above and do the needful.

Thanking you

Faithfully yours

For Santpuria Alloys Pvt Ltd.

  
Director

Copy To

- ✓ 1) Sri R.C.Saxena (Scientist 'E' & Incharge)  
Central Pollution Control Board  
Southern Conclave, Block, 502  
5<sup>th</sup> & 6<sup>th</sup> Floors, 1582, Rajdanga Main Road, Kolkata: 700 107 (W.B.)
- ✓ 2) The Regional Officer,  
Jharkhand State Pollution Control Board,  
Matwari Road.Hazaribagh (Jharkhand)

Corporate Office :

Manjhaladih, P.O:- Gadi Srirampur, Tundi Road, Giridih- 815302 (Jharkhand)

Phone :- +91 9204066719



**State Level Environment Impact Assessment Authority, Jharkhand.**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004.

E-mail: msseiaa.jhk@gmail.com; website: www.jseiaa.org

Letter No.- EC/SEIAA/2014-15/570/2014/306

Ranchi, Date: - 13/12/2018

To: **Shri Sailendra Baksi,**  
(General Manager),  
M/s Santpuria Alloys (P) Ltd.,  
Manjhaladih, Tundi Road,  
Dist. - Giridih,  
Jharkhand - 815301.

Sub.: Environmental Clearance for the project "Regularisation cum Expansion of M/s Santpuria Alloys (P) Ltd at Khata No. 86, 51, 44, 64, 01, 23, 41, 19, 03, 22 & 10, Plot No. 243, 244, 245, 288, 283, 236, 237, 239, 240, 274, 278, 285, 286, 287, 282 & 17 at Vill.- Manjhaladih, Tehsil - Gadisrirampur, Dist. - Giridih, Jharkhand".

Sir,

It is in reference to the project "Regularisation cum Expansion of M/s Santpuria Alloys (P) Ltd at Khata No. 86, 51, 44, 64, 01, 23, 41, 19, 03, 22 & 10, Plot No. 243, 244, 245, 288, 283, 236, 237, 239, 240, 274, 278, 285, 286, 287, 282 & 17 at Vill.- Manjhaladih, Tehsil - Gadisrirampur, Dist. - Giridih, Jharkhand", submitted by you for seeking prior Environmental Clearances (EC).

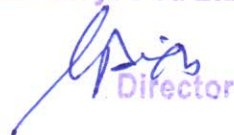
The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 04<sup>th</sup> & 05<sup>th</sup> December, 2018.

Santpuria Alloys (P) Ltd. (SAPL), located at Khata No. 86, 51, 44, 64, 01, 23, 41, 19, 03, 22 & 10, Plot No. 243, 244, 245, 288, 283, 236, 237, 239, 240, 274, 278, 285, 286, 287, 282 & 17, Manjhaladih, Gadi Srirampur, Giridih, has set up a 96 x 2 TPD Sponge Iron plant. Plant site lies in Lat: 24° 07' 47.0" N Long: 86° 21' 15.0" E. Giridih is about 6 km, Tundi is about 26 km, Govindpur is about 45 km and Dhanbad is about 60 km from the existing plant site. Giridih is the nearest railway station from the existing plant site, which is around 6 km away from it. This is an existing unit in the area of 15.82 acres of land. No additional land requirement. Raw water will be sourced from existing ground water sources within premise. As per estimate, water to the tune of 12 KLD (09 KLD existing) will be required after commissioning of 2<sup>nd</sup> DRI kiln of project. The power requirement for the plant has been made available from DVC is near about 0.5 MVA which will be sourced from DVC. The indicated project cost is Rs 4.6 Crore. The existing 1 x 96 TPD is working while another kiln 1 x 96 TPD is to be commissioned after Environmental Clearance and after obtaining "Consent to operate from Jharkhand State Pollution Control Board. The status of project is as follows:

- (1) With ref. to unit application no. 3680 dated 23/8/2004 No. objection certificate under section 25 & 26 of the water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (prevention & Control of Pollution) Act 1981 has been issued to the unit by JSPCB vide ref. no. N-435 dated 19-07-2005 for the production of sponge of 96 MT/Day.

1

Santpuria Alloys Pvt. Ltd.

