

Ref: -SPS-II /SMC/MOEFCC/APRIL-2025 TO SEPT.-2025

Date- 18.12.2025

To,

**The Dy. Director General of Forest (DDGF)**

GOI, MoEF&CC, Sub Office, Kolkata

IB-198, Salt Lake City, Sector-III, Kolkata - 700106

**SUB: Six Monthly Compliance report (April-2025 to Sept.-2025) to Environmental Clearance conditions issued vide MoEF&CC EC File No. IA-J-11011/150/2022-II(IND-I) dated-26.02.2024 by M/s SPS Steels Rolling Mills Limited, Vill-Poradiha, PO-Pachhandapur, Dist.-Purulia (WB)-722153.**

Respected Ma'am,

With reference to above subject, we are submitting herewith the six-monthly compliance report (April-2025 to Sept.-2025) for existing project of M/s SPS Steels Rolling Mills Limited, Vill-Poradiha, PO-Pachhandapur, Dist.-Purulia (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environmental monitoring data is enclosed for your kind perusal.

We would like to apprise your good office that expansion project activities against the EC granted from MoEFCC vide File No. IA-J-11011/150/2022-II (IND-I) dated-26.02.2024 has not been started yet.

Kindly acknowledge our submission.

Thanking you & with regards,

Yours faithfully,

For SPS Steels Rolling Mills Limited.

(Authorized Signatory)

Encl: as above



Copy to,

The Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur Satellite Township Project, Dr. B.C. Roy Road, PO- Dakshin Dhadka, Asansol-713302 Dist.- Paschim Bardhaman (WB)

# **SPS STEELS ROLLING MILLS LTD**

## **COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE**

**MoEF & CC EC File No: IA-J-11011/150/2022-II (IND-I) Date Date-26/02/2024**

### **COMPLIANCE PERIOD:**

**APRIL-2025 TO SEPTEMBER-2025**



### **PROJECT LOCATION:**

Village- Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri,  
Tehsil-Raghunathpur, Dist.-Purulia, West Bengal-722153

**Six Monthly Compliance Report  
(April-2025 to September-2025)**

**M/s SPS Steels Rolling Mills Limited**

|                                   |   |                                                                                                                       |
|-----------------------------------|---|-----------------------------------------------------------------------------------------------------------------------|
| Name of the Project               | : | <b>SPS STEELS ROLLING MILLS LIMITED</b><br>Vill-Poradiha, PO-Pachhandapur, PS-Santuri,<br>Dist.- Purulia (WB)-722153. |
| Environmental Clearance Reference | : | File No. IA-J-11011/150/2022-II (IND-I)<br>dated 26 <sup>th</sup> February, 2024                                      |
| Period of Compliance Report       | : | April-2025 to September-2025                                                                                          |

| Sl.No.                          | CONDITIONS                                                                                                                                                                                                                                                                                                           | COMPLIANCE STATUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. SPECIFIC CONDITIONS:-</b> |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| i.                              | This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.                                                                                                        | Noted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ii.                             | The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | It is being complied for existing unit. It shall also be complied for proposed expansion project. Expansion Project activities is not started yet. SPS Steels Rolling Mills Ltd. (SPS) is committed to ensuring compliance with environmental protection measures as outlined in the documents submitted to the Ministry.<br>For existing project environment protection measures like ESPs, Bag Filters, dust extraction system, fixed water sprinklers are installed and effectively operated. Water sprinkling on roads by mobile water tanker inside and outside of the plant premises being carried out during dry weather condition on regular basis. Some photographs of water sprinkling are enclosed as <b>Annexure-1</b><br>Greenbelt development and its maintenance, gap filling etc. being done on regular basis. Risk mitigation measured has been adapted and monitored by safety department of the company. Necessary PPEs being provided to working personnel. |
| iii.                            | The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.                                   | SPS shall ensure to adapt best available technologies available in the market. Our efforts are/shall be to reduce the carbon foot print with best possible efforts and it is being/shall be incorporated at initial stage of project implementation and discussions with technology providers.<br>We have done and in future also we will ensure the dense afforestation and its proper maintenance as a major carbon sequestration resource.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| iv.                             | The PP shall complete the process of land acquisition and conversion for industrial use.                                                                                                                                                                                                                             | Noted. It shall be complied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| v.                              | There is dense habitation along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental                                                                                                                                                                 | It shall be complied with Implementation of expansion project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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|       | safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | As an environmental safeguard SPS (SPS Steels Rolling Mills Limited) has already taken initiative of dense plantation to strengthen the green belt in and around the existing project as preventive measure against dust pollution facing the surrounding area villages. Ambient air monitoring being carried out through NABL accredited laboratory to evaluate the status on regular basis. Latest Ambient air quality monitoring report is attached as <b>Annexure-2</b> .                                                                                                                                                                                                                                                                                                  |
| vi.   | There is a seasonal nala inside the plant premises and a stream is flowing adjacent to the plant. Damodar River is at a distance of 1 km with other water bodies near the project site within the study area. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.                                                                                                                                                                                                                                                                                                                                                                                                                                    | Noted, it shall be complied as per directions. Natural drainage of seasonal nala shall be protected from industrial activities. Proper drainage system and dense plantation shall be ensured to protect soil erosion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| vii.  | Total water requirement after proposed expansion of 15560 KLD shall be sourced from Damodar River. PP shall obtain necessary permission from the Competent Authority in this regard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Noted, it is being/shall be complied as per directions. Project expansion activities yet to be started.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| viii. | Three tier Green Belt shall be developed in at least 33% of the project area in a period of two years to the extent possible all along the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas such as schools and villages nearby project site as committed. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC. | Noted it shall be complied as per direction. For existing project area, SPS has achieved the desired target of 33% greenbelt development by plantation of total Approx. 12800 plants including old plantations with tree density of approx. 2500 plants per hectare. Company has dedicated horticulture team to look after the green cover development and its post plantation care and maintenance. Some photographs of Greenbelt/Green cover development attached as <b>Annexurte-3</b><br><br>The construction for the proposed project units has still not begun and will proceed as per the approved plan for the new project. Compliance status in this regard is scheduled to be submitted to the Regional Office of the MoEF&CC in the forthcoming six-monthly report. |
| ix.   | All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 50 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Noted. Shall be complied with implementation of expansion project. However, welfare activities for socio-economic development of nearby villages has been started as per need and requirement of the local people. Shall be complied with implementation of expansion project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| x.    | PP shall undertake village adoption programme and prepare and implement the action plan to develop them into a model village.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPS has started the developmental activities in the village proposed to be adopted and it shall be implemented with due priority. Company has                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | dedicated team to look after the welfare and developmental activities in the surrounding of the plant.<br>The construction for the proposed project has not started yet. It will be followed as per direction with implementation of new project.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| xi.                          | PP shall carry out the periodical monitoring of soil quality in nearby villages as a part of post project compliance monitoring work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted.<br>Shall be complied with implementation of expansion project. Expansion project activities has not been started yet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>B. General Conditions</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>I.</b>                    | <b>Statutory compliance:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| i.                           | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.                                                                                                                                                                                       | Noted. It shall be adhered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>II.</b>                   | <b>Air quality monitoring and preservation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| i.                           | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | 24x7 continuous emission monitoring system (CEMS) at process stacks of existing project has been installed. We have also registered with new CPCB portal for CEMS and data transmission to new portal is under process with technical support team of our vendor/service provider.<br>It shall also be complied with implementation of expansion project as per directions.<br>Stack emission status and Ambient Air Quality Monitoring being done periodically through NABL accredited laboratory to evaluate status of stack emission & Ambient Air Quality.<br><br>Latest ambient air quality & stack emission monitoring report are attached as <b>Annexure -2&amp;4.</b> |
| ii.                          | The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx 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.                                                                                                                                                             | It shall be complied. Ambient Air Quality monitoring being done on regular interval. Last Ambient Air Quality monitoring report attached as <b>Annexure-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| iii.                         | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.                                                                                                                                                                                                                                                                                                                                                                                      | It is being complied and monitored through NABL accredited laboratory.<br>Latest fugitive emission monitoring report for existing plant is enclosed as <b>Annexure-5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| iv.   | Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.                                                                                                                    | It has been complied for existing project. Sampling facility at process stacks has been provided as per CPCB guidelines for manual monitoring of emissions and shall also be complied for expansion project.                                                                                                                                                                                                                                                                                                                                             |
| v.    | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | For Existing plant, Air pollution control devices i.e. ESPs and Bag Filters along with dust extraction and water sprinkling system for dust suppression have been installed and efficiently operated to control emission level well within the norms. It shall also be implanted with implementation projects.<br><br>Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels. Latest stack emission and fugitive emission monitoring report is enclosed as <b>Annexure-4 and Annexure-5</b> . |
| vi.   | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.                                                                                                        | Being complied. Skilled manpower looks after and regularly monitor the operation and maintenance of bag filters.<br>It shall also be complied with expansion project.                                                                                                                                                                                                                                                                                                                                                                                    |
| vii.  | Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.                                                                                                    | Existing plant roads and shop floors being cleaned on regular basis. Mobile or stationery vacuum cleaners shall be provided with implementation of expansion project.                                                                                                                                                                                                                                                                                                                                                                                    |
| viii. | Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.       | All raw material transportation vehicle being/shall be covered with tarpaulin while transportation of raw materials to prevent any kind of spillage.                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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.                      | To ensure optimal use of raw material & minimal solid waste generation, recycle & reuse practice already been adopted.<br>However, in DRI unit Iron Pellet is preferred as raw material and iron fines generated/collected from pollution control devices being provided to pellet making plant and coal fines being provided to power generating unit for captive power generation.<br>Briquetting and sinter plant shall be installed with expansion project.                                                                                          |
| x.    | The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.                                                                                                                    | It shall be followed as per direction with implementation of new project. At present there is no SMS unit with exiting project.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| xi.   | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.                                                                                                                                         | Proper water sprinkling being done over stock piles of raw materials, tall species plantation has been done to act as wind shelter fence and barrier against dust emission from the yard.<br>It shall be implanted with implementation of expansion projects as per direction.                                                                                                                                                                                                                                                                           |

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| xii.   | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | It is compiled and shall also be complied with upcoming expansion project facilities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| xiii.  | Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | It is Being/shall be followed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| xiv.   | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. | Environment protection measures like ESPs, bag filters (bag houses) dust extraction system, fixed water sprinklers are installed and effectively operated. Water sprinkling on roads by mobile water tanker inside and outside of the plant premises being carried out during dry weather condition on regular basis to suppress the suspended dust emission to the atmosphere. Greenbelt development and its maintenance, gap filling has been done on regular basis.<br>Covered transportation of raw materials being done. Battery operated cars have been procured to reduce the vehicular emission and to promote use of cleaner fuel.<br>501 kWp Solar panel is also installed as an alternative source of energy.<br>These facilities along with Fog/Mist water cannon truck mounted shall be provided with implementation of expansion project. |
| xv.    | Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Company has technically qualified team for each & every separate division for operation, maintenance & monitoring of the bag filter efficiency and other pollution control devices on regular basis.<br>It shall also be complied with implementation projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| xvi.   | Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | It is being compiled for existing plant.<br>As per direction, it will also be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| xvii.  | The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.                                                                                                                                                                                                                                                                                                                                                                                                   | Noted, it shall be complied.<br>Already installed (existing) projects complies with emission standards as stipulated in CTO by West Bengal Pollution Control Board. 24x7 stack monitoring system has been installed. Manual Stack emission monitoring also being done by NABL accredited laboratory and also by WBPCB team on regular basis.<br>For proposed expansion project pollution control devices shall be installed so as to control emission level from process stacks less than 30 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                         |
| xviii. | Following additional arrangements to control fugitive dust shall be provided:<br>a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.                                                                                                                                                                                                                                                                                                                                                                        | It is being compiled for existing plant.<br>Sufficient nos. of fixed type water sprinklers for dust suppression in raw material & product handling areas along the conveyor, finished product house area, cooler discharge, Coal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|             | <p>b. Proper covered vehicle shall be used while transport of materials.</p> <p>c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.</p>                                                                                                                                                                                                                                                                                                                              | <p>Handling Plant (CHP), along with Kiln axis Coal, Iron Ore, Fly Ash handling area and all other dust prone areas. Installation of Fog/mist sprinklers shall also be done for the units with expansion project at required points.</p> <p>Materials being transported in covered vehicle. Wheel washing mechanism shall be provided at suitable place with upcoming new project as per direction.</p> <p>Concretization and paver making within the plant is under active progress. It also supports the fugitive emissions due to vehicular movements.</p> <p>Photographs of RCC roads and paver blocked area are attached as <b>Annexure-6</b></p> |
| xix.        | Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Noted, it shall be complied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| xx.         | The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.                                                                                                                                                                                                                                                                                                                                                                                                       | Noted, efforts shall be made to minimise the evaporation losses during jigging operation after implementation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| xxi.        | The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.                                                                                                                                                                                                                                                                                                                                                                                                                                  | It has been existing project and shall also be implemented with upcoming new project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| xxii.       | Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m <sup>3</sup> for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. | <p>Noted. It shall be complied.</p> <p>The construction for the proposed project has not been started yet. As per direction, it will be followed for expansion project.</p> <p>Work zone monitoring report through NABL accredited laboratory being periodically carried out and attached as <b>Annexure-5</b></p>                                                                                                                                                                                                                                                                                                                                    |
| xxiii.      | During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.                                                                                                                                                                                                                                                          | <p>Fugitive emission is being monitored by NABL accredited laboratories</p> <p>Latest fugitive air monitoring report is attached as <b>Annexure-5</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| xxiv.       | The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m <sup>3</sup> , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.                                                                                                                                                                                                                                                                                                        | It is being/shall be complied. Fugitive emission monitoring being done on regular basis in existing plant operation. To evaluate the status in existing plant operation and it shall also be implemented during upcoming proposed expansion too.                                                                                                                                                                                                                                                                                                                                                                                                      |
| xxv.        | Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.                                                                                                                                                                                                                                                                                                                   | Noted. It shall be implemented. The construction for the proposed project has not been started yet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| xxvi.       | Low NO <sub>x</sub> Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.                                                                                                                                                                                                                                                                                                                                                                                            | It shall be complied with implementation of proposed project. There is no re-heating furnace installed in existing project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>III.</b> | <b>Water quality monitoring and preservation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| i.          | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards                                                                                                                                                                                                                                                                                                                                                                                                                  | Company has adapted recycle and reuse practice and no industrial effluent being discharged outside                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|      | prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.                   | the factory premises. This practice shall also be adapted for new expansion project.                                                                                                                                                                                                                                                                                                                                                                             |
| 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 recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.                                      | It is being complied/shall be complied for coming new project as per direction.<br>Latest ground water monitoring report, based on sample taken from the village is attached as <b>Annexure-7</b> .                                                                                                                                                                                                                                                              |
| iii. | 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.                                                                                                                                                          | Impervious flooring of stockyard has been done and shall be ensured with garland drain as per direction so as to trap the run off materials. Catch pits at different location in the plant are made for recycling of effluents.<br>However, for existing project raw material like coal, and sponge iron are kept under the shed and those kept outside under open sky being covered under tarpaulin. Water sprinkling being done for dust suppression.          |
| iv.  | Water meters shall be provided at the inlet to all unit processes in the plants.                                                                                                                                                                                                                                                             | It is being complied for existing plant. As per direction, it shall also be followed for coming new expansion project.                                                                                                                                                                                                                                                                                                                                           |
| v.   | The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.                                                                                                                                                             | It is being complied for existing project and shall be complied for coming new project as per direction. Recycle and reuse practice has been adopted and no industrial effluent being discharged outside the factory premises.<br>This practice shall also be adapted for new expansion project.                                                                                                                                                                 |
| vi.  | The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body. | It is being complied for existing plant. As per direction, it will be followed for coming new project.<br>For existing project septic tank followed by soak pit facilities are provided for the treatment domestic sewage. STP shall be installed for the treatment of domestic sewage effluent and treated effluent shall be used for greenbelt/green cover development.<br>Latest Industrial Effluent Water analysis report is enclosed as <b>Annexure-8</b> . |
| vii. | All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.                                                        | Noted<br>It is being complied for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                  |



**Six Monthly Compliance Report  
(April-2025 to September-2025)**

**M/s SPS Steels Rolling Mills Limited**

|            |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                   |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| viii.      | Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.                                                                                                                                       | Noted. It shall be complied                                                                                                                                                                                                                       |
| ix.        | The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.                                                                  | Noted. It shall be implemented.                                                                                                                                                                                                                   |
| x.         | Air Cooled condensers shall be used in the captive power plant.                                                                                                                                                                                                    | Noted.<br>As per direction it shall be complied.                                                                                                                                                                                                  |
| <b>IV.</b> | <b>Noise monitoring and prevention</b>                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                   |
| i.         | Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | Noted<br>It is being compiled for existing plant. As per direction, it will be followed for coming new expansion project.<br>Latest ambient & work zone noise monitoring report are enclosed as <b>Annexure 9A &amp; Annexure 9B.</b>             |
| 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.                                                                                                          | It is being compiled for existing plant. As per direction, it will be followed for new expansion project.<br>Latest Ambient Noise Monitoring report are enclosed as <b>Annexure-9A.</b>                                                           |
| iii.       | PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.                                                                | For existing project, Personal Protection Equipment (PPE) like safety shoes, hand gloves, face shield, apron etc. being provided to the workmen deployed in hot work zone for minimal hot exposure.<br>Heat Stress analysis shall be carried out. |
| <b>V.</b>  | <b>Energy Conservation measures</b>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                   |
| i.         | Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.                                                                                                                                               | Noted, it shall be complied as far as possible with implementation project.                                                                                                                                                                       |
| ii.        | Restrict Gas flaring to < 1%.                                                                                                                                                                                                                                      | Noted. It shall be followed upon implementation proposed project. No Gas flaring being done with existing operations.                                                                                                                             |
| 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;                                                                                 | Noted.<br>We have installed 501 kWp solar panel at existing project and it is effectively under operation.<br><br>It shall also be our pathway of power generation from renewable energy sources during implementation of new project.            |
| iv.        | Provide LED lights in their offices and residential areas.                                                                                                                                                                                                         | It is being compiled for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                            |
| v.         | The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.                                                                                                                            | It shall be complied. At present no reheating furnace installed.                                                                                                                                                                                  |
| vi.        | Practice hot charging of slabs and billets/blooms as far as possible.                                                                                                                                                                                              | It is proposed and shall be complied with best possible efforts after execution of proposed project facilities i.e. SMS and rolling mills.                                                                                                        |



|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vii.       | Ensure installation of regenerative type burners on all reheating furnaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Noted. Installation of regenerative type burners on all reheating furnaces shall be ensured.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| viii.      | The project proponent shall provide waste heat recovery system on the DRI Kilns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | It is being compiled for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ix.        | The dolochar generated shall be used for power generation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | It is being compiled for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| x.         | Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | It shall be compiled after implementation of producer gas plant project.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| xi.        | The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | It is being compiled for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>VI.</b> | <b>Waste management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| i.         | Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Noted. It has been compiled compiled for existing plant. As per direction, it will also be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                |
| ii.        | Kitchen waste shall be composted or converted to biogas for further use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Noted. It is being compiled for existing plant. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                                                                              |
| iii.       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | It is being compiled for existing plant. As per direction, it will be followed for coming new project. Company has made an agreement with brick manufacturer and also has permission from ECL for illegal mined places at Bicched Bandh area near Narsamuda Colliery of Sodepur area to fill with fly ash. Agreement & permission copy attached as <b>Annexure-10A &amp; 10B.</b>                                                                                                                                          |
| iv.        | The Plastic Waste Management Rules 2016, inter-alia, mandated banning of Identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents. | It is being compiled for existing plant. As per direction, it also be followed for coming new expansion project.<br><br>Use of single use plastic is completely banned inside the plant premises.<br><br>Our EHS personnel are regularly creating awareness among people working within the factory premises to avoid the Single Use Plastic (SUP) items.<br><br>Further campaigning against SUP shall be conducted for more effective compliance of guidelines and Notification dated 12/08/2021 Of the Hon'ble Ministry. |
| v.         | A proper action plan must be implemented to dispose of the electronic waste generated in the industry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Electronic waste being kept on an identified location and shall be sold to authorise vender for disposal.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| vi.        | Solid waste utilization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <p>a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.</p> <p>b. PP shall recycle/reuse solid waste generated in the plant as far as possible.</p> <p>c. Used refractories shall be recycled as far as possible.</p>                                                                                                                                                                                                      | <p>It is being complied/shall be implement for proposed expansion and efforts shall be made to comply with directions.</p> <p>Ferro manganese slag being used for silico manganese production and silico-manganese slag is used as aggregated for road making and land filling purpose.</p> <p>Dolochar generated from DRI kiln is used/provided to captive power generation units.</p> <p>Used refractories being provided to its recyclers as far as possible if not used at our plant.</p> |
| vii.         | SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.                                                                                                                                                                                          | Noted, it shall be complied. Expansion project activities has not been started yet.                                                                                                                                                                                                                                                                                                                                                                                                           |
| viii.        | Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Noted.<br>The construction for the proposed project has not started yet.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ix.          | Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Noted<br>The construction for the proposed project has not started yet. As per direction, it will be followed for coming new project.                                                                                                                                                                                                                                                                                                                                                         |
| <b>VII.</b>  | <b>Green Belt</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| i.           | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.                                                                                                                                                                                                                                                                                                                                                                                                  | SPS has prepared GHG emission inventory and reduction of the same including carbon sequestration by trees. Carbone sequestration and carbon foot print based on expansion project is attached as <b>Annexure-11</b> .                                                                                                                                                                                                                                                                         |
| ii.          | Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | Noted. It shall be complied.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| iii.         | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.                                                                                                                                                                                                                                                                                                                                                                                                                                              | It is being compiled for existing plant.<br>Some photographs related to greening and paving/concretization of plant roads and other area are attached as <b>Annexure-6</b> .<br>As per direction, it shall also be followed for new expansion project.                                                                                                                                                                                                                                        |
| <b>VIII.</b> | <b>Public hearing and Human health issues</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| i.           | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.                                                                                                                                                                                                                                                                                                                                                                                                                                 | Noted. It is implemented for existing plant. Risk & Disaster Management Plan is attached as                                                                                                                                                                                                                                                                                                                                                                                                   |

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|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Annexure 12.</b> It shall also be prepared and implemented based on new expansion project.                                                                                                                                                                                                                                                                                                                                                                        |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Personnel working near noise generating source being provided the ear plug ear muff and for hot zone apron, hand glove, eye goggles and face shield as Personal Protection Equipment (PPE).                                                                                                                                                                                                                                                                          |
| 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.                                                                                                                                                                                                                                                                                                         | Noted. It shall be complied.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| iv.        | Occupational health surveillance of the workers shall be done on a regular basis and records maintained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | It is being/shall be complied. Occupational health surveillance of the workers being done on regular basis and records are maintained.<br>Health check-up report is enclosed as <b>Annexure-13</b> .                                                                                                                                                                                                                                                                 |
| <b>IX.</b> | <b>Environment Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| i.         | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.                                                                                                                                                                                                                                        | Noted. It shall be complied as per directions. SPS has started the developmental activities in the village proposed to be adapted and it shall be implemented with due priority. Company has dedicated team to look after the welfare and developmental activities in the surrounding of the plant.                                                                                                                                                                  |
| ii.        | The company shall have a well laid down environmental policy duly approve 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. | SPS has environmental policy ( <b>Annexure-14</b> ) and standard operating procedure has been implemented to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions.<br><br>The Company has also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. There is a reporting system in place to deal with any non-compliance/violation of environmental norms |



|           |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| 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 to the head of the organization.                                                                                                                                                                                                        | <p>An environmental cell has been set up under the supervision of senior executive to look after the day to day activities pertaining to environment &amp; pollution control issues of the company.</p> <p>Hierarchical system/ Administrative order of the environmental cell is follows:</p>  <pre> graph TD     CMD[CMD] --&gt; JTMD[J.T. MD]     JTMD --&gt; HES[Head - Environment Health &amp; Safety]     JTMD --&gt; UH[Unit Head]     HES --&gt; Env[Environment]     HES --&gt; Health[Health]     HES --&gt; Safety[Safety]     Env --&gt; EO[Env. Officer/Insp.]     Health --&gt; MO[Medical Officer]     Safety --&gt; SO[Safety Officer]     UH --&gt; OH[Operation Head] </pre> |
| iv.       | Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.                                                                                                                                                                                                                                                                 | <p>It is being/shall be complied.</p> <p>For existing plant regular monitoring of stack emission through NABL accredited third party laboratory being conducted periodically to evaluate the emission level of pollution control systems i.e. ESPs and bag filters.</p> <p>Our technical team keep on watch over the performance of pollution control equipment on regular basis and immediate corrective action being taken on abnormalities observed if any. Preventive maintenance of pollution control system also being done with scheduled shutdown of plant operations.</p>                                                                                                                                                                                                |
| <b>X.</b> | <b>Miscellaneous</b>                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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. | <p>It is complied.</p> <p>Advertisement in two local newspapers is attached as <b>Annexure-15</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                        | <p>It is complied. Copy of receiving letter is attached as <b>Annexure-16</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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.                                                                                                                                                                                                              | <p>Noted.</p> <p>It shall be complied and uploaded on company's website (<a href="https://www.spsgroup.co.in/">https://www.spsgroup.co.in/</a>) on regular basis as per direction.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| iv.       | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the                                                                                                                                                                                                            | <p>It is being complied for existing plant. As per direction, it will also be followed for coming new expansion project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Six Monthly Compliance Report  
(April-2025 to September-2025)**

**M/s SPS Steels Rolling Mills Limited**

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                     |
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|       | same at a convenient location for disclosure to the public and put on the website of the company.                                                                                                                                                                                                                                                                                                                                                                                           | Latest ambient air & stack monitoring reports for existing project are enclosed as <b>Annexure-2 &amp; Annexure-4.</b>                                                                                                                                                                              |
| v.    | Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented.                                                                                                                                                                                                                                                                                                                                                                         | Noted. It is being/shall be followed with implementation of project.                                                                                                                                                                                                                                |
| vi.   | 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.                                                                                                                                                                                                                                                 | Noted.<br>It shall be complied.                                                                                                                                                                                                                                                                     |
| vii.  | 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.                                                                                                                                                                                                                | The environment statement for FY 2024-25 of existing plant facilities has already been submitted to WBPCB with copy to MoEF&CC Sub office Kolkata.<br>Report shall be uploaded on the company's website ( <a href="https://www.spsgroup.co.in/">https://www.spsgroup.co.in/</a> ) as per direction. |
| viii. | 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.                                                                                                                                                                                                                        | Noted. It shall be complied. Expansion project activities has not been started yet.                                                                                                                                                                                                                 |
| 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.                                                                                                                                                                                                                                                                   | Noted.                                                                                                                                                                                                                                                                                              |
| x.    | The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.                                                                                                                                                 | Noted. It shall be complied.                                                                                                                                                                                                                                                                        |
| xi.   | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. | Noted. Directions shall be followed.                                                                                                                                                                                                                                                                |
| xii.  | 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).                                                                                                                                                                                                                                                                                                                        | Noted.<br>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).                                                                                                                      |
| xiii. | Concealing factual data or submission of false/fabricated data may result in revocation of this                                                                                                                                                                                                                                                                                                                                                                                             | Noted.                                                                                                                                                                                                                                                                                              |

|       |                                                                                                                                                                                                                                                                 |                             |
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|       | environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.                                                                                                                                                          |                             |
| xiv.  | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.                                                                                                                                         | Noted.                      |
| xv.   | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.                                                                                                     | Noted.                      |
| xvi.  | 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. | Noted. It shall be adhered. |
| xvii. | 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.                                                                        | Noted.                      |



