

SANTPURIA ALLOYS PVT. LTD.

Registered Office :

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156A, Lenin Sarani, Kolkata -700013 (West Bengal)

CIN : U27100WB2004PTC237157

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SAPL/EC/2022-23/ 48

Dated: 25/06/2022

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 of ambient air, ambient noise & Fugitive air.
- Copy of ground water analysis report (Pre-monsoon)

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
5th & 6th 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 04th & 05th 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 2nd 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.

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 14th 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 2nd 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 10th & 11th 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 - Gadisrirampur, 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 31st 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. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x 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 1st 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.

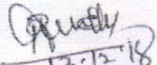
X. Miscellaneous :

- 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; PM₁₀, SO₂, NO_x (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 23/06/2022)

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)

1

Santpuria Alloys Pvt. Ltd.


Director

Sl No:	Conditions	Compliances
(i)	<p>Specific Conditions</p> <p>I. This Environmental Clearance is valid subject to the following conditions below That this project has</p> <ol style="list-style-type: none"> 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 	<p>Agreed</p>
II	<p>Statutory Compliance:</p> <ol style="list-style-type: none"> 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>
	<ol style="list-style-type: none"> 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</p>

		<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>
	<p>iii. 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)</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 & wildlife Management plan.</p>
	<p>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 Board / Committee.</p>	<p>The unit has obtained the CTE vide reference no: 3170 dated 19/09/2007 & 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>
	<p>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</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>

	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 st March 2012 (applicable to IF/EAf) as amended from time to time; S.O. 3305 (E) dated 7 th 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. 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.	Online continuous stack (emission) monitoring system, with respect to PM & SO2 parameter, with the connectivity of SPCB & CPCB server has already been installed. Now, plant is not in operation hence, this system is not in operation. Above system is calibrated through recognised lab time to time.
	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 PM10 has been installed and working

<p>common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x 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>regularly. Addition of above Ambient Air Quality is monitored six monthly. AAQR attached.</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 & 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 SO₂ & PM with the connectivity of SPCB & CPCB server has already been installed. AAQR is carried out six monthly and above Monitoring reports are attached herewith for your kind perusal. Monitoring report for Fugitive emission of ambient air for last quarter is attached herewith. Note: Plant is not in operation hence, Stack Monitoring could not be carried out and report is not attached.</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.</p>	<p>All the appropriate facility for leakage detection and mechanised cleaning of bags has been provided and</p>

	for better maintenance of bags.	further it will be advanced.
	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 stationary 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 shed 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 th May 2008; S.O.3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online	Water is used for cooling purpose and no effluent is generated. Only make-up water is added in water circulation system.

Compliance of Environmental Clearance

Santpuria Alloys Pvt Ltd.

at Manjhaladhi, P.O: Gadisrampur, Tundi road, Giridih: 815302 (Jharkhand

(Prepared on 23/06/2022)

<p>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)</p>	
<p>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.</p>	<p>Ground Water quality test is performed. (Pre monsoon)</p>
<p>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.</p>	<p>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.</p>
<p>iv. Adhere to 'Zero Liquid Discharge'.</p>	<p>Agreed.</p>
<p>v. Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.</p>	<p>N.A. Very small quantity of domestic and sanitary waste water is generated which is being disposed to septic tank-soak pit combination.</p>
<p>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.</p>	<p>Agreed. Garland and collected pits have already been constructed.</p>

	vii. The project proponent shall practice rainwater harvesting to maximum possible extent.	Agreed. Well designed rainwater harvesting has already 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.
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, offices & residential area, have already been provided.

VI.	Waste management	N .A.
	<p>i. Used refractories shall be recycled as far as possible.</p> <p>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.</p> <p>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</p> <p>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)</p>	<p>Fly ash will be used in fly ash bricks manufacturing unit. Unit II of Santpuria Alloys Private limited. Now, fly ash in our plant is not generated.</p> <p>Agreed.</p> <p>NA</p>
VII.	Green Belt :	
	<p>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.</p> <p>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.</p>	<p>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.</p> <p>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.</p>
VIII.	Public hearing and Human health issues :	