  
Director

- (2) Further with ref. to unit application no.-6467 dated 01/08/2006- No objection certificate under section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (prevention & Control of pollution) Act 1981 has been issued to the unit by JSPCB vide letter no.3170 dated 19-09-2007 for the production of 192 TPD. This includes 96 TPD of existing unit also.
- (3) The unit falls in the category of 3(a) which is for Metallurgical industries (Ferrous and non ferrous). Sponge manufacturing unit of capacity <200 TPD-comes in the category of 'B' as per EIA notification 14<sup>th</sup> September, 2006.after expansion. The proposed capacity of sponge iron is 192 TPD including existing unit. Hence the plant needs environmental clearance from State Level Environment Impact Assessment Authority.
- (4) The unit is having” consent to operate” under section 25 & 26 of the Water (prevention & Control of pollution) Act, 1974 and under section 21 of the Air (prevention and Control of Pollution) Act, 1981 for the period 01-01-2013 to 31-12-2013, period 1-1-2014 to 31-12-2014 and also for the period 1-1-2015 to 31-12-2015 for the production of sponge Iron of 96 TPD.
- (5) From aforesaid statement it is clear- that the unit is having NOC for the production of sponge Iron of capacity  $96 \times 2 = 192$  TPD but having “consent to operate ‘for the production of sponge iron of 96 TPD only.
- (6) After obtaining NOC (consent to establish) for 2<sup>nd</sup> unit of 96 TPD i.e. total 192 TPD – unit has established or expanded sponge Iron production capacity of 192 TPD.

DFO, Giridih East vide letter no. 1433, dated - 18.06.18 certified that project site is not within 502 m from notified forest and not within 10 km from National Park, Bio-Diversity & Sanctuary. The CO, Giridih vide memo no. 2623, dated - 10.09.18 has mentioned / certified the plots of the project site is not “Jangle Jhari”.

The undertaking was submitted by the PP on 06.11.18 for 10 MW CPP, instead of 4 MW for utilization of waste Dolochar generated from the sponge iron plant through AFBC / CFBC based technology.

Later on the PP has submitted vide his letter dated 17.11.18 requesting to withdraw undertaking dated 06.11.18 for 10 MW.

The committee deliberated the project and finally recommended for the EC as per the ToR issued by SEIAA vide letter no. EC/SEIAA/2014-15/570/2014/901, dated 01.05.2015.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 10<sup>th</sup> & 11<sup>th</sup> December, 2018 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the **“Regularisation cum Expansion of M/s Santpuria Alloys (P) Ltd at Khata No. 86, 51, 44, 64, 01, 23, 41, 19, 03, 22 & 10, Plot No. 243, 244, 245, 288, 283, 236, 237, 239, 240, 274, 278, 285, 286, 287, 282 & 17 at Vill.- Manjhaladih, Tehsil - Gadisrampur, Dist. - Giridih, Jharkhand”** alongwith the following conditions as recommended by SEAC.

**I. Specific Conditions :**

- i. This Environmental Clearance is valid subject to the following condition below –

That this project has-

- a. Obtained all legal rights to operate at concerned place.
- b. Complied with all existing concerned laws of the land and
- c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.

**II. Statutory Compliance :**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

**III. Air quality monitoring and preservation :**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)

- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Provide pollution control system in the sponge iron plant as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- x. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation;
- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

### **III. Water quality monitoring and preservation :**

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards
- vi. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
- vii. The project proponent shall practice rainwater harvesting to maximum possible extent.

- viii. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

**IV. Noise monitoring and prevention:**

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

**V. Energy Conservation measures :**

- i. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- ii. The dolochar generated shall be used for power generation.
- iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- iv. Provide LED lights in their offices and residential areas.

**VI. Waste management :**

- i. Used refractories shall be recycled as far as possible.
- ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- iv. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant)*

**VII. Green Belt :**

- i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

**VIII. Public hearing and Human health issues :**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

- ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

**IX. Corporate Environment Responsibility :**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.
- v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.

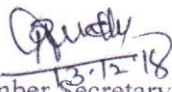
**X. Miscellaneous :**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant

offices of the Government who in turn has to display the same for 30 days from the date of receipt.

- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent 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, commencing the land development work and start of production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF & CC).
- xi. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.

  
13.12.18  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

Compliance of Environmental Clearance  
Santpuria Alloys Pvt Ltd,  
at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
(Prepared on 30/06/2021)

# Compliance of Environmental Clearance

(Six monthly)

Issued vide letter no: EC/SEIAA/2014-15/570/2014/306 Ranchi, dated: 13/12/2018 by

State Level Environment Impact Assessment Authority,

Jharkhand

Santpuria Alloys Pvt Ltd,

at Manjhaladih, P.O: Gadisrirampur, Tundi Road, Giridih: 815302

(Jharkhand)

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

Sl No:	Conditions	Compliances
(I)	Specific Conditions	
	<p>I. This Environmental Clearance is valid subject to the following conditions below                      That this project has</p> <ul style="list-style-type: none"> <li>a. Obtained all legal rights to operate at concerned place.</li> <li>b. Complied with all existing concerned laws of the land and</li> <li>c. Complied with the decisions of SEIAA on the issue of Environmental clearance till date</li> </ul>	Agreed
II	Statutory Compliance:	
	<p>i. The Project proponent shall obtain forest clearance under the provisions of forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.</p>	This unit has own land for which clearance from Divisional Forest Officer, Giridih (East) has been obtained. Copy enclosed herewith.
	<p>ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.</p>	The study area covers 10 km radius around the centre of project site. As per Clearance issued by forest department and topographic sheet it can be observed that there is no Sanctuaries, National Parks, Tiger Reserve or Biosphere Reserve or Elephant Corridor or other protected areas