## ANNEXURE-1

# **WATER SPRINKLING INSIDE AND OUTSIDE OF THE PLANT PREMISES** **BY MOBILE WATER TANKER**





**Poradiha, West Bengal, India** 🇮🇳  
 Poradiha, Kalkapur, West Bengal 722153, India  
 Poradiha, West Bengal 722153, India  
 Lat 23.605393° Long 86.88429°  
 Sun, 30/11/2025 09:14 AM GMT +05:30



GPS Map Camera



**Beljhupa, West Bengal, India** 🇮🇳  
 Sakora - Titari - Madhukunda - Nitiraj Rd, Beljhupa,  
 West Bengal 723121, India  
 Lat 23.611213° Long 86.878547°  
 Saturday, 15/11/2025 09:47 AM GMT +05:30



GPS Map Camera



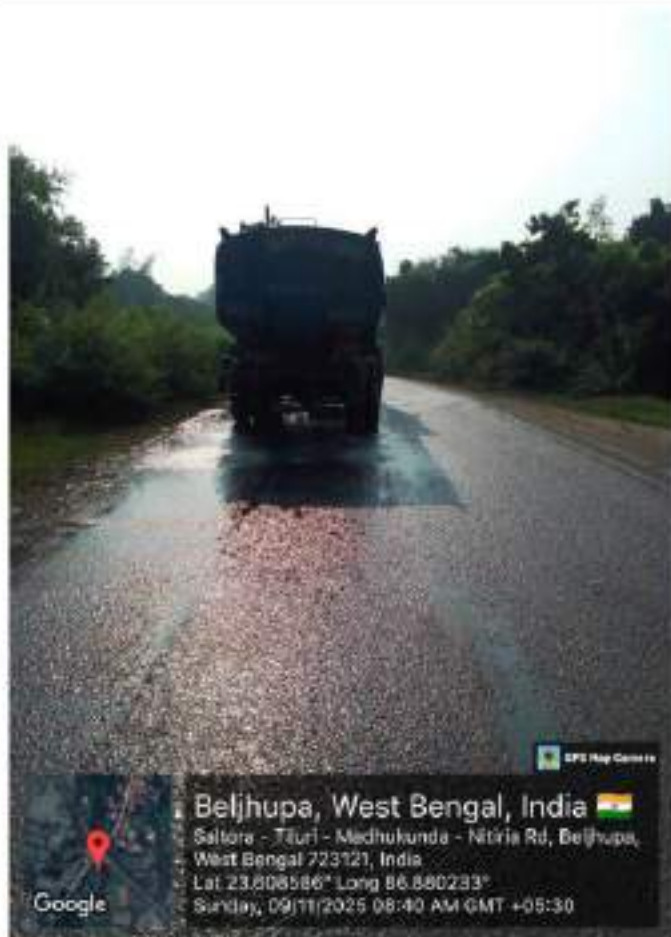
**Beljhupa, West Bengal, India** 🇮🇳  
 Sakora - Titari - Madhukunda - Nitiraj Rd, Beljhupa,  
 West Bengal 723121, India  
 Lat 23.614258° Long 86.885141°  
 Saturday, 15/11/2025 09:27 AM GMT +05:30



GPS Map Camera



**Madhukunda, West Bengal, India** 🇮🇳  
 Unit 2, Sps Shree Rolling Mills Ltd, Unit 2, Madhukunda,  
 West Bengal 722153, India  
 Lat 23.621962° Long 86.850656°  
 Sunday, 09/11/2025 11:48 AM GMT +05:30



## ANNEXURE-2



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC1513625000001482F

## TEST REPORT

|                         |                                                                                                                                       |                           |                        |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                          | Sample Ref. No.(ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09030                                                                                                                      | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                              | Sampling date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                             | Sample Registration Date  | : 08.09.2025           |
| Sample Details          | : <b>Ambient Air</b>                                                                                                                  | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : <b>SPS Steels Rolling Mills Ltd</b><br>Village - Poradiha<br>P.O – Pachhandapur<br>Dist – Purulia<br>West Bengal<br>Pin No – 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                                       | Remarks                   | : ----                 |
|                         |                                                                                                                                       | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                       | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                       | Deviation if any          | : None                 |

Sampling Location: Outside boundary wall towards Poradiha village

| SL NO | TESTS                                     | PROTOCOL                     | Limit as per NAAQS | RESULT |
|-------|-------------------------------------------|------------------------------|--------------------|--------|
| 1     | Particulate Matter $PM_{10}$ $\mu g/m^3$  | IS 5182:Part 23:2006         | 100                | 59.87  |
| 2     | Particulate Matter $PM_{2.5}$ $\mu g/m^3$ | EPA CFR40(pt 50), Appendix 1 | 60                 | 32.43  |
| 3     | Sulphur Dioxide ( $SO_2$ ), $\mu g/m^3$   | IS 5182:Part 2:2001          | 80                 | 16.69  |
| 4     | Nitrogen Dioxide ( $NO_2$ ), $\mu g/m^3$  | IS 5182:Part 6:2006          | 80                 | 28.21  |
| 5     | Ammonia ( $NH_3$ ), $\mu g/m^3$           | INDO PHENOL BLUE METHOD      | 400                | 26.58  |
| 6     | Ozone ( $O_3$ ), $\mu g/m^3$              | CHEMICAL METHOD              | 180                | 24.98  |

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Authorised Signatory  
**MADHUSUDAN KARIMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care

Phone : (0341) 3580061

Email : [ecocare@rediffmail.com](mailto:ecocare@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

## TEST REPORT

|                         |                                                                                                                              |                          |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09257030                                                                                                          | Source of Sample         | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date            | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration Date | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis       | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachbandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition         | : Sealed & Preserved   |
|                         |                                                                                                                              | Remarks                  | : ---                  |
|                         |                                                                                                                              | Sample Drawn By          | : ECO CARE             |
|                         |                                                                                                                              | Deviation if any         | : None                 |

Sampling Location: Outside boundary wall towards Poradiha village

| SL NO | TESTS                                                        | PROTOCOL                                        | Limit as per NAAQS | RESULT |
|-------|--------------------------------------------------------------|-------------------------------------------------|--------------------|--------|
| 7     | Lead (Pb), $\mu\text{g}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 1.0                | < 0.29 |
| 8     | Arsenic (As), $\text{ng}/\text{m}^3$                         | AAS METHOD AFTER SAMPLING                       | 6                  | < 0.09 |
| 9     | Nickel (Ni), $\text{ng}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 20                 | < 5.0  |
| 10    | Carbon Monoxide (CO), $\text{mg}/\text{m}^3$                 | NDIR SPECTROSCOPY                               | 2                  | 0.16   |
| 11    | Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$                  | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 1                  | < 0.2  |
| 12    | Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$ | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 5                  | < 1.0  |

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Authorised Signatory  
**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



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Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

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ULR NO - TC1513625000001483F

## TEST REPORT

|                         |                                                                                                                              |                           |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No (ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09031                                                                                                             | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration Date  | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                              | Remarks                   | : ---                  |
|                         |                                                                                                                              | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                              | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                              | Deviation if any          | : None                 |

Sampling Location: Western side of boundary wall

| SL NO | TESTS                                                  | PROTOCOL                     | Limit as per NAAQS | RESULT |
|-------|--------------------------------------------------------|------------------------------|--------------------|--------|
| 1     | Particulate Matter PM <sub>10</sub> µg/m <sup>3</sup>  | IS 5182:Part 23:2006         | 100                | 64.34  |
| 2     | Particulate Matter PM <sub>2.5</sub> µg/m <sup>3</sup> | EPA CFR40(pt 50), Appendix 1 | 60                 | 36.39  |
| 3     | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>  | IS 5182:Part 2:2001          | 80                 | 19.37  |
| 4     | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | IS 5182:Part 6:2006          | 80                 | 31.09  |
| 5     | Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>          | INDO PHENOL BLUE METHOD      | 400                | 30.26  |
| 6     | Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>             | CHEMICAL METHOD              | 180                | 27.68  |

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Authorised Signatory  
**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care

Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Monaj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSA5 45001:2018 Certified

## TEST REPORT

|                         |                                                                                                                              |                          |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09031                                                                                                             | Source of Sample         | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date            | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration Date | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis       | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition         | : Sealed & Preserved   |
|                         |                                                                                                                              | Remarks                  | : ---                  |
|                         |                                                                                                                              | Sample Drawn By          | : ECO CARE             |
|                         |                                                                                                                              | Deviation if any         | : None                 |

Sampling Location: Western side of the plant boundary wall

| SL NO | TESTS                                                        | PROTOCOL                                        | Limit as per NAAQS | RESULT |
|-------|--------------------------------------------------------------|-------------------------------------------------|--------------------|--------|
| 7     | Lead (Pb), $\mu\text{g}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 1.0                | < 0.27 |
| 8     | Arsenic (As), $\text{ng}/\text{m}^3$                         | AAS METHOD AFTER SAMPLING                       | 6                  | < 0.13 |
| 9     | Nickel (Ni), $\text{ng}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 20                 | < 5.0  |
| 10    | Carbon Monoxide (CO), $\text{mg}/\text{m}^3$                 | NDIR SPECTROSCOPY                               | 2                  | 0.19   |
| 11    | Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$                  | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 1                  | < 0.2  |
| 12    | Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$ | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 5                  | < 1.0  |

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LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC1513625000001467F

## TEST REPORT

|                         |                                                                                                                              |                           |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09009                                                                                                             | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration Date  | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                              | Remarks                   | : ---                  |
|                         |                                                                                                                              | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                              | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                              | Deviation if any          | : None                 |

Sampling Location: Eastern side of the plant boundary outside coal shed

| SL NO | TESTS                                     | PROTOCOL                     | Limit as per NAAQS | RESULT |
|-------|-------------------------------------------|------------------------------|--------------------|--------|
| 1     | Particulate Matter $PM_{10}$ $\mu g/m^3$  | IS 5182:Part 23:2006         | 100                | 79.10  |
| 2     | Particulate Matter $PM_{2.5}$ $\mu g/m^3$ | EPA CFR40(pt 50), Appendix 1 | 60                 | 43.09  |
| 3     | Sulphur Dioxide ( $SO_2$ ), $\mu g/m^3$   | IS 5182:Part 2:2001          | 80                 | 24.95  |
| 4     | Nitrogen Dioxide ( $NO_2$ ), $\mu g/m^3$  | IS 5182:Part 6:2006          | 80                 | 33.55  |
| 5     | Ammonia ( $NH_3$ ), $\mu g/m^3$           | INDO PHENOL BLUE METHOD      | 400                | 28.93  |
| 6     | Ozone ( $O_3$ ), $\mu g/m^3$              | CHEMICAL METHOD              | 180                | 25.83  |

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**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care

Phone : (0341) 3580061

Email : ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur

Asansol - 713304

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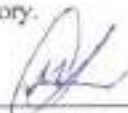
## TEST REPORT

|                         |                                                                                                                              |                      |                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF) | : EC/ARF/29/250902         |
| Test Report No          | : EC/TR/42/09009                                                                                                             | Source of Sample     | : Steel Plant              |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date        | : 05.09.2025 to 06.09.2025 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration  | : 08.09.2025               |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis   | : 08.09.25 to 09.09.2025   |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition     | : Sealed & Preserved       |
|                         |                                                                                                                              | Remarks              | : ---                      |
|                         |                                                                                                                              | Sample Drawn By      | : ECO CARE                 |
|                         |                                                                                                                              | Deviation if any     | : None                     |

**Sampling Location: Eastern side of the plant boundary outside coal shed**

| SL NO | TESTS                                                        | PROTOCOL                                        | Limit as per NAAQS | RESULT |
|-------|--------------------------------------------------------------|-------------------------------------------------|--------------------|--------|
| 7     | Lead (Pb), $\mu\text{g}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 1.0                | < 0.24 |
| 8     | Arsenic (As), $\text{ng}/\text{m}^3$                         | AAS METHOD AFTER SAMPLING                       | 6                  | < 0.14 |
| 9     | Nickel (Ni), $\text{ng}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 20                 | < 5.0  |
| 10    | Carbon Monoxide (CO), $\text{mg}/\text{m}^3$                 | NDIR SPECTROSCOPY                               | 2                  | 0.139  |
| 11    | Benzo (Alpha) Pyrene, $\text{ng}/\text{m}^3$                 | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 1                  | < 0.2  |
| 12    | Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$ | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 5                  | < 1.0  |

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LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

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Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC1513625000001468F

## TEST REPORT

|                         |                                                                                                                                |                           |                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                   | Sample Ref. No.(ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09010                                                                                                               | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                       | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                      | Sample Registration       | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                  | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village – Poradiha<br>P.O – Pachhandapur<br>Dist – Purulia<br>West Bengal<br>Pin No – 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                                | Remarks                   | : -----                |
|                         |                                                                                                                                | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                | Deviation if any          | : None                 |

Sampling Location: Northern side of plant boundary near water reservoir

| SL NO | TESTS                                     | PROTOCOL                     | Limit as per NAAQS | RESULT |
|-------|-------------------------------------------|------------------------------|--------------------|--------|
| 1     | Particulate Matter $PM_{10}$ $\mu g/m^3$  | IS 5182:Part 23:2006         | 100                | 73.22  |
| 2     | Particulate Matter $PM_{2.5}$ $\mu g/m^3$ | EPA CFR40(pt 50), Appendix 1 | 60                 | 33.74  |
| 3     | Sulphur Dioxide ( $SO_2$ ), $\mu g/m^3$   | IS 5182:Part 2:2001          | 80                 | 22.26  |
| 4     | Nitrogen Dioxide ( $NO_2$ ), $\mu g/m^3$  | IS 5182:Part 6:2006          | 80                 | 30.02  |
| 5     | Ammonia ( $NH_3$ ), $\mu g/m^3$           | INDO PHENOL BLUE METHOD      | 400                | 31.11  |
| 6     | Ozone ( $O_3$ ), $\mu g/m^3$              | CHEMICAL METHOD              | 180                | 28.18  |

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LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



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## TEST REPORT

|                         |                                                                                                                              |                          |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09010                                                                                                             | Source of Sample         | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                     | Sampling Date            | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Sample Registration Date | : 08.09.2025           |
| Sample Details          | : Ambient Air                                                                                                                | Period of Analysis       | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No - 722153 | Sample Condition         | : Sealed& Preserved    |
|                         |                                                                                                                              | Remarks                  | : ----                 |
|                         |                                                                                                                              | Sample Drawn By          | : ECO CARE             |
|                         |                                                                                                                              | Deviation if any         | : None                 |

Sampling Location: Northern side of plant boundary near water reservoir

| SL NO | TESTS                                                        | PROTOCOL                                        | Limit as per NAAQS | RESULT |
|-------|--------------------------------------------------------------|-------------------------------------------------|--------------------|--------|
| 7     | Lead (Pb), $\mu\text{g}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 1.0                | < 0.23 |
| 8     | Arsenic (As), $\text{ng}/\text{m}^3$                         | AAS METHOD AFTER SAMPLING                       | 6                  | < 0.13 |
| 9     | Nickel (Ni), $\text{ng}/\text{m}^3$                          | AAS METHOD AFTER SAMPLING                       | 20                 | < 5.0  |
| 10    | Carbon Monoxide (CO), $\text{mg}/\text{m}^3$                 | NDIR SPECTROSCOPY                               | 2                  | 0.128  |
| 11    | Benzo(Alpha) Pyrene, $\text{ng}/\text{m}^3$                  | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 1                  | < 0.2  |
| 12    | Benzene ( $\text{C}_6\text{H}_6$ ), $\mu\text{g}/\text{m}^3$ | ABSORPTION & DESORPTION FOLLOWED BY GC ANALYSIS | 5                  | < 1.0  |

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Authorized Signatory

MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

## ANNEXURE-3

## **GREENBELT PHOTOGRAPHS**









## ANNEXURE-4

## Analysis Reports of Gaseous Emission

Identification Code: 1 6 0 7 2 0 2 5 1 0 6 9 5



## WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

## Analysis done at:

|                                                               |                                                                       |
|---------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. Name of Industry                                           | M/s. SPS Steels Rolling Mills Ltd.                                    |
| 2. Address                                                    | Vill.: Panchiha, P.O.: Pachchandapur, Dist.: Purulia.<br>Pin.: 722153 |
| 3. Category & Type                                            | Red & Integrated Steel Plant                                          |
| 4. Sampling Date                                              | 16.07.2025                                                            |
| 5. Duration of Sampling                                       | 34 min.                                                               |
| 6. Name of Laboratory                                         | M/s. Green Vision                                                     |
| 7. Height of Stack from ground (m)                            | 35.0 m                                                                |
| 8. Cross section of Stack at sampling point (m <sup>2</sup> ) | 1.7679 m <sup>2</sup>                                                 |
| 9. Stack connected to                                         | Rotary Kiln No.-1&2 (Common Stack) through WHRB (Both in Operation)   |
| 10. Emission due to (Furnace / Boiler)                        | Reduction of Fe Ore & Oxidation of Coal                               |
| 11. Average operational hours of boiler/furnace (per month)   | 720 hrs/month                                                         |
| 12. APC System (if any)                                       | ESP                                                                   |
| 13. Working load of source (MT/hr)                            | 100 TPD=2                                                             |
| 14. Fuel used                                                 | Coal                                                                  |
| 15. Rated Fuel consumption (Kg or l /hr)                      | -                                                                     |
| 16. Working Fuel consumption (Kg or l /hr)                    | 4.7 TPH/Kiln                                                          |
| 17. Nature of furnace/boiler                                  | Rotary Kiln                                                           |
| 18. Flue Gas Temp (°C)                                        | 136.0                                                                 |
| 19. Flue gas velocity (m/s)                                   | 10.01                                                                 |
| 20. Volume of Flue gas drawn in lit (m <sup>3</sup> )         | 1.02                                                                  |
| 21. Corrected flue gas volume (Nm <sup>3</sup> )              | 0.9375                                                                |
| 22. Percentage of CO <sub>2</sub> & O <sub>2</sub>            | CO <sub>2</sub> =9.8%<br>O <sub>2</sub> =10.0%                        |
| 23. To be compensated at (% if required)                      | 12% CO <sub>2</sub>                                                   |
| 24. Initial wt of thimble (gm)                                | 1.6354                                                                |
| 25. Final wt of thimble (gm)                                  | 1.6534                                                                |
| 26. Wt. of PM (mg)                                            | 18.0                                                                  |
| 27. Particulate matter (mg/Nm <sup>3</sup> )                  | 23.51 at 12% CO <sub>2</sub>                                          |
| 28. Barometric Pressure Head (mm of Hg)                       | 752                                                                   |
| 29. Diameter of the nozzle                                    | 9.525 mm                                                              |
| 30. Others: SO <sub>2</sub>                                   |                                                                       |
| 31. Thimble Number                                            | 6149                                                                  |
| 32. Sampled by                                                | Mr. A. Bannan, AEE (ASRO)                                             |

21/07/25  
Date of ReportingAnanta  
21/07/25  
Prepared bySubhojit Das  
21/07/25  
Checked byBannan  
21/07/2025  
Signature of In-Charge, DRL

Copy to:

1. OSD - Operation & Execution, WBPCB
2. Chief Scientist, WBPCB
3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
4. Industry



## WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

## Analysis done at:

|                                                               |                                                                       |
|---------------------------------------------------------------|-----------------------------------------------------------------------|
| 1. Name of Industry                                           | M/s. SPS Steels Rolling Mills Ltd.                                    |
| 2. Address                                                    | Vill.: Pomadiha, P.O.: Pachchandapur, Dist.: Purulia.<br>Pin.: 722153 |
| 3. Category & Type                                            | Red & Integrated Steel Plant                                          |
| 4. Sampling Date                                              | 16.07.2025                                                            |
| 5. Duration of Sampling                                       | 29 min.                                                               |
| 6. Name of Laboratory                                         | M/s. Green Vision                                                     |
| 7. Height of Stack from ground (m)                            | 35.0 m                                                                |
| 8. Cross-section of Stack at sampling point (m <sup>2</sup> ) | 1.7679 m <sup>2</sup>                                                 |
| 9. Stack connected to                                         | Rotary Kiln No.-3&4 (Common Stack) through WHIRL (Both in Operation)  |
| 10. Emission due to (Furnace / Boiler)                        | Reduction of Fe Ore & Oxidation of Coal                               |
| 11. Average operational hours of boiler/furnace (per month)   | 720 hrs/month                                                         |
| 12. APC System (if any)                                       | ESP                                                                   |
| 13. Working load of source (MT/hr)                            | 100 TPD-2                                                             |
| 14. Fuel used                                                 | Coal                                                                  |
| 15. Rated Fuel consumption (Kg or l/hr)                       | -                                                                     |
| 16. Working Fuel consumption (Kg or l/hr)                     | 4.7 TPH/Kiln                                                          |
| 17. Nature of furnace/boiler                                  | Rotary Kiln                                                           |
| 18. Flue Gas Temp (°C)                                        | 143.0                                                                 |
| 19. Flue gas velocity (m/s)                                   | 11.43                                                                 |
| 21. Corrected flue gas volume (Nm <sup>3</sup> )              | 0.9390                                                                |
| 20. Volume of Flue gas drawn in lit (m <sup>3</sup> )         | 1.015                                                                 |
| 22. Percentage of CO <sub>2</sub> & O <sub>2</sub>            | CO <sub>2</sub> -10.0%<br>O <sub>2</sub> -9.8%                        |
| 23. To be compensated at (% if required)                      | 12% CO <sub>2</sub>                                                   |
| 24. Initial wt of thimble (gm)                                | 1.7559                                                                |
| 25. Final wt of thimble (gm)                                  | 1.7769                                                                |
| 26. Wt. of PM (mg)                                            | 21.0                                                                  |
| 27. Particulate matter (mg/Nm <sup>3</sup> )                  | 26.84 at 12% CO <sub>2</sub>                                          |
| 28. Barometric Pressure Head (mm of Hg)                       | 752                                                                   |
| 29. Diameter of the nozzle                                    | 9.525 mm                                                              |
| 30. Others: SO <sub>2</sub>                                   |                                                                       |
| 31. Thimble Number                                            | 6179                                                                  |
| 32. Sampled by                                                | Mr. A. Barman, AEE (ASRO)                                             |

31/07/25

Date of Reporting

Prepared by

Checked by

Signature of In-Charge, DRL

Copy to:

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2. Chief Scientist, WBPCB
3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
4. Industry

## Analysis Reports of Gaseous Emission

Identification Code: 1607202510694



## WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

## Analysis done at:

|                                                               |                                                                      |
|---------------------------------------------------------------|----------------------------------------------------------------------|
| 1. Name of Industry                                           | M/s. SPS Steels Rolling Mills Ltd.                                   |
| 2. Address                                                    | Vill.: Poradiha, P.O.: Pachhandapur, Dist.: Purulia,<br>Pin.: 722153 |
| 3. Category & Type                                            | Red & Integrated Steel Plant (Power Div.)                            |
| 4. Sampling Date                                              | 16.07.2025                                                           |
| 5. Duration of Sampling                                       | 38 min.                                                              |
| 6. Name of Laboratory                                         | M/s. Green Vision                                                    |
| 7. Height of Stack from ground (m)                            | 35.0 m                                                               |
| 8. Cross section of Stack at sampling point (m <sup>2</sup> ) | 0.7857 m <sup>2</sup>                                                |
| 9. Stack connected to                                         | A.F.B.C. Boiler (4.0 MW)                                             |
| 10. Emission due to (Furnace / Boiler)                        | Combustion of Coal & Dolochar                                        |
| 11. Average operational hours of boiler/furnace (per month)   | 720 hrs/month                                                        |
| 12. APC System (if any)                                       | ESP                                                                  |
| 13. Working load of source (MT/hr)                            | Steam=16 TPH & Generator=4.0 MW                                      |
| 14. Fuel used                                                 | Coal+Dolochar                                                        |
| 15. Rated Fuel consumption (Kg or l /hr)                      | -                                                                    |
| 16. Working Fuel consumption (Kg or l /hr)                    | Coal=1.6 TPH & Dolochar=5.5 TPH                                      |
| 17. Nature of furnace/boiler                                  | A.F.B.C. Boiler                                                      |
| 18. Flue Gas Temp (°C)                                        | 129.0                                                                |
| 19. Flue gas velocity (m/s)                                   | 18.43                                                                |
| 20. Volume of Flue gas drawn in lit (m <sup>3</sup> )         | 1.026                                                                |
| 21. Corrected flue gas volume (Nm <sup>3</sup> )              | 0.9523                                                               |
| 22. Percentage of CO <sub>2</sub> & O <sub>2</sub>            | CO <sub>2</sub> =9.6%<br>O <sub>2</sub> =7.8%                        |
| 23. To be compensated at (% if required)                      | 6% O <sub>2</sub>                                                    |
| 24. Initial wt of thimble (gm)                                | 1.6778                                                               |
| 25. Final wt of thimble (gm)                                  | 1.7104                                                               |
| 26. Wt. of PM (mg)                                            | 32.60                                                                |
| 27. Particulate matter (mg/Nm <sup>3</sup> )                  | 38.90 at 6% O <sub>2</sub>                                           |
| 28. Barometric Pressure Head (mm of Hg)                       | 752                                                                  |
| 29. Diameter of the nozzle                                    | 6.35 mm                                                              |
| 30. Others: SO <sub>2</sub> & NO <sub>x</sub>                 |                                                                      |
| 31. Thimble Number                                            | 6145                                                                 |
| 32. Sampled by                                                | Mr. A. Barman, AEE (ASRO)                                            |

31/07/25  
Date of ReportingAnish Das  
31/07/25  
Prepared bySubhojit Das  
31/07/25  
Checked by31/07/2025  
Signature of In-Charge, DRL

- Copy to:
1. OSD - Operation & Execution, WBPCB
  2. Chief Scientist, WBPCB
  3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
  4. Industry



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000001461F

## TEST REPORT

|                         |                                                                                                                                 |                           |                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No.(ARF)      | : EC/ARF/29/250902   |
| Test Report No          | : EC/TR/42/09003                                                                                                                | Source of Sample          | : Steel Plant        |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 06.09.2025         |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025         |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025         |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sampling Location         | : ESP Stack          |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved |
|                         |                                                                                                                                 | Sample Stamped as         | : TH - 56            |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE           |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01       |
|                         |                                                                                                                                 | Remarks                   | : ---                |
|                         |                                                                                                                                 | Deviation if any          | : None               |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|    |                                     |                                                     |
|----|-------------------------------------|-----------------------------------------------------|
| 1  | Particular of the Plant             | : Steel Plant (Sponge Iron Div.)                    |
| 2  | Emission Due to                     | : Reduction of Iron Ore & Oxidation of Coal         |
| 3  | Stack Connected to                  | : Rotary Kiln No 1&2 (Both in operation) (2x100TPD) |
| 4  | Material of Construction            | : M.S                                               |
| 5  | Stack Height from G.L.              | : 35.0 m                                            |
| 6  | Height of Sampling Port from G.L.   | : ---                                               |
| 7  | Height of Sampling Port from L.D.Z. | : ---                                               |
| 8  | Dimension of Stack at Sampling Port | : 2.0 m                                             |
| 9  | Shape of the Stack                  | : Circular Ø                                        |
| 10 | Working Load                        | : Kiln no-1 = 5.7 MT/hr & Kiln no-2 = 5.4 MT/hr     |

