



SPS STEELS ROLLING MILLS LIMITED

CIN: L51909WB1981PLC034409 LEI No.: 3358002I2NC16VIDUE53 GSTIN: 19AAHCS8719G1ZW



Ref: -SPS/SMC/MoEFCC/OCT 2022 to MARCH 2023

Date: 30.06.2023

To,
The Inspector General of Forest (IGF)
GOI, MoEF&CC, Integrated Regional Office, Kolkata
1B-198, Salt Lake City, Sector-III
Kolkata-700106 (WB)

SUB: Six Monthly (Period Oct. 2022 to March 2023) Compliance to Environmental Clearance conditions vide MoEF&CC F. No. J-11011/156/2020-IA.II (I) Dated 01st September, 2022 by M/S SPS Steels Rolling Mills Limited, Dr. Zakir Hussain Avenue, G.T. Road (Indo American More) Durgapur, PO-ABL Sub Post Office, Dist- Paschim Bardhaman (WB)-713206

Respected Sir/Ma'am,
With reference to the above subject, we are submitting herewith the six-monthly compliance report (Period Oct. 2022 to March. 2023) of M/S SPS Steels Rolling Mills Limited, Dr. Zakir Hussain Avenue, G.T. Road (Indo American More) Durgapur, PO-ABL Sub Post Office, Dist- Paschim Bardhaman (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind perusal.

Hard copy of the report has not been sent following MoEFCC Eastern Regional Office direction vide File No. 106-12/EPE Dated 11.05.2020. Hope you will find the same in order.

Kindly acknowledge our submission.

Thanking you and 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, Durgapur Regional office, Shahid Khudiram Sarani, City Center, Durgapur (WB)-713216

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 & P.O:- Poradiha, P.S. Santuri, District - Purulia, West Bengal - 722153, India

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

SPS STEELS ROLLING MILLS LIMITED

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

REF: MOEFCC FILE NO. - J-11011/156/2020-IA. II (I) DATED- 01/09/2022

**COMPLIANCE PERIOD:
OCTOBER-2022 TO MARCH-2023**



PROJECT LOCATION:

Dr. Zakir Hussain Avenue, G.T. Road (Indo American More) Durgapur, PO-ABL Sub Post Office,
Dist- Paschim Bardhaman (WB)-713206

SIX MONTHLY COMPLIANCE REPORT

Name of Project	SPS Steels Rolling Mills Limited
EC DETAILS	
Identification No.	EC22A008WB110390
EC File No.	J-11011/156/2020-IA.II (I)
EC Issue Date	01.09.2022
Compliance Period	October 2022 – March 2023

Sl. No.	Condition	Compliance Status
A. <u>Specific Conditions</u>		
i.	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.	Noted. It shall be complied with.
ii.	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.	Noted. The company has taken into considerations to adopt more carbon efficient technologies available in the market at planning stage-for integrations of new equipment. Carbon sequestration resources like dens plantation and its proper maintenance being/shall be done as the plants are good receptor of CO ₂ from atmosphere.
iii.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	It shall be complied. NABL accredited third party monitoring being conducted periodically to evaluate the emission level of pollution control systems i.e. ESPs and bag filters. It is also monitored by West Bengal Pollution Control Board (WBPCB) team. Latest Stack monitoring reports of WBPCB is enclosed as Annexure-1
iv.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore,	It is being complied. For control of fugitive dust emission covered conveyors are provided. Water sprinkler also installed in all transfer point and bulk raw material storage and ash handling, kiln axis and other dust



	Coal and for Fly Ash and similar solid waste storage areas.	prone areas. Coal are kept under the storage shed. Some photographs are attached as Annexure-2
	b. Proper covered vehicle shall be used while transport of materials.	Vehicles used for transportation of raw material are ensured to be covered.
	c. Wheel Washing mechanism shall be provided in entry and exit gates.	It shall be complied. To minimise the fugitive emission caused by the vehicular movements, company has planned to concretization/paver blocking of all internal roads of the plant. Photographs of work progress of RCC road making and paver blocked area are attached as Annexure-3
v.	Project proponent shall ensure to close 2 RH furnaces and go for 100 % hot charging. For emergency one RH would be retained to run on LDO or CBM as available in Durgapur. Coal shall not be used as fuel in the reheating furnace.	One of the RH furnace already been dismantled, another one will also be after completion of direct hot charging system for rolling mill project. Emergency RH Furnace being/shall be run on CBM/LDO, no coal being/shall be used.
vi.	As committed, all conditions of CEPI including 40% green belt development and 1.5 times CER shall be complied with as per the mitigation measures submitted.	Total 7550 trees have been planted covering approx. 3.12 Ha of land. During previous monsoon season 2850 more trees were planted by gap filling in existing plantations and plantation in additional area and plant density of approx. 2420 plants/ha has been achieved. More efforts shall be done to achieve the desired target of plantation (2500trees/Ha) during ensuing monsoon season. Survival rate of green belt developed being/shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. With implementation of expansion project parallel efforts shall be made to cover 3.75 Ha (40%) of the total plant area of 9.38 Ha under greenbelt @2500 plants/Ha. Enhancement of greenbelt area already been started using indigenous species i. e. Radhachura, Neem, Arjun, Bat, Peepal, Bakul, Conocarpus, Kadam, Rain tree, Shishu, Sonajhuri, Siris, Ficus, Krishnachura Palm trees etc. inside the plant and outside the plant periphery. Some photographs are attached as Annexure-4 . CER shall be executed as per direction
vii.	Particulate matter emission from stacks shall be less than 30 mg/Nm ³ .	Air pollution control devices viz. ESPs and bag filters have already been installed and operated efficiently. Capacity of Pollution control device shall be enhanced to control emission level well



		within 30 mg/Nm ³ . Stack monitoring reports are enclosed as Annexure-1
viii.	The total water requirement of 1385 KLD shall be met from Durgapur Projects Ltd. (DPL). No ground water abstraction is permitted.	Noted. It shall be complied. Water requirement being/will be met from Durgapur Projects Ltd. (DPL). No ground water being/will be abstracted. Copy of the agreement is attached as Annexure-5 .
ix.	The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source.	Rain water harvesting pond already been developed to ensure maximum rain water collection and being used to reduce water dependence from the outside source. Photograph attached as Annexure-6 . All possible attempts shall be made to ensure optimal rain water harvesting & use of such water to reduce requirement from outside.
x.	Left Bank Main Canal, Damodar River, Barjora Nadi, Kunur Nadi, Panagarh Branch Canal, Damodar Branch Canal exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. 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.	Recycle & reuse practice being/shall be ensured to maintain the Zero Liquid Discharge. No industrial waste water is allowed to discharge outside the factory premises. Drainage system of the company is under renovation so as to maintain the natural flow parameters and don't cause the soil erosion.
xi.	Air cooled condensers shall be used in the Power plant.	Air cooled condensers and closed-circuit cooling system will be provided with Power Plant to reduce water consumption.
xii.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Electronic waste generated being disposed off through authorized vendor. Form-6 is attached as Annexure-7
xiii.	Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of 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. Plantation in gaps in the green belt shall be done by the PP during the present monsoon period and maintenance of @2500 plants/ha shall be done in the following years. Additional plantation shall be made in the East Direction from plant site to minimise the	Total 7550 trees have been planted covering approx. 3.12 Ha of land. During previous monsoon season 2850 more trees were planted by gap filling in existing plantations and plantation in additional area and plant density of approx. 2420 plants/ha has been achieved. More efforts shall be done to achieve the desired target of plantation (2500trees/Ha) during ensuing monsoon season. Survival rate of green belt developed being/shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Some photographs of greenbelt development are attached as Annexure-4 With implementation of expansion project parallel shall be made to cover 3.75 Ha (40%) of the total