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

		<p>within the study area.                  Hence, the unit does not require obtaining clearance from National Board for Wildlife.                  Clearance obtained from forest department is enclosed herewith.</p>
iii.	<p>iii The project proponent shall prepare a site-specific Conservation plan &amp; Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the state Forest Department. The implementation report shall be furnished along with the Six-monthly compliance report. (In case of the presence of schedule-I species in the study area )</p>	<p>Species as per the Schedule-I, in the study area, have not been found hence, project does not require preparing a site specific conservation plan &amp; wildlife Management plan.</p>
iv.	<p>The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention &amp; Control of Pollution) Act, 1981 and the water (Prevention &amp; Control of Pollution) Act, 1974 from the concerned State pollution Board / Committee.</p>	<p>The unit has obtained the CTE vide reference no: 3170 dated 19/09/2007 &amp; Consent to operate vide reference no: Ref No. JSPCB/HO/RNC/CTO-9007382/2021/218 Dated: 09/02/2021 for production of 192 TPD of Sponge Iron, this includes existing 96 TPD of Sponge Iron.</p>
v.	<p>The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent</p>	<p>Agreed. Unit has obtained NOC to abstract ground water for industrial use vide reference no: CGWA/NOC/IND/ORIG/2020/9707 from Central Ground</p>

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	authority concerned in case of drawl of surface water required for the project.	Water Authority.
	vi. The project proponent shall obtain authorization under the Hazardous and other Waste management Rules, 2016 as amended from time to time.	The unit has obtained the authorisation under the Hazardous and other Waste management Rules, 2016 from Jharkhand State Pollution Control Board, Ranchi.
iii.	Air quality monitoring and preservation :	
	i The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time; S.O. 3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Online continuous stack (emission) monitoring system, with respect to PM & SO <sub>2</sub> parameter, with the connectivity of SPCB & CPCB server has already been installed and running successfully. Above system is calibrated through recognised lab time to time.
	ii. The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Agreed. Monitoring of fugitive emission has been carried out once in every quarter through NABL accredited laboratories.
	iii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for	Agreed. Continuous Ambient Air quality monitoring system wrt to parameter PM <sub>10</sub> has been installed.

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	<p>common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)</p>	<p>Addition of above Ambient Air Quality is monitored annually as per the conditions laid down in CTO issued by JSPCB.</p>
	<p>iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of the air quality/fugitive emission to Regional Office of MoEF &amp; CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>Agreed. On line Continuous Stack Emission Monitoring System wrt parameter SO<sub>2</sub> &amp; PM with the connectivity of SPCB &amp; CPCB server has already been installed. Manual stack Monitoring and AAQR is carried out annually and its report is submitted to the JSPCB. Above Monitoring reports are attached herewith for your kind perusal. Monitoring report for Fugitive emission of ambient air for last two quarter is attached herewith.</p>
	<p>v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points includes fugitive dust from all vulnerable sources.</p>	<p>Appropriate air pollution control devices have already been provided at all dust prone and vulnerable sources in the factory premises. Adequate numbers of Bag filters and ESP with the stack of rotary kiln have already been installed. Addition of above, 45 numbers of fix water sprinklers have already been installed and functioning regularly.</p>
	<p>vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.</p>	<p>All the appropriate facility for leakage detection and mechanised cleaning of bags has been provided and further it will be advanced.</p>

Compliance of Environmental Clearance  
Santpuria Alloys Pvt Ltd,  
at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
(Prepared on 30/06/2021)

	vii. Provide pollution control system in the sponge iron plant as per the CREP Guidelines of CPCB.	Guideline as per CREP has been provided and it will be advanced gradually.
	viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Agreed. Now, cleaning of plant roads and other area of plant is maintained manually. Further mobile or vacuum cleaner system shall be implemented.
	ix. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting / agglomeration.	Iron ore fines are sold out to Iron Ore Pellet unit. Coal fines are used in briquette unit. Other fines will be used in our fly ash bricks unit.
	x. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	Agreed. Transportation and conveying the raw material is done under covered system.
	xi. Wind shelter fence and chemical spraying shall be provided on the raw materials stock piles.	Raw materials are stacked under the permanent shade which is fully fenced to prevent from wind.
III.	Water quality monitoring and preservation:	
	i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414(E) dated 30 <sup>th</sup> May 2008: S.O.3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to	Water is used for cooling purpose and no effluent is generated. Only make-up water is added in water circulation.