## FUEL CHARACTERISTIC REPORT

|   |                            |                          |
|---|----------------------------|--------------------------|
| 1 | Source of Energy           | : Coal as Reducing Agent |
| 2 | Energy Consumption         | : 4.2 MT/hr each Kiln    |
| 3 | Calorific Value (K-Cal/Kg) | : ---                    |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|   |                                     | UNIT   | METHOD              |
|---|-------------------------------------|--------|---------------------|
| 1 | Flue Gas Temperature                | 142    | °C                  |
| 2 | Barometric Pressure                 | 755    | mm Hg               |
| 3 | Velocity of Flue Gas                | 7.88   | m/sec               |
| 4 | Flue Gas Quantity                   | 63924  | NM <sup>3</sup> /hr |
| 5 | Concentration of Particulate Matter | 27.55  | mg/NM <sup>3</sup>  |
| 6 | Concentration of CO <sub>2</sub>    | 9.4    | %                   |
| 7 | Concentration of SO <sub>2</sub>    | 128.45 | mg/NM <sup>3</sup>  |

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3. The Test report shall not be reproduced, without the written approval of laboratory

\*\*\*End of Test Report\*\*\*

Authorised Signatory

MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000001462F

## TEST REPORT

|                         |                                                                                                                                 |                           |                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No.(ARF)      | : EC/ARF/29/250902    |
| Test Report No          | : EC/TR/42/09004                                                                                                                | Source of Sample          | : Steel Plant         |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 06.09.2025          |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025          |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025          |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sampling Location         | : Rotary Kiln via ESP |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved  |
|                         |                                                                                                                                 | Sample Stamped as         | : TH - 57             |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE            |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01        |
|                         |                                                                                                                                 | Remarks                   | : ---                 |
|                         |                                                                                                                                 | Deviation if any          | : None                |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|                                       |                                                     |
|---------------------------------------|-----------------------------------------------------|
| 1 Particular of the Plant             | : Steel Plant (Sponge Iron Div.)                    |
| 2 Emission Due to                     | : Reduction of Iron Ore & Oxidation of Coal         |
| 3 Stack Connected to                  | : Rotary Kiln No 3&4 (Both in operation) (2x100TPD) |
| 4 Material of Construction            | : M.S                                               |
| 5 Stack Height from G.L.              | : 35.0 m                                            |
| 6 Height of Sampling Port from G.L.   | : ---                                               |
| 7 Height of Sampling Port from L.D.Z. | : ---                                               |
| 8 Dimension of Stack at Sampling Port | : 2.0 m                                             |
| 9 Shape of the Stack                  | : Circular Ø                                        |
| 10 Working Load                       | : Kiln no-3 = 5.3 MT/hr & Kiln no-4 = 5.6 MT/hr     |

## FUEL CHARACTERISTIC REPORT

|                              |                           |
|------------------------------|---------------------------|
| 1 Source of Energy           | : Coal, as Reducing Agent |
| 2 Energy Consumption         | : 4.7 MT/hr each Kiln     |
| 3 Calorific Value (K-Cal/Kg) | : ---                     |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|                                       |        | UNIT                | METHOD            |
|---------------------------------------|--------|---------------------|-------------------|
| 1 Flue Gas Temperature                | 139    | °C                  | IS 11255 : Part 3 |
| 2 Barometric Pressure                 | 755    | mm Hg               | IS 11255 : Part 3 |
| 3 Velocity of Flue Gas                | 7.56   | m/sec               | IS 11255 : Part 3 |
| 4 Flue Gas Quantity                   | 61458  | NM <sup>3</sup> /hr | IS 11255 : Part 3 |
| 5 Concentration of Particulate Matter | 32.41  | mg/NM <sup>3</sup>  | IS 11255 : Part 1 |
| 6 Concentration of CO <sub>2</sub>    | 9.8    | %                   | IS 13270          |
| 7 Concentration of SO <sub>2</sub>    | 135.51 | mg/NM <sup>3</sup>  | IS 11255 : Part 2 |

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\*\*\*End of Test Report\*\*\*

*Authorised Signature*  
**MADHUSUDAN KARMAKAR**  
 LABORATORY IN-CHARGE  
 AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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ULR NO – TC1513625000001463F

## TEST REPORT

|                         |                                                                                                                                 |                           |                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No (ARF)      | : EC/ARF/29/250902    |
| Test Report No          | : EC/TR/42/09005                                                                                                                | Source of Sample          | : Steel Plant         |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 05.09.2025          |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025          |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025          |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village – Poradiha<br>P.O – Pachhandapur<br>Dist – Purulia<br>West Bengal<br>Pin No – 722153 | Sampling Location         | : AFBC Boiler via ESP |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved  |
|                         |                                                                                                                                 | Sample Stamped as         | : TH – 58             |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE            |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01        |
|                         |                                                                                                                                 | Remarks                   | : ---                 |
|                         |                                                                                                                                 | Deviation if any          | : None                |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|    |                                     |                                  |
|----|-------------------------------------|----------------------------------|
| 1  | Particular of the Plant             | : Steel Plant (Power Plant Div.) |
| 2  | Emission Due to                     | : Combustion of Coal             |
| 3  | Stack Connected to                  | : AFBC Boiler Via ESP            |
| 4  | Material of Construction            | : M.S                            |
| 5  | Stack Height from G.L.              | : 35.0 m                         |
| 6  | Height of Sampling Port from G.L.   | : ---                            |
| 7  | Height of Sampling Port from L.D.Z. | : ---                            |
| 8  | Dimension of Stack at Sampling Port | : 1.0 m                          |
| 9  | Shape of the Stack                  | : Circular Ø                     |
| 10 | Working Load                        | : 16 TPH                         |

## FUEL CHARACTERISTIC REPORT

|   |                            |             |
|---|----------------------------|-------------|
| 1 | Source of Energy           | : Coal      |
| 2 | Energy Consumption         | : 8.2 MT/hr |
| 3 | Calorific Value (K-Cal/Kg) | : ---       |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|   |                                                              | UNIT   | METHOD              |
|---|--------------------------------------------------------------|--------|---------------------|
| 1 | Flue Gas Temperature                                         | 152    | °C                  |
| 2 | Barometric Pressure                                          | 755    | mm Hg               |
| 3 | Velocity of Flue Gas                                         | 14.28  | m/sec               |
| 4 | Flue Gas Quantity                                            | 28164  | NM <sup>3</sup> /hr |
| 5 | Concentration of Particulate Matter                          | 23.65  | mg/NM <sup>3</sup>  |
| 6 | Concentration of Particulate Matter ( at 6% O <sub>2</sub> ) | 26.87  | mg/NM <sup>3</sup>  |
| 7 | Concentration of CO <sub>2</sub>                             | 11.2   | %                   |
| 8 | Concentration of SO <sub>2</sub>                             | 128.22 | mg/NM <sup>3</sup>  |
| 9 | Concentration of NO <sub>x</sub>                             | 84.12  | mg/NM <sup>3</sup>  |

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Authorised Signatory

MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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ULR NO – TC1513625000001464F

## TEST REPORT

|                         |                                                                                                                                 |                           |                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No.(ARF)      | : EC/ARF/29/250902   |
| Test Report No          | : EC/TR/42/09006                                                                                                                | Source of Sample          | : Steel Plant        |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 06.09.2025         |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025         |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025         |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village – Poradiha<br>P.O – Pachhandapur<br>Dist – Purulia<br>West Bengal<br>Pin No – 722153 | Sampling Location         | : Bag Filter Stack   |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved |
|                         |                                                                                                                                 | Sample Stamped as         | : TH – 59            |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE           |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01       |
|                         |                                                                                                                                 | Remarks                   | : ---                |
|                         |                                                                                                                                 | Deviation if any          | : None               |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| 1 Particular of the Plant             | : Steel Plant ( Ferro Alloys Div.)     |
| 2 Emission Due to                     | : Melting of Mn Ore                    |
| 3 Stack Connected to                  | : Submerged Arc Furnace Via Bag Filter |
| 4 Material of Construction            | : M.S                                  |
| 5 Stack Height from G.L.              | : 30.0 m                               |
| 6 Height of Sampling Port from G.L.   | : ---                                  |
| 7 Height of Sampling Port from L.D.Z. | : ---                                  |
| 8 Dimension of Stack at Sampling Port | : 1.8 m                                |
| 9 Shape of the Stack                  | : Circular Ø                           |
| 10 Working Load                       | : 9 MVA                                |

## FUEL CHARACTERISTIC REPORT

|                              |               |
|------------------------------|---------------|
| 1 Source of Energy           | : Electricity |
| 2 Energy Consumption         | : ---         |
| 3 Calorific Value (K-Cal/Kg) | : ---         |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|                                       |       | UNIT                | METHOD            |
|---------------------------------------|-------|---------------------|-------------------|
| 1 Flue Gas Temperature                | 82    | °C                  | IS 11255 : Part 3 |
| 2 Barometric Pressure                 | 755   | mm Hg               | IS 11255 : Part 3 |
| 3 Velocity of Flue Gas                | 7.54  | m/sec               | IS 11255 : Part 3 |
| 4 Flue Gas Quantity                   | 57525 | NM <sup>3</sup> /hr | IS 11255 : Part 3 |
| 5 Concentration of Particulate Matter | 29.36 | mg/NM <sup>3</sup>  | IS 11255 : Part 1 |

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\*\*\*End of Test Report\*\*\*

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 LABORATORY IN-CHARGE  
 AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

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## TEST REPORT

|                         |                                                                                                                                 |                           |                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No.(ARF)      | : EC/ARF/29/250902   |
| Test Report No          | : EC/TR/42/09007                                                                                                                | Source of Sample          | : Steel Plant        |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 06.09.2025         |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025         |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025         |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sampling Location         | : Bag Filter Stack   |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved |
|                         |                                                                                                                                 | Sample Stamped as         | : TH - 60            |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE           |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01       |
|                         |                                                                                                                                 | Remarks                   | : ---                |
|                         |                                                                                                                                 | Deviation if any          | : None               |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|    |                                     |                                  |
|----|-------------------------------------|----------------------------------|
| 1  | Particular of the Plant             | : Steel Plant (Sponge Iron Div.) |
| 2  | Emission Due to                     | : Process Activity               |
| 3  | Stack Connected to                  | : Product House via Bag Filter   |
| 4  | Material of Construction            | : M.S                            |
| 5  | Stack Height from G.L.              | : 30.0 m                         |
| 6  | Height of Sampling Port from G.L.   | : ---                            |
| 7  | Height of Sampling Port from L.D.Z. | : ---                            |
| 8  | Dimension of Stack at Sampling Port | : 0.6 m                          |
| 9  | Shape of the Stack                  | : Circular Ø                     |
| 10 | Working Load                        | : ---                            |

## FUEL CHARACTERISTIC REPORT

|   |                            |       |
|---|----------------------------|-------|
| 1 | Source of Energy           | : --- |
| 2 | Energy Consumption         | : --- |
| 3 | Calorific Value (K-Cal/Kg) | : --- |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|   |                                     | UNIT  | METHOD              |
|---|-------------------------------------|-------|---------------------|
| 1 | Flue Gas Temperature                | 42    | °C                  |
| 2 | Barometric Pressure                 | 755   | mm Hg               |
| 3 | Velocity of Flue Gas                | 7.65  | m/sec               |
| 4 | Flue Gas Quantity                   | 7322  | NM <sup>3</sup> /hr |
| 5 | Concentration of Particulate Matter | 42.32 | mg/NM <sup>3</sup>  |

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 30 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

\*\*\*End of Test Report\*\*\*

Authorised Signatory  
  
**MADAN SUDAN KARMAKAR**  
 LABORATORY IN-CHARGE  
 AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC151362500001466F

## TEST REPORT

|                         |                                                                                                                                 |                           |                      |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No.(ARF)      | : EC/ARF/29/250902   |
| Test Report No          | : EC/TR/42/09008                                                                                                                | Source of Sample          | : Steel Plant        |
| Type of Sample          | : Dust & Gaseous Emission                                                                                                       | Sampling Date             | : 05.09.2025         |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Registration Date  | : 08.09.2025         |
| Sample Details          | : Stack Emission                                                                                                                | Period of Analysis        | : 08.09.2025         |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sampling Location         | : Bag Filter Stack   |
|                         |                                                                                                                                 | Sample Condition          | : Sealed & Preserved |
|                         |                                                                                                                                 | Sample Stamped as         | : TH - 61            |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE           |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01       |
|                         |                                                                                                                                 | Remarks                   | : ---                |
|                         |                                                                                                                                 | Deviation if any          | : None               |

## GENERAL INFORMATION PROVIDED BY CUSTOMER

|    |                                     |                                   |
|----|-------------------------------------|-----------------------------------|
| 1  | Particular of the Plant             | : Steel Plant (Sponge Iron Div.)  |
| 2  | Emission Due to                     | : Process Activity                |
| 3  | Stack Connected to                  | : Cooler Discharge via Bag Filter |
| 4  | Material of Construction            | : M.S                             |
| 5  | Stack Height from G.L.              | : 30.0 m                          |
| 6  | Height of Sampling Port from G.L.   | : ---                             |
| 7  | Height of Sampling Port from L.D.Z. | : ---                             |
| 8  | Dimension of Stack at Sampling Port | : 0.6 m                           |
| 9  | Shape of the Stack                  | : Circular Ø                      |
| 10 | Working Load                        | : ---                             |

## FUEL CHARACTERISTIC REPORT

|   |                            |       |
|---|----------------------------|-------|
| 1 | Source of Energy           | : --- |
| 2 | Energy Consumption         | : --- |
| 3 | Calorific Value (K-Cal/Kg) | : --- |

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

|   |                                     | UNIT  | METHOD              |
|---|-------------------------------------|-------|---------------------|
| 1 | Flue Gas Temperature                | 56    | °C                  |
| 2 | Barometric Pressure                 | 755   | mm Hg               |
| 3 | Velocity of Flue Gas                | 7.72  | m/sec               |
| 4 | Flue Gas Quantity                   | 7063  | NM <sup>3</sup> /hr |
| 5 | Concentration of Particulate Matter | 36.09 | mg/NM <sup>3</sup>  |

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\*\*\*End of Test Report\*\*\*

  
Authorised Signatory  
MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

## ANNEXURE-5



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000001484F

## TEST REPORT

|                     |                                 |                       |                        |
|---------------------|---------------------------------|-----------------------|------------------------|
| Report Release Date | 13.09.2025                      | Sample Ref. No.(ARF)  | : EC/ARF/29/250902     |
| Test Report No      | EC/TR/42/09032                  | Source of Sample      | : Steel Plant          |
| Type of Sample      | : Suspended Dust & Gases        | Sampling Date         | : 06.09.2025           |
| Sample Collected by | : Mr. Sumit Sarkar & Team       | Sample Receiving Date | : 08.09.2025           |
| Sample Details      | : Fugitive Air                  | Period of Analysis    | : 08.09.25 to 09.09.25 |
| Customer Name       | : SPS Steels Rolling Mills Ltd. | Sample Condition      | : Sealed & Preserved   |
| &Address            | P.O - Pachhandapur              | Remarks               | : ---                  |
|                     | Dist - Purulia                  | Sample Drawn By       | : ECO CARE             |
|                     | Village - Poradiha              | Sampling Plan &       |                        |
|                     | West Bengal                     | Procedure             | : EC/SOP/03/01         |
|                     | Pin No - 722153                 | Deviation if any      | : None                 |

|   |                           |        |   |                     |              |
|---|---------------------------|--------|---|---------------------|--------------|
| 1 | Average Temperature       | 32.3°C | 2 | Barometric Pressure | 755 mm of Hg |
| 3 | Average Relative Humidity | 78.0 % | 4 | Weather Condition   | Clear Day    |

### 1. Sampling Location : Near Rotary Kiln ( No - 1 & 2 )

| SL NO | TESTS                                                                   | PROTOCOL               | RESULT  |
|-------|-------------------------------------------------------------------------|------------------------|---------|
| 1     | Concentration of Suspended Particulate Matter, $\mu\text{g}/\text{m}^3$ | IS : 5182 (Part - 4) * | 1089.39 |
| 2     | Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$             | IS 5182 (Part 2): 2001 | 19.23   |
| 3     | Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$            | IS 5182 (Part 6): 2006 | 32.56   |

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.

\*\*\*End of Test Report\*\*\*

  
Authorised Signatory  
**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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ULR NO - TC1513625000001485F

## TEST REPORT

|                         |                                                                                                                                        |                           |                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                           | Sample Ref. No.(ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09033                                                                                                                       | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                               | Sampling Date             | : 06.09.2025           |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                              | Sample Receiving Date     | : 08.09.2025           |
| Sample Details          | : Fugitive Air                                                                                                                         | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : <b>SPS Steels Rolling Mills Ltd.</b><br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                                        | Remarks                   | : ---                  |
|                         |                                                                                                                                        | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                        | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                        | Deviation if any          | : None                 |

|   |                           |        |   |                     |              |
|---|---------------------------|--------|---|---------------------|--------------|
| 1 | Average Temperature       | 32.3°C | 2 | Barometric Pressure | 755 mm of Hg |
| 3 | Average Relative Humidity | 78.0 % | 4 | Weather Condition   | Clear Day    |

### 2. Sampling Location : Near Rotary Kiln ( No - 3 & 4 )

| SL NO | TESTS                                                                   | PROTOCOL               | RESULT  |
|-------|-------------------------------------------------------------------------|------------------------|---------|
| 1     | Concentration of Suspended Particulate Matter, $\mu\text{g}/\text{m}^3$ | IS : 5182 (Part - 4)   | 1163.27 |
| 2     | Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$             | IS 5182 (Part 2): 2001 | 20.56   |
| 3     | Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$            | IS 5182 (Part 6): 2006 | 32.32   |

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\*\*\*End of Test Report\*\*\*

  
Authorised Signatory  
**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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ULR NO - TC1513625000001486F

## TEST REPORT

|                         |                                                                                                                                        |                           |                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                           | Sample Ref. No.(ARF)      | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09034                                                                                                                       | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                               | Sampling Date             | : 06.09.2025           |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                              | Sample Registration Date  | : 08.09.2025           |
| Sample Details          | : Fugitive Air                                                                                                                         | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : <b>SPS Steels Rolling Mills Ltd.</b><br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                                        | Remarks                   | : ----                 |
|                         |                                                                                                                                        | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                        | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                        | Deviation if any          | : None                 |

|   |                           |         |   |                     |              |
|---|---------------------------|---------|---|---------------------|--------------|
| 1 | Average Temperature       | 32.3 °C | 2 | Barometric Pressure | 755 mm of Hg |
| 3 | Average Relative Humidity | 78.0 %  | 4 | Weather Condition   | Clear Day    |

### 3. Sampling Location : Near AFBC boiler

| SL NO | TESTS                                                                   | PROTOCOL                 | RESULT |
|-------|-------------------------------------------------------------------------|--------------------------|--------|
| 1     | Concentration of Suspended Particulate Matter, $\mu\text{g}/\text{m}^3$ | IS : 5182 (Part - 4)     | 798.69 |
| 2     | Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$             | IS 5182 (Part 2): 2001 * | 23.82  |
| 3     | Nitrogen Dioxide ( $\text{NO}_2$ ), $\mu\text{g}/\text{m}^3$            | IS 5182 (Part 6): 2006   | 35.11  |

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*Authorised Signatory*

**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

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ULR NO - TC1513625000001487F

## TEST REPORT

|                         |                                                                                                                                 |                           |                        |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                    | Sample Ref. No. (ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09035                                                                                                                | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Suspended Dust & Gases                                                                                                        | Sampling Date             | : 06.09.2025           |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                       | Sample Receiving Date     | : 08.09.2025           |
| Sample Details          | : Fugitive Air                                                                                                                  | Period of Analysis        | : 08.09.25 to 09.09.25 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sample Condition          | : Sealed & Preserved   |
|                         |                                                                                                                                 | Remarks                   | : ---                  |
|                         |                                                                                                                                 | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                 | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                 | Deviation if any          | : None                 |

|   |                           |        |   |                     |              |
|---|---------------------------|--------|---|---------------------|--------------|
| 1 | Average Temperature       | 32.3°C | 2 | Barometric Pressure | 755 mm of Hg |
| 3 | Average Relative Humidity | 78.0%  | 4 | Weather Condition   | Clear Day    |

### 4. Sampling Location : Near SAF control room

| SL NO | TESTS                                                                   | PROTOCOL               | RESULT |
|-------|-------------------------------------------------------------------------|------------------------|--------|
| 1     | Concentration of Suspended Particulate Matter, $\mu\text{g}/\text{m}^3$ | IS : 5182 (Part - 4)   | 636.27 |
| 2     | Sulphur Dioxide ( $\text{SO}_2$ ), $\mu\text{g}/\text{m}^3$             | IS 5182 (Part 2): 2001 | 17.73  |
| 3     | Nitrogen Dioxide ( $\text{NO}_x$ ), $\mu\text{g}/\text{m}^3$            | IS 5182 (Part 6): 2006 | 28.29  |

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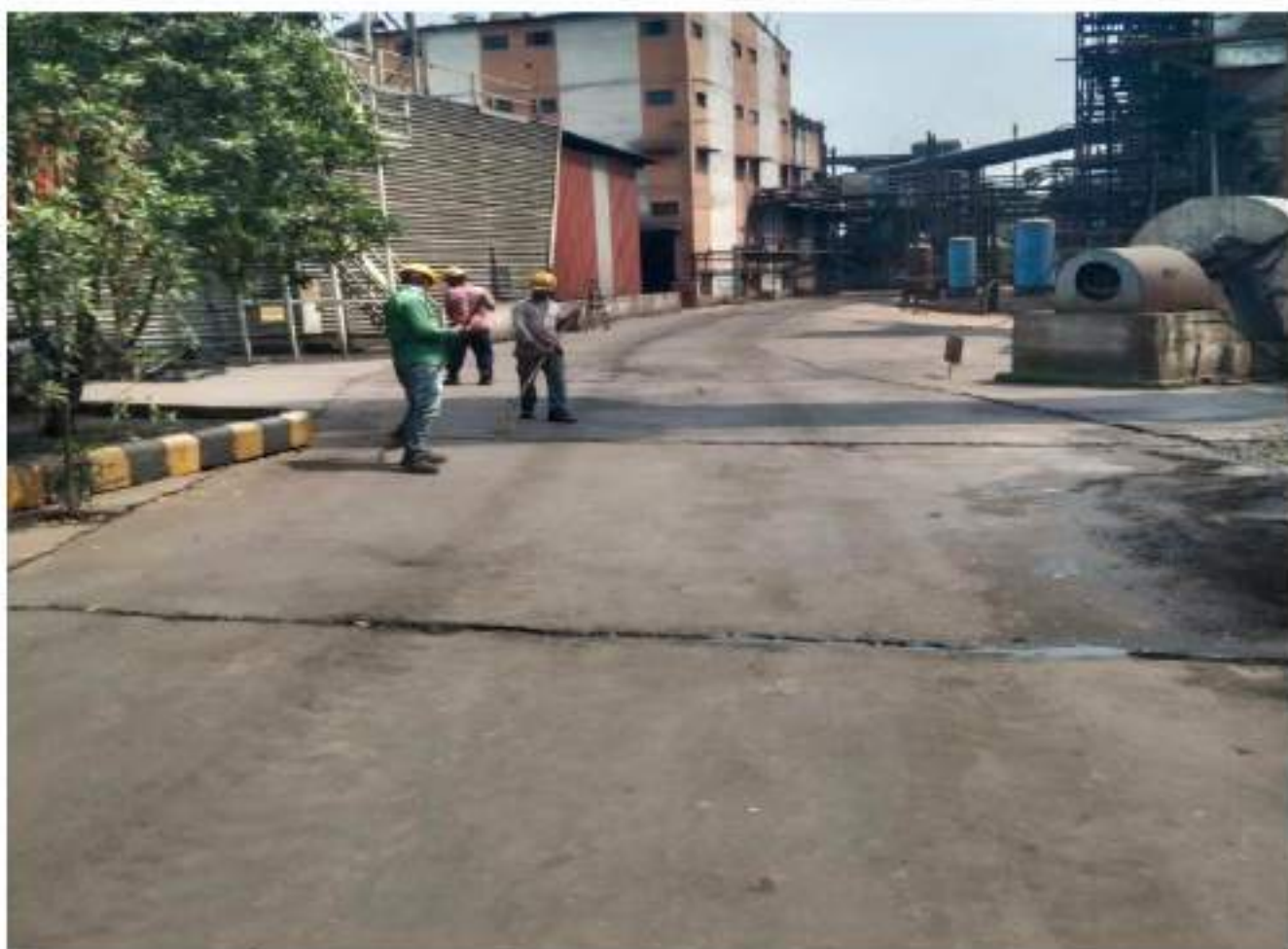
  
Authorised Signatory  
MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*

## ANNEXURE-6

## **RCC ROAD AND PAVER BLOCK PHOTOGRAPHS**







## ANNEXURE-7



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC151362500001470F

## TEST REPORT

|                         |                                                                                                                             |                           |                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                | Sample Ref. No.(ARF)      | : EC/ARF/29/250902           |
| Test Report No          | : EC/TR/42/09011                                                                                                            | Source of Sample          | : Steel Plant                |
| Type of Sample          | : Water                                                                                                                     | Sampling Date             | : 06.09.2025                 |
| Sample Collected by     | : Mr. Sumit Sarkar                                                                                                          | Sample Registration Date  | : 08.09.2025                 |
| Sample Details          | : Ground Water                                                                                                              | Period of Analysis        | : 08.09.2025                 |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia, West Bengal<br>Pin No. 722153 | Sampling Location         | : Poradiha Village Hand Pump |
|                         |                                                                                                                             | Sample Condition          | : Sealed & Preserved         |
|                         |                                                                                                                             | Sample Stamped as         | : EC/25/GW/0902/09           |
|                         |                                                                                                                             | Sample Drawn By           | : Eco Care                   |
|                         |                                                                                                                             | Remarks                   | : ---                        |
|                         |                                                                                                                             | Sampling Plan & Procedure | : EC/SOP/03/01               |
|                         |                                                                                                                             | Deviation if any          | : None                       |

| Sl. No. | Parameters                                   | Unit  | Test Method (APHA 24 <sup>th</sup> Edition) | Standards (IS:10500) | Results |
|---------|----------------------------------------------|-------|---------------------------------------------|----------------------|---------|
| 1       | pH at 25.6 °C                                |       | 4500-H <sup>+</sup> B                       | 6.5 - 8.5            | 7.24    |
| 2       | TDS                                          | mg/l  | 2540 C                                      | 500.0                | 458.10  |
| 3       | TSS                                          | mg/l  | 2540 D : 2017                               | ---                  | < 5.00  |
| 4       | Turbidity                                    | NTU   | 2130 B                                      | 1.0                  | < 1.00  |
| 5       | Total Alkalinity (as CaCO <sub>3</sub> )     | mg/l  | 2320 B                                      | 200.0                | 105.84  |
| 6       | Chloride (as Cl <sup>-</sup> )               | mg/l  | 4500 - Cl <sup>-</sup> B                    | 250.0                | 19.08   |
| 7       | Calcium (as Ca <sup>2+</sup> )               | mg/l  | 3500 - Ca B                                 | 75.0                 | 33.52   |
| 8       | Total Chromium                               | mg/l  | IS 3025 (Part - 52): 2003                   | 0.05                 | < 0.03  |
| 9       | Total Hardness (as CaCO <sub>3</sub> )       | mg/l  | 2340 C                                      | 200.0                | 102.00  |
| 10      | Iron (as Fe)                                 | mg/l  | 3500 - Fe B                                 | 0.3                  | 0.08    |
| 11      | Sulphate (as SO <sub>4</sub> <sup>2-</sup> ) | mg/l  | 4500 - SO <sub>4</sub> <sup>2-</sup> E      | 200.0                | 19.46   |
| 12      | Magnesium (as Mg)                            | mg/l  | 3500 - Mg B                                 | 30.0                 | 4.46    |
| 13      | Arsenic                                      | mg/l  | 3500 As - B                                 | 0.01                 | < 0.01  |
| 14      | Fluoride (as F <sup>-</sup> )                | mg/l  | 3500 - F B/D                                | 1.0                  | 0.35    |
| 15      | Nitrate (as NO <sub>3</sub> <sup>-</sup> )   | mg/l  | 4500 - NO <sub>3</sub> <sup>-</sup> B       | 45.0                 | 2.10    |
| 16      | Chlorine Residual                            | mg/l  | 4500 - Cl <sup>-</sup> B                    | 0.2                  | < 0.10  |
| 17      | Acidity at pH 8.3                            | mg/l  | IS 3025(Part 22) : 1986                     | ---                  | < 5.00  |
| 18      | Ammoniacal Nitrogen                          | mg/l  | IS 3025(Part 34) : 1988                     | 0.5                  | < 0.20  |
| 19      | Phosphate as P                               | mg/l  | 4500 - P D/2017                             | ---                  | < 0.05  |
| 20      | Settle-able Solids                           | mg/l  | 2540 F : 2017                               | ---                  | < 5.00  |
| 21      | Silica as Si                                 | mg/l  | 4500 - SiO <sub>2</sub> C                   | ---                  | 3.55    |
| 22      | Conductivity                                 | µs/cm | 2510 B                                      | ---                  | 830     |