	effect on Durgapur Protected Forest. Greenbelt/Plantation outside the project premises such as avenue plantation in vacant areas and social forestry shall also be done through socio economic developmental activities. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	plant area of 9.38 Ha under greenbelt @2500 plants/Ha. Additional plantation in the East Direction from plant site to minimise the effect on Durgapur Protected Forest shall be ensured. Greenbelt/Plantation outside the project premises such as avenue plantation in vacant areas and social forestry has been started as a part of socio-economic developmental activities. Approx. 1200 plants have been planted in the east direction of the project beside Kali Mandir road at Nasser Hussain Avenue. Some photographs are attached as Annexure-8
xiv.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Most of the roads already been paved or concreted. Some photographs are attached as Annexure-3 .
xv.	The project proponent shall monitor the coal dust exposure concentrations at coal handling areas, ball mills, furnace charging areas through personal/area monitoring; and to be compared and it should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.	It is being monitored. Coal is being stored under coal storage shed. Presently coal is being used as fuel for sponge iron production in DRI Kiln. Adequate water sprinkling being done to suppress the fugitive dust emission. Fugitive emission being monitored time to time. Latest monitoring report is enclosed as Annexure-9
xvi.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression.	Recycle and reuse practise has been adapted for industrial waste water. No industrial effluent being discharged outside the factory premises. For domestic sewage effluent treatment septic tank followed by soak pit facilities are provided. STP shall be installed for the treatment of domestic waste water and treated water shall be re-used for greenbelt development and plantation and dust suppression Effluent analysis report is enclosed as Annexure-10
xvii.	CEMS shall be provided on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant.	24x7 Online Continuous Emission Monitoring System (OCEMS) have been installed with all major stacks and connected to CPCB portal to monitor the air emissions. Signal are received in plant control room for central control of APCDs installed in the plant.
xviii.	All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.	Development of RCC/Paved roads to comply with traffic load are under progress.
xix.	Internal roads of plant premises shall be concreted and maintained in good condition.	Most of the internal roads of the plant has already been paved or concreted and being maintained in



	Industrial vacuum cleaners shall be used regularly to clean roads to reduce fugitive emissions.	<p>good conditions. Concretization of remaining internal roads where heavy vehicle movements are envisaged is under progress.</p> <p>Photographs of work progress of RCC road making and paver blocked area are attached as Annexure-3</p>
xx.	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.	<p>Impervious flooring of stockyard shall be ensured with garland drain as per direction so as to trap the run off materials.</p> <p>However raw material like coal, iron pellet and sponge iron are kept under the shed and those kept outside under open sky being covered under tarpaulin. Water sprinkling system is provided for dust suppression.</p>
xxi.	All the commitments made to the public during the Public Hearing/Public Consultation 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 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	Noted, it shall be complied with.
xxii.	<p>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 https://cpcb.nic.in/technical-guidelines-3/. 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.</p>	<p>Use of single use plastic is completely banned inside the plant premises.</p> <p>Our EHS personnel are regularly creating awareness among people working within the factory premises to avoid the Single Use Plastic (SUP) items.</p> <p>Further campaigning against SUP shall be conducted for more effective compliance of guidelines and Notification dated 12/08/2021 of the Hon'ble Ministry.</p>



xxiii.	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.	<p>Proper Air pollution control devices (APCDs) like ESP, Bag Houses, Wet Scrubbers are/shall be provided to maintain clean air environment.</p> <p>Adequate no. of water sprinklers are provided in the project area and movable water tanker is also deployed for suppression of fugitive dust emission due to vehicular movement on roads inside the plant and surrounding of the plant area.</p>
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B. General Conditions:

I. Statutory compliance:

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.	<p>Noted.</p> <p>After getting the Environmental Clearance SPS has obtained the Consent to Establish (CTE) from West Bengal Pollution Control Board (WBPCB) and there after CTO for 3x20 Ton Induction Furnace has been obtained from WBPCB. Copies of CTE and CTO is enclosed as Annexure-11A & 11B</p>
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II. Air quality monitoring and preservation

i.	The project proponent shall install 24x7 continuous emission monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>24x7 Online Continuous Emission Monitoring System (OCEMS) with all major stacks have been installed and connected to CPCB portal to monitor the air emissions.</p> <p>Stack emission status also being monitored periodically through NABL accredited laboratory to evaluated emission level.</p> <p>Latest stack monitoring report is attached as Annexure-1.</p>
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories	<p>Fugitive emission is being monitored through NABL accredited laboratories.</p>



	recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Latest fugitive air monitoring report is attached as Annexure-9 .
iii.	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.	<p>Air pollution control devices viz. ESPs and bag filters along with dust extraction system along with water sprinkling system for effective dust suppression have been installed and efficiently operated to control emission level well within the norms.</p> <p>Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels.</p> <p>Stack monitoring report & fugitive air emission report is enclosed as Annexure-1 & 9</p>
iv.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Being/shall be complied.
v.	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.	<p>To ensure optimal use of raw material & minimal solid waste generation, recycle & reuse practice already been adopted.</p> <p>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 power generating units.</p> <p>There is no briquetting process is proposed to be installed.</p>
vi.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	<p>It is being complied.</p> <p>Properly covered vehicles are being/will be used to prevent spillage and fugitive dust generation.</p>
vii.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Fume extraction system has been installed at SMS attached with spark arrester and bag filters connected with 30-meter stack height.
viii.	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 project facilities.

III. Water quality monitoring and preservation

i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31 st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30 th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7 th	It shall be complied.
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	December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Half yearly monitoring of ground water being done. Ground water monitoring report is enclosed as Annexure-12
iii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Presently for domestic sewage effluent treatment septic tank followed by soak pit facilities are provided. STP shall be installed for the treatment of domestic waste water and treated water shall be re-used for greenbelt development and plantation and dust suppression
iv.	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.	Effluent generated from rolling mills being treated and recycled back to the process. No effluent being discharged outside the factory premises.
v.	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.	Being complied. Raw martial like coal and pellet being kept under the shed iron stock piles are being covered under the tarpaulin.
vi.	Tyre washing facilities shall be provided at the entrance/exit of the plant gates.	Proper road sweeping being done on regular basis. Mobile water takers have been deployed for water sprinkling on roads for road dust suppression has been deployed. Tyre washing facilities at the entrance/exit of the plant gate shall also be provided.
IV. Noise monitoring and prevention		
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	It is being/shall complied. Noise quality monitoring being done on regular basis as directives of Noise Pollution (Regulation and Control) Rules, 2000. Latest ambient & work zone noise monitoring report enclosed as Annexure13A & Annexure13B



V. Energy Conservation measures		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	It is being/shall be complied. Offices inside the has been equipped with LED lights. To minimize the electric energy consumption solar energy provision shall also be implemented.
VI. Waste management		
i.	Used refractories shall be recycled.	Noted.
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Organic waste generated from the canteen is being & shall be composted and used for green belt development.
VII. Green Belt		
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 including plantation.	Carbon Footprint & Carbon sequestration report of the project is already been prepared and submitted to MOEF&CC. Attached as Annexure-14 Continuous efforts being & shall be done to reduce the Carbon Footprint.
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 monitorable with defined time frames.	Noted. It shall be complied with
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. Risk & Disaster Management Plan of the company is attached as Annexure-15
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	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 heat exposure. Heat Stress analysis shall also be carried out



iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational Health Surveillance of the workers is being carried out on regular interval and records are maintained. Last Health check-up report is enclosed as Annexure-16
IX. Environment Management		
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.	Company has undertaken various CER activities for the benefit of local community i.e. maintenance of school building, study material distribution to school students, food items to underprivileged people, sport organization for children/youths, blood donation camps etc. It shall be more effectively implemented to comply the directions of socio-economic development for the benefit of local community.
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.	<p>It is compiled. SPS has implemented standard operating procedure to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions.</p> <p>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 as follows:</p>  <pre> graph TD Board[Board of Directors] --> CMD[CMD] CMD --> ED[ED-Corporate] ED --> HeadEMC[Head - Environment Management Cell] ED --> UnitHead[Unit Head] HeadEMC --> Environment[Environment] HeadEMC --> Health[Health] HeadEMC --> Safety[Safety] UnitHead --> OperationHead[Operation Head] Environment --> EnvOff[Env. Officer/Engg.] Health --> MedicalOff[Medical Officer] Safety --> SafetyOff[Safety Officer] </pre>
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	An environmental cell has been set up under the supervision of senior executive to look after the day to day activities pertaining to environment & pollution control issues of the company.