	<p>i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.</p>	<p>Agreed. Emergency plan as per factories act 1947, 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.</p>
	<p>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.</p>	<p>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.</p>
	<p>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.</p>	<p>Project already been completed and it is under operation.</p>
	<p>iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<p>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.</p>
IX.	<p>Corporate Environment Responsibility :</p> <p>i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as</p>	<p>Agreed. Most of works, contained in CER as per the Ministry's OM vide F.No: 22-65/2017-IA.III dated 1st May, 2018, is being carried out viz health check -up, education</p>

<p>applicable, regarding Corporate Environment Responsibility.</p>	<p>etc and rest of the works as per CER will be implemented soon.</p>
<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 & CC as a part of six-monthly report.</p>	<p>Agreed. CORPORATE ENVIRONMENTAL POLICY SAPL IS COMMITTED TO: Protect Environment and continually improve environmental performance by implementing Environmental Management System involving all employee Comply with all applicable environmental legislation, Regulations, Special & General Conditions laid down by the Statutory bodies time to time Prevent, Reduce and control Air pollution Strive to Reduce, Reuse and Recycle the wastes Develop thick green belt in and around the Plant</p>
<p>iii. A separate Environment Cell both at the project and company head quarter level, with qualified</p>	<p>Agreed.</p>

	personnel shall be set up under the control of 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	Published on 30/12/2018 in 1) Prabhath Khabar, Dhanbad publication & 2) Dainik Bhaskar, Dhanbad publication. Website has already been prepared i.e. www.santpurialloys.com EC with its conditions has already been uploaded in unit's website.

Compliance of Environmental Clearance

Sanpuria Alloys Pvt Ltd,

at Manjhaladh, P. O: Gadisrirampur, Tundi road, Giridih: 815302 (Jharkhand

(Prepared on 23/06/2022)

	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 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: www.santpurialloys.com Monitored data has been uploaded.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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.
vi.	The project proponent shall submit the	Agreed. Environment statement for unit is being submitted

Compliance of Environmental Clearance

Santpuria Alloys Pvt Ltd,

at Manjaladh, P.O: Gadisrirampur, Tundi road, Giridih:815302 (Jharkhand

(Prepared on 23/06/2022)

	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.	in the JSPCB within the stipulated time.
	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)	Agreed.

	Act, 1986.	
	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	Agreed.

Compliance of Environmental Clearance

Santpuria Alloys Pvt Ltd.

at Manjhaladin, P.O:Gadisrirampur, Tundi road, Giridih:815302 (Jharkhand

(Prepared on 23/06/2022)

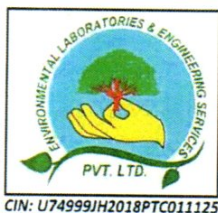
	National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.		
	xvii. In view of MoEF & CC O.M No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance Accorded shall be valid for a period of Seven (07) years.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

For Santpuria Alloys Pvt Ltd

Santpuria Alloys Pvt. Ltd.

Director


Director



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D1Z4

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in, eles.ranchi@gmail.com
Phone no : 0651-2290103
Website : www.elespl.co.in

TEST REPORT

Test Report No. : ELES/RNC/2022/1011	Report Release Date : 14.05.2022
Work Order No : SAPL/JSPCB/2022-23/09	Work Order Date : 15.04.2022

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuriya Alloys Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2022/FA/1135
Address	: Manjhaladih, PO- Gadi, Srirampur Giridih, Jharkhand	Location	: 9.4m Distance from Raw Material Crusher & Product Handling Area
Plant Status	: Non Operational	Sampling Date	: 05.05.2022
Period of Analysis	: 11.05.2022 to 13.05.2022	Sample Received Date	: 11.05.2022
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 37	2	Barometric Pressure (mmHg) : 745
3	Relative Humidity (%) : 50	4	Weather Condition : Clear

Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	IS:5182 (Part-4):1999	295

Rekha Saxena
Authorized Signatory
Rekha Saxena
B. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

Dr. Deependra Kumar Sinha
Authorized Signatory
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engg.
ELES Pvt. Ltd. Technical Manager