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)	
	ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground Water quality test is performed.
	iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Agreed. Water is used for cooling purpose and no effluent is generated. Only make-up water is added in water circulation system. Manual Monitoring of Ground water quality is carried out by NABL accredited lab and its report is attached herewith.
	iv. Adhere to 'Zero Liquid Discharge'.	Agreed.
	v. Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	N A. Very small quantity of domestic and sanitary waste water is generated which is being disposed to septic tank-soak pit combination.
	vi. Garland drains and collected pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run-off.	Agreed. Garland and collected pits have already been constructed.
	vii. The project proponent shall practice rainwater	Agreed. Well designed rainwater harvesting has already

Compliance of Environmental Clearance  
Santpuria Alloys Pvt Ltd.  
at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
(Prepared on 30/06/2021)

	harvesting to maximum possible extent.	been constructed.
	viii. The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practice cascade use and by recycling treated water.	Agreed. Here, water is used for cooling purpose only and make-up water is added in water circulation system. Further, advance and possible steps to minimise the water consumption must be taken.
IV.	Noise monitoring and prevention:	
	i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Agreed. Test report is attached herewith.
	ii. The ambient noise levels should conform to the standards prescribed under E (P) A Rules, 1986 viz. 75 dB (A) during day time and 70 dB during night time.	Agreed. Ambient noise level report confirm to standards prescribed under E (P) rules, 1986 viz 75dB (A) during day time and 70 dB during night time is being maintained. Test
V.	Energy Conservation measures :	
	i. The Project proponent shall provide waste heat recovery system on the DRI Kilns.	Agreed. Works for Installation of WHRB in rotary kiln has been started.
	ii. The dolochar generated shall be used for power generation.	Agreed. Works for installation of AFBC/CFBC boiler has been initiated. Dolochar generated in sponge iron unit shall be utilised in power generation.
	iii. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Agreed. For providing Solar power generation on roof tops of building, contract agreement with M/S SOLAR AND ENERGY SAVING COMPANY, RANCHI has been signed on dtd.04/04/2019.
	iv. Provide LED lights in their offices and residential areas.	Agreed. LED lights, around the project area, have already been provided.
VI.	Waste management	

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	i. Used refractories shall be recycled as far as possible.	N .A.
	ii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and bricks manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Fly ash will be used in fly ash bricks manufacturing unit. Unit II of Santpuria Alloys Private limited.
	iii. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste ( Management & Tran boundary Movement ) rules, 2016	Agreed.
	iv. Kitchen waste shall be composed or converted to biogas for further use. (to be decided on caste to case basis depending on type and size of plant)	NA
VII.	Green Belt :	
	i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Green belt occupying almost 33% of the plant area has already been developed. Further, we assure to maintain and efforts for increasing the plantation will be going on.
	ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	Agreed to comply. All the possible steps, to reduce the green house gases emission effect, will be initiated. Plan in this regard is being prepared. Green belt is gradually increased to reduce the effect of carbon in the atmosphere.
VIII.	Public hearing and Human health issues :	
	i. Emergency preparedness plan based on the Hazard	Agreed. Emergency plan as per factories act 1947,

Compliance of Environmental Clearance  
Santpuria Alloys Pvt Ltd,  
at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand  
(Prepared on 30/06/2021)

	identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Jharkhand factories Rules, 2001, Control of Industrial Major Accidents Hazardous Rules 1990, Hazardous Wastes (Management and Handling) Rules 1980 & Environment (Protection) Act 1986, has been prepared.
	ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Agreed. All the workmen have already been provided personal protection equipment (PPE) viz safety boots, safety goggles, safety helmets and apron etc as per the Factory Act.
	iii. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Project already been completed and it is under operation.
	iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being carried out in regular basis as per the factory acts. Records for the same are maintained. Chest Xray, Eye Testing and other required health check-up, in regular basis, is carried out.
IX.	Corporate Environment Responsibility :	
	i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment	Agreed. Most of works, contained in CER as per the Ministry's OM vide F.No: 22-65/2017-IA.III dated 1 <sup>st</sup> May, 2018, is being carried out viz health check -up, education etc and rest of the works as per CER will be implemented

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	Responsibility.	soon.
	<p>ii. The company shall have a well laid down environment policy duly approved by the Board of Directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and or/ shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF &amp; CC as a part of six-monthly report.</p>	<p>Agreed.                      CORPORATE ENVIRONMENTALL POLICY</p> <p>SAPL IS COMMITTED TO:</p> <ul style="list-style-type: none"> <li>Protect Environment and continually improve environmental performance by implementing Environmental Management System involving all employee</li> <li>Comply with all applicable environmental legislation, Regulations, Special &amp; General Conditions laid down by the Statutory bodies time to time</li> <li>Prevent, Reduce and control Air pollution</li> <li>Strive to Reduce, Reuse and Recycle the wastes</li> <li>Develop thick green belt in and around the Plant</li> </ul>
	<p>iii. A separate Environment Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of</p>	<p>Agreed.</p>

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	senior Executive, who will directly to the head of the organization.	
	iv. Action plan for implementation EMP and environment conditions along with responsibility matrix of the company shall be prepared and shall be approved by competent authority. The year wise funds earmarked for environment protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	Agreed.
	v. Self-environment audit shall be conducted annually. Every three years third party environment audit shall be carried out.	Agreed.
	vi. All the recommendation made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.	NA
X.	Miscellaneous :	
	i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this	Published on 30/12/2018 in 1) Prabhat Khabar, Dhanbad publication & 2) Dainik Bhaskar, Dhanbad publication. Website has already been prepared i.e. <a href="http://www.santpuriaalloys.com">www.santpuriaalloys.com</a> EC with its conditions has already been uploaded in unit's website.