	<p>Hierarchical system/ Administrative order of the environmental cell is follows:</p> <pre> graph TD CMD[CMD] --> EDC[ED-Corporate] EDC --> HEMC[Head - Environment Management Cell] EDC --> UH[Unit Head] HEMC --> Env[Environment] HEMC --> Health[Health] HEMC --> Safety[Safety] Env --> EO[Env. Officer/Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] UH --> OH[Operation Head] </pre>
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X. Miscellaneous

i.	<p>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>	<p>It is Complied.</p> <p>The grant of environmental clearance already been advertised in 'Aajkal' & Millennium Post Newspaper on 06th Sept, 2022 to make it public Annexure-17</p> <p>Copy of the environmental clearance (EC) is uploaded in company's website (https://www.spsgroup.co.in/).</p>
ii.	<p>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>	<p>Complied.</p> <p>Attached as Annexure-18</p>
iii.	<p>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>	<p>Noted.</p> <p>It shall be complied with.</p>
iv.	<p>The project proponent shall monitor the criteria (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.</p>	<p>Latest stack monitoring reports & ambient air monitoring reports around the plant premises along with pollutants level namely; PM10, SO2, NOx being displayed at main gate of the plant and it shall also be uploaded in company website (https://www.spsgroup.co.in/) under Half yearly compliance report as per direction.</p> <p>Ambient Air & Stack Monitoring reports are enclosed as Annexure-19 & Annexure-1</p>
v.	<p>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</p>	<p>Noted. It shall be complied.</p>



	Environment, Forest and Climate Change at environment clearance portal.	
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Being complied. The environment statement (Form-V) for FY: 2022-23 will be submitted to WBPCB with copy to Integrated Regional Office of the MOEF&CC, Kolkata. The report will be uploaded on the company's website as per direction.
vii.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Date of financial closure of the project is 06.06.2022 Consent to Establish (CTE) obtained from WBPCB on 16.09.2022 As expansion project was proposed within existing plant area therefore land development work not much required. Land development cum project work was started w.e.f. 18.09.2022 Consent to Operate (CTO) from WBPCB for production operation was obtained on 03.03.2023
viii.	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.
ix.	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. It shall be complied.
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
xi.	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 complied.



ANNEXURE-1

Analysis Reports of Gaseous Emission

Identification Code: 2 9 1 1 2 0 2 2 8 7 7 7


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	Dr. Jakir Hussain Avenue, P.O: ABL Sub Post Office P.S: Durgapur, 713206
3. Category & Type	Red & Sponge Iron Plant
4. Sampling Date	29.11.2022
5. Duration of Sampling	29 min
6. Name of Laboratory	M/s. Eco-Care
7. Height of Stack from ground (m)	31.0
8. Cross section of Stack at sampling point (m ²)	0.2828
9. Stack connected to	Product House
10. Emission due to (Furnace / Boiler)	Process Activity
11. Average operational hours of boiler/furnace (per month)	720hrs/month
12. APC System (if any)	Bag Filter
13. Working load of source (MT/hr)	-
14. Fuel used	-
15. Rated Fuel consumption (Kg or l /hr)	-
16. Working Fuel consumption (Kg or l /hr)	-
17. Nature of furnace/boiler	Product House
18. Flue Gas Temp (°C)	42.0
19. Flue gas velocity (m/s)	7.87
20. Volume of Flue gas drawn in lit (m ³)	1.015
21. Corrected flue gas volume (Nm ³)	0.8981
22. Percentage of CO ₂ & O ₂	O ₂ =18.4%
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.4463
25. Final wt of thimble (gm)	1.4510
26. Wt. of PM (mg)	4.70
27. Particulate matter (mg/Nm ³)	5.23
28. Barometric Pressure Head (mm of Hg)	752
29. Diameter of the nozzle	9.525 mm
30. Others -	31. Thimble Number
32. Sampled by	Mr. S. Banerjee, AEE

09/12/2022

Date of Reporting

Junior Scientist, DRL

Scientist, DRL

Copy to:

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

Analysis Reports of Gaseous Emission

Identification Code: 291120228776


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	Dr. Jakir Hussain Avenue, P.O: ABL Sub Post Office P.S: Durgapur, 713206
3.Category & Type	Red & Sponge Iron Plant
4.Sampling Date	29.11.2022
5.Duration of Sampling	33 min
6.Name of Laboratory	M/s. Eco-Care
7.Height of Stack from ground (m)	32.0
8.Cross section of Stack at sampling point (m ²)	0.785
9.Stack connected to	Rotary Kiln No.-1&2 (40 TPD×2) No.-2 in Operation
10.Emission due to (Furnace / Boiler)	Reduction of Iron Ore & Oxidation of Coal
11.Average operational hours of boiler/furnace (per month)	720hrs/month
12.APC System (if any)	ESP
13.Working load of source (MT/hr)	Iron Ore=2.0 MT/hr.
14. Fuel used	Coal, As Reducing Agent
15.Rated Fuel consumption (Kg or l /hr)	-
16.Working Fuel consumption (Kg or l /hr)	Coal-2.0 MT/hr.
17.Nature of furnace/boiler	Rotary Kiln (40 TPD×2)
18.Flue Gas Temp (°C)	143.0
19.Flue gas velocity (m/s)	8.75
20.Volume of Flue gas drawn in lit (m ³)	1.023
21.Corrected flue gas volume (Nm ³)	0.8361
22.Percentage of CO ₂ & O ₂	CO ₂ =9.4% O ₂ =11.2%
23.To be compensated at (% if required)	12% CO ₂
24.Initial wt of thimble (gm)	1.5414
25.Final wt of thimble (gm)	1.5517
26.Wt. of PM (mg)	10.30
27.Particulate matter (mg/Nm ³)	15.73 at 12% CO ₂
28.Barometric Pressure Head (mm of Hg)	752
29.Diameter of the nozzle	9.525 mm
30. Others SO ₂	
31. Thimble Number	4290
32. Sampled by	Mr. S. Banerjee, AEE

09/12/2022

Date of Reporting

Junior Scientist, DRL

09/12/2022

Scientist, DRL

Copy to:

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

Analysis Reports of Gaseous Emission

Identification Code: 291120228775



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	Dr. Jakir Hussain Avenue, P.O: ABL Sub Post Office P.S: Durgapur, 713206
3. Category & Type	Red & Sponge Iron Plant
4. Sampling Date	29.11.2022
5. Duration of Sampling	35 min
6. Name of Laboratory	M/s. Eco-Care
7. Height of Stack from ground (m)	32.0
8. Cross section of Stack at sampling point (m ²)	0.785
9. Stack connected to	Rotary Kiln No.-03 (100 TPD)
10. Emission due to (Furnace / Boiler)	Reduction of Iron Ore & Oxidation of Coal
11. Average operational hours of boiler/furnace (per month)	720hrs/month.
12. APC System (if any)	ESP
13. Working load of source (MT/hr)	Iron Ore=4.0 MT/hr.
14. Fuel used	Coal, As Reducing Agent
15. Rated Fuel consumption (Kg or l/hr)	-
16. Working Fuel consumption (Kg or l/hr)	Coal-4.0 MT/hr.
17. Nature of furnace/boiler	Rotary Kiln (100 TPD)
18. Flue Gas Temp (°C)	125.0
19. Flue gas velocity (m/s)	7.84
20. Volume of Flue gas drawn in lit (m ³)	1.015
21. Corrected flue gas volume (Nm ³)	0.8170
22. Percentage of CO ₂ & O ₂	CO ₂ =9.8% O ₂ =10.4%
23. To be compensated at (% if required)	12% CO ₂
24. Initial wt of thimble (gm)	1.4298
25. Final wt of thimble (gm)	1.4369
26. Wt. of PM (mg)	7.10
27. Particulate matter (mg/Nm ³)	10.03 at 12% CO ₂
28. Barometric Pressure Head (mm of Hg)	752
29. Diameter of the nozzle	9.525 mm
30. Others SO ₂	
31. Thimble Number	4289
32. Sampled by	Mr. S. Banerjee, AEE

09/12/2022

Date of Reporting

Junior Scientist, DRL

09/12/2022

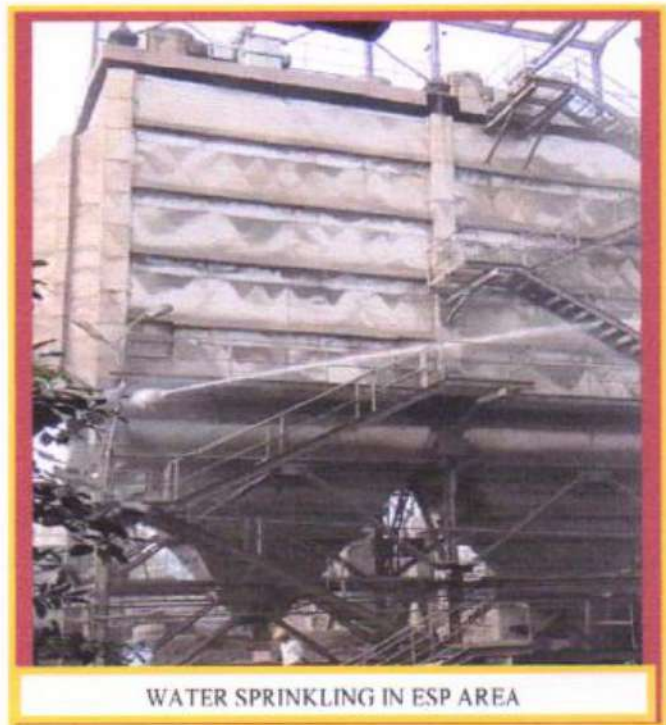
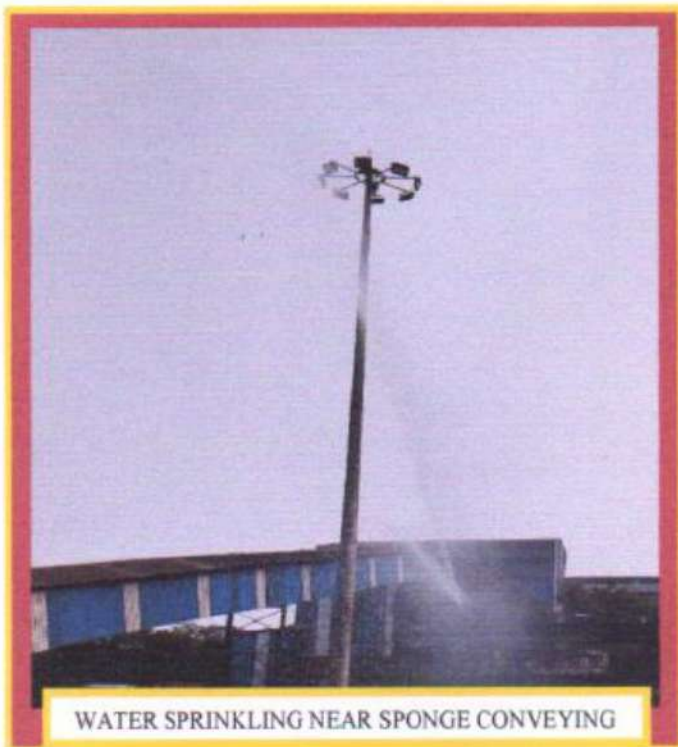
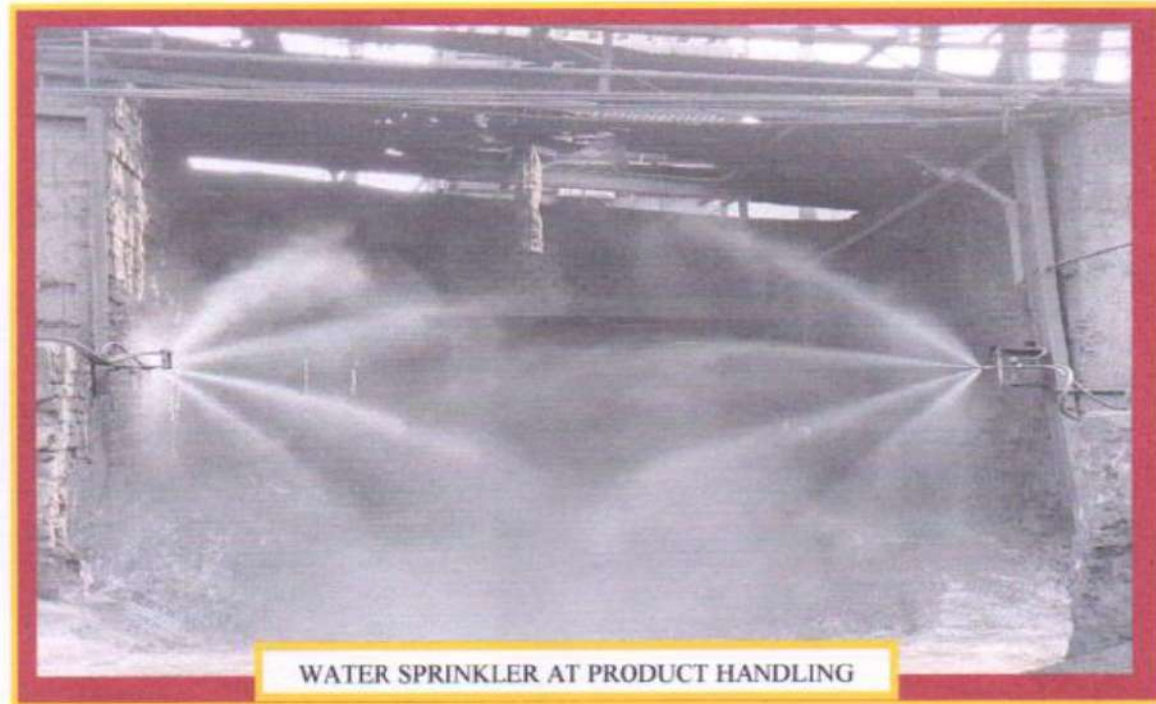
Scientist, DRL

Copy to:

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

ANNEXURE-2

SPS STEELS ROLLING MILLS LIMITED



ANNEXURE-3

RCC ROAD/PAVER BLOCK MAKING WORK PROGRESS
AT
SPS STEELS ROLLING MILLS LIMITED



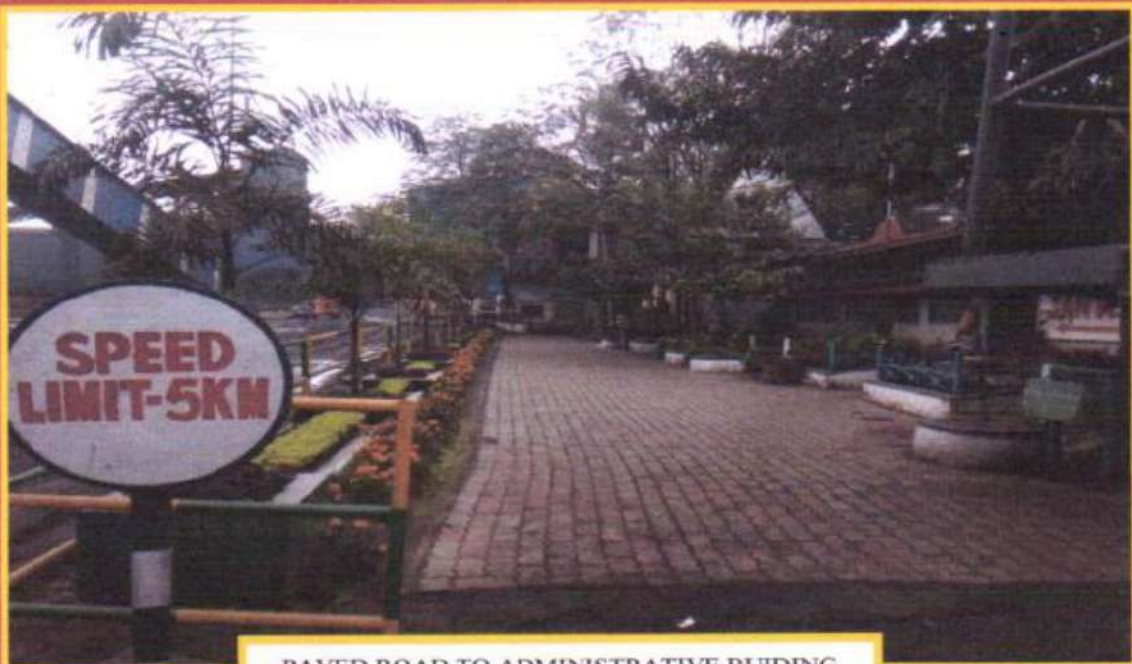


ANNEXURE-4

**PHOTOGRAPHS OF GREEN BELT DEVELOPMENT
(SPS STEELS ROLLING MILLS LIMITED)**