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Authorised Signatory

MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*

## ANNEXURE-8



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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ULR No - TC1513625000001471F

## TEST REPORT

|                         |                                                                                                                                       |                           |                                            |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                          | Sample Ref. No (ARF)      | : EC/ARF/29/250902                         |
| Test Report No          | : EC/TR/42/09013                                                                                                                      | Source of Sample          | : Steel Plant                              |
| Type of Sample          | : Water                                                                                                                               | Sampling Date             | : 06.09.2025                               |
| Sample Collected by     | : Mr. Sumit Sarkar                                                                                                                    | Sample Registration Date  | : 08.09.2025                               |
| Sample Details          | : Process Water                                                                                                                       | Period of Analysis        | : 08.09.25 to 11.09.25                     |
| Customer Name & Address | : <b>SPS Steels Rolling Mills Ltd</b><br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sampling Location         | : Recycle water tank<br>Inside the Factory |
|                         |                                                                                                                                       | Sample Condition          | : Sealed & Preserved                       |
|                         |                                                                                                                                       | Sample Stamped as         | : EC/25/W1/0902/11                         |
|                         |                                                                                                                                       | Sample Drawn By           | : ECO CARE                                 |
|                         |                                                                                                                                       | Remarks                   | : ---                                      |
|                         |                                                                                                                                       | Sampling Plan & Procedure | : EC/SOP/03/01                             |
|                         |                                                                                                                                       | Deviation if any          | : None                                     |

| Sl. No. | Parameters              | Unit | Test Method (APHA 24 <sup>th</sup> Edition)         | Standards (EPR 1986 & IS 2296:1982) | Results |
|---------|-------------------------|------|-----------------------------------------------------|-------------------------------------|---------|
| 1       | pH at 25.8°C            |      | APHA 24 <sup>th</sup> Edition 4500-H <sup>+</sup> B | 5.5 - 9.0                           | 7.96    |
| 2       | TSS                     | mg/l | APHA 24 <sup>th</sup> Edition 2540 D                | 100.0                               | 26.80   |
| 3       | BOD (3 days) at 27.0 °C | mg/l | IS 3025 (Part - 44): 1993                           | 30.0                                | 11      |
| 4       | COD                     | mg/l | APHA 24 <sup>th</sup> Edition 5220 B                | 250.0                               | 38.30   |
| 5       | Oil & Grease            | mg/l | APHA 24 <sup>th</sup> Edition 5520 B                | 10.0                                | 2.32    |

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 30days 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

MADHUSUDAN KARMAKAR  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*

## ANNEXURE-9A



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC1513625000001488F

## TEST REPORT

|                         |                                                                                                                      |                           |                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                         | Sample Ref. No. (ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09269                                                                                                     | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Noise                                                                                                              | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                            | Sample Receiving Date     | : 08.09.2025           |
| Sample Details          | : Ambient Noise                                                                                                      | Period of Analysis        | : ---                  |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O – Puchhandapur<br>Dist – Purulia<br>West Bengal – 722153 | Sample Condition          | : ---                  |
|                         |                                                                                                                      | Remarks                   | : ---                  |
|                         |                                                                                                                      | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                      | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                      | Deviation if any          | : None                 |

### 1. Sampling Location : Outside boundary wall towards Poradiha village

| Date of Study |                      | 05.09.2025 |            | Day time   | 06:00 AM to 10:00 PM |
|---------------|----------------------|------------|------------|------------|----------------------|
| SL No         | Time                 | Minimum    | Leq – Mean | Maximum    | Day time Leq – Mean  |
| 1             | 06:00 AM to 07:00 AM | 43.9 dB(A) | 47.3 dB(A) | 53.8 dB(A) | 52.65 dB(A)          |
| 2             | 07:00 AM to 08:00 AM | 46.3 dB(A) | 50.6 dB(A) | 52.2 dB(A) |                      |
| 3             | 08:00 AM to 09:00 AM | 45.8 dB(A) | 48.7 dB(A) | 51.5 dB(A) |                      |
| 4             | 09:00 AM to 10:00 AM | 47.2 dB(A) | 50.4 dB(A) | 53.7 dB(A) |                      |
| 5             | 10:00 AM to 11:00 AM | 44.5 dB(A) | 47.6 dB(A) | 50.1 dB(A) |                      |
| 6             | 11:00 AM to 12:00 PM | 42.1 dB(A) | 46.9 dB(A) | 50.4 dB(A) |                      |
| 7             | 12:00 PM to 01:00 PM | 42.9 dB(A) | 45.1 dB(A) | 49.6 dB(A) |                      |
| 8             | 01:00 PM to 02:00 PM | 43.7 dB(A) | 48.2 dB(A) | 53.3 dB(A) |                      |
| 9             | 02:00 PM to 03:00 PM | 46.7 dB(A) | 49.5 dB(A) | 52.8 dB(A) |                      |
| 10            | 03:00 PM to 04:00 PM | 45.4 dB(A) | 47.8 dB(A) | 53.3 dB(A) |                      |
| 11            | 04:00 PM to 05:00 PM | 44.1 dB(A) | 49.2 dB(A) | 52.6 dB(A) |                      |
| 12            | 05:00 PM to 06:00 PM | 43.7 dB(A) | 46.3 dB(A) | 50.9 dB(A) |                      |
| 13            | 06:00 PM to 07:00 PM | 46.6 dB(A) | 50.7 dB(A) | 53.1 dB(A) |                      |
| 14            | 07:00 PM to 08:00 PM | 43.2 dB(A) | 47.1 dB(A) | 51.9 dB(A) |                      |
| 15            | 08:00 PM to 09:00 PM | 47.8 dB(A) | 49.6 dB(A) | 52.2 dB(A) |                      |
| 16            | 09:00 PM to 10:00 PM | 48.4 dB(A) | 51.9 dB(A) | 53.4 dB(A) |                      |

| Date of Study |                      | 05.09.2025 to 06.09.2025 |            | Night time | 10:00 PM to 6:00 AM   |
|---------------|----------------------|--------------------------|------------|------------|-----------------------|
| SL No         | Time                 | Minimum                  | Leq – Mean | Maximum    | Night time Leq – Mean |
| 17            | 10:00 PM to 11:00 PM | 36.8 dB(A)               | 39.5 dB(A) | 43.2 dB(A) | 43.64 dB(A)           |
| 18            | 11:00 PM to 12:00 AM | 40.4 dB(A)               | 41.3 dB(A) | 42.9 dB(A) |                       |
| 19            | 12:00 AM to 01:00 AM | 39.4 dB(A)               | 41.2 dB(A) | 42.2 dB(A) |                       |
| 20            | 01:00 AM to 02:00 AM | 38.5 dB(A)               | 38.9 dB(A) | 39.4 dB(A) |                       |
| 21            | 02:00 AM to 03:00 AM | 36.3 dB(A)               | 36.9 dB(A) | 37.8 dB(A) |                       |
| 22            | 03:00 AM to 04:00 AM | 40.3 dB(A)               | 41.0 dB(A) | 42.6 dB(A) |                       |
| 23            | 04:00 AM to 05:00 AM | 33.6 dB(A)               | 36.7 dB(A) | 39.4 dB(A) |                       |
| 24            | 05:00 AM to 06:00 AM | 37.4 dB(A)               | 42.6 dB(A) | 44.9 dB(A) |                       |

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**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareatansol@rediffmail.com](mailto:ecocareatansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000001489F

## TEST REPORT

|                         |                                                                                                                      |                           |                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                         | Sample Ref. No. (ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09270                                                                                                     | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Noise                                                                                                              | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                            | Sample Receiving Date     | : 08.09.2025           |
| Sample Details          | : Ambient Noise                                                                                                      | Period of Analysis        | : ---                  |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal - 722153 | Sample Condition          | : ---                  |
|                         |                                                                                                                      | Remarks                   | : ---                  |
|                         |                                                                                                                      | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                      | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                      | Deviation if any          | : None                 |

### 2. Sampling Location : Western side of boundary wall

| Date of Study |                      | 05.09.2025 |            | Day time   | 06:00 AM to 10:00PM |
|---------------|----------------------|------------|------------|------------|---------------------|
| SL No         | Time                 | Minimum    | Leq – Mean | Maximum    | Day time Leq – Mean |
| 1             | 06:00 AM to 07:00 AM | 44.2 dB(A) | 46.3 dB(A) | 48.7 dB(A) | 53.20 dB(A)         |
| 2             | 07:00 AM to 08:00 AM | 42.3 dB(A) | 47.5 dB(A) | 52.5 dB(A) |                     |
| 3             | 08:00 AM to 09:00 AM | 43.4 dB(A) | 46.6 dB(A) | 48.8 dB(A) |                     |
| 4             | 09:00 AM to 10:00 AM | 42.1 dB(A) | 47.2 dB(A) | 53.6 dB(A) |                     |
| 5             | 10:00 AM to 11:00 AM | 46.4 dB(A) | 49.3 dB(A) | 52.8 dB(A) |                     |
| 6             | 11:00 AM to 12:00 PM | 44.8 dB(A) | 49.0 dB(A) | 53.4 dB(A) |                     |
| 7             | 12:00 PM to 01:00 PM | 42.1 dB(A) | 45.2 dB(A) | 48.4 dB(A) |                     |
| 8             | 01:00 PM to 02:00 PM | 43.4 dB(A) | 48.4 dB(A) | 51.2 dB(A) |                     |
| 9             | 02:00 PM to 03:00 PM | 37.8 dB(A) | 49.3 dB(A) | 43.1 dB(A) |                     |
| 10            | 03:00 PM to 04:00 PM | 44.2 dB(A) | 46.5 dB(A) | 47.5 dB(A) |                     |
| 11            | 04:00 PM to 05:00 PM | 44.6 dB(A) | 47.7 dB(A) | 50.8 dB(A) |                     |
| 12            | 05:00 PM to 06:00 PM | 43.5 dB(A) | 46.9 dB(A) | 49.6 dB(A) |                     |
| 13            | 06:00 PM to 07:00 PM | 44.7 dB(A) | 48.2 dB(A) | 51.5 dB(A) |                     |
| 14            | 07:00 PM to 08:00 PM | 39.3 dB(A) | 44.6 dB(A) | 46.5 dB(A) |                     |
| 15            | 08:00 PM to 09:00 PM | 46.4 dB(A) | 50.1 dB(A) | 53.1 dB(A) |                     |
| 16            | 09:00 PM to 10:00 PM | 46.7 dB(A) | 48.8 dB(A) | 49.6 dB(A) |                     |

| Date of Study |                      | 05.09.2025 to 06.09.2025 | Night time | 10:00PM to 6:00AM |                       |
|---------------|----------------------|--------------------------|------------|-------------------|-----------------------|
| SL No         | Time                 | Minimum                  | Leq – Mean | Maximum           | Night time Leq – Mean |
| 17            | 10:00 PM to 11:00 PM | 37.3 dB(A)               | 41.2 dB(A) | 45.4 dB(A)        | 44.35 dB(A)           |
| 18            | 11:00 PM to 12:00 AM | 39.1 dB(A)               | 41.6 dB(A) | 42.3 dB(A)        |                       |
| 19            | 12:00 AM to 01:00 AM | 38.9 dB(A)               | 43.2 dB(A) | 47.2 dB(A)        |                       |
| 20            | 01:00 AM to 02:00 AM | 40.3 dB(A)               | 41.4 dB(A) | 42.3 dB(A)        |                       |
| 21            | 02:00 AM to 03:00 AM | 32.2 dB(A)               | 35.9 dB(A) | 39.6 dB(A)        |                       |
| 22            | 03:00 AM to 04:00 AM | 40.9 dB(A)               | 42.1 dB(A) | 43.5 dB(A)        |                       |
| 23            | 04:00 AM to 05:00 AM | 41.3 dB(A)               | 42.3 dB(A) | 43.8 dB(A)        |                       |
| 24            | 05:00 AM to 06:00 AM | 36.7 dB(A)               | 38.1 dB(A) | 39.8 dB(A)        |                       |

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Authorised Signatory

**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSA 45001:2018 Certified

ULR NO - TC1513625000001490F

## TEST REPORT

|                         |                                                                                                                                |                           |                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                   | Sample Ref. No. (ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09271                                                                                                               | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Noise                                                                                                                        | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                      | Sample Receiving Date     | : 08.09.2025           |
| Sample Details          | : Ambient Noise                                                                                                                | Period of Analysis        | : ---                  |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal<br>Pin No - 722153 | Sample Condition          | : ---                  |
|                         |                                                                                                                                | Remarks                   | : ---                  |
|                         |                                                                                                                                | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                                | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                                | Deviation if any          | : None                 |

### 3. Sampling Location : Northern side of plant boundary near water reservoir

|               |                      |            |         |            |         |                     |  |
|---------------|----------------------|------------|---------|------------|---------|---------------------|--|
| Date of Study |                      | 05.09.2025 |         | Day time   |         | 06:00 AM to 10:00PM |  |
| SL No         | Time                 | Unit       | Minimum | Leq – Mean | Maximum | Day time Leq – Mean |  |
| 1             | 06:00 AM to 07:00 AM | dB(A)      | 42.1    | 46.5       | 52.6    | 51.92dB(A)          |  |
| 2             | 07:00 AM to 08:00 AM | dB(A)      | 38.7    | 44.6       | 50.2    |                     |  |
| 3             | 08:00 AM to 09:00 AM | dB(A)      | 40.4    | 45.1       | 52.5    |                     |  |
| 4             | 09:00 AM to 10:00 AM | dB(A)      | 43.1    | 46.4       | 50.5    |                     |  |
| 5             | 10:00 AM to 11:00 AM | dB(A)      | 45.4    | 48.6       | 51.5    |                     |  |
| 6             | 11:00 AM to 12:00 PM | dB(A)      | 42.2    | 46.4       | 50.4    |                     |  |
| 7             | 12:00 PM to 01:00 PM | dB(A)      | 40.3    | 43.8       | 52.3    |                     |  |
| 8             | 01:00 PM to 02:00 PM | dB(A)      | 39.6    | 43.5       | 50.4    |                     |  |
| 9             | 02:00 PM to 03:00 PM | dB(A)      | 44.8    | 48.6       | 52.5    |                     |  |
| 10            | 03:00 PM to 04:00 PM | dB(A)      | 38.9    | 42.2       | 50.4    |                     |  |
| 11            | 04:00 PM to 05:00 PM | dB(A)      | 44.2    | 48.7       | 52.5    |                     |  |
| 12            | 05:00 PM to 06:00 PM | dB(A)      | 39.7    | 43.2       | 50.1    |                     |  |
| 13            | 06:00 PM to 07:00 PM | dB(A)      | 36.2    | 50.2       | 51.3    |                     |  |
| 14            | 07:00 PM to 08:00 PM | dB(A)      | 42.1    | 46.1       | 49.7    |                     |  |
| 15            | 08:00 PM to 09:00 PM | dB(A)      | 43.7    | 47.5       | 51.3    |                     |  |
| 16            | 09:00 PM to 10:00 PM | dB(A)      | 40.4    | 44.4       | 52.3    |                     |  |

| Date of Study |                      | 05.09.2025 to 06.09.2025 |         | Night time |         | 10:00PM to 6:00AM     |  |
|---------------|----------------------|--------------------------|---------|------------|---------|-----------------------|--|
| SL No         | Time                 | Unit                     | Minimum | Leq – Mean | Maximum | Night time Leq – Mean |  |
| 17            | 10:00 PM to 11:00 PM | dB(A)                    | 38.1    | 42.6       | 46.8    | 44.65 dB(A)           |  |
| 18            | 11:00 PM to 12:00 AM | dB(A)                    | 40.3    | 41.6       | 43.3    |                       |  |
| 19            | 12:00 AM to 01:00 AM | dB(A)                    | 37.6    | 40.6       | 42.1    |                       |  |
| 20            | 01:00 AM to 02:00 AM | dB(A)                    | 40.0    | 40.8       | 41.9    |                       |  |
| 21            | 02:00 AM to 03:00 AM | dB(A)                    | 35.2    | 37.4       | 40.5    |                       |  |
| 22            | 03:00 AM to 04:00 AM | dB(A)                    | 40.4    | 41.5       | 43.7    |                       |  |
| 23            | 04:00 AM to 05:00 AM | dB(A)                    | 38.1    | 40.9       | 42.9    |                       |  |
| 24            | 05:00 AM to 06:00 AM | dB(A)                    | 39.2    | 40.3       | 41.2    |                       |  |

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\*\*\*End of Test Report\*\*\*

*Authorised Signatory*  
**MADHUSUDAN KARMAKAR**  
 LABORATORY IN-CHARGE  
 AUTHORISED SIGNATORY



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000001491F

## TEST REPORT

|                         |                                                                                                                              |                           |                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No. (ARF)     | : EC/ARF/29/250902     |
| Test Report No          | : EC/TR/42/09272                                                                                                             | Source of Sample          | : Steel Plant          |
| Type of Sample          | : Noise                                                                                                                      | Sampling Date             | : 05.09.25 to 06.09.25 |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Period of Analysis        | : ---                  |
| Sample Details          | : Ambient Noise                                                                                                              | Sample Condition          | : ---                  |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal, Pin No - 722153 | Remarks                   | : ---                  |
|                         |                                                                                                                              | Sample Drawn By           | : ECO CARE             |
|                         |                                                                                                                              | Sampling Plan & Procedure | : EC/SOP/03/01         |
|                         |                                                                                                                              | Deviation if any          | : None                 |

### 4. Sampling Location : Eastern side of the plant boundary outside coal shed

|               |            |          |                     |
|---------------|------------|----------|---------------------|
| Date of Study | 05.09.2025 | Day time | 06:00 AM to 10:00PM |
|---------------|------------|----------|---------------------|

| SL No | Time                 | Unit  | Minimum | Leq - Mean | Maximum | Day time Leq - Mean |
|-------|----------------------|-------|---------|------------|---------|---------------------|
| 1     | 06:00 AM to 07:00 AM | dB(A) | 48.2    | 48.2       | 52.4    | 51.74 dB(A)         |
| 2     | 07:00 AM to 08:00 AM | dB(A) | 44.3    | 46.1       | 48.8    |                     |
| 3     | 08:00 AM to 09:00 AM | dB(A) | 46.3    | 50.5       | 53.9    |                     |
| 4     | 09:00 AM to 10:00 AM | dB(A) | 41.6    | 43.2       | 45.2    |                     |
| 5     | 10:00 AM to 11:00 AM | dB(A) | 45.9    | 47.4       | 49.9    |                     |
| 6     | 11:00 AM to 12:00 PM | dB(A) | 44.6    | 48.6       | 52.7    |                     |
| 7     | 12:00 PM to 01:00 PM | dB(A) | 46.3    | 48.8       | 50.8    |                     |
| 8     | 01:00 PM to 02:00 PM | dB(A) | 40.2    | 45.2       | 48.7    |                     |
| 9     | 02:00 PM to 03:00 PM | dB(A) | 44.9    | 47.6       | 51.4    |                     |
| 10    | 03:00 PM to 04:00 PM | dB(A) | 45.6    | 47.9       | 50.7    |                     |
| 11    | 04:00 PM to 05:00 PM | dB(A) | 44.3    | 46.2       | 47.9    |                     |
| 12    | 05:00 PM to 06:00 PM | dB(A) | 39.3    | 43.4       | 46.0    |                     |
| 13    | 06:00 PM to 07:00 PM | dB(A) | 44.1    | 46.3       | 48.6    |                     |
| 14    | 07:00 PM to 08:00 PM | dB(A) | 47.2    | 48.5       | 50.3    |                     |
| 15    | 08:00 PM to 09:00 PM | dB(A) | 48.4    | 50.2       | 51.8    |                     |
| 16    | 09:00 PM to 10:00 PM | dB(A) | 45.2    | 48.8       | 52.4    |                     |

|               |                        |            |                   |
|---------------|------------------------|------------|-------------------|
| Date of Study | 05.09.25 to 06.09.2025 | Night time | 10:00PM to 6:00AM |
|---------------|------------------------|------------|-------------------|

| SL No | Time                 | Unit  | Minimum | Leq - Mean | Maximum | Night time Leq - Mean |
|-------|----------------------|-------|---------|------------|---------|-----------------------|
| 17    | 10:00 PM to 11:00 PM | dB(A) | 35.8    | 37.3       | 39.3    | 40.47 dB(A)           |
| 18    | 11:00 PM to 12:00 AM | dB(A) | 40.0    | 41.2       | 42.9    |                       |
| 19    | 12:00 AM to 01:00 AM | dB(A) | 40.3    | 40.6       | 41.2    |                       |
| 20    | 01:00 AM to 02:00 AM | dB(A) | 36.9    | 37.2       | 38.4    |                       |
| 21    | 02:00 AM to 03:00 AM | dB(A) | 41.2    | 44.3       | 46.9    |                       |
| 22    | 03:00 AM to 04:00 AM | dB(A) | 35.9    | 36.6       | 37.1    |                       |
| 23    | 04:00 AM to 05:00 AM | dB(A) | 38.0    | 38.7       | 39.4    |                       |
| 24    | 05:00 AM to 06:00 AM | dB(A) | 40.7    | 42.2       | 44.0    |                       |

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**MADHU SUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*

## **ANNEXURE-9B**



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSA 45001:2018 Certified

URL NO. - TC1513625000001475F

## TEST REPORT

|                     |                                 |                          |                    |
|---------------------|---------------------------------|--------------------------|--------------------|
| Report Release Date | : 13.09.2025                    | Sample Ref. No.(ARF)     | : EC/ARF/29/250902 |
| Test Report No      | : EC/TR/42/09017                | Source of Sample         | : Steel Plant      |
| Type of Sample      | : Noise                         | Sampling Date            | : 05.09.2025       |
| Sample Collected by | : Mr. Sumit Sarkar & Team       | Sample Registration Date | : 08.09.2025       |
| Sample Details      | : Work Zone Noise               | Period of Analysis       | : ---              |
| Customer Name       | : SPS Steels Rolling Mills Ltd. | Sample Condition         | : ---              |
| &Address            | Village - Poradiha              | Sample Drawn By          | : ECO CARE         |
|                     | P.O - Pachhandapur              | Sampling Plan &          |                    |
|                     | Dist - Purulia                  | Procedure                | : EC/SOP/03/01     |
|                     | West Bengal, Pin No - 722153    | Deviation if any         | : None             |

## METEOROLOGICAL INFORMATION

|   |                                |           |
|---|--------------------------------|-----------|
| 1 | Average Temperature ( °C )     | 29.4      |
| 2 | Average Relative Humidity (%)  | 76        |
| 3 | Barometric Pressure (mm of Hg) | 755       |
| 4 | Weather Condition              | Clear Day |

## WORK ZONE NOISE QUALITY REPORT

| Sampling Location            | NOISE LEVEL |             |             |
|------------------------------|-------------|-------------|-------------|
|                              | Minimum     | Leq - Mean  | Maximum     |
| 1. Near Rotary Kiln No 3 & 4 | 64.30 dB(A) | 67.36 dB(A) | 73.60 dB(A) |

1. Test values are reported based on the samples received.
2. The Test report shall not be reproduced, without the written approval of laboratory

  
Authorized Signatory  
**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



# Eco Care



Phone : (0341) 3580061

Email : [ecocareasansol@rediffmail.com](mailto:ecocareasansol@rediffmail.com)

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

URL NO. - TC1513625000001474F

## TEST REPORT

|                         |                                                                                                                       |                           |                    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| Report Release Date     | : 13.09.2025                                                                                                          | Sample Ref. No.(ARF)      | : EC/ARF/29/250902 |
| Test Report No          | : EC/TR/42/09016                                                                                                      | Source of Sample          | : Steel Plant      |
| Type of Sample          | : Noise                                                                                                               | Sampling Date             | : 05.09.2025       |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                             | Period of Analysis        | : ----             |
| Sample Details          | : Work Zone Noise                                                                                                     | Sample Condition          | : ----             |
| Customer Name & Address | : SPS Steels Rolling Mills Ltd.<br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal - 722153 | Remarks                   | : ----             |
|                         |                                                                                                                       | Sample Drawn By           | : ECO CARE         |
|                         |                                                                                                                       | Sampling Plan & Procedure | : EC/SOP/03/01     |
|                         |                                                                                                                       | Deviation if any          | : None             |

## METEOROLOGICAL INFORMATION

|   |                                |           |
|---|--------------------------------|-----------|
| 1 | Average Temperature ( °C )     | 29.4      |
| 2 | Average Relative Humidity (%)  | 76        |
| 3 | Barometric Pressure (mm of Hg) | 755       |
| 4 | Weather Condition              | Clear Day |

## WORK ZONE NOISE QUALITY REPORT

| Sampling Location        | NOISE LEVEL |             |             |
|--------------------------|-------------|-------------|-------------|
|                          | Minimum     | Leq - Mean  | Maximum     |
| 2. Near AFBC Boiler area | 63.30 dB(A) | 67.47 dB(A) | 70.40 dB(A) |

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**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
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URL NO. - TC1513625000001473F

## TEST REPORT

|                     |                                 |                          |                    |
|---------------------|---------------------------------|--------------------------|--------------------|
| Report Release Date |                                 | Sample Ref. No.(ARF)     | : EC/ARF/29/250902 |
| Test Report No      | : 13.09.2025                    | Source of Sample         | : Steel Plant      |
| Type of Sample      | : EC/TR/42/09015                | Sampling Date            | : 05.09.2025       |
|                     | : Noise                         | Sample Registration Date | : 08.09.2025       |
| Sample Collected by | : Mr. Sumit Sarkar & Team       | Period of Analysis       | : ----             |
| Sample Details      | : Work Zone Noise               | Sample Condition         | : ----             |
| Customer Name &     | : SPS Steels Rolling Mills Ltd. | Remarks                  | : ----             |
| Address             | Village - Poradiha              |                          |                    |
|                     | P.O - Pachhandapur              | Sample Drawn By          | : ECO CARE         |
|                     | Dist - Purulia                  | Sampling Plan &          |                    |
|                     | West Bengal - 722153            | Procedure                | : EC/SOP/03/01     |
|                     |                                 | Deviation if any         | : None             |

## METEOROLOGICAL INFORMATION

|   |                                |           |
|---|--------------------------------|-----------|
| 1 | Average Temperature ( °C )     | 29.4      |
| 2 | Average Relative Humidity (%)  | 76        |
| 3 | Barometric Pressure (mm of Hg) | 755       |
| 4 | Weather Condition              | Clear Day |

## WORK ZONE NOISE QUALITY REPORT

| Sampling Location |                       | NOISE LEVEL |             |             |
|-------------------|-----------------------|-------------|-------------|-------------|
| 3.                | Near SAF Control Room | 59.40 dB(A) | 63.56 dB(A) | 68.50 dB(A) |

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Authorized Signatory

**MADHUSUDAN KARMAKAR**  
LABORATORY IN-CHARGE  
AUTHORISED SIGNATORY

\*\*\*End of Test Report\*\*\*



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Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSA 45001:2018 Certified

URL NO. – TC1513625000001472F

## TEST REPORT

|                         |                                                                                                                              |                           |                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| Report Release Date     | : 13.09.2025                                                                                                                 | Sample Ref. No.(ARF)      | : EC/ARF/29/250902 |
| Test Report No          | : EC/TR/42/09014                                                                                                             | Source of Sample          | : Steel Plant      |
| Type of Sample          | : Noise                                                                                                                      | Sampling Date             | : 05.09.2025       |
| Sample Collected by     | : Mr. Sumit Sarkar & Team                                                                                                    | Period of Analysis        | : ----             |
| Sample Details          | : Work Zone Noise                                                                                                            | Sample Condition          | : ----             |
| Customer Name & Address | : <b>SPS Steels Rolling Mills Ltd.</b><br>Village - Poradiha<br>P.O - Pachhandapur<br>Dist - Purulia<br>West Bengal - 722153 | Remarks                   | : ----             |
|                         |                                                                                                                              | Sample Drawn By           | : ECO CARE         |
|                         |                                                                                                                              | Sampling Plan & Procedure | : EC/SOP/03/01     |
|                         |                                                                                                                              | Deviation if any          | : None             |

## METEOROLOGICAL INFORMATION

|   |                                |           |
|---|--------------------------------|-----------|
| 1 | Average Temperature ( °C )     | 29.4      |
| 2 | Average Relative Humidity (%)  | 76        |
| 3 | Barometric Pressure (mm of Hg) | 755       |
| 4 | Weather Condition              | Clear Day |

## WORK ZONE NOISE QUALITY REPORT

| Sampling Location            | NOISE LEVEL |             |             |
|------------------------------|-------------|-------------|-------------|
|                              | Minimum     | Leq – Mean  | Maximum     |
| 4. Near Rotary Kiln No 1 & 2 | 64.20 dB(A) | 67.34 dB(A) | 71.60 dB(A) |

1. Test values are reported based on the samples received.
2. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

**MADHUSUDAN KARMAKAR**  
**LABORATORY IN-CHARGE**  
**AUTHORISED SIGNATORY**

\*\*\*End of Test Report\*\*\*

## ANNEXURE-10A

# BINAYAK PAUL

VILL + P.O.-Jhantipahari, Dist-Bankura-722137

GSTIN: 19ALGPP8374B1ZT

Mob: - 9474000006 / 9434000050

Civil, Mechanical Contractor and Fly ash Bricks Manufacturer

Bank Details:

Kotak Mahindra Bank,  
Current Account No: 3045658045

Durgapur Branch

IFSC CODE: KKBK0006747

Date: 04/04/2022

## AGREEMENT

This Agreement hereafter referred to as ("the Agreement") made on this the first day of April 2022 by M/s SPS Steels Rolling Mills Ltd. a company incorporated under the companies Act,1956 and having its unit at Vill-Poradiha, PO-Pachhandapur, PS-Santuri, Dist.- Purulia-722153, hereafter referred to as SPS (with expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the PARTY-1.