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	shall also be displayed in the project proponent's website permanently.	
ii.	The copies of the environmental clearance shall be submitted by the project proponent to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copy of EC has been provided to the District Industries Centre, Giridih & Local Body of Giridih.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Status of compliance condition EC has been uploaded in company's website. Company's website: <a href="http://www.santpuriaalloys.com">www.santpuriaalloys.com</a> Monitored has been uploaded.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Monitored data has been displayed at main gate for disclosure to the public and uploaded in company's website.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Agreed. Now this facility is not available in website
vi.	The project proponent shall submit the environmental statement for each financial year in	Agreed. Environment statement for unit is being submitted in the JSPCB within the stipulated time.

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	
vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	Agreed.
viii.	The project authorities must strictly adhere to the stipulations made by the state pollution Control Board and the State Government.	Agreed.
ix.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed.
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF & CC).	Agreed.
xi.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.

Compliance of Environmental Clearance  
 Santpuria Alloys Pvt Ltd,  
 at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
 (Prepared on 30/06/2021)

	xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
	xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
	xiv. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information /monitoring reports.	Agreed.
	xv. The above conditions shall be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement ) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / high Courts and any other Court of Law relating to the subject matter.	Agreed.
	xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a	Agreed.

Compliance of Environmental Clearance  
Santpuria Alloys Pvt Ltd,  
at Manjhaladih, P.O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand)  
(Prepared on 30/06/2021)

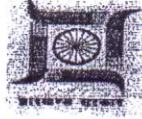
	period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
xvii.	In view of MoEF & CC O.M No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance Accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.	Agreed.

For Santpuria Alloys Pvt Ltd

Santpuria Alloys Pvt. Ltd.

  
Director

Director



कार्यालय, वन प्रमण्डल पदाधिकारी, गिरिडीह पूर्वी वन प्रमण्डल।

मोहनपुर, पोस्ट-पचम्बा, जिला-गिरिडीह, पीन कोड-815316

email-dfo-giridiheast@gov.in, Phone No.-06532-222127

पत्रांक- 1433 दिनांक- 18.6.2018

सेवा में,

SANTPURIA ALLOYS PVT. LTD,  
Registered Office: Manjhaladih, PO-Gadi Srirampur,  
Tundi Road, Giridih 815301

विषय -

Request to issue a certificate related to general condition of Environmental Clearance for expansion cum modernization of SANTPURIA ALLOYS PVT. LTD, Vill- Manjhaladih, PO-Gadi Srirampur, Tundi Road, Giridih which is under consideration of SEIAA.

प्रसंग -

आपका आवेदन दिनांक-21.05.2018

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में सूचित करना है कि विषयोक्त आवेदित स्थल का स्थलीय जाँच वन क्षेत्र पदाधिकारी, गिरिडीह वन प्रमण्डल द्वारा किया गया है। जाँचोंपरांत पाया गया कि :-

1. विषयोक्त आवेदित स्थल वन भूमि नहीं है।
2. विषयोक्त आवेदित स्थल अधिसूचित वन भूमि से 502 (पाँच सौ दो) मीटर की दूरी पर अवस्थित है।
3. विषयोक्त आवेदित स्थल के 10 कि०मी० की परीधी में कोई नेशनल पार्क स्थित नहीं है।
4. विषयोक्त आवेदित स्थल के 10 कि०मी० की परीधी में कोई अभ्यारण स्थित नहीं है।
5. विषयोक्त आवेदित स्थल के 10 कि०मी० की परीधी में कोई जैव-विविधता क्षेत्र स्थित नहीं है।

सूचनार्थ प्रेषित।



विश्वासभाजन

वन प्रमण्डल पदाधिकारी,  
गिरिडीह पूर्वी वन प्रमण्डल।

18-06-18

18/6/18

Santpuria Alloys Pvt. Ltd.

Director



# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT ECO ENVIRO LAB

ISO9001:2015, ISO 14001:2015, OHSAS 18001:2007 & JSPCB & NABL Accreditation  
2208/A, Jagannath Nagar, Pundag Road, Near Anand Gas Godown, Argora, Ranchi, Jharkhand – 834012.  
Email ID – iem2012@rediffmail.com, Mob. No. – 8407804253.