Page 1 of 1

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TC-8839

TEST REPORT

Discipline : Chemical	Group : Atmospheric Pollution
Test Report No. : ELES/RNC/2022/1012	Report Release Date : 14.05.2022
Work Order No : SAPL/JSPCB/2022-23/09	Work Order Date : 15.04.2022
ULR No. : TC883922000000536F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuriya Alloys Pvt. Ltd.	Sample Date	: 05.05.2022 to 06.05.2022
Address	: Manjhaladih, PO-Gadi, Srirampur Giridih, Jharkhand	Sampling Received Date	: 11.05.2022
Plant Status	: Non Operational	Type of Sample	: Ambient Noise
		Sampling procedure	: ELES/DOC/SMPL/03
		Sample Drawn By	: ELES Pvt. Ltd.
		Period of Analysis	: 11.05.2022 to 13.05.2022

METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 38	2	Barometric Pressure (mmHg) : 745
3	Relative Humidity (%) : 51	4	Weather Condition : Clear

Location	Unit	Test Protocol	Result				Regulatory Limit
			Time	L _{Max}	L _{Min}	L _{eq}	
Near Kanta Room	dB(A)	IS 9989:1981, RA 2001	Time	L _{Max}	L _{Min}	L _{eq}	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2022/AN/1136			Day Time	68.2	50.5	62	
Latitude:24°07'47.85"N			Night Time	58.3	40.2	50	
Near Store Room	dB(A)	IS 9989:1981, RA 2001	Time	L _{Max}	L _{Min}	L _{eq}	
Sample ID: ELES/RNC/2022/AN/1137			Day Time	65.1	51.1	60	
Latitude:24°07'47.20"N			Night Time	53.5	38.2	46	
		Longitude:86°21'06.74"E					
		Longitude:86°21'02.97"E					

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TEST REPORT

Discipline	: Chemical	Group	: Atmospheric Pollution
Test Report No.	: ELES/RNC/2022/1012	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC88392200000536F		

Location	Unit	Test Protocol	Result				Regulatory Limit
			Time	L _{Max}	L _{Min}	L _{eq}	
Near Ground Hopper	dB(A)	IS 9989:1981, RA 2001	Time				75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2022/AN/1138			Day Time	65.4	41.4	59	
Latitude:24°07'51.31"N			Night Time	52	37.9	45	
	Longitude:86°21'00.05"E						

Rekha Saxena
Authorized Signatory
Rekha Saxena
B. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

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TC-8839

TEST REPORT

Discipline	: Chemical	Group	: Water
Test Report No.	: ELES/RNC/2022/1013	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC883922000000537F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuria Alloys Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2022/GW/1140
Address	: Manjhaladih, P.O-Gadi Srirampur, Giridih, Jharkhand	Sampling Date	: 06.05.2022
		Sample Received Date	: 11.05.2022
Plant Status	: Non Operational	Type of Sample	: Ground Water
		Location/Source of Sample	: Borewell, Near Main Gate
Period of Analysis	: 11.05.2022 to 13.05.2022	Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited				Regulatory Limit as per IS:10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 26.2°C)	--	APHA 23 rd Edition 2017,4500-H ⁺ -B	7.82	6.5-8.5	6.5-8.5
Turbidity	NTU	APHA 23 rd Edition 2017,2130 B	0.07	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	IS 3025 (Part-16):1984	452	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part-23):1986	167	200	600
Chloride (as Cl)	mg/L	IS 3025 (Part-32): 1988: RA 2014	72	250	1000
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Edition 2017, 2340 C	188	200	600
Sulphate (as SO ₄)	mg/L	APHA 23 rd Edition 2017, 4500-SO ₄ -E	32.7	200	400

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TC-8839

TEST REPORT

Discipline	: Chemical	Group	: Water
Test Report No.	: ELES/RNC/2022/1013	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC883922000000537F		

Parameter	Unit	Test Protocol	Result	Regulatory Limit as per IS:10500:2012	
				Acceptable Limit	Permissible Limit
Calcium (as Ca)	mg/L	APHA 23 rd Edition 2017, 3500 B	44	75	200
Iron (as Fe)	mg/L	APHA 23 rd Edition 2017, 3111 B	0.881	1.0	1.0
Magnesium (as Mg)	mg/L	IS 305 (Part-46):1991	18.7	30	100

Remarks: I. pH done at Lab.

Rekha Saxena
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Director
ELES Pvt. Ltd.