AND

Binayak Paul, a proprietorship firm and having its factory at Jhantipahari, Dist-Bankura-722137 (with expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the PARTY-2.

Whereas, the First Party offered "Fly Ash" to Binayak Paul, generated from the Boiler(s) at the captive power plant & ESPs from DRI at SPS. The rate of the Fly Ash will be decided mutually on fortnightly basis.

Whereas, Binayak Paul shall arrange to place vehicle for lifting of the Fly ash, Bed ash and Ash from PGP of future expansion project on daily basis and will pay the freight to the transporter/truck driver as per lorry receipt and at actual being the charges from unit of SPS, at Poradiha to the unit of Binayak Paul. Vehicle carrying Fly ash shall be emptied and release at earliest.

Binayak Paul will utilize the Fly ash towards manufacturing of Fly ash Bricks at its factory at Jhantipahari, Dist-Bankura-722137.

**Period of Agreement:** This agreement shall remain in force for a period of 10 (ten) years.

**Dispute Resolution.** That in the event of any dispute of difference between the parties in respect to this Agreement shall be settled by amicable negotiation between the parties failing which the same shall be decided by Arbitration in accordance with provision of Arbitration and conciliation Act,1966.

In witness thereof, the parties here to have executed this above written on the first day of April' 2022.

Signed and Delivered by the above,

For Binayak Paul

Name: Binayak Paul

Degn: Proprietor

Date: 04-04-2022

Signed and Delivered by the above,

For M/s SPS Steels Rolling Mills Ltd.

Name: Raj Kumar Ladia

Degn: AGM-Commercial



## ANNEXURE-10B

# ECL



## EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Ltd.)

Office of the General Manager, Sodepur Area

P.O. – Sunderchak, P.S - Kulti,

Dt. Paschim Bardhaman (W.B), Pin-713 360

Website – [www.easterncoal.gov.in](http://www.easterncoal.gov.in)

Dated: - 24.02.2022

To

The Authority of SPS Steels Rolling Mills Ltd.

Vill: Poradiha

P.O: Pachhandapur,

Dist: Purulia

Pin: 722153

Dear Sir,

In response to your letter dated: 18.02.2022, as per discussion with you, you are hereby requested to fill up an illegally Mined place at Bicched Bandh area near Narsamuda Colliery of Sodepur Area, ECL with fly ash, with active help of State Administration.

Yours faithfully

  
Area Personnel Manager

Sodepur Area

## ANNEXURE-11

## SPS STEELS ROLLING MILLS LTD., UNIT-II



### CARBON SEQUESTRATION



### GHG STUDY (CARBON FOOTPRINT)

Located at:

Village: Poradiha, PO: Pachhandapur,  
PS: Santuri, Dist.: Purulia, (WB)-722153

## INTRODUCTION

In 2015, the global response to the threat of climate change took a step forward when 190 nations adopted the Paris Agreement. In 2019, the United Nations announced that over 60 countries including the United Kingdom and the European Union (with the exception of Poland) had committed to carbon neutrality by 2050. Moreover, some nations have pledged to work toward earlier dates. Together, these agreements have led to growing pressure to pursue decarbonization across all industrial sectors.

India's Nationally Determined Contribution (NDC's) primarily targets by 2030 a reduction in the emissions intensity of Gross Domestic Product (GDP) by 33 to 35 percent; achieving about 40 percent installed power capacity from non-fossil fuel-based energy resources; energy efficiency; and creating an additional carbon sink of 2.5-3 billion tonnes of carbon dioxide equivalent through additional forest and tree cover.

Steel is one of the core pillars of today's society and, as one of the most important engineering and construction materials, it is present in many aspects of our lives. However, the industry now needs to cope with pressure to reduce its carbon footprint from both environmental and economic perspectives. Currently the steel industry is among the three biggest producers of carbon dioxide, with emissions being produced by a limited number of locations; steel plants are therefore a good candidate for decarbonization. While the industry must adapt to these new circumstances, it can also use them as a chance to safeguard its license to continue operating in the long term.

The direct CO<sub>2</sub> intensity of crude steel production has been relatively constant in the past few years. In contrast, in the Net Zero Emissions by 2050 Scenario it falls an average 4% annually between 2020 and 2030. Achieving this reduction and maintaining it after 2030 will not be easy. Potential for energy efficiency improvements will likely soon be exhausted. Thus, innovation in the upcoming decade will be crucial to commercialise new low-emissions processes, including those that integrate CCUS and hydrogen, to realise the long-term transformational change required. Governments can help by providing RD&D funding, creating a market for near-zero. Emissions steel, adopting policies for mandatory CO<sub>2</sub> emissions reductions, expanding international co-operation and developing supporting infrastructure.

In this report, the carbon footprints from different factors of SPS Steels Rolling Mills Limited will be determined and the carbon sequestration data from the unit will be accessed to have an insight on annual carbon emissions from the unit. This report also provides measures to further reduce the carbon emissions from the unit through implementation of new cleaner technological advances and sustainable environment methods.

### Carbon Footprint

Carbon footprint (CF) is used to measure the impact of human activities on natural ecosystems, the relative size of human consumption on ecosystems, and it emphasizes on the effect of carbon emission of human energy activities on atmospheric environment. Based on different industries, different levels have been formulated and different greenhouse gases have been considered. Six kinds of greenhouse gas emissions such as CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O produced by human activities in the country have been estimated. The carbon footprint is characterized in three

levels: the first level comes from the direct carbon emissions of the institution itself; the second level expands the boundary to the direct carbon emissions of the Department that provides the energy sector; the third level includes the direct and indirect carbon emissions of the whole life cycle of the supply chain.

Based on production data of **SPS Steels Rolling Mills Limited** and CO<sub>2</sub> Emission Factors for steel industry (Source: Report on Greenhouse Gas Emissions from Major Industrial Sources -III Iron and Steel Production by International Energy Agency and USEPA;), the CO<sub>2</sub> emissions are calculated and carbon footprints are tracked in the unit. Following is the envisaged carbon emission calculations from SPS Steels Rolling Mills Limited based on the emission factors.

#### **FACILITIES UNDER OPERATION:**

- SPONGE IRON DIVISION: DRI Kiln 4x100 TPD
- FERRO ALLOYS DIVISION: SAF 1X9MVA
- CPP DIVISION: AFBC Boiler (16 TPH), WHRB: 4x10 TPH, (Total Power Generation-10 MW)

#### **❖ Overall Carbon footprint**

- Emission Factor based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

#### **1. Sponge Iron Division (DRI Plant)**

Following table shows the CO<sub>2</sub> emissions

Table 1: CO<sub>2</sub>e Emission from DRI Division

| Plant                    | Product     | Production (TPA) | Emission factor  | CO <sub>2</sub> e emission (TPA) |
|--------------------------|-------------|------------------|------------------|----------------------------------|
| <b>Sponge Iron Plant</b> | Sponge Iron | 61,265.00        | 0.7 <sup>a</sup> | <b>42885.5</b>                   |

#### **2. Captive Power Plant**

Table 2: CO<sub>2</sub>e Emission from CPP Division

| Plant      | Required Fuel | Quantity (TPA) | Carbon Content (W/W) | Combustion Rate | CO <sub>2</sub> e Emissions of the plant (T/Year) |
|------------|---------------|----------------|----------------------|-----------------|---------------------------------------------------|
| <b>CPP</b> | Coal          | 795.44         | 0.67                 | 95%             | 1,858.11                                          |
|            | Dolochar      | 18,722.57      | 0.25                 | 95%             | 16,319.06                                         |
|            | <b>Total</b>  |                |                      |                 | <b>18,177.17</b>                                  |

### 3. Ferro Alloy Division

Table 3: CO<sub>2</sub>e Emission from Ferro alloys Division

| Plant                 | Product | Production Capacity (TPA) | Emission Factor | CO <sub>2</sub> e Emissions after proposed expansion of the plant (T/Year) |
|-----------------------|---------|---------------------------|-----------------|----------------------------------------------------------------------------|
| <b>Ferro Division</b> | Fe-Mn   | 0                         | 1.30            | 0.00                                                                       |
|                       | Si, Mn  | 6,171                     | 1.40            | 8639.27                                                                    |
|                       | Total   | <b>6,171</b>              | Total           | <b>8639.27</b>                                                             |

**Thus, the cumulative CO<sub>2</sub>e emitted from the Operational Facilities (Sum of Table 1 to 3) is 69,701.94 tons CO<sub>2</sub>e/Annum.**

*(Reference Point: Source: Report on Greenhouse Gas Emissions from Major Industrial Sources –III Iron and Steel Production by International Energy Agency and USEPA; Technical Support Document for the Ferroalloy Production Sector: Proposed Rule for Mandatory Reporting of Greenhouse Gases)*

### **MITIGATION MEASURES TO REDUCE CARBON FOOTPRINTS**

With the growing concern over climate change, steel makers are faced with the challenge of finding ways of lowering CO<sub>2</sub> emissions without seriously undermining process efficiency or considerably adding to costs. The iron and steel industry are the largest industrial source of CO<sub>2</sub> emissions due to the energy intensity of steel production, its reliance on carbon-based fuels and reductants.

The technological compendium of industries suggests the need to shift from traditional carbon intensive technologies for iron and steel production to low-carbon environment friendly technologies. Following are the measures which shall be adopted in coming years by the industries to reduce the overall carbon footprints

- Energy Monitoring & Management System
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors
- Minimising energy consumption and improving the energy efficiency of the process
- Changing to a fuel and/or reducing agent with a lower CO<sub>2</sub> emission factor;
- Renewable energy sources like solar system shall be implemented in the industry up to a possible extent
- Installing state of art cleaner technologies
- Afforestation/Plantation and its maintenance.
- Metallurgical wastes (Slag, Sludge, fines, dust) into Sintering contributes significantly for reducing carbon dioxide emissions
- Supporting the deployment of Digital Product Passports (DPPs) in the downstream products and applications of steel (e.g., in construction and transportation industries) can improve the process of steel recovery and reuse. The design of DPPs usually contains product related information by manufacturers, including instructions on disassembly and dismantling. If followed correctly during the recycling or end- of-life phase of steel products, steel recovery rates can be enhanced.
- The continuation and reinforcement of the promotion of sustainable means of transport for commuters, such as bicycles, public transport and, car-pooling would contribute to reducing carbon emissions.

### **MEASURES BEING TAKEN BY SPS STEELS ROLLING MILLS LIMITED, UNIT-II**

The Company has taken some plan under this expansion proposal, which shall be considered as attempts towards clean technology.

- Promoting minimum use of vehicles during plant visit.
- Installation solar light system on the roof top of administrative building for office lighting purpose.
- Increasing afforestation in and around the factory premises.
- Installation of waste heat recovery boilers (WHRBs) and its optimum operations which contributes to reduce fossil fuel burning for power generation.
- The most important and considerable point here is that SPS shall be generating 40 TPH power as green as cogeneration source of power by using

sensible heat through Waste Heat Recovery Boilers (WHRBs) installed individual DRI Kilns (existing 4x100TPD)

- The use of sensible heat generated during the sponge-iron-making process for power generation falls under criteria of green energy generation.
- Thus, by using the green energy through WHRB SPS shall contribute in carbon sequestration with restricting the CO<sub>2</sub> e Emission of 2,96,479.38 TPA. The United Nations Framework Convention on Climate Change also considers electricity generated through WHR System as green, therefore, such projects are eligible for earning carbon credits.
- The continuation and reinforcement of the promotion of sustainable means of transport for commuters, such as bicycles, public transport and, most of all car-pooling would contribute to reducing carbon emissions.

#### **Attempts to Reduce Carbon Emission/To Bring Down Carbon Intensity**

- ❖ Installation of waste heat recovery boilers (WHRBs) and its optimum operations which contributes to reduce fossil fuel burning for power generation.

These moves should be considered as its positive attempts to bring down Carbon intensity.

Moreover, the company proposes uses of Variable Frequency Drive ID Fans, Energy Monitoring & Management System, Regenerative Burners in Re-heating Furnace of Rolling Mills, Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors, Installing state of art cleaner technologies.

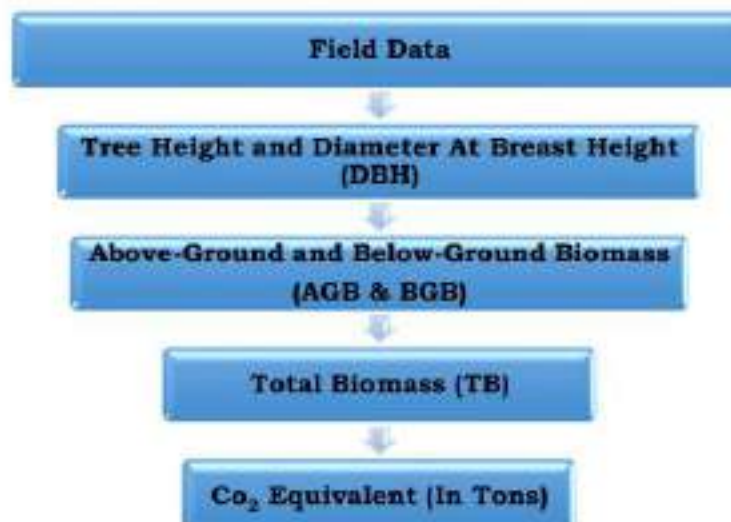
## **CARBON SEQUESTRATION**

Carbon sequestration is defined as the removal of carbon dioxide from the atmosphere and storage in a system. Carbon sequestration is gaining its importance in carbon credit and trading. Identification of many CDM (Clean Development Mechanism) projects has offered special flexibility and relevance in the carbon reduction and has helped improve the national economy. These projects have estimated the quantity of carbon in various systems and their dynamics associated with it. With these estimations, several strategies and formulations have evolved quantifying and reducing the carbon foot print.

No doubt, carbon sequestration can be achieved through various systems, but trees form to be the largest terrestrial sink of carbon dioxide. Therefore, the plantation is granted as the most efficient and biggest terrestrial carbon sequestration method. Out of the five most important terrestrial carbon sequestration system (above ground biomass, below ground biomass, litter, wood debris, and soil organic carbon), the above and below ground biomass are the top two in the pool. Biomass of trees develops when plants take in carbon dioxide from the atmosphere in the presence of sunlight and convert them into starch in their tissues. Several studies have revealed that the carbon content in these tissues is half their biomass. So, with their growth and development, trees go on sequestering CO<sub>2</sub> from the atmosphere and store in their tissues as carbohydrates. This continues until the death of the tree. The rate of carbon sequestration is however maximum during the early stages of growth in trees when trees try to produce more and more amount of food to grow, meet the energy required by them and to stabilize in their respective environmental conditions.

### **Estimation of Carbon Sequestration Potential of Trees**

There are generally two methods to estimate carbon sequestration in plant biomass. Direct method that involves cutting of the tree and Indirect method that is calculated through the above ground biomass and below ground biomass method without slashing the tree. Being ethically and ecologically sound, the second method was preferred for the present study.



### **METHODOLOGY FOR CARBON SEQUESTRATION FROM TREES**

The Girth at Breast Height (GBH) of the trees was measured using a measuring tape at a height of 1.96 m from the ground surface. The height of the trees was measured using reference method (referring to the height of a nearby building or tower), pencil method and angle method as per the convenience. The Above Ground Biomass (AGB) and Below Ground Biomass (BGB) were then calculated as per the formula is given below.

$$\text{Basal area (m}^2\text{)} = (\text{GBH})^2/4\pi$$

$$\text{Bio-volume (m}^3\text{)} = \text{Basal area} \times \text{Height of the tree}$$

$$\text{AGB (kg)} = \text{Bio-volume} \times \text{Wood density (kg/m}^3\text{)}$$

$$\text{BGB (kg)} = \text{AGB} \times 0.26 \text{ (Where 0.26 = Root to Shoot ratio)}$$

$$\text{Total Biomass (TB) in kg/tree} = \text{AGB} + \text{BGB}$$

$$\text{Total Carbon Sequestered (TC) in kg/tree} = \text{TB}/2$$

The Carbon content in trees was taken on an average as 50% of the tree biomass. The wood density of the individual tree species was derived from secondary sources. The CO<sub>2</sub> equivalent was calculated using the following formula:

$$\text{CO}_2\text{e} = (\text{TC} \times 44)/12$$

Where, 44 and 12 are the molecular and atomic weight of CO<sub>2</sub> and C, respectively.

SPS Steels Rolling Mills Limited, Unit-II has planted 7224 trees covering the entire land.

The carbon sequestration by plantation shown in the following table -4:

**CARBON SEQUESTRATION THROUGH GREENBELT DEVELOPMENT IN AND AROUND THE PLANT PREMISES OF  
SPS STEELS ROLLING MILLS LIMITED, UNIT-II**

| Sl. No. | Plant Species           | Local Name  | Radials at Breast Height (inch) | Radials at Breast Height (m) | Girth at Breast Height (in) | Basal Area (m <sup>2</sup> ) | Avg. Plant Height (m) | Volume (m <sup>3</sup> ) | Avg. Wood Density with Moisture (Kg/m <sup>3</sup> ) | Moisture Content | Avg. Wood Density without moisture (Kg/m <sup>3</sup> ) | AGB (kg) | BGB (kg) | TB (kg) | TC (kg) | No. of Plants | CO <sub>2</sub> e (kg) |
|---------|-------------------------|-------------|---------------------------------|------------------------------|-----------------------------|------------------------------|-----------------------|--------------------------|------------------------------------------------------|------------------|---------------------------------------------------------|----------|----------|---------|---------|---------------|------------------------|
| 1       | Azadirachta indica      | Neem        | 3                               | 0.08                         | 0.48                        | 0.04                         | 4                     | 0.15                     | 580                                                  | 45               | 319                                                     | 48.6     | 12.6     | 61.3    | 30.6    | 551.0         | 61934.7                |
| 2       | Polyalthia longifolia   | Debdaru     | 2                               | 0.05                         | 0.32                        | 0.03                         | 5                     | 0.13                     | 770                                                  | 45               | 423.5                                                   | 53.8     | 14.0     | 67.8    | 33.9    | 134.0         | 16663.6                |
| 3       | Acacia auriculiformis   | Sonajhuri   | 3.2                             | 0.08                         | 0.51                        | 0.04                         | 4                     | 0.16                     | 600                                                  | 45               | 330                                                     | 53.6     | 13.9     | 67.6    | 33.8    | 808.0         | 100218.0               |
| 4       | Dalbergia sissoo        | Shishu      | 4.6                             | 0.12                         | 0.73                        | 0.06                         | 6                     | 0.35                     | 550                                                  | 45               | 302.5                                                   | 106.0    | 27.6     | 133.6   | 66.8    | 1582.0        | 387838.8               |
| 5       | Anthocephalus cadamba   | Kadam       | 5                               | 0.13                         | 0.80                        | 0.06                         | 7                     | 0.44                     | 425                                                  | 45               | 233.75                                                  | 103.9    | 27.0     | 130.9   | 65.5    | 263.0         | 63180.9                |
| 6       | Mimusops elengi         | Bakul       | 7                               | 0.18                         | 1.12                        | 0.09                         | 2                     | 0.18                     | 870                                                  | 45               | 478.5                                                   | 85.1     | 22.1     | 107.2   | 53.6    | 88.0          | 17310.2                |
| 7       | Albizia lebbeck         | Sreesh      | 9                               | 0.23                         | 1.44                        | 0.11                         | 6                     | 0.69                     | 600                                                  | 45               | 330                                                     | 226.3    | 58.8     | 285.2   | 142.6   | 96.0          | 50233.0                |
| 8       | ConoCarpus              | ConoCarpus  | 2                               | 0.05                         | 0.32                        | 0.03                         | 4                     | 0.10                     | 750                                                  | 45               | 412.5                                                   | 41.9     | 10.9     | 52.8    | 26.4    | 1974.0        | 191280.8               |
| 9       | Azadirachta indica      | segun       | 4                               | 0.10                         | 0.64                        | 0.05                         | 9                     | 0.46                     | 550                                                  | 45               | 302.5                                                   | 138.3    | 36.0     | 174.3   | 87.1    | 144.0         | 46046.9                |
| 10      | Ficus benghalensis      | Banyan      | 3                               | 0.08                         | 0.48                        | 0.04                         | 6                     | 0.23                     | 580                                                  | 45               | 319                                                     | 72.9     | 19.0     | 91.9    | 45.9    | 46.0          | 7755.9                 |
| 11      | Ficus religiosa         | peepal      | 5                               | 0.13                         | 0.80                        | 0.06                         | 5                     | 0.32                     | 500                                                  | 45               | 275                                                     | 87.3     | 22.7     | 110.0   | 55.0    | 96.0          | 19380.0                |
| 12      | Lagerstroemia speciosa  | Janul       | 4                               | 0.10                         | 0.64                        | 0.05                         | 3                     | 0.15                     | 530                                                  | 45               | 291.5                                                   | 44.4     | 11.6     | 56.0    | 28.0    | 186.0         | 19104.8                |
| 13      | Alstonia scholaris      | Chhatim     | 6                               | 0.15                         | 0.96                        | 0.08                         | 5                     | 0.38                     | 360                                                  | 45               | 198                                                     | 75.4     | 19.6     | 95.1    | 47.5    | 243.0         | 42384.1                |
| 14      | Terminalia arjuna       | Arjun       | 3                               | 0.08                         | 0.48                        | 0.04                         | 4                     | 0.15                     | 680                                                  | 45               | 374                                                     | 57.0     | 14.8     | 71.8    | 35.9    | 176.0         | 23194.0                |
| 15      | Gmelina arborea         | Gamar       | 3                               | 0.08                         | 0.48                        | 0.04                         | 3                     | 0.11                     | 450                                                  | 45               | 247.5                                                   | 28.3     | 7.4      | 35.6    | 17.8    | 379.0         | 24789.5                |
| 16      | Tecoma stars            | Ttikoma     | 5.6                             | 0.14                         | 0.89                        | 0.07                         | 2                     | 0.14                     | 580                                                  | 45               | 319                                                     | 45.4     | 11.8     | 57.2    | 28.6    | 124.0         | 13008.9                |
| 17      | Bauhinia purpurea       | Kanchan     | 5                               | 0.13                         | 0.80                        | 0.06                         | 2                     | 0.13                     | 560                                                  | 45               | 308                                                     | 39.1     | 10.2     | 49.3    | 24.6    | 154.0         | 13927.8                |
| 18      | Bougainvillea spp.      | Boganbolla  | 1                               | 0.03                         | 0.16                        | 0.01                         | 2                     | 0.03                     | 540                                                  | 45               | 297                                                     | 7.5      | 2.0      | 9.5     | 4.8     | 126.0         | 2197.7                 |
| 19      | Hycophorbe lagenicaulis | Bottle palm | 4                               | 0.10                         | 0.64                        | 0.05                         | 1.5                   | 0.08                     | 550                                                  | 45               | 302.5                                                   | 23.1     | 6.0      | 29.0    | 14.5    | 54.0          | 2877.9                 |
|         |                         |             |                                 |                              |                             |                              |                       |                          |                                                      |                  |                                                         | Total    |          |         |         | 7224          | 1103327.6              |

➤ The total carbon sequestration by plantation is **1103.33 tons CO<sub>2</sub>e/Annum**.

Table - 04 shows that the total CO<sub>2</sub>e sequestration potential from greenbelt development (7224 nos. trees) is estimated to be **1103.3276 tons CO<sub>2</sub>e/Annum**. This number is aimed to be maintained on a yearly basis target by plantations & gap filling to reduce & sequester CO<sub>2</sub> e emissions.

### **Installation of Solar Facilities:**

M/s SPS Steels Rolling Mills Limited, Unit-II, has proposed to install 2500Kwp Solar panels to produce non-conventional green energy for office & auxiliary usage. It will be helpful in carbon sequestration as follows shown in Table 05(a) & 05(b). Installation solar panel is under progress.