PLANT MAIN GATE



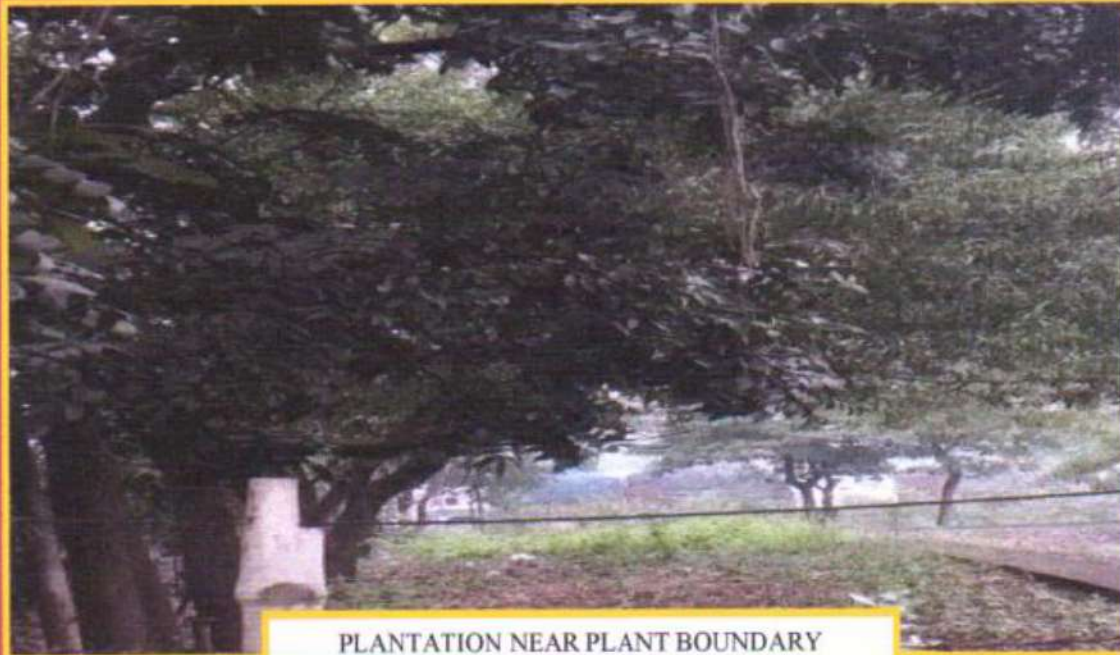
PAVED ROAD TO ADMINISTRATIVE BUILDING



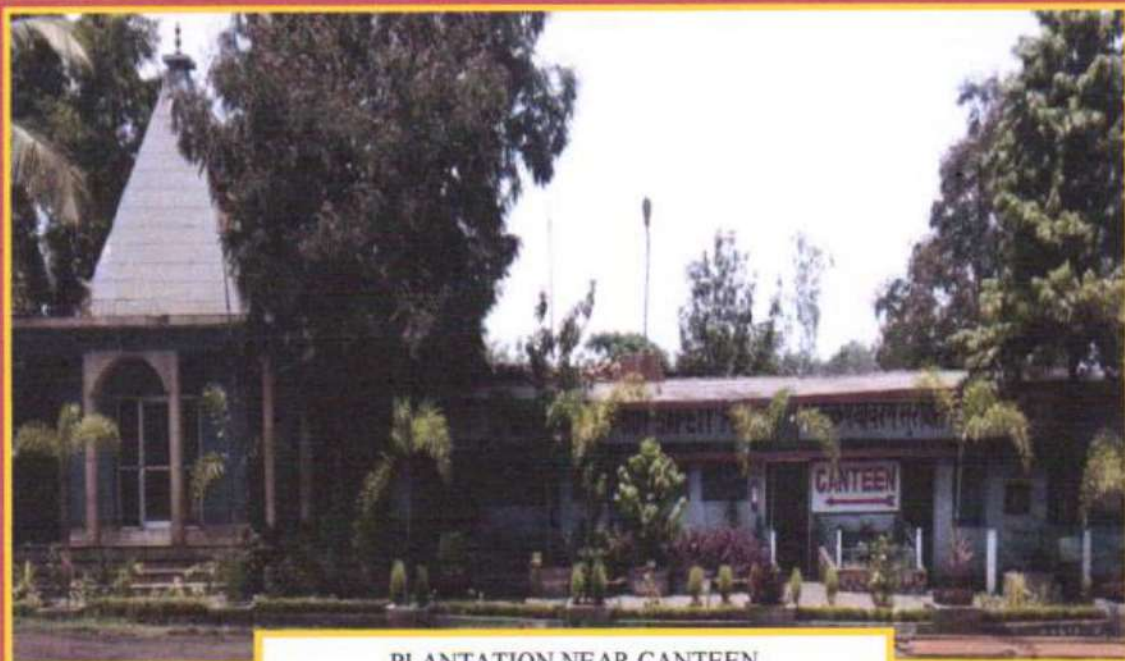
PLANTATION NEAR OHC



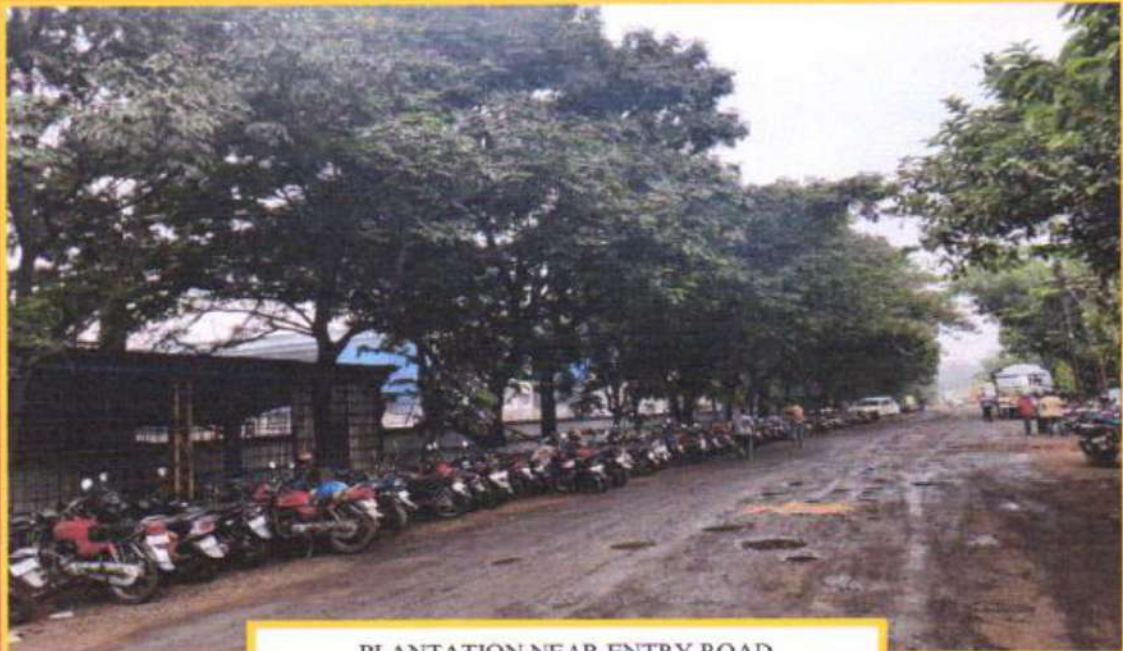
PLANTATION WITHIN THE PLANT