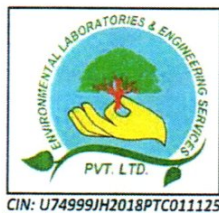
****End of Report****

Dr. Deependra Kumar Sinha
Authorized Signatory
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engg.
ELES Pvt. Ltd. Technical Manager

Page 2 of 2

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ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D124

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in, eles.ranchi@gmail.com

Phone no : 0651-2290103

Website : www.elespl.co.in



TC-8839

CIN: U74999JH2018PTC011125

TEST REPORT

Discipline	: Chemical	Group	: Atmospheric Pollution
Test Report No.	: ELES/RNC/2022/1008	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC88392200000531F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuriya Alloys Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2022/AA/1132
Address	: Manjhaladih, PO- Gadi, Srirampur Giridih, Jharkhand	Location	: Near Ground Hopper
		Sampling Date	: 05.05.2022 to 06.05.2022
Plant Status	: Non Operational	Sample Received Date	: 11.05.2022
		Type of Sample	: Ambient Air
Period of Analysis	: 11.05.2022 to 13.05.2022	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 38	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 51	4	Weather Condition	: Clear
5	Longitude	: 86°21'00.05"E	6	Latitude	: 24°07'51.31"N

NABL Accredited

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	77	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	40	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	9.4	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	24.1	80 (24hrs)

Rekha Saxena

Authorized Signatory

Rekha Saxena

B. Sc. M. Sc. (Botany)

Director

Dr. Deependra Kumar Sinha

Authorized Signatory

Dr. Deependra Kumar Sinha

Ph. D. Environmental Engg.

ELES Pvt. Ltd. Technical Manager

****End of Report****

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ENGINEERING SERVICES PVT. LTD.

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Website : www.elespl.co.in

CIN: U74999JH2018PTC011125

TEST REPORT

Discipline	: Chemical	Group	: Atmospheric Pollution
Test Report No.	: ELES/RNC/2022/1009	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC883922000000534F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuriya Alloys Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2022/AA/1133
Address	: Manjhaladih, PO- Gadi, Srirampur Giridih, Jharkhand	Location	: Near Store Room
		Sampling Date	: 05.05.2022 to 06.05.2022
Plant Status	: Non Operational	Sample Received Date	: 11.05.2022
		Type of Sample	: Ambient Air
Period of Analysis	: 11.05.2022 to 13.05.2022	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 38	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 51	4	Weather Condition	: Clear
5	Longitude	: 86°21'02.97"E	6	Latitude	: 24°07'47.20"N

NABL Accredited				
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	83	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	45	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	10.1	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	26.6	80 (24hrs)

Rekha Saxena
Authorized Signatory

Rekha Saxena

B. Sc, M. Sc. (Botany)

Director

****End of Report****

Dr. Deependra Kumar Sinha
Authorized Signatory

Dr. Deependra Kumar Sinha

Ph. D. Environmental Engg

ELES Pvt. Ltd. Technical Manager

Page 1 of 1

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CIN: U74999JH2018PTC011125

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Website : www.elespl.co.in



TC-8839

TEST REPORT

Discipline	: Chemical	Group	: Atmospheric Pollution
Test Report No.	: ELES/RNC/2022/1010	Report Release Date	: 14.05.2022
Work Order No	: SAPL/JSPCB/2022-23/09	Work Order Date	: 15.04.2022
ULR No.	: TC88392200000535F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Santpuriya Alloys Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2022/AA/1134
Address	: Manjhaladih, PO- Gadi, Srirampur Giridih, Jharkhand	Location	: Near Kanta Room
		Sampling Date	: 05.05.2022 to 06.05.2022
Plant Status	: Non Operational	Sample Received Date	: 11.05.2022
		Type of Sample	: Ambient Air
Period of Analysis	: 11.05.2022 to 13.05.2022	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 38	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 51	4	Weather Condition	: Clear
5	Longitude	: 86°21'06.74"E	6	Latitude	: 24°07'47.85"N

NABL Accredited				
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	69	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	37	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	8.3	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	22.7	80 (24hrs)

Rekha Saxena

Authorized Signatory
Rekha Saxena

B. Sc. M. Sc. (Botany)

Director

ELES Pvt. Ltd.

****End of Report****

Dr. Deependra Kumar Sinha

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