**Table - 05 (a)**

|                                        |          |
|----------------------------------------|----------|
| The capacity of Solar Panel            | 2500 Kwp |
| Av. Power Generation                   | 2.5 MWh  |
| Power generation in 24 hours (per day) | 60 MW    |
| Power generation in a year             | 21900 MW |

**Table - 05 (b)**

| <b>CARBON SEQUESTRATION</b>                    |           |
|------------------------------------------------|-----------|
| Av. Coal consumption per MW                    | 0.90T     |
| Total Coal consumption for 1861.5 MW           | 315 T     |
| Total Carbon as FC                             | 211.06 T  |
| Total CO <sub>2</sub> e emission Sequestration | 4118.41 T |

In addition to afforestation, installation of the solar panel shall contribute carbon sequestration up to **4118.41 T CO<sub>2</sub>e/Annum** i.e. more than 11 Ton/day as shown in table-05(b)

Thus, through various small-scale & large-scale methodologies, the organization aims to minimize its carbon footprint.

### **CONCLUSION**

**M/s SPS Steels Rolling Mills Limited, Unit-II** is committed to reducing the overall Green House Gases and Ambient pollution levels by adopting cleaner technologies and carrying out ecological development activities. The company aims to reduce carbon emissions by introducing different energy-efficient technologies with usages of renewable energy resources,

Further, with the implementation of Carbon capture and storage (CCS) plants in steel industries, steel plants could progress to become near-zero emitters of CO<sub>2</sub>. The commercial viability of CCS partly depends on the price of carbon emissions which is set by government policy. Developing new technologies, such as the **Hlsarna process**, that are designed to generate a nitrogen-free and CO<sub>2</sub>-rich off gas which will make CO<sub>2</sub> capture & control easier and cheaper.

To conclude, no single option can yield the necessary CO<sub>2</sub> emission reductions but a combination of technologies available can be retrofitted to achieve significant reductions, which is possible after commercial deployment of the same by the Government of India.

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## ANNEXURE-12

**Risk and Disaster Management Plan**

| SL No. | Descriptions                                  | Page No. |
|--------|-----------------------------------------------|----------|
| 1      | Introduction                                  | 2        |
| 2      | Organization Structure                        | 3        |
| 3      | Manpower and working shift                    | 4        |
| 4      | Nature of Hazards                             | 4        |
| 5      | Process Description                           | 4-6      |
| 6      | Inventory of Raw Material and Hazardous Waste | 6-7      |
| 7      | Onsite Emergency Plan                         | 7-8      |
| 8      | Identification of Hazards                     | 8-9      |
| 9      | Key persons and their role                    | 10       |
| 10     | Action Plan for Risk & Disaster Management    | 13       |
| 11     | Facilities for on-site emergency plan         | 16       |
| 12     | Disaster Management Plan (DMP)                | 18       |
| 13     | Emergency Command Structure                   | 20       |
| 14     | Emergency contact numbers                     | 21       |

## **INTRODUCTION:**

The project site of M/s SPS Steels Rolling Mills Limited, Unit-II is located at Vill - Poradiha PO-Pachhandapur, PS-Santuri, Tehsil Raghunathpur, District Purulia West Bengal having Latitude: 23°36'54.70"N to 23°37'35.38"N & Longitude: 86°52'49.06"E to 86°53'48.19"E.

Project site of SPS is well connected by road and rail. The nearest railway station is Madhukunda Railway Station which about 2.0 km in NW direction from project site

The last two decades have seen many technological innovations that have contributed to automated, more reliable and cost-effective safety management techniques, equipment and systems. Responsiveness & competence needs to be created among the Indian industry about tools & methodologies of safety techniques to understand and mitigate the hazards they are dealing with on a day-to-day basis, and create a safe working environment, for its own machinery, employees and community around. The code of practice on safety management system will be very useful for engineering industries in order to eliminate hazards and for providing safe work environment to employees.

The safety and protection of people, equipment and the environment is a serious concern in the engineering industries. Many industries have recognized the advantages of Safe Work Environment and are progressively adopting Safety Management System to prevent hazardous events, avoid production & manpower losses and other fallouts associated with industrial accidents. Safety management system also assists industries to enhance employee knowledge of operations, improve technical procedures, maintain accurate process safety information and increase overall facility productivity.

## **GENERAL INFORMATION ABOUT THE FACTORY:**

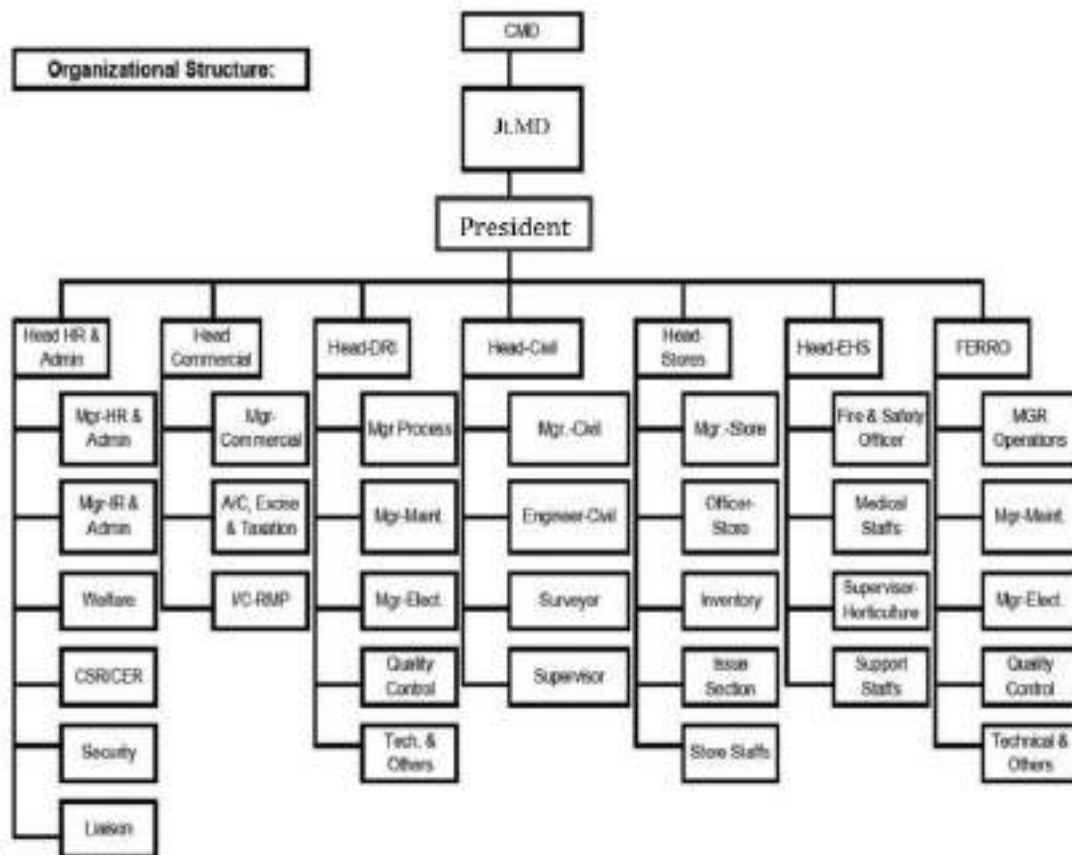
M/s. SPS Steels Rolling Mills Limited (Unit II) is presently operating 4x100 TPD DRI Plant (10,000 TPM), CPP (10 MW) SAF (1x9MVA) on the basis of Consent to Operate from West Bengal Pollution Control Board at Village Poradiha, PO – Pachhandapur, PS – Santuri, Tehsil Raghunathpur, District Purulia, West Bengal. This plant has been taken over by The Shakambhari group from M/s Vikash Metal & Power Limited in the name of SPS Steels Rolling Mills Limited, vide Hon'ble Calcutta High Court order dated 07<sup>th</sup> October, 2021 and with completion of process of acquisition taken over the possession on 29<sup>th</sup> October, 2021. Shakambhari group, incorporated in the year 1996 by Mr. Deepak Kumar Agarwal, is one of the fastest growing integrated steel manufacturing company in Eastern India with its headquarter in Kolkata.

**Risk and Disaster Management Plan**

Presently, the company is having following facilities in operations

- DRI Kiln 4 x 100 TPD
- SAF 1 x 9 MVA
- CPP 1x10MW

**ORGANIZATIONAL STRUCTURE OF THE COMPANY**



### Man Power

Maximum number of persons available in the plant at any point of time is as follows:

#### Persons working under various shifts

| Sl. No.      | Shift | Period                                              | Average Employment/Day |
|--------------|-------|-----------------------------------------------------|------------------------|
| 1.           | A     | 06:00-14:00 Hrs.                                    | 120                    |
| 2.           | B     | 14:00-22:00 Hrs.                                    | 120                    |
| 3.           | C     | 22:00-06:00 Hrs.                                    | 120                    |
| 4.           | G     | 09:00-18:00 Hrs.<br>(Lunch Break: 13:00-14:00 Hrs.) | 150                    |
| <b>Total</b> |       |                                                     | <b>510</b>             |

Depending on requirements employees are called in different shifts and few employees are called on duty during national/festival holidays and off days.

#### Nature of Hazards in SPS

A steel industry is hazardous by its very nature. The nature of various hazards in SPS Plant is detailed below:

| Hazards                                                                      | Source                                                            |
|------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Fire Hazard                                                                  | Spillage of Fuel Oil,                                             |
| Explosion due to spillage of hot metal coming in contact with water          | Spillage/Transfer of hot metal, or liquid steel                   |
| Heat radiation due to hot metal handling                                     | Spillage of liquid metal, hot metal and hot slag                  |
| Accidents due to failure of Material Handling (lifting & carrying) Equipment | Connected with all Material Handling Equipment through EOT cranes |

### PROCESS DESCRIPTION (in brief)

#### ➤ DRI

Sponge iron is manufactured through the coal-based route in which iron ore is converted into Sponge Iron or directly reduced iron in a rotary kiln using coal both as reductant and fuel.

Rotary kiln unit comprises of raw materials storage bins, rotary kiln, rotary cooler, product screening and magnetic separation units, After Burning Chamber and in-plant dedusting system.

Iron ore and coal, after proper sizing in the respective crushing and screening stations as well as sized dolomites are fed to the raw material day bins for kiln.

**Risk and Disaster Management Plan**

With the rotation of the kiln, the charge moves down the slope and the surface of material is exposed to heat and reducing atmosphere. The reduction from iron oxide to iron occurs by a gradual removal of oxygen at various temperatures under the controlled reducing atmosphere giving rise to various intermediate oxides.

Hot sponge iron is discharged from the kiln-discharge end and taken into the rotary cooler. The sponge iron after cooling is discharged through the cooler discharged chute into a heat resistant belt conveyor and carried into the product processing building. The product (Magnetic in nature) is screened and separated from char, which is not magnetic.

The gas generated, during the process, contains fine dust particles, which are captured and separated in ESP and clean gas discharged through stack.

➤ **Ferro Alloys Plant**

Generally, Ferro Alloys are used for making steels to improve the performance of steel as industrial product.

The Ferro alloys division is comprising of following five types of alloys:

- Ferro-Manganese
- Silico-manganese
- Ferro-silicon

The facilities within the ferro alloy plant is comprise of the following major units:

- Raw material handling system
- Furnace feeding system
- Submerged Arc Furnace
- Furnace tapping and casting
- Product handling system
- Electrical system
- Air Pollution Control System

Conveyor system is provided to feed the day bins for different Ferro Alloys Product. Vibrating feeders are located below each ground hopper, which transport the material on a vibratory screen through conveyor. In order to store the materials in individual bunker a reversible shuttle conveyor is provided on top of bunker.

**Furnace feeding system**

A conveyor is provided to collect the screened mixture of material from surge hopper on ground level and dump the same in to a feed hopper. The material from this hopper is being collected by a conveyor and transported to the telpher. By way of rotation this

**Risk and Disaster Management Plan**

telpher get aligned with charging bins and correction bins, which are located around the circumference of this rotation. Pneumatically operated slide gates are provided in each chute. These gates are operated from the central control desk.

**Submerged arc furnace**

One submerged arc furnaces of capacity 1x9 MVA have been considered. The furnaces are equipped with charge feeding hoppers, chutes, transformer, electrodes and Air pollution control system.

**Furnace tapping and casting**

The furnaces are tapped at an interval of about two and half hours considering eight numbers of heats per day. The tap hole is opened by oxygen lancing. Skimmer tapping arrangement provided to separate slag and metal. The liquid metal is being cast in moulds or in sand bed. The slag from the furnace is collected, cooled and disposed at suitable area allocated for slag disposal.

**Product handling system**

The solid cakes are broken in to smaller pieces manually in to required sizes. Suitable adjustment of breaking can change the product sizes to suit customer's requirement.

The products, classified according to sizes and grades of different Ferro Alloys will be stored in the dedicated storage areas. Sized product will be weighted, packed and kept ready for dispatch.

**INVENTORY OF RAW MATERIALS**

The inventories of raw materials used in the process are listed in the table below, which gives details of material stored. It contains maximum one- month storage for each substance in process and transferred to day tanks to meet daily consumption, it is because day tanks are connected to unit where it is consumed.

**Maximum storage of capacity of raw materials**

| Sl. No. | Operating Unit               | Raw Materials | Max. Storage Capacity (Metric Tons/Month) |
|---------|------------------------------|---------------|-------------------------------------------|
| 1.      | Sponge Iron Plant            | Iron Ore      | 20000                                     |
|         |                              | Coal          | 10000                                     |
|         |                              | Dolomite      | 1000                                      |
| 2.      | Sub Merged Arc Furnace (SAF) | Manganese Ore | 3500                                      |
|         |                              | Coke          | 600                                       |
| 3.      | Captive Power Plant          | Coal Fines    | 1100                                      |
|         |                              | Dolochar      | 2000                                      |

|                                                                                                               |                                                                                                                                  |          |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|
| <br><b>SHAKAMBHARI GROUP</b> | <b>M/s SPS Steels Rolling Mills Limited,<br/>Unit-II</b><br>Vill-Poradiha, PO-Pachhandapur, PS-Santuri, Dist-Purulia (WB)-722153 | Page   7 |
|                                                                                                               | <b>Risk and Disaster Management Plan</b>                                                                                         |          |

#### **INVENTORY OF HAZARDOUS SUBSTANCES:**

The inventory of Hazardous materials is mentioned below:

| SI No | Name Of Hazardous Substances                                                             | Maximum Storage Capacity |
|-------|------------------------------------------------------------------------------------------|--------------------------|
| 1     | HSD for DRI kiln cold startup (Above Ground, fenced as per norms of explosive Authority) | 1 X 20 KL                |

#### **ONSITE EMERGENCY PLAN**

**Onsite and Offsite disaster preparedness and emergency management plan including risk assessment and damage control.**

In a steel plant, the steel making process involves a number of hazardous processes starting from raw material handling, melting of iron ore, and converting iron into steel till the finished products. Also, the by-product plants, captive power plant, utilities & other auxiliary plants use considerable amount of combustible materials and these materials are stored in bulk storages like tanks, cylinders, drums, and gas holders etc., installed in the plant posing major risks.

The detailed study with concern to various possible hazards and their associated processes & equipment's has been identified. The list of these identified hazardous equipment in the plant is given in the following pages. The potential hazards from the above identified equipment and from the various hazardous operations/processes in the plant have been analyzed and the possible causes for occurrence of such hazards, likely consequences and the remedial action required are recommended.

#### **Emergency Action Plan:**

Emergency Planning begins with the identification and assessment of the principal hazards which are normally fire, explosion and toxic release. With the growing complexity of the process plants, more systematic and searching methods for risk identification and quantification have been developed over the years. Generally, the emergencies that occur in process plants are classified into two categories. The one whose effects remain within the boundary limits of the plant is known as On-Site Emergency and the one where the effects go beyond the boundary limits is known as Off-Site Emergency. In SPS, the requirements of the On-Site Emergency Plan are addressed due to fire hazard only.

This On-Site Emergency Plan is prepared for SPS Steels Rolling Mills Limited in accordance with the guidelines provided by the Ministry of Environment & Forests & Climate Change (MoEF&CC), Govt. of India, covering the various hazardous processes and the bulk storages of hazardous materials, toxic gases etc., in different departments.

## **HAZARD IDENTIFICATION AND DETAILS OF PROPOSED SAFETY SYSTEMS**

### **Identification of Hazards**

Hazard is in fact the characteristics of a system/plant/storage that presents potential for an accident and risk is the probability of occurrence of hazard. Hence hazard identification is of prime significance for the quantification of risk and for cost-effective control of accidents in any industrial installation. Various techniques of predictive hazard evaluation and quantitative risk analysis suggest identification of hazard has very important role in estimation of probability of an undesired event and its consequences on the basis of risk quantification in terms of damage to personnel, property and environment.

Hazards are mostly manifested in the form of fire/ explosion/ toxic release. Each anticipated hazard scenario associated in the unit is described along with its assessment of impact on plant and locality in the following table:

## Risk and Disaster Management Plan

### ANTICIPATED HAZARD SCENARIO:

| Type of Hazard          | Areas                                                                         | Preventive / Mitigation measures                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pool fire/<br>ball fire | HSD Storage Tank                                                              | Dyke wall is provided around the tank. Regular monitoring being done to check out the leakage/spillage if any. Fire protection measures (Foam Trolley, DCP cylinder and hydrant system) are provided. Area is as "No Smoking Zone "                                                                                                                                                                                                                               |
| Dust                    | Raw material handling & storage yard                                          | Raw materials are transported in the trucks with tarpaulin covers. Raw materials are kept on concreted land with tarpaulin cover. Water sprinkling facility is provided for dust suppression during material handling in the yard. Conveyor belts used for raw material feeding and carrying finished goods are properly covered. PPEs like nose mask, safety helmet, safety shoes and safety goggles are provided to persons, deployed for working in this area. |
| Noise                   | Turbine Generator hall, Blower house, Air compressor house, DG & Pump houses. | Equipment's are suitably covered in building with adequate ventilation to attenuate the noise level against outside exposure and area keeps generally unmanned, however working personnel are provided with ear plugs and ear muffs during inspections                                                                                                                                                                                                            |
| Heat Exposure           | DRI, SAF & CPP                                                                | Providing proper PPE like leg guards with shoes, Face shield, leather hand gloves, Leather Aprons, helmets etc. Thermal insulation for steam line. Providing fans, air blower and showers etc.                                                                                                                                                                                                                                                                    |
| Acid exposure           | DM Plant/ Laboratory                                                          | Acid and Base used are being kept on isolated place with proper leveling. Personnel handling these chemicals being well equipped with PPEs like rubber hand gloves, apron, nose mask, face shield/safety goggles, safety shoes etc. Once any person gets exposed to acid or base the affected parts are thoroughly washed with cold water and necessary first/medical aid is given to the victim.                                                                 |

### IDENTIFICATION OF MOST CREDIBLE HAZARD SCENARIOS

All the anticipated hazard scenarios associated with the factory ( as listed above) are critically analyzed and identified credible scenario is pool fire/ball fire if the HSD if comes in contact with flame or it may auto ignite at 225°C. Flash point of HSD is 32°C. Tank fire spreads vertically taking a conical shape due to rush of air from all directions.

Since the suitable firefighting system are provided to control emergency situations. On the basis of above consideration, the pool fire due to fire hazard in the storage tank is not considered as most credible scenario and risk of fire hazard is considered low because of safe operating practices.

**Risk and Disaster Management Plan**

Tank fire may be caused by lightening, but when tank leaks or overflows due to mal operation of instruments or negligence of operator and liquid gets ignited by chance; then this may be treated as a large pool fire and dealt as a common fire.

But in case of disaster due to natural calamities a disaster management team will come to action.

**KEY PERSONNEL**

Key personnel are the directed and nominated people, each having specified responsibilities as a part of a coordinated plan.

The main key personnel are:

- Works Incident Controller.
- Site Incident Controller.
- Works Main Controller.
- Other key personnel who have the key Role to play are senior personnel from all sections e.g. production, maintenance, laboratory, medical, transport, safety, security etc.

**Role of Key Persons**

**Works Incident Controller (WIC)**

The Works Incident Controllers are the departmental heads of respective divisions for DRI, CPP and SAF whose duties include the direction of the efforts and lead to onsite emergency response team to control the situation.

Since in the initial stages of emergency, the Works Incident Controller may be called on to take decisions involving the operations of other plants, it is necessary for the person selected to have a thorough knowledge of the overall works situation.

The person working as shift in-charge/manager i. e., an individual having overall control of the works processes for a shift shall work in the authority of WIC when the Works Incident Controller (WIC) may be off-site or affected by the emergency.

**Site Incident Controller (SIC)**

He will be available at the factory or in the colony nearby. At any point of time and on being informed about an accident, he has to:

- Intimate the Works Main Controller (WMC) and proceed to the emergency site.
- Take the necessary information from Combat Team Leader (CTL), assess the situation and call Rescue Team Leader (RTL) and Auxiliary Team Leader (ATL).
- Inform Works Main Controller (WMC) regarding the situation.
- Take necessary steps and provide guidance to Combat Team, Rescue Team, and

**Risk and Disaster Management Plan**

Auxiliary Team Leaders to mitigate the emergency situation.

- Examine for major emergency shutdown operation activities, decide safe escape route and announce for evacuation to Assembly Point.
- Inform Works Main Controller (WMC) about the status of the situation at regular intervals.

**Works Main Controller (WMC)**

The Works Main Controller is the GM-Commercial of the unit and is generally available in the factory or reside in the nearby except on tours. On emergency, he can reach work site at any odd hour within 30minutes time. In his absence, GM at Plant shall take up his charge as Works Main Controller (WMC)

In the major situation, decisions will have to be taken by Works Main Controller (WMC) by collaboration with the senior managers at works which may affect the whole or a substantial part of the works and senior officers of the outside services as per site situation.

After getting informed of an emergency situation WMC will rush to the emergency site, collect all information from SIC and

- Decide if emergency is to be declared and advise Site Incident Controller (SIC) accordingly and reach Emergency Control Room (ECR).
- Take decision to shut-down the plant if necessary to take up repair and other combating measures.
- Advise Rescue Team Leader (RTL)/Security Gate to blow the siren with appropriate code for declaration of emergency.

**Emergency Siren**

**Twenty Seconds with a pause of Five Seconds for 5 times**

- Advice (Auxiliary Team Leader) ATL for communication to statutory authorities and for mutual aid as required.
- Through Auxiliary Team Leader (ATL) shall ensure constant communication to statutory authorities and to mutual aid partners as required.
- Maintain continuous communication with Site Incident Controller (SIC) to review the situation and assess the possible course of action for emergency operations.
- To declare normalcy at the end of operation and advise Rescue Team Leader (RTL)/Security Gate to blow "all clear siren"

**All Clear Siren will be blown for 1 minute continuously.**

- Ensure the record keeping of emergency operations chronologically.

**Risk and Disaster Management Plan**

**ESSENTIAL PERSONNEL**

The Works Incident Controller/Main Controller will be supported by a Task Force of suitably trained people. The nature of essential works to be performed is:

- Shutdown of Plants
- Isolation, repairing of the affected equipment /pipeline etc.
- First Aid and removal of the injured persons to hospital.

**COMBAT TEAM LEADER**

He is the leader to attend to the emergency and is available in the factory or in the colony at any instant.

On being informed about an accident, he has to:

- Immediately rush to the site and lead the rescue team to control the situation.
- Inform Site incident controller (SIC) about the incident and request him to rush to the spot.
- Give the necessary instructions to the rescue team to combat the situation
- Co-ordinate the activities of team members and combat the emergency, so as to eliminate the root cause of the hazard.
- To arrest the leakage and spillage from various equipment, shut down the concerned equipment.
- Take necessary action to remove unwanted persons from the site of the incident.
- Keep informed about the developments to Site Incident Controller (SIC).

**RESCUE TEAM LEADER**

He is the person who conducts rescue operations and should be available at any instant. On receiving the information about the incident, he has to:

- Rush to site of emergency through safe route.
- Ensure presence of all his team members, availability of firefighting facilities and take necessary action to arrest the fires/leakage of gas.
- Arrange for safe escape of entrapped persons.
- Make necessary arrangements to send the affected persons for immediately medical attention through the medical officer.
- Search for the missing persons on the basis of roll call taken by Auxiliary team leader (ATL).

**Risk and Disaster Management Plan**

- Give the feedback to the site incident controller (SIC) about the developments.

**AUXILIARY TEAM LEADER**

He is the communication manager for the crisis management. On being informed of the emergency, he should proceed to Emergency Control Room (ECR) and:

- Keep in constant touch with works main controller (WMC) and Site Incident Controller (SIC).
- Inform the Statutory Authorities and District Administration.
- Communicate to mutual Aid Partners, Fire service stations at Asansol & Raghunathpur
- Send communications to Govt. Hospital and ESIC at Asansol for rendering services.
- Inform the relatives of casualties and send them to their residence or hospital as the case maybe.
- Take care of visit of the authorities to the Emergency site.
- Give feed back to work main controller (WMC) about the status with respect to his areas of activities.

**Action Plan for Risk and Disaster Management**

| STEP NO | INITIATOR                         | ACTION TO TAKE                                                                                                                                                                                                                                                                                                                                                |
|---------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | The person noticing the emergency | <ul style="list-style-type: none"> <li>• Inform the Security Gate and concerned Shift-in —charge immediately. Shift-in-charge will inform immediately to Combat Team Leader of concerned area.</li> </ul>                                                                                                                                                     |
| 2.      | Combat team Leader (CTL)          | <ul style="list-style-type: none"> <li>• Inform Site Incident Controller (SIC) and rush to spot and organize his team.</li> <li>• Take charge of the situation, arrange for firefighting and medical first-aid available at site.</li> <li>• To start combating, shut-down equipments, arrest the leakage of gas/fire.</li> </ul>                             |
| 3.      | Site Incident Controller (SIC)    | <ul style="list-style-type: none"> <li>• Inform works Main Controller (WMC) and rush to emergency site.</li> <li>• Discuss with Combat Team Leader (CTL), assesses the situation and call the Rescue Team Leader (RTL) &amp; Auxiliary Team Leader (ATL).</li> <li>• Organize the Rescue Team and Auxiliary Team and send the rescue Team to site.</li> </ul> |

**Risk and Disaster Management Plan**

|    |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                             | <ul style="list-style-type: none"> <li>• Arrange to evacuate the unwanted persons and call for additional help.</li> <li>• Pass information to the works main controller (WMC) periodically about the position at site.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| 4. | Works main Controller (WMC) | <ul style="list-style-type: none"> <li>• Rush to emergency site and observe the ongoing activities.</li> <li>• Take stock of the situation in consultation with the SIC.</li> <li>• Move to Emergency Control Room.</li> <li>• Take decision on declaration of emergency.</li> <li>• Advise Auxiliary Team Leader to inform the statutory authorities and seek help of mutual aid from partners as required.</li> <li>• Decide on declaration of cessation of emergency.</li> <li>• Ensure that the emergency operations are recorded chronologically.</li> </ul>                                    |
| 5. | Rescue Team Leader (RTL)    | <ul style="list-style-type: none"> <li>• Consult with Site incident controller (SIC) and organize his team with amenities to arrest firefighting and medical treatment.</li> <li>• Rush to Emergency Site through safe route along with the team members.</li> <li>• Arrange to set off the fire by firefighting equipments and hydrant points to arrest the fire or to evacuate the area.</li> <li>• Shift the injured persons to hospital by ambulance after providing necessary first aid.</li> <li>• To inform the auxiliary team Leader for necessary help from mutual aid Partners.</li> </ul> |
| 6. | Auxiliary Team (ATL)        | <ul style="list-style-type: none"> <li>• On being directed by works main Controller (WMC) informs about the emergency to statutory authorities.</li> <li>• Seek help of Mutual Aid partners and Coordinate with Mutual Aid partners to render their services.</li> <li>• Arrange to inform the relatives of casualties.</li> <li>• Take care of visit of the authorities to the Emergency site.</li> </ul>                                                                                                                                                                                           |
| 7. | Team members                | Each of the team members should follow the instruction of concerned team leader to mitigate the emergency.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Salient Hour Command Structure**

- The Senior Officers/ Key Persons of the plant remain during day time i.e. 8 A.M. to 8 P.M. Hence the timing of 8P.M. to 8A.M. is considered as silent hour that to 10P.M. to 8A.M. is the crucial time. Still each and every unit/section of the plant is headed by shift in charge in the rank of Officer, Engineer or Sr. Engineer or Asst.