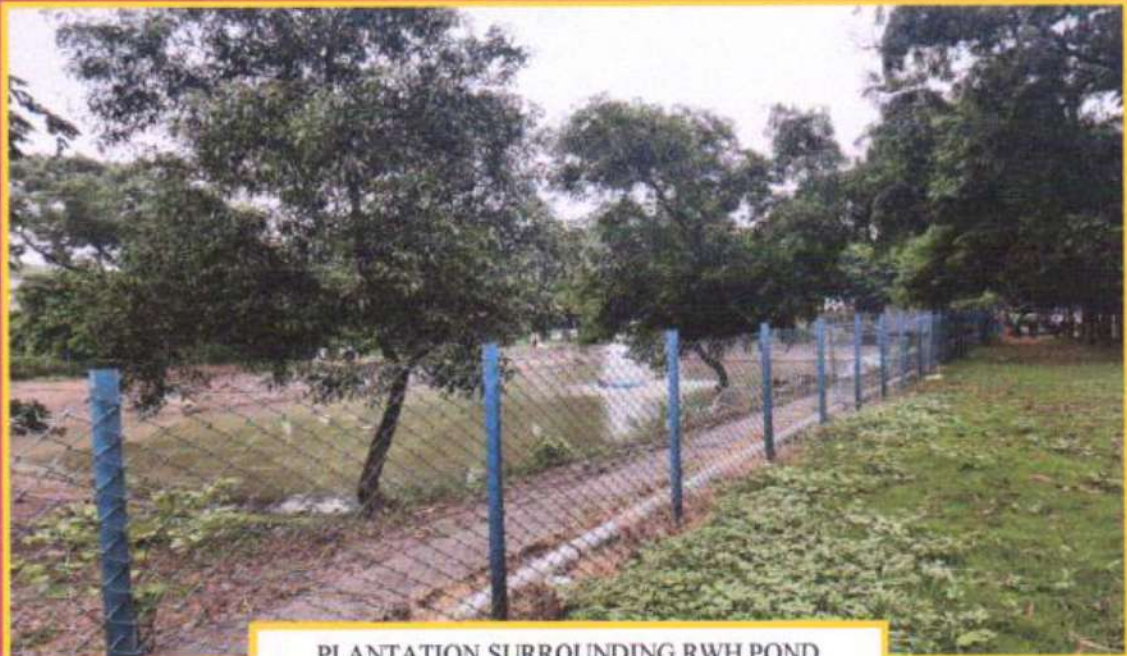
PLANTATION NEAR PLANT BOUNDARY



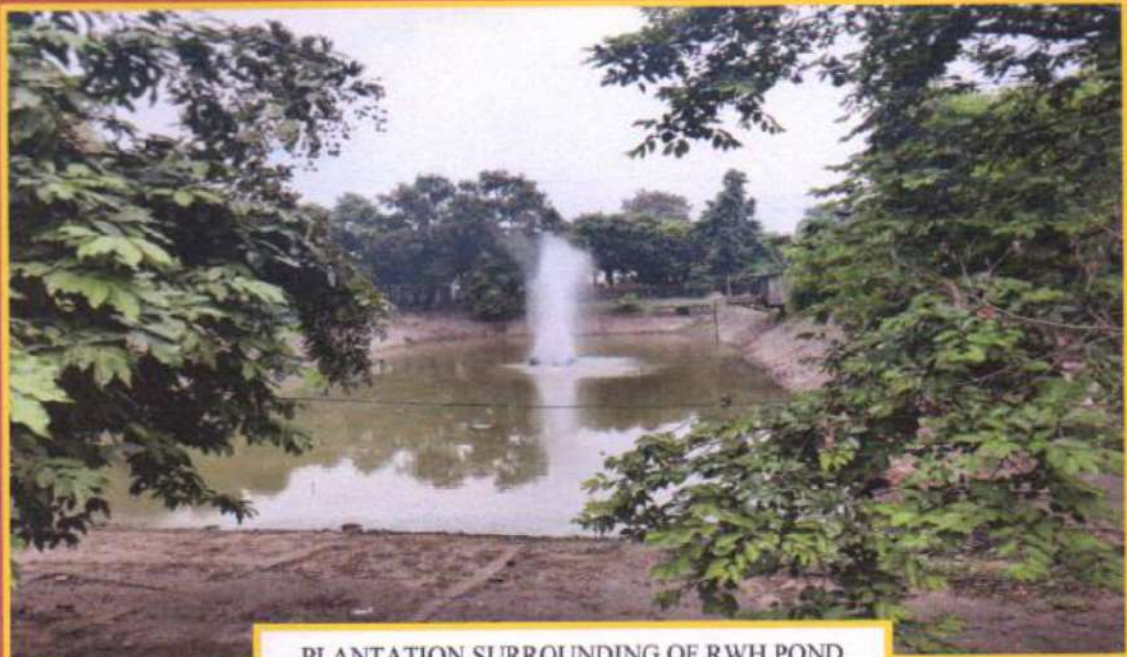
PLANTATION NEAR CANTEEN



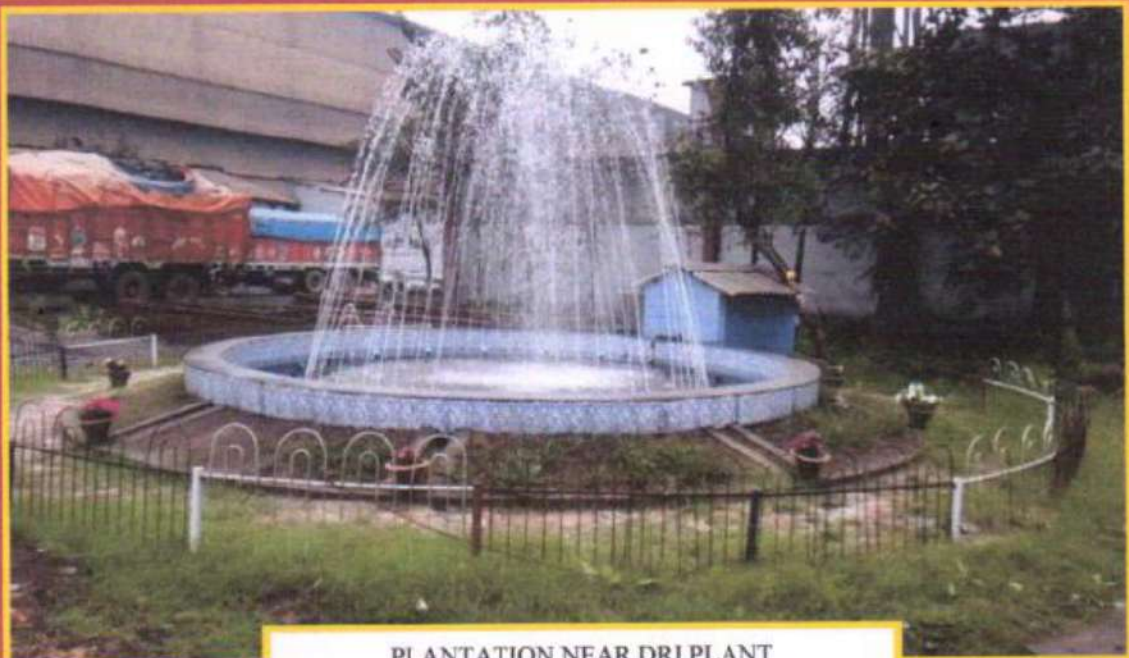
PLANTATION NEAR ENTRY ROAD



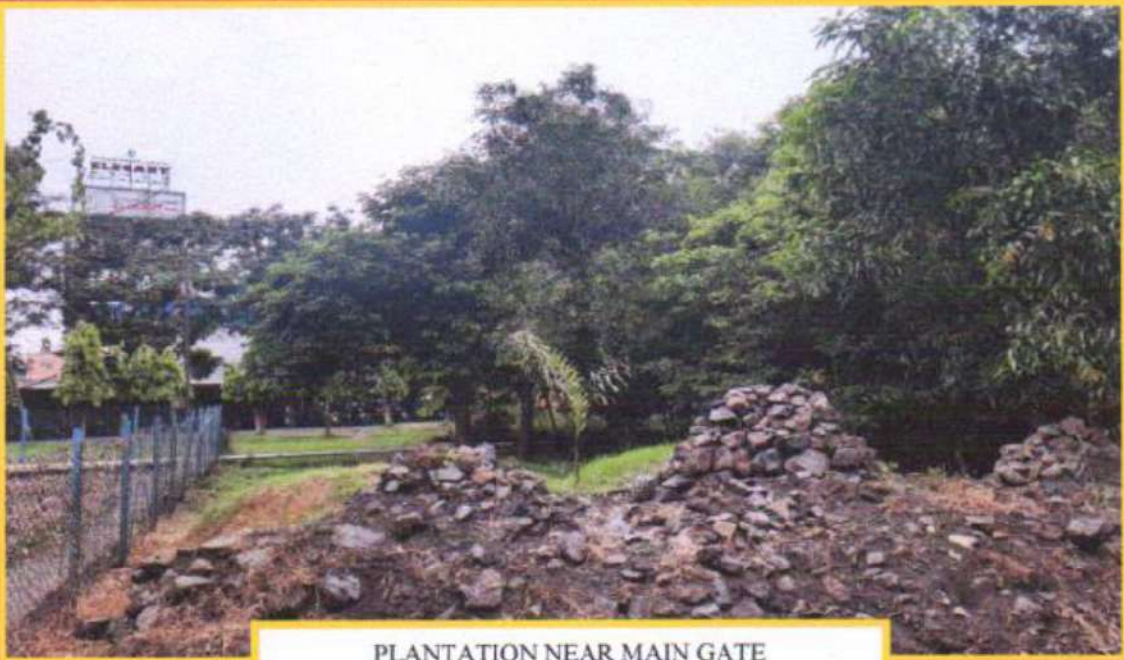
PLANTATION SURROUNDING RWH POND



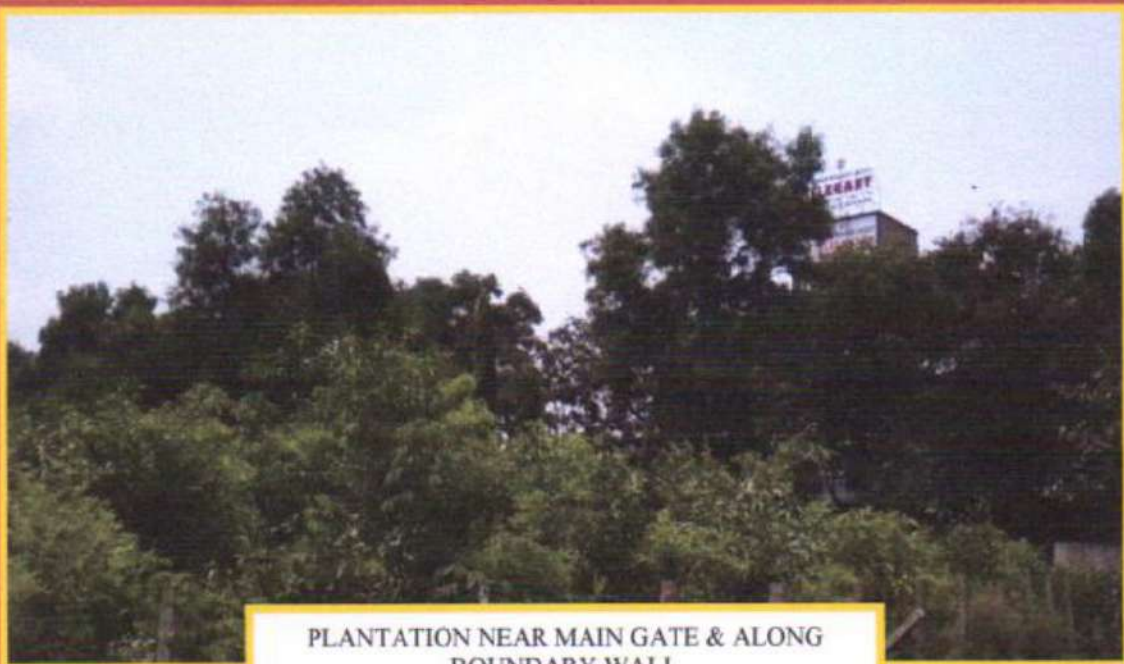
PLANTATION SURROUNDING OF RWH POND



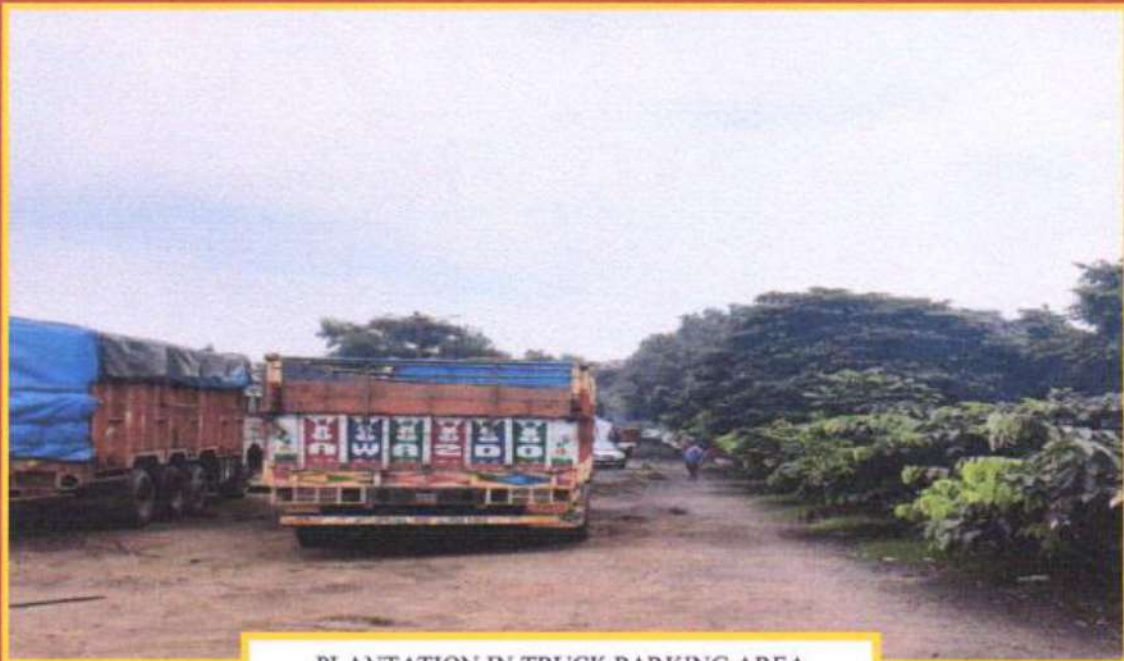
PLANTATION NEAR DRI PLANT



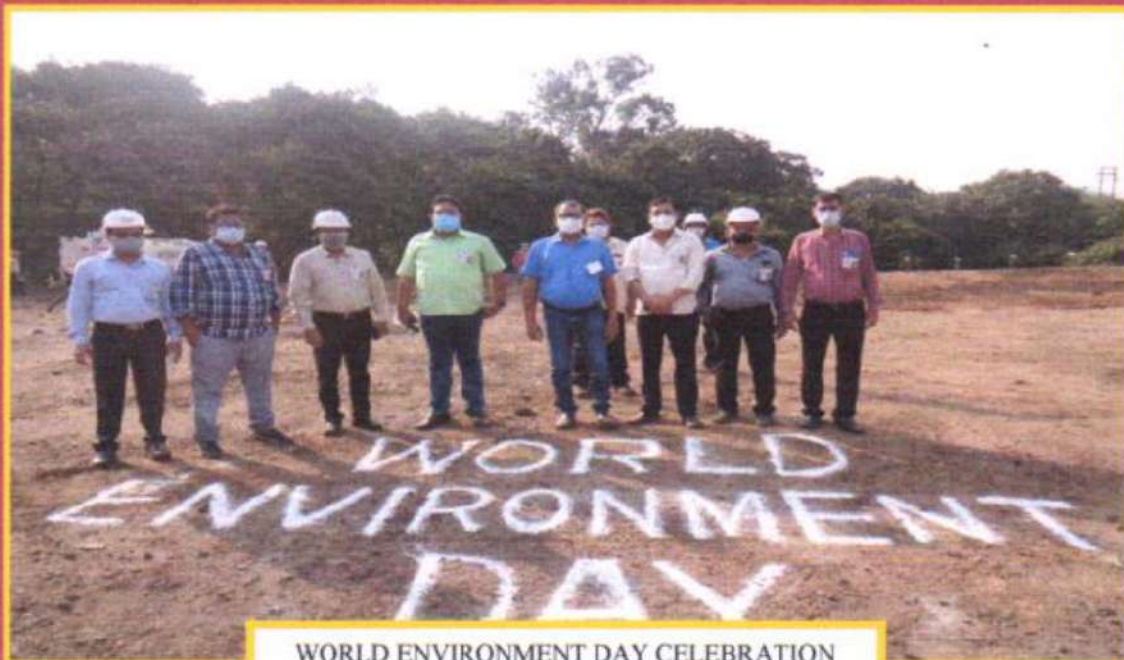
PLANTATION NEAR MAIN GATE



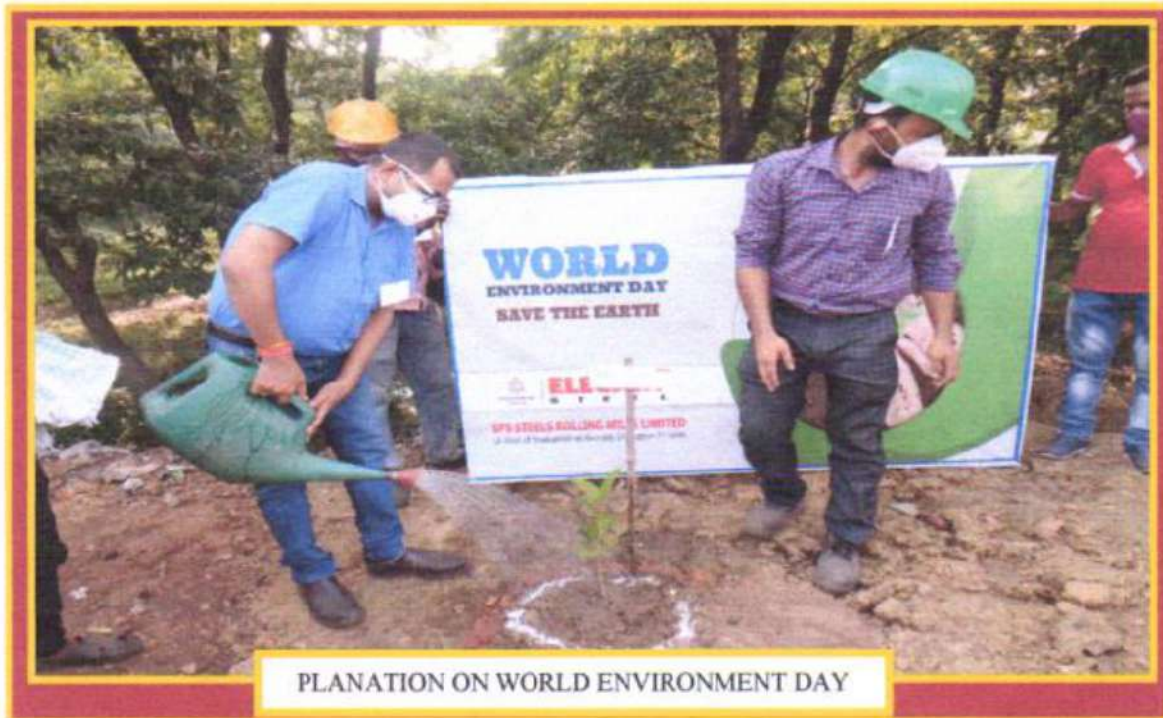
PLANTATION NEAR MAIN GATE & ALONG
BOUNDARY WALL