## Stack Emission Test Report


<b>INDUSTRY NAME &amp; ADDRESS:</b> SANTPURIA ALLOYS PVT. LIMITED, AT:MANJHALADIH,P.O:GADISRIRAMPUR,DIST:GIRIDIH PIN:815301, STATE:JHARKHAND, GIRIDIH	Type of Industry : Sponge Iron Plant Sample Description : Stack Emission Sampling Date: .15.03.2020 to 16.03.2020 Sample Registration:17.03.2020
Test Report No : IEM/EEL/RAN/MAR/AAQ/0083C Report Issue Date : 21/03/2020 Work order No.: Application No :7764194,Date: 02.03.2020, Time 01:21 Protocol : IS Method & CPCB Guideline	Customer Rept. : Mr. DK Sinha Sample Drawn By: Rajiv Kumar Singh & team

General Physical Information		
1.	Plant Condition	Running
2.	Emission Due to	Burning of Coal
3.	Stack Height from Ground Level in Meter	40
4.	Port Hole Height from Ground Level in Meter	25
5.	Shape of Stack	Circular
6.	Inner Dimension of Stack in Meter	2
7.	Stack Connected to	ESP of rotary Kiln No. 1 & 2
8.	Type of Fuel Used	Coal
9.	Pollution Control Device if any	ESP
10.	Production Capacity	....

Flue Gas Emission Analysis			
Sl. NO.	Parameters	Protocol	Result
1.	Flue Gas Temperature(°C)	IS 11255 (Part-3)	139
2.	Moisture in Flue Gas (%)	CPCB Guideline	1.84
3.	Absolute Stack Gas Pressure (mm Hg)	CPCB Guideline	739.79
4.	Flue Gas Velocity (m/s)	IS 11255 (Part-3)	7.50
5.	Stack Gas Volumetric Flow Rate (Nm <sup>3</sup> /hr.)	IS 11255 (Part-3)	57848
6.	Particulates Matter (mg/Nm <sup>3</sup> )	IS 11255 (Part-1)	96
7.	SO <sub>2</sub> Concentration as SO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 (Part-2)	124
8.	NO <sub>x</sub> Concentration as NO <sub>2</sub> (mg/Nm <sup>3</sup> )	IS 11255 (Part-7)	91
9.	Carbon Monoxide (CO) in %	IS 13270	<1%

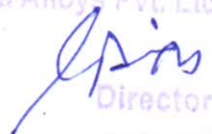
Emission Rate		
Dust	Kg/hr	5.55
Sulphur Dioxide	Kg/hr	7.17
Oxide of Nitrogen	Kg/hr	5.26

  
Tested by  
Analyst

  
Checked By  
(Sunil Kumar Singh)  
Lab In-charge cum Technical Manager



Santpuria Alloys Pvt. Ltd.

  
Director



# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT ECO ENVIRO LAB

ISO9001:2015, ISO 14001:2015, OHSAS 18001:2007; NABL & JSPCB Accreditation  
2208/A, Jagannath Nagar, Pundag Road, Near Anand Gas Godown, Argora, Ranchi, Jharkhand - 834012.  
Email ID - iem2012@Rediffmail.com, Mob. No. - 8407804253.

## Ambient Air Quality Test Report

<b>INDUSTRY NAME &amp; ADDRESS:</b> SANTPURIA ALLOYS PVT. LIMITED, AT:MANJHALADIH,P.O:GADISRIRAMPUR,DIST:GIRIDIH PIN:815301, STATE:JHARKHAND, GIRIDIH	Type of Industry : Sponge Iron Plant Sample Description : Ambient Air Quality Sampling Date : .15.03.2020 to 16.03.2020 Sample Registration Date : 17.03.2020
Test Report No : IEM/EEL/RAN/MAR/AAQ/0083A Report Issue Date : 21/03/2020 Work order No.: Application No : 7764194 ,Date: 02.03.2020, Time 01:21 Protocol : IS Method & CPCB Guideline	Customer Rept. : Mr. DK Sinha Sample Drawn By: Rajiv Kumar Singh & team

METEROLOGICAL INFORMATION				
Average Temp(°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	Weather Condition	Wind Direction
25	71	740	Cloudy	From NE towards SW
Concentration in Ambient Air (Industrial, Residential, Rural and Other Area)				
Time Weighted Average- 24 Hours				
Parameters	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	
Method Name	Improved West & Gaeke method	Jackob & Hochheiser Modified Method	Gravimetric Method	
NAAQMS/36/2012-13	IS 5182 (Part-02)	IS 5182 (Part-06)	IS 5182 (Part-23)	
Location	Sampling Point Co- ordinate	Concentration in Ambient Air as per NAAQS- 2009 For 24 Hours		
		80	80	100
Near Store Room	24°07'47.06"N 86°21'02.06"E	8.61	10.75	82
Near Kanta Room	24°07'47.52"N 86°21'06.05"E	9.36	11.08	95
Near Ground Hopper	24°07'51.82"N 86°20'59.98"E	10.42	11.51	96
Maximum		10.42	11.51	96
Minimum		8.61	10.75	82
Average		9.52	11.13	89

Tested by  
Analyst

Checked By  
(Sunil Kumar Singh)  
(Lab Incharge cum Technical Manager)

Authorized Signatory  
(S. C. Jain)  
(Director & QC Manager)

**Note:-**1. The results refer only to the tested sample of applicable parameters. 2. The sample will be preserved for a maximum of 7 days on request from the date of issue of the certificate. 3. The certificate shall not be reproduced in part or full and can't be used as evidence or in court of law without prior permission in writing.4. All disputes are subjected to the Ranchi jurisdiction

Santpuria Alloys Pvt. .

Director



# INSTITUTE FOR ENVIRONMENTAL MANAGEMENT ECO ENVIRO LAB

ISO9001:2015, ISO 14001:2015, OHSAS 18001:2007 & JSPCB Accreditation

2208/A, Jagannath Nagar, Pundag Road, Near Anand Gas Godown, Argora, Ranchi, Jharkhand – 834012.

Email ID – [iem2012@rediffmail.com](mailto:iem2012@rediffmail.com), Mob. No. – 8407804253.

## Ambient Noise levels Monitoring Report

<b>INDUSTRY NAME &amp; ADDRESS:</b> SANTPURIA ALLOYS PVT. LIMITED, AT:MANJHALADIH,P.O:GADISRIRAMPUR,DIST:GIRIDIH PIN:815301, STATE:JHARKHAND, GIRIDIH	<b>Type of Industry :</b> Sponge Iron Plant <b>Sample Description :</b> Ambient Noise Level <b>Sampling Date:</b> .15.03.2020 to 16.03.2020 <b>Sample Registration Date :</b> 17.03.2020
<b>Test Report No :</b> IEM/EEL/RAN/MAR/NOISE/0083B Report Issue Date : 21/03/2020 Work order No.: Application No : 7764194 ,Date: 02.03.2020, Time 01:21 Protocol : IS Method & CPCB Guideline	<b>Customer Rept. :</b> Mr. DK Sinha <b>Sample Drawn By:</b> Rajiv Kumar Singh & team

METEROLOGICAL INFORMATION				Location & Co-ordinate	
Average Temp (°C)	Average Relative Humidity (%)	Average Barometric Pressure (mm of Hg)	Weather Condition:	A <sub>1</sub>	Near Store 24°07'47.20"N; 86°21'02.97"E
25	71	740	Cloudy	A <sub>2</sub>	Near Kanta Room 24°07'47.85"N; 86°21'06.74"E
				A <sub>3</sub>	Near Ground Hopper 24°07'51.31"N; 86°21'00.05"E

Equivalent Continuous Sound Level (Leq) in dB												
Time Weighted Average 'A' of the level of Sound in decibels on scale A												
Result (4 hours Interval)									CPCB Limit in dB(A)			
Sound Level-Leq dB(A)									Area Code	Category of Area Zone	Day Time	Night Time
Day Time (DT) (6 AM to 10PM)					Night Time (NT) (10 PM to 6 AM)						(6 AM to 10PM)	(10 PM to 6 AM)
Location	DT <sub>1</sub> (06-10)	DT <sub>2</sub> (10-02)	DT <sub>3</sub> (02-06)	DT <sub>4</sub> (06-10)	AVG.	NT <sub>1</sub> (10-02)	NT <sub>2</sub> (02-06)	AVG.	A	Industrial Area	75	70
A <sub>1</sub>	61.3	69.5	66.2	56.3	63.33	44.0	41.9	42.9	B	Commercial Area	65	55
A <sub>2</sub>	64.1	74.6	69.3	59.6	66.9	46.2	43.8	45.0	C	Residential Area	55	45
A <sub>3</sub>	67.9	78.4	75.2	65.7	71.8	48.4	45.1	46.8	D	Silence Zone	50	40

Remarks:-All values are observed well within the prescribed limit for industrial area.

Tested by  
 Analyst

Santpuria Alloys Pvt. Ltd.

Director

Checked By  
 (Sunil Kumar Singh)  
 (Lab Incharge cum Technical Manager)

Authorized Signatory  
 (Dr. Chintan Kumar Singh)  
 (Director & QC Manager)

Note:-1. The results refer only to the tested sample of applicable parameters. 2. The sample will be preserved for a maximum of 7 days in request from the date of issue of the certificate. 3. The certificate shall not be reproduced in part or full and can't be used as evidence or in court of law without prior permission in writing. 4. All disputes are subjected to the Ranchi jurisdiction



# Eco Care



Phone : (0341) 2252011  
Fax : (0341) 2252011

E-mail : ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur  
ASANSOL-713304 (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001 : 2015 Certified, OHSAS 18001:2007 Certified

ULR NO – TC510921000000553F

Format No. : EC/TRT/42/FM/04

## TEST REPORT

Report Release Date : 15.03.2021	Sample Ref. No.(ARF) : EC/ARF/29/21368
Test Report No : EC/TR/42/03294	Source of Sample : Sponge Iron Plant
Type of Sample : Suspended Dust & Gases	Sampling Date : 11.03.2021
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 12.03.21 to 13.03.21
Sample Details : Fugitive Air	Sample Condition : Sealed & Preserved
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Remarks : ---
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

### METEOROLOGICAL INFORMATION

1	Average Temperature	30.4 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	61.0 %	4	Weather Condition	Clear Day

### 1. Sampling Location : 9.4 Meter Distance from Raw Material Crusher & Product Handling Area

Sl. No	Parameters	Test Method	Results
1	Concentration of Total Suspended Particulate Matter	IS : 5182 ( Part – 4 )	563.55 µg/M <sup>3</sup>

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory.

*N. Agarwalla*

Authorised Signatory

**NITRANJAN LAL AGARWALLA**

B Tech MS (USA), A.M.I.E.

Scientist & Chief Executive

Santpuria Alloys Pvt. Ltd.

*[Signature]*  
Director



# Eco Care



Certificate No. TC-5109

Phone : (0341) 2252011

Fax : (0341) 2252011

E-mail : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

ASANSOL-713304 (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001 2015 Certified, OHSAS 18001:2007 Certified

ULR NO – TC510921000000550F

Format No. : EC/TRT/42/FM/04

## TEST REPORT

Report Release Date : 23.06.2021	Sample Ref. No.(ARF) : EC/ARF/29/210653
Test Report No : EC/TR/42/06253	Source of Sample : Sponge Iron Plant
Type of Sample : Suspended Dust & Gases	Sampling Date : 17.06.2021
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : 21.06.21 to 22.06.21
Sample Details : Fugitive Air	Sample Condition : Sealed & Preserved
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Remarks : ----
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

## METEOROLOGICAL INFORMATION

1	Average Temperature	27.8 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	69.0 %	4	Weather Condition	Clear Day

### 1. Sampling Location : 10 Meter Distance from Raw Material Crusher & Product Handling Area

Sl. No	Parameters	Test Method	Results
1	Concentration of Total Suspended Particulate Matter	IS : 5182 ( Part – 4 )	544.08 µg/M <sup>3</sup>

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory.

Authorised Signatory

**NIRANJAN LAL AGARWALLA**

B Tech MS (USA), A.M.I.E.

Scientist & Chief Executive

Santpuria Alloys Pvt. Ltd.

  
Director



# Eco Care



Phone : (0341) 2252011  
Fax : (0341) 2252011

E-mail : ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur

ASANSOL-713304 (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001 : 2015 Certified, OHSAS 18001:2007 Certified

ULR NO – TC510921000000552F

Format No. : EC/TRT/42/FM/06

## TEST REPORT

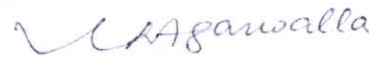
Report Release Date : 13.05.2021	Sample Ref. No.(ARF) : EC/ARF/29/210553
Test Report No : EC/TR/42/05260	Source of Sample : Sponge Iron Plant
Type of Sample : Ground Water	Sampling Date : 10.05.2021
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : 11.05.21 to 12.05.21
Sample Details : Bore Well ( Pre-Monsoon )	Sampling Location : Near Main Gate
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Sample Condition : Sealed & Preserved Sample Stamped as : "SAPL – 45" Sample Drawn By : ECO CARE Remarks : ---- Sampling Plan & Procedure : EC/SOP/03/01 Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (IS:10500)	Results
1	pH at 25.7 °C		4500-H <sup>+</sup> B	6.5 – 8.5	7.31
2	TDS	mg/l	2540 C	500.0	366.20
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	194.04
5	Chloride (as Cl <sup>-</sup> )	mg/l	4500 – Cl <sup>-</sup> B	250.0	33.27
6*	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	201.76
7	Calcium (as Ca <sup>2+</sup> )	mg/l	3500 – Ca B	75.0	65.03
8	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	mg/l	4500 – SO <sub>4</sub> <sup>2-</sup> E	200.0	19.58
9.	Iron (as Fe)	mg/l	3500 – Fe B	0.3	0.06
10	Magnesium (as Mg)	mg/l	3500 – Mg B	30.0	9.60

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory.

Santpuria Alloys Pvt. Ltd.

  
Director



Authorised Signatory  
NIRANJAN LAL AGARWALLA  
B Tech MS (USA), A.M.I.E.  
Scientist & Chief Executive