**Risk and Disaster Management Plan**

Manager, who shall be responsible for handling the emergency. The other supporting/services and emergency sections like Fire Service, Ambulance, Security, Personnel, Water Supply, Transport departments etc. are also running for 24 hours shift wise with shift in charge and crew to handle emergency during the silent hour till main command personnel arrives. However, most of the key persons of the main command structure reside in nearby area and can reach within minimum time.

- The command structure of the silent hour shall be same as during normal hour, however, during the silent hour, the operation Shift-in charge of the concerned area where the fire or leakage of gas has taken place, shall act as SIC-in-charge, till the arrival of actual designation members.

**ACTIVATION & CLOSING PROCEDURE FOR ON-SITE EMERGENCY ACTIVATION PROCEDURE**

The person noticing the incident of fire or leakage of gas, shall inform about the location & nature of fire to the combat team Leader (CTL), security Gate and concerned Shift-in-charge.

Combat team Leader (CTL) shall inform site incident controller (SIC) and shall rush to the site immediately. He shall arrange for firefighting and first aid available at site. He shall arrange to take necessary steps to eliminate the root cause of fire.

Site incident controller (SIC) on getting information shall inform the WMC and reach the site at the earliest. He shall take over the charge and shall direct Rescue Team Leader (RTL) to carry out rescue operations including firefighting and medical attention. Site incident controller (SIC) shall co-ordinate with Combat team leader (CTL) to eliminate the root cause of fire.

- Work main controller (WMC), on arrival at site shall take stock of the situation from site incident controller (SIC) and then rush to emergency control room (ECR) to declare emergency on the basis of assessment made by (Site incident controller (SIC). He shall give direction to the security gate/ (Rescue Team Leader) RTL to activate siren.
- Twenty seconds with a pause of five seconds for 5 times for fire Accident.
- 30 Seconds with a pause of five seconds for 5 times for leakage of gas.
- Rescue Team Leader (RTL) shall mobilize fire-fighting and medical resources to site and shall assist (Site incident Controller) SIC.
- Auxiliary Team Leader (ATL) shall take charge of Emergency Control Room (ECR), shall ensure smooth operation of ECR and shall inform relatives of casualties. Informs mutual Aid partners and ensures their arrival at site if required.
- Auxiliary Team Leader (ATL) informs statutory authorities and district

**Risk and Disaster Management Plan**

administration regarding emergency suitably and coordinates their visit at site.

- Works main controller (WMC) coordinates and keeps the track of all the activities at site and off the site and arranges the recording of the activities in a chronological manner for review of the Onsite emergency Plan.

**Facilities Available For On-Site Emergency Plan:**

**Assembly Point**

In any emergency it will be necessary to evacuate people from affected zones or the zones likely to be affected, to a safer place. Safer places are identified and designated as Assembly Points. Taking the area and hazard zones into consideration four assembly points have been marked in four different areas these are:

- 1- Near Administrative Building (Assembly Point-1)
- 2- Near DRI-RMP Area (Assembly Point-2)
- 3- Near CPP Area (Assembly Point-3)
- 4- Near SAF Division (Assembly Point-4)

Above the points are well connectable to the plant road and facilities like drinking water, temporary shelter and first aid is available there. These points are displayed at different places inside plant and near administrative building.

**(a) Escape routes:**

Escape routes are those that, allow reasonably safe passage of persons from the work area to assembly point during emergency situation. These routes would be different depending on wind direction, Fire and explosion scenario. Escape routes are ear marked on the drawings as well as on the routes, which will facilitate all for safe evacuation.

**(b) Emergency Control Room (ECR):**

The emergency Control Room is a place from which all emergency management operation are directed and coordinated. Also it is the place from where all communication will be established, with outside agencies and district authority also.

**Facilities Available at ECR:**

- Plant general Layout, ear marked with hazard zone, Assembly points and escape routes.
- List of working personnel in various shifts and general shift.
- Mobile telephone Nos., of emergency command structure personnel.
- Emergency command structure.
- Rhythmical siren code for different emergency situation.
- Relevant material safety data sheet.

**Risk and Disaster Management Plan**

- Emergency Control Room Register.
- First Aid Box with antidotes.
- Required personal protective equipment's with self-carrying breathing apparatus.

**Facilities Available**

**Fire Hydrant System**

Fire hydrant system is proposed with fire pumps to maintain the pressure of 7Kg/cm<sup>2</sup>. In case of power failure, fire pumps are operated through DG set connection. Diesel pump will also be in place to operate hydrant system as per requirement. Pumps are connected with water storage tank to mitigate the water requirement for firefighting.

**Fire Extinguishers**

Required types of fire extinguishers are provided at different locations of the plant.

**Fire Buckets**

Fire buckets filled with dry sand are provided in different locations of the plant.

**Siren**

Company Has Siren/ hooter arrangement, which can be activated manually during fire related emergency.

**Communication**

For an effective communication inside the plant and public address, communication facilities are available. Telephone directory has been placed in all the departments.

**Dispensary**

An organized First-aid center with ambulance, stretchers, oxygen cylinder etc. is placed inside the factory. The First-aid Centre is manned by one Doctor/pharmacists, and one attendant. SPS has its own ambulance facility for any emergency situations. The first-aid center is manned round the clock. In the case of emergency, affected employees are being referred to nearby ESIC, Govt. hospital at Asansol or as required, and in serious case to the hospital tied up with the company.

**First Aid Box**

Company has provided First Aid boxes with required first aid medicines at different locations inside the plant to address minor injuries. First aid boxes are checked by the pharmacists once in a month & and medicines are filled/replaced. The first aid boxes are provided in the following locations:

DRI, CPP, Administrative building, SAF and Security Office.

## DISASTER MANAGEMENT PLAN

### Introduction:

Disaster may be defined as a sudden occurrence of incidence in such a magnitude as to affect the normal pattern of life inside or in the vicinity of plant which has the potential of causing extensive injury of loss of life or damage to property and tend to cause disruption inside/outside the site.

Hazardous substances are being handled, generated and stored in increasing quantities a various manufacturing facility in recent years. This has posed a serious risk for the plant, persons and the environment encompassing thereof. The disasters following incidents in some industrial units handling hazardous substances in the last 2 to 3 decades has made it imperative for all concerned to device measures and implement them immediately and effectively to mitigate their adverse effects, if not, to totally eliminate them. The need to protect human being, the flora and fauna as well as our bio-diversity against these potential dangers has prompted the government for promulgation of various statutory provisions for preparation of hazard mitigation plans based on their risk impacts.

The Factories (Amendment) Act 1987 and manufacture storage and Import of Hazardous Chemical Rules- 1989 has provided regulation making mandatory for all owners of hazardous undertakings to prepare for their Onsite Emergency Plan in a pragmatic way and keep those well re-harassed for rapid action in actual crisis situation.

The goal of DMP is the effective containment of the emergency situation by proper mitigative action at the place of occurrence, cautioning people in adjoining affected localities; prompt rescue and provisions of medical aid to affected persons and communication to civil authorities for rushing in help from outside.

This objective being achieved by defining the functions and responsibilities of all concerned managerial, operational and supporting services department personnel with respect to detection and effective implementation of emergency action plan.

### Objectives of Disaster Management Plan (DMP):

The objectives of DMP is to describe and spell out industry's emergency response actions that requires to be initiated to deal with various emergencies that could occur at the facility, with the response organization structure deployed in the shortest possible time. Thus, the objective of emergency response plan can be summarized as:

- ✓ Rapid control and containment of the hazardous situation. ✓
- Minimization of the risk and impact of event / accident.
- ✓ Effective rehabilitation of the affected persons and prevention of damage to property.

|                                                                                                                   |                                                                                                                                                                                                                                                |                                 |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <br><b>SHAKAMBHARI<br/>GROUP</b> | <p align="center"><b>M/s SPS Steels Rolling Mills Limited,<br/>Unit-II</b></p> <p align="center">Vill-Poradiha, PO-Pachhandapur, PS-Santuri, Dist-Purulia (WB)-722153</p> <hr/> <p align="center"><b>Risk and Disaster Management Plan</b></p> | <p align="center">Page   19</p> |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|

#### **Elements of DMP:**

In order to effectively achieve the above-mentioned objectives, the critical elements of the DMP are:

- Reliable and early detection of an emergency and careful planning.
- The command, co-ordination, and response organization structure along with clearly demarcated line and staff function.
- The availability of resources for handling emergencies.
- Appropriate emergency response actions forecasted with least margin of error.
- Effective notification and communication facilities.
- Proper training of the concerned personnel.
- Regular review and updating of the DMP.

The DMP has been opened up with a foreword duly signed by the plant-in-charge.

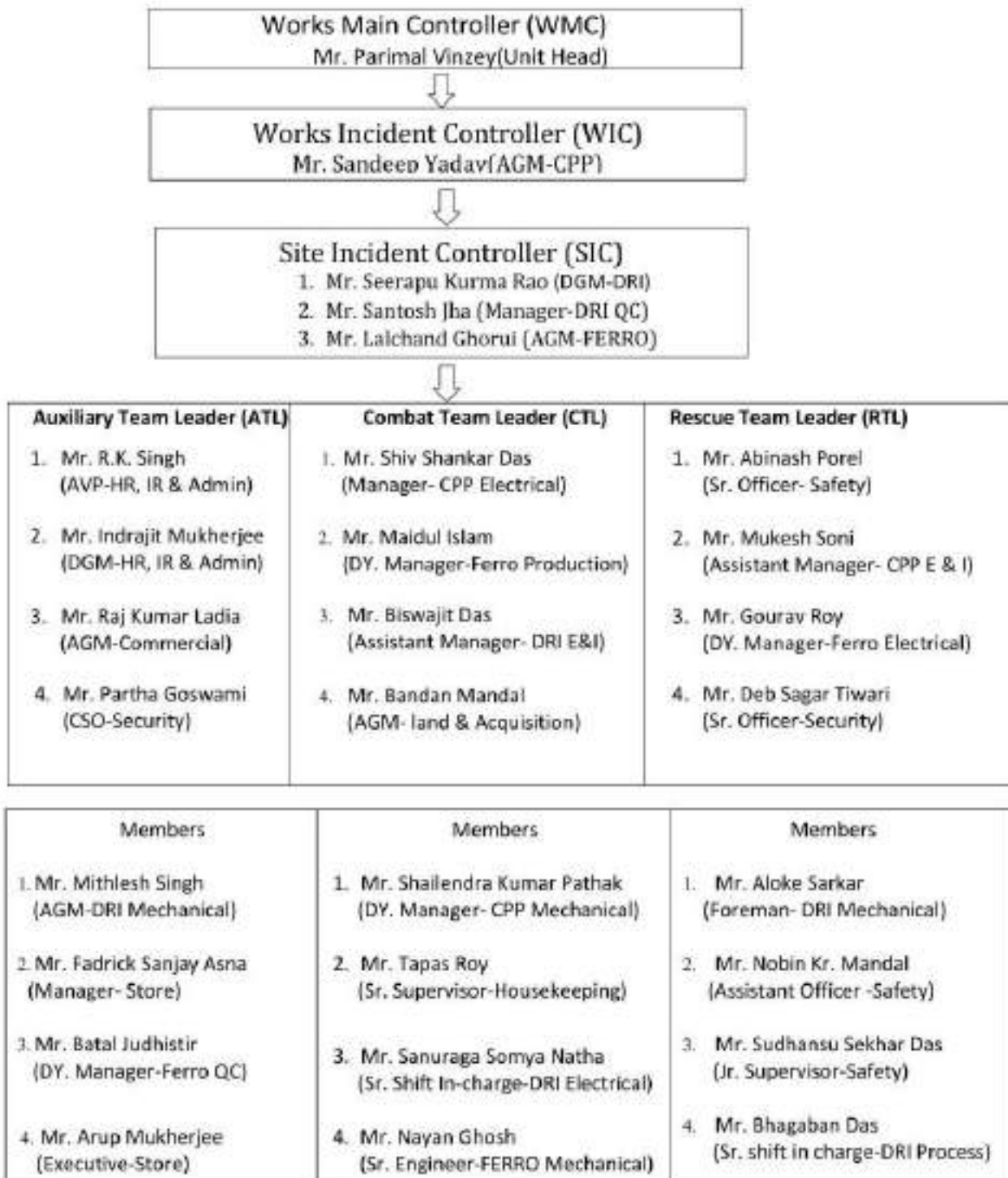
#### **Responsibility of Implementation of DMP:**

Responsibility for establishing and maintaining an Emergency Preparedness Plan/DMP belongs to the Plant-in-charge. He is responsible for the control of the plan, and for ensuring that the plan is applicable and implementing procedures are operated during emergency situation and are reviewed and revised annually.

As a member of top management, he is responsible for the training of personnel to ensure that adequate emergency response capabilities are maintained in accordance with the plan. He is also responsible for ensuring the regular conduct of drills and other measures, as outlined in the DMP.

|                                                                                                               |                                                                                                                                        |           |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <br><b>SHAKAMBHARI GROUP</b> | <b>M/s SPS Steels Rolling Mills Limited,</b><br><b>Unit-II</b><br>Vili-Paradiha, PO-Pachhandapur, PS-Santuri, Dist-Purulia (WB)-722153 | Page   20 |
|                                                                                                               | <b>Risk and Disaster Management Plan</b>                                                                                               |           |

### EMERGENCY COMMAND STRUCTURE





# M/s SPS Steels Rolling Mills Limited, Unit-II

Vill-Poradiha, PO-Pachhandapur, PS-Santuri, Dist-Purulia (WB)-722153

## Risk and Disaster Management Plan

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### TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM

| Sl. No. | Name                   | Position in Team                | Mob. Number | PAX. No. |
|---------|------------------------|---------------------------------|-------------|----------|
| 1       | Mr. Parimal Vinzey     | Works Main Controller (WMC)     | 9975213651  |          |
| 2       | Mr. Sandeep Yadav      | Works Incident Controller (WIC) | 7067656075  |          |
| 3       | Mr. Lalchand Ghorul    | Site Incident Controller (SIC)  | 9732087679  |          |
| 4       | Mr. Seerapu Kurma Rao  |                                 | 9052414512  |          |
| 5       | Mr. Santosh Jha        |                                 | 9993505195  |          |
| 6       | Mr. R.K. Singh         |                                 | 9147010378  |          |
| 7       | Mr. Indrajit Mukherjee | Auxiliary Team Leader (ATL)     | 9564616725  |          |
| 8       | Mr. Raj Kumar Ladia    |                                 | 7596056380  |          |
| 9       | Mr. Partha Goswami     |                                 | 9348531048  |          |
| 9       | Mr. Shiv Shankar Das   |                                 | 7597055327  |          |
| 10      | Mr. Maidul Islam       | Combat Team Leader (CTL)        | 8509613534  |          |
| 11      | Mr. Biswajit Das       |                                 | 9382850656  |          |
| 12      | Mr. Bandan Mandal      |                                 | 8250227478  |          |
| 13      | Mr. Abinash Porel      |                                 | 9051355045  |          |
| 14      | Mr. Mukesh Soni        | Rescue Team Leader (RTL)        | 9918173650  |          |
| 15      | Mr. Gourav Roy         |                                 | 9635780250  |          |
| 16      | Mr. Deb Sagar Tiwari   |                                 | 7542849981  |          |

### EMERGENCY CONTACT NUMBERS: SPS-II

| Sl. No. | Name                                 | Mob. No.                | PAX No. |
|---------|--------------------------------------|-------------------------|---------|
| 1       | Factory Chief Security Officer       | 9348531048              |         |
| 2       | Factory Security Officer             | 7542849981              |         |
| 3       | Factory Medical Unit/OHC             | 8768609599              |         |
| 4       | Factory Ambulance                    | 8981116036              |         |
| 5       | Govt. Ambulance Service              | 8170827589 / 9547536995 |         |
| 6       | Factory Safety Officer               | 9051355045              |         |
| 7       | District Magistrate                  | 03252-222302            |         |
| 8       | Superintendent of Police             | 03252-222304            |         |
| 9       | Chief Medical Officer                | 03252-222480            |         |
| 10      | ADM (G),                             | 03252-222120            |         |
| 11      | OC Disaster Management               | 7872488802              |         |
| 12      | Dy. Chief Inspector of Factories     | 0341-2252644            |         |
| 13      | Dist. Controller F & S               | 03252-222201            |         |
| 14      | Sub Divisional Office (Raghunathpur) | 02351-255270            |         |
| 15      | Fire Station, Raghunathpur           | 8584027313/03251-203550 |         |
| 16      | Fire Station Asansol                 | 0341-2304506            |         |
| 17      | Govt. Hospital                       | 03251-255208            |         |
| 18      | Police Station (Santuri P.S.)        | 03251-282040            |         |

## ANNEXURE-13

## SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBHARI GROUP)

VILL. PORADHA, POST- PACHANDAPUR, DIST.- PURULIA, WEST BENGAL-722153

## Health Checkup Details Of Employees

Date-05-03-2025

| Sl. No. | Employee's Name (Mr.) | Father's Name (Shri)     | Designation       | D.O.B.     | Parameters |     |        |     |             |           |     |       |                  |                       |                   |                      |  | Remarks |
|---------|-----------------------|--------------------------|-------------------|------------|------------|-----|--------|-----|-------------|-----------|-----|-------|------------------|-----------------------|-------------------|----------------------|--|---------|
|         |                       |                          |                   |            | Weight     | HB  | BP     | CBG | Blood Group | BK Factor | ECG | X-Ray | Audiometry       | Eye Vision (Distance) | Eye Vision (Near) | Cotton Vision (Fine) |  |         |
| 1       | PRABHAT KUMAR         | SRI SHIV KUMAR SINGH     | SHIFT INCH.       | 24-02-85   | 85         | 112 | 118/74 | 81  | B+          | POSITIVE  | NAD | NAD   | RT-30DS, LF-30DH | 6/12                  | N/12              | NORMAL               |  |         |
| 2       | SWARUP K.L. MARK      | ANADIPRASAD MARK         | SHIFT INCH.       | 26-01-88   | 92         | 97  | 122/88 | 38  | A+          | POSITIVE  | NAD | NAD   | RT-25DS, LF-25DH | 6/6                   | N/6               | NORMAL               |  |         |
| 3       | BASUDEB KARMAKAR      | MOUNDERA KARMAKAR        | FITTER            | 01-01-1975 | 55         | 93  | 142/96 | 68  | B+          | POSITIVE  | NAD | NAD   | RT-35DS, LF-35DH | 6/9                   | N/9               | NORMAL               |  |         |
| 4       | RAHUL BISHAL          | LATE JITEN BISHAL        | SHIFT ENDS.       | 21-09-99   | 57         | 82  | 122/78 | 65  | B+          | POSITIVE  | NAD | NAD   | RT-25DS, LF-25DH | 6/6                   | N/6               | NORMAL               |  |         |
| 5       | UTTAM DAS             | LATE MANIK DAS           | FITTER            | 01-11-1972 | 72         | 98  | 132/89 | 88  | A+          | POSITIVE  | NAD | NAD   | RT-38DS, LF-38DH | 6/6                   | N/6               | NORMAL               |  |         |
| 6       | BHOLA PANDIT          | SURYANATH PANDIT         | FITTER            | 01-03-1952 | 45         | 93  | 122/84 | 75  | O+          | POSITIVE  | NAD | NAD   | RT-30DS, LF-30DH | 6/6                   | N/6               | NORMAL               |  |         |
| 7       | SHUBA DEY             | LJUAL DEY                | JEENGINEER        | 24-11-1999 | 50         | 79  | 96/64  | 71  | B+          | POSITIVE  | NAD | NAD   | RT-25DS, LF-30DH | 6/6                   | N/6               | NORMAL               |  |         |
| 8       | SANTIMOY MONDAL       | LATE SANTOSH K.L. MONDAL | INCHARGE          | 28-02-1984 | 64         | 87  | 112/78 | 72  | A+          | POSITIVE  | NAD | NAD   | RT-35DS, LF-35DH | 6/6                   | N/6               | NORMAL               |  |         |
| 9       | ABJUN K.L. MISHRA     | LATE SRIVEND MISHRA      | SHIFT INCH.       | 09-09-1976 | 70         | 89  | 138/84 | 75  | A+          | POSITIVE  | NAD | NAD   | RT-36DS, LF-36DH | 6/6                   | N/6               | NORMAL               |  |         |
| 10      | SOUVEN SAMANTA        | NARAYAN CH. SAMANTA      | CHEMIST           | 05-09-1994 | 72         | 107 | 132/79 | 75  | O+          | POSITIVE  | NAD | NAD   | RT-30DS, LF-30DH | 6/9                   | N/9               | NORMAL               |  |         |
| 11      | GANESH HANSDA         | NANDALAL HANSDA          | HELPER            | 21-07-1987 | 70         | 89  | 139/89 | 77  | A+          | POSITIVE  | NAD | NAD   | RT-25DS, LF-30DH | 6/6                   | N/6               | NORMAL               |  |         |
| 12      | SHIV SHANKAR YADAV    | SHRI MOTILAL YADAV       | FORKLIFT OPERATOR | 15-12-1974 | 67         | 102 | 130/75 | 82  | O+          | POSITIVE  | NAD | NAD   | RT-30DS, LF-30DH | 6/12                  | N/12              | NORMAL               |  |         |
| 13      | LJUAL KUMAR           | SHRI LAL KUMAR           | SHIFT INCH.       | 24-03-1997 | 72         | 101 | 116/82 | 74  | A+          | POSITIVE  | NAD | NAD   | RT-25DS, LF-25DH | 6/9                   | N/9               | NORMAL               |  |         |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No. - WBMC 71665

## SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBHARI GROUP)

VILL. PORADINA, POST- PACHANDAPUR, DIST. - PURULIA, WEST BENGAL - 721133

## Health Checkup Details Of Employees

Date: 09-05-2023

| Sl. No. | Employee Name (Mr.) | Father's Name (Sri) | Designation     | D. D. B.   | Parameters |     |        |     |             |           |     |       |                 |                       |                   |                      |  |  | Remarks |
|---------|---------------------|---------------------|-----------------|------------|------------|-----|--------|-----|-------------|-----------|-----|-------|-----------------|-----------------------|-------------------|----------------------|--|--|---------|
|         |                     |                     |                 |            | Weight     | PS  | BP     | CRG | Blood Group | RH Factor | ECG | X-Ray | Audiometry      | Eye Vision (Distance) | Eye Vision (Near) | Colour Vision (Near) |  |  |         |
| 14      | MRINMOY MUKHERJEE   | ASHISH MUKHERJEE    | CBO             | 18-05-1993 | 30         | 91  | 121/88 | 58  | B+          | POSITIVE  | NAD | NAD   | RT-330S,LF-330Y | 5/9                   | N/9               | NORMAL               |  |  |         |
| 15      | MRINMOY GHOSH       | LALMOHAN GHOSH      | CHART           | 26-05-1998 | 62         | 83  | 113/84 | 63  | B+          | POSITIVE  | NAD | NAD   | RT-300S,LF-300Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 16      | RABI SAUJI          | GOPAL SAUJI         | HELPER          | 01-03-1972 | 61         | 98  | 140/75 | 95  | O+          | POSITIVE  | NAD | NAD   | RT-500S,LF-450Y | 5/6                   | N/18              | NORMAL               |  |  |         |
| 17      | ABINAV KUMBHAKAR    | BIMAL CH. KUMBHAKAR | ELECTRICIAN     | 01-09-1997 | 51         | 105 | 118/78 | 68  | O+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/6                   | N/6               | NORMAL               |  |  |         |
| 18      | S. SOMNATH          | MONAMOHAN NATH      | SR. SHIFT INCH. | 30-10-1990 | 69         | 97  | 113/75 | 66  | O+          | POSITIVE  | NAD | NAD   | RT-350S,LF-300Y | 6/6                   | N/6               | NORMAL               |  |  |         |
| 19      | ESHORE ROY          | LATE DURGAHARA ROY  | ELECTRICIAN     | 12-09-1982 | 53         | 86  | 134/83 | 78  | A+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 20      | SUREYA MONDAL       | S. SHANKAR MONDAL   | ELECTRICIAN     | 21-01-2000 | 60         | 81  | 116/75 | 80  | B+          | POSITIVE  | NAD | NAD   | RT-350S,LF-300Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 21      | PREMOHAR MURMU      | SUPLAL MURMU        | HELPER          | 05-06-2000 | 50         | 77  | 128/86 | 71  | O+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 22      | RAJUNATH MURMU      | NAHADEV MURMU       | HELPER          | 03-05-2003 | 61         | 73  | 124/79 | 68  | O+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 23      | SAGAN TUDU          | SUNYA TUDU          | HELPER          | 01-01-1992 | 64         | 81  | 124/88 | 76  | B+          | POSITIVE  | NAD | NAD   | RT-300S,LF-300Y | 5/6                   | N/9               | NORMAL               |  |  |         |
| 24      | UPEN MURMU          | BARKA MURMU         | HELPER          | 27-03-1992 | 70         | 99  | 130/75 | 86  | O+          | POSITIVE  | NAD | NAD   | RT-310S,LF-300Y | 6/9                   | N/9               | NORMAL               |  |  |         |
| 25      | KALI MURMU          | BHOLA MURMU         | HELPER          | 02-03-1988 | 60         | 92  | 128/83 | 73  | B+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/6                   | N/9               | NORMAL               |  |  |         |
| 26      | SHYAMAL TUDU        | LADH TUDU           | HELPER          | 01-03-1994 | 64         | 94  | 123/78 | 75  | B+          | POSITIVE  | NAD | NAD   | RT-250S,LF-250Y | 6/12                  | N/12              | NORMAL               |  |  |         |

DR. NIRAJ KUMAR KALOTIA  
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# SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBHARI GROUP)

WILL, PORADHA, POST- PACHANDAPUR, DIST - PURULIA, WEST BENGAL-722153

## Health Checkup Details Of Employees

Date-09-05-2024

| Sl.No. | Employees Name (Mr.) | Fathers Name (Shri)   | Designation | D . O . B. | Parameters |     |        |     |             |           |     |       |            |                       |                   |                     |  | Remarks |
|--------|----------------------|-----------------------|-------------|------------|------------|-----|--------|-----|-------------|-----------|-----|-------|------------|-----------------------|-------------------|---------------------|--|---------|
|        |                      |                       |             |            | Weight     | HR  | BP     | CRP | Blood Group | RH Factor | ECG | X-Ray | Audiometry | Eye Vision (Distance) | Eye Vision (Near) | Colour Vision (New) |  |         |
| 27     | JOYDEV KARMAKAR      | KANDAL KARMAKAR       | HELPER      | 13-07-1991 | 70         | 74  | 134/90 | 86  | O+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 28     | SAWALISH ROY         | LATE KALIDAS ROY      | ASH. K. OPS | 28-12-1987 | 80         | 79  | 127/84 | 85  | O+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 29     | PRADIP PATTAK        | ANIL K.L. PATTAK      | CHEMIST     | 17-09-1978 | 86         | 103 | 113/92 | 71  | B+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 30     | KANCHAN MUDI         | LAMBHODHAR MUDI       | L.S.I       | 20-04-2006 | 63         | 64  | 118/75 | 68  | O+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 31     | SUMIT PATRA          | ACHIN CH. PATRA       | A.S.I       | 09-05-1987 | 73         | 95  | 112/78 | 74  | O+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 32     | SUNDEL K.K. DUBEY    | LATE SHAHAR DUBEY     | ELECTRICIAN | 30-01-1990 | 53         | 111 | 135/86 | 78  | B+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 33     | NAREN HEMBRAM        | BOLAHARI HEMBRAM      | HELPER      | 15-07-2000 | 68         | 73  | 116/80 | 62  | AB+         | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 34     | RABI DAS TUDU        | LATE BORNA TUDU       | HELPER      | 25-09-1983 | 58         | 83  | 140/90 | 71  | AB+         | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 35     | DAYAMOI MONDAL       | BHAJHARI MONDAL       | HELPER      | 01-01-1966 | 61         | 104 | 125/86 | 87  | B+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 36     | SHIBU KISU           | PRADA KISU            | HELPER      | 01-01-1985 | 54         | 100 | 136/84 | 91  | O+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 37     | MINAL RANJ DEY       | LATE PRASANTA KR. DEY | ER. CHEMIST | 08-07-1975 | 74         | 92  | 140/98 | 81  | A+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 38     | BISHAN MURMU         | SHYAMLAL MURMU        | HELPER      | 19-02-2004 | 80         | 70  | 135/84 | 76  | A+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |
| 39     | UTTAM BAURI          | TULI BAURI            | HELPER      | 03-01-1977 | 55         | 88  | 142/92 | 100 | B+          | POSITIVE  | NAD | NAD   | NORMAL     | 6/6                   | N/5               | NORMAL              |  |         |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No. - WBMC 71665

## SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBHARI GROUP)

VILL. PORADHA, POST. PACHANDUPUR, DIST. - PURULIA, WEST BENGAL-722133

## Health Checkup Details Of Employees

Date-25-05-2025

| Sl. No. | Employee Name (Mr.) | Father's Name (Shr.)    | Designation               | D. O. B.   | Parameters |     |        |    |             |           |     |       |                  |                       |                   |                   |         |  |
|---------|---------------------|-------------------------|---------------------------|------------|------------|-----|--------|----|-------------|-----------|-----|-------|------------------|-----------------------|-------------------|-------------------|---------|--|
|         |                     |                         |                           |            | Weight     | HR  | BP     | CG | Blood Group | Hb Factor | ECG | X-Ray | Auditory         | Eye Vision (Distance) | Eye Vision (Near) | Chest X-Ray (Rnt) | Remarks |  |
| 40      | VAISNAV MONDAL      | LAKSHMANA MONDAL        | 2nd CLASS BOILER OPERATOR | 02-06-1988 | 65         | 83  | 128/80 | 86 | B+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-25DB | 6/6                   | N/5               | NORMAL            |         |  |
| 41      | BANUJ MOTE          | ANANDRAJ MOTE           | FITTER                    | 18-05-1992 | 64         | 72  | 121/80 | 68 | B+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-25DB | 6/6                   | N/5               | NORMAL            |         |  |
| 42      | MUKH SUTRADHAR      | NABANI SUTRADHAR        | HELPER                    | 06-05-1973 | 67         | 98  | 129/85 | 86 | O+          | POSITIVE  | NAD | NAD   | RT-30DB, LF-30DB | 6/6                   | N/5               | NORMAL            |         |  |
| 43      | MD SUKUR KHAN       | MD SAMIR KHAN           | HELPER                    | 01-02-1975 | 48         | 79  | 126/82 | 85 | O+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-25DB | 6/18                  | N/18              | NORMAL            |         |  |
| 44      | RAJU MOLLIK         | SHASHI MOLLIK           | CUTTER CLUM WELDER        | 05-06-1991 | 85         | 94  | 142/86 | 72 | O+          | POSITIVE  | NAD | NAD   | RT-30DB, LF-25DB | 6/6                   | N/5               | NORMAL            |         |  |
| 45      | ASHISH DUTTA        | JOGENDRA DUTTA          | ELECTRICIAN               | 02-12-1999 | 46         | 91  | 110/74 | 68 | O-          | NEGATIVE  | NAD | NAD   | RT-35DB, LF-35DB | 6/6                   | N/5               | NORMAL            |         |  |
| 46      | ANISH MUKHERJEE     | HORENDRA MATH MUKHERJEE | OET                       | 10-03-2006 | 72         | 84  | 132/81 | 80 | B+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-30DB | 6/6                   | N/5               | NORMAL            |         |  |
| 47      | DURGADAS KISHU      | BURA KISHU              | HELPER                    | 04-05-1990 | 65         | 81  | 134/83 | 71 | B+          | POSITIVE  | NAD | NAD   | RT-30DB, LF-30DB | 6/6                   | N/5               | NORMAL            |         |  |
| 48      | TAPAN K. MONDAL     | LATE RAMGOPAL MONDAL    | CHP OPR.                  | 22-09-1980 | 50         | 94  | 115/80 | 88 | B+          | POSITIVE  | NAD | NAD   | RT-30DB, LF-30DB | 6/6                   | N/5               | NORMAL            |         |  |
| 49      | RAHUL KUSHWAHA      | SURENDRA VERMA          | A.S.I                     | 30-11-1988 | 55         | 77  | 132/86 | 70 | A+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-30DB | 6/6                   | N/5               | NORMAL            |         |  |
| 50      | SOHRAV DUTTA        | BARU DUTTA              | JR. ENGINEER              | 25-09-1999 | 34         | 82  | 103/70 | 75 | B+          | POSITIVE  | NAD | NAD   | RT-35DB, LF-35DB | 6/6                   | N/5               | NORMAL            |         |  |
| 51      | CHINTU DUTTA        | LATE TAPAN DUTTA        | SHIFT INCH                | 11-07-1961 | 60         | 91  | 122/81 | 81 | A+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-25DB | 6/6                   | N/5               | NORMAL            |         |  |
| 52      | NAYAN GHOSH         | BANUJ GHOSH             | SR. ENGINEER              | 10-04-1996 | 58         | 107 | 127/89 | 89 | B+          | POSITIVE  | NAD | NAD   | RT-25DB, LF-25DB | 6/6                   | N/5               | NORMAL            |         |  |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No. - WBMC71665

## SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBHARI GROUP)

VILL. PORADIRA, POST- PACHANDAFUR, DIST. - PURULIA, WEST BENGAL-722153

## Health Checkup Details Of Employees

Date: 05-05-2021

| Sl. No. | Employee Name (Mr.)    | Father's Name (Shri) | Designation   | D. O. B.   | Parameters |    |        |     |             |           |     |       |                |                       |                   |                      |         |
|---------|------------------------|----------------------|---------------|------------|------------|----|--------|-----|-------------|-----------|-----|-------|----------------|-----------------------|-------------------|----------------------|---------|
|         |                        |                      |               |            | Weight     | HR | BP     | CBC | Blood Group | BH Factor | ICR | A-Ray | Audiometry     | Eye Vision (Distance) | Eye Vision (Near) | Colour Vision (Poor) | Remarks |
| 53      | PRATHAM SOREN          | SOMIND SOREN         | HELPER        | 01-01-1977 | 55         | 90 | 130/92 | 102 | B+          | POSITIVE  | NAD | NAD   | RT-3000LF-30DB | 6/6                   | N/5               | NORMAL               |         |
| 54      | SHUKAR MURMU           | GHADU MURMU          | HELPER        | 01-01-1987 | 63         | 75 | 130/90 | 100 | B+          | POSITIVE  | NAD | NAD   | RT-3000LF-30DB | 6/6                   | N/5               | NORMAL               |         |
| 55      | BARISOREN              | SIDYANATH SOREN      | HELPER        | 22-07-1987 | 66         | 80 | 113/85 | 98  | B+          | POSITIVE  | NAD | NAD   | RT-4000LF-35DB | 6/6                   | N/5               | NORMAL               |         |
| 56      | SUSANTA NANDI          | BABULAL NANDI        | TURNER        | 12-04-1994 | 54         | 98 | 124/73 | 88  | B+          | POSITIVE  | NAD | NAD   | RT-3000LF-35DB | 6/6                   | N/5               | NORMAL               |         |
| 57      | DHANANJOY BHATTACHARYA | BHOSAN BHATTACHARYA  | ASS. FITTER   | 03-01-1979 | 63         | 80 | 140/81 | 86  | O+          | POSITIVE  | NAD | NAD   | RT-3000LF-30DB | 6/6                   | N/5               | NORMAL               |         |
| 58      | RUPAL SOREN            | JITEN SOREN          | WELDER/CUTTER | 09-03-1995 | 54         | 78 | 133/70 | 78  | A+          | POSITIVE  | NAD | NAD   | RT-3000LF-30DB | 6/5                   | N/5               | NORMAL               |         |
| 59      | KALIPADA MURMU         | KITTARU MURMU        | HELPER        | 01-05-1982 | 68         | 84 | 130/78 | 81  | B+          | POSITIVE  | NAD | NAD   | RT-2500LF-25DB | 6/6                   | N/5               | NORMAL               |         |
| 60      | SUKDEB MURMU           | JANIT MURMU          | HELPER        | 04-06-1998 | 50         | 72 | 113/70 | 62  | B+          | POSITIVE  | NAD | NAD   | RT-2500LF-30DB | 6/6                   | N/5               | NORMAL               |         |
| 61      | SUNIL MANDI            | HARPADA MANDI        | HELPER        | 11-04-1967 | 60         | 94 | 143/92 | 102 | B+          | POSITIVE  | NAD | NAD   | RT-4500LF-30DB | 6/24                  | N/24              | NORMAL               |         |
| 62      | SAMBHU HANSDA          | PRATHAM HANSDA       | HELPER        | 01-01-1982 | 83         | 83 | 107/68 | 98  | A8+         | POSITIVE  | NAD | NAD   | RT-3000LF-35DB | 6/6                   | N/5               | NORMAL               |         |
| 63      | ERISHA PRASAD BHANJA   | BADHANATH BHANJA     | ENGINEER      | 09-06-1991 | 65         | 76 | 113/73 | 75  | B+          | POSITIVE  | NAD | NAD   | RT-2500LF-35DB | 6/6                   | N/5               | NORMAL               |         |
| 64      | SIDYUT KUMBHAKAR       | MEHR KUMBHAKAR       | HELPER        | 10-03-1985 | 73         | 89 | 104/89 | 68  | O+          | POSITIVE  | NAD | NAD   | RT-2500LF-25DB | 6/18                  | N/18              | NORMAL               |         |
| 65      | RABON MURMU            | RUPAL MURMU          | HELPER        | 10-12-2001 | 44         | 85 | 106/67 | 67  | B+          | POSITIVE  | NAD | NAD   | RT-3500LF-35DB | 6/6                   | N/5               | NORMAL               |         |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No. - WBMC 71665

| SPS STEELS ROLLING MILLS LTD. (UNIT-II)                              |                       |                       |               |            |            |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
|----------------------------------------------------------------------|-----------------------|-----------------------|---------------|------------|------------|-----|--------|-----|-------------|-----------|-----|-------|-----------------|-----------------------|-------------------|----------------------|---------|
| (A UNIT OF SHAKAMBHARI GROUP)                                        |                       |                       |               |            |            |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
| VILL. PORADHA, POST- PACHANDAPUR, DIST.- PURULIA, WEST BENGAL-721153 |                       |                       |               |            |            |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
| Health Checkup Details Of Employees                                  |                       |                       |               |            |            |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
| Date-09-05-2025                                                      |                       |                       |               |            |            |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
| Sl.No.                                                               | Employee Name (Mr.)   | Father's Name (Shr)   | Designation   | D - O - B. | Parameters |     |        |     |             |           |     |       |                 |                       |                   |                      |         |
|                                                                      |                       |                       |               |            | Weight     | FB  | BP     | CBG | Blood Group | BH Factor | ECG | X-Ray | Audiometry      | Eye Vision (Distance) | Eye Vision (Near) | Colour Vision (Near) | Remarks |
| 66                                                                   | TAPAS MANDI           | MATAL MANDI           | HELPER        | 29-03-1994 | 69         | 85  | 112/72 | 30  | O+          | POSITIVE  | NAD | NAD   | RT-3000,LF-3500 | 6/6                   | N/6               | NORMAL               |         |
| 67                                                                   | DASHRATH HANSDA       | LATE NABIN CH. HANSDA | HELPER        | 09-03-1982 | 58         | 79  | 131/82 | 80  | AB+         | POSITIVE  | NAD | NAD   | RT-3000,LF-3500 | 6/18                  | N/6               | NORMAL               |         |
| 68                                                                   | SAHEB MAJI            | AJIT MAJI             | SUPERVISOR    | 02-11-1995 | 62         | 89  | 120/70 | 98  | AB+         | POSITIVE  | NAD | NAD   | RT-3500,LF-3500 | 6/6                   | N/6               | NORMAL               |         |
| 69                                                                   | SARSHI GOPAL MAHADANI | SUKUMAR MAHADANI      | SR. FITTER    | 30-06-1982 | 68         | 87  | 135/85 | 103 | AB+         | POSITIVE  | NAD | NAD   | RT-3000,LF-3000 | 6/6                   | N/6               | NORMAL               |         |
| 70                                                                   | PARSHNATH SINGHA      | BAVESWAR SINGHA       | WELDER/CUTTER | 03-01-1983 | 78         | 89  | 130/90 | 76  | B+          | POSITIVE  | NAD | NAD   | RT-2500,LF-2500 | 6/6                   | N/6               | NORMAL               |         |
| 71                                                                   | JAGANNATH TANTUBAY    | SADHAN TANTUBAY       | WELDER/CUTTER | 20-08-1985 | 82         | 92  | 135/85 | 79  | O+          | POSITIVE  | NAD | NAD   | RT-3000,LF-3000 | 6/6                   | N/6               | NORMAL               |         |
| 72                                                                   | ANIMESH CHAUDHARY     | NABOKUMAR CHAUDHARY   | FITTER        | 15-05-1985 | 82         | 72  | 114/72 | 82  | A+          | POSITIVE  | NAD | NAD   | RT-3500,LF-3500 | 6/6                   | N/6               | NORMAL               |         |
| 73                                                                   | GUNADHAR SINGH SARDAR | BIR SINGH SARDAR      | HELPER        | 08-01-1987 | 38         | 92  | 130/81 | 71  | O+          | POSITIVE  | NAD | NAD   | RT-3000,LF-3000 | 6/6                   | N/6               | NORMAL               |         |
| 74                                                                   | MILAN MAHATO          | MIHIR MAHATO          | HELPER        | 04-06-1992 | 63         | 87  | 131/88 | 76  | O+          | POSITIVE  | NAD | NAD   | RT-3500,LF-3500 | 6/6                   | N/6               | NORMAL               |         |
| 75                                                                   | ANANTA BADIYAKAR      | BUV BADIYAKAR         | HELPER        | 23-11-2003 | 44         | 78  | 128/77 | 68  | AB+         | POSITIVE  | NAD | NAD   | RT-3500,LF-3500 | 6/6                   | N/6               | NORMAL               |         |
| 76                                                                   | UPENDRA CHAUDHARY     | RAJENDRA CHAUDHARY    | SR.FITTER     | 05-11-1993 | 48         | 68  | 115/79 | 78  | A+          | POSITIVE  | NAD | NAD   | RT-3000,LF-3000 | 6/6                   | N/6               | NORMAL               |         |
| 77                                                                   | RISHET HANSDA         | BABULAL HANSDA        | WELDER/CUTTER | 17-11-1990 | 68         | 76  | 118/69 | 67  | A+          | POSITIVE  | NAD | NAD   | RT-4800,LF-3000 | 6/6                   | N/6               | NORMAL               |         |
| 78                                                                   | SUDY CHAKRABORTY      | SRISEWAR CHAKRABORTY  | HELPER        | 02-12-2002 | 67         | 119 | 131/88 | 63  | A+          | POSITIVE  | NAD | NAD   | RT-3000,LF-3000 | 6/6                   | N/6               | NORMAL               |         |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No. - WBMCT1665

## SPS STEELS ROLLING MILLS LTD. (UNIT-II)

(A UNIT OF SHAKAMBIHARI GROUP)

VILL. PORADHA, POST- PACHARGAPUR, DIST- PURULIA, WEST BENGAL-72153

## Health Checkup Details Of Employees

Date-03-05-2023

| Date-09-05-2025 |                        |                       |                           |            |            |     |        |     |             |           |     |       |                 |                       |                   |                     |         |  |
|-----------------|------------------------|-----------------------|---------------------------|------------|------------|-----|--------|-----|-------------|-----------|-----|-------|-----------------|-----------------------|-------------------|---------------------|---------|--|
| Sl. No.         | Employees Name (Mr.)   | Fathers Name (Shr)    | Designation               | D. O. B.   | Parameters |     |        |     |             |           |     |       |                 |                       |                   |                     |         |  |
|                 |                        |                       |                           |            | Weight     | PH  | BP     | CRP | Blood Group | Rh Factor | ECG | X-Ray | Audiometry      | Eye Vision (Distance) | Eye Vision (Near) | Colour Vision (New) | Remarks |  |
| 79              | KARADHAN MUKHERJEE     | KUT MUKHERJEE         | HELPER                    | 10-02-1984 | 75         | 82  | 128/78 | 74  | O+          | POSITIVE  | NAD | NAD   | RT-2508,LF-3008 | 6/6                   | N/9               | NORMAL              |         |  |
| 80              | DIKSHWAN PARMARIE      | KRISHNA CH. PRASANNIC | 2nd CLASS BOILER OPERATOR | 01-04-1986 | 58         | 86  | 121/90 | 68  | O+          | POSITIVE  | NAD | NAD   | RT-3008,LF-3008 | 6/6                   | N/9               | NORMAL              |         |  |
| 81              | HEMANTA HANSOA         | RAGANAM HANSOA        | SR.FITTER                 | 01-01-1991 | 66         | 59  | 121/71 | 98  | A+          | POSITIVE  | NAD | NAD   | RT-3008,LF-3008 | 6/6                   | N/9               | NORMAL              |         |  |
| 82              | JOYJAL MURMU           | KALICHARAN MURMU      | HELPER                    | 1988       | 62         | 82  | 117/83 | 100 | O+          | POSITIVE  | NAD | NAD   | RT-3508,LF-3008 | 6/6                   | N/12              | NORMAL              |         |  |
| 83              | BAJU KARMAR            | BABLU KARMAR          | HELPER                    | 28-11-1989 | 57         | 78  | 118/77 | 95  | B+          | POSITIVE  | NAD | NAD   | RT-2508,LF-3008 | 6/6                   | N/9               | NORMAL              |         |  |
| 84              | JAINATH BAURI          | NARESH BAURI          | HELPER                    | 18-03-1987 | 42         | 96  | 125/78 | 73  | O+          | POSITIVE  | NAD | NAD   | RT-3008,LF-3108 | 6/6                   | N/9               | NORMAL              |         |  |
| 85              | KARTICK CH. MAHI       | MAGARAM MAHI          | HELPER                    | 1983       | 45         | 81  | 133/94 | 68  | B+          | POSITIVE  | NAD | NAD   | RT-2508,LF-2108 | 6/6                   | N/6               | NORMAL              |         |  |
| 86              | BIDESH CHANDRA         | DURGADAS CHANDRA      | CAP OPR                   | 22-08-1980 | 75         | 100 | 119/88 | 95  | B+          | POSITIVE  | NAD | NAD   | RT-2508,LF-3008 | 6/6                   | N/5               | NORMAL              |         |  |
| 87              | RABHAI TUDU            | BADINATH TUDU         | HELPER                    | 01-01-1988 | 70         | 101 | 116/94 | 68  | O+          | POSITIVE  | NAD | NAD   | RT-2508,LF-3008 | 6/6                   | N/12              | NORMAL              |         |  |
| 88              | SARAC ACHARYA          | MANOTARAN ACHARYA     | CNG                       | 29-02-1993 | 84         | 119 | 130/86 | 71  | B+          | POSITIVE  | NAD | NAD   | RT-2508,LF-2508 | 6/6                   | N/5               | NORMAL              |         |  |
| 89              | SUMIT MUKHERJEE        | SOURMEN MUKHERJEE     | TECHNICIAN                | 07-06-2005 | 58         | 62  | 120/61 | 65  | AB+         | POSITIVE  | NAD | NAD   | RT-2508,LF-2508 | 6/6                   | N/9               | NORMAL              |         |  |
| 90              | RAKESH CHANDRA CHANDRA | LATE MADAN CHANDRA    | CHEMIST                   | 08-01-1982 | 88         | 88  | 140/90 | 74  | AB+         | POSITIVE  | NAD | NAD   | RT-2508,LF-2508 | 6/6                   | N/5               | NORMAL              |         |  |
| 91              | SAUR HANSOA            | ERUDAS HANSOA         | HELPER                    | 01-09-1999 | 75         | 78  | 131/81 | 71  | B+          | POSITIVE  | NAD | NAD   | RT-3008,LF-3008 | 6/6                   | N/6               | NORMAL              |         |  |

DR. NIRAJ KUMAR KALOTIA  
MD (Med)  
Reg. No.- WBMC 71665

## ANNEXURE-14



## CORPORATE ENVIRONMENT POLICY

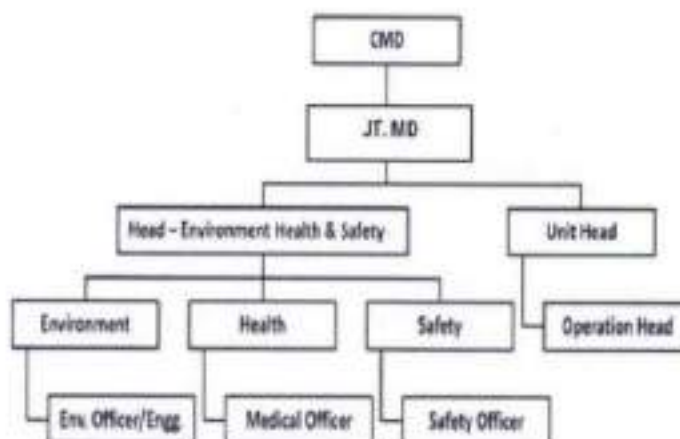
M/s SPS Steels Rolling Mills Limited, engaged in production of steel products, is committed towards sustainable development. The mission of M/s SPS Steels Rolling Mills Limited is to produce steel in an environment friendly manner and strive to:

- Integrate sound environmental management practices in all the activities.
- Conduct the operations in environmentally responsible manner to minimise pollution and its impact on environment.
- Comply with all applicable legal and other requirements related to environmental aspects of the operations and strive to go beyond. The Environmental Management Cell will be headed by EHS-HEAD.
- The company shall ensure that deviations from this policy and cases of violations/non-compliances of Environmental laws, if any, shall immediately be reported to the Board of Directors through Jt. Managing Director and shall identify and designate responsible person promptly for ensuring compliance with the Environmental laws and regulation.
- Conserve Energy, and other natural resources, minimize waste generation by promoting recovery, recycle and reuse practices.
- Increase greenery in and around the plant.
- Ensure continual improvement in environmental performance by setting and reviewing objectives & targets.
- Encourage environmental awareness amongst employees and general populace around the plant.
- Maintain transparency in the matters of Environmental Compliance.

The hierarchical system/administrative order to deal with the issues related to environmental Compliance shall be as follows:

For M/S SPS Steels Rolling Mills Ltd.

  
Director



**Regd. Office :** "Diamond Prestige", 41A, A.J.C. Bose Road, 7th floor #701, Kolkata, West Bengal - 700017, India

**Unit I :** Dr. Zakir Hussain Avenue, G.T.Road (Indo American More) Durgapur, West Burdwan, West Bengal - 713206, India

**Unit II :** Village:- Poradiha, P.O:- Pachhandapur, P.S:-Santuri, District - Purulia, West Bengal - 722153, India

**Phone :** 033 6625 5252 | **E-mail :** info@shakambhargroup.in | **Toll Free No. :** 1800-102-5868

## ANNEXURE-15





## ANNEXURE-16

To,  
The District Magistrate,  
Dist-Purulia, Govt. of West Bengal

*o/c*

Date: 04.03.2024

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

Ref: EC Letter vide File No. IA-J-11011/150/2022-II (IND-I) dated 26.02.2024

Dear Sir,

With respect to the subject and above cited reference this to inform that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide File No. IA-J-11011/150/2022-II(IND-I) date-26.02.2024 the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Village-Poradiha, Chandurdi & Shunurhi, PO- Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, District-Purulia, West Bengal

In compliance of the 'Miscellaneous Condition No. ii' of the granted Environmental Clearance a copy of EC is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For M/s SPS Steels Rolling Mills Limited

(Mrityunjay Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



To,  
The Additional District Magistrate & DL and LRO  
Dist-Purulia, Govt. of West Bengal

*O/C*

Date: 04.03.2024

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

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For M/s SPS Steels Rolling Mills Limited

(Mrityunjay Chatteropadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



Date: 04.03.2024

To,  
The Sabhadhipati,  
Purulia Zilla Parishad,  
Dist.-Purulia (WB)

*O/c*

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

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Thanking you and with regards,

For M/s SPS Steels Rolling Mills Limited

(Mrityunjay Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



Date: 04.03.2024

To,  
The General Manager,  
D.I.C. Dist-Purulia (WB)

*O/c*

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

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For M/s SPS Steels Rolling Mills Limited

(Mrityunjay Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



Date: 04.03.2024

To,  
The Sub-Divisional Magistrate,  
Raghunathpur Sub-Division  
Dist-Purulia, Govt. of West Bengal

*O/c*

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

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Thanking you and with regards,

For M/s SPS Steels Rolling Mills Limited

*(Signature)*  
(Mrityunjoy Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



Date: 04.03.2024

To,  
The Block Development Officer,  
Santuri Development Block,  
Dist.-Purulia (WB)

O/c

**Sub: Information on grant of Environment Clearance (EC) for the Expansion of Sponge Iron Plant (1,20,000 to 15,84,000 TPA), Captive Power Plant (10 MW to 145 MW-WHRB, AFBC & CFBC Boiler), Ferro Alloy (1x9 MVA to 8x9 MVA), along with New Installation of Steel Melting Shop (10,05,000 TPA), Rolling Mill (9,97,500 TPA), Pellet Plant (2x2.4 MTPA), Sinter Plant (1,00,000 TPA), Jigging plant (1,65,000 TPA), Briquetting plant (3,00,000 TPA), Oxygen Plant (170 TPD) & Railway Siding by M/s SPS Steels Rolling Mills Limited at Vill-Poradiha, Chandurdi & Shunurhi, PO-Pachhandapur, PS-Santuri, Tehsil-Raghunathpur, Dist-Purulia, West Bengal**

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For M/s SPS Steels Rolling Mills Limited

(Mrityunjay Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



Date: 04.03.2024

To,  
The Sabhapati,  
Santuri Panchayat Samity,  
Dist.-Purulia (WB)

*o/c*

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*(Signature)*  
(Mrityunjoy Chattopadhyay)  
Group HR Head (Shakambhari Group)

Encl: As above



*RECEIVED WITH DIT OFFICE*  
*05/03/2024*  
*SPS STEEL ROLLING MILLS LTD.*

Date: 04.03.2024

To,  
The Ballitora Gram Panchyat,  
Santuri Development Block,  
Dist.-Purulia (WB)

O/c

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(Mrityunjay Chattopadhyay)  
Group HR Head (Shakambhari Group)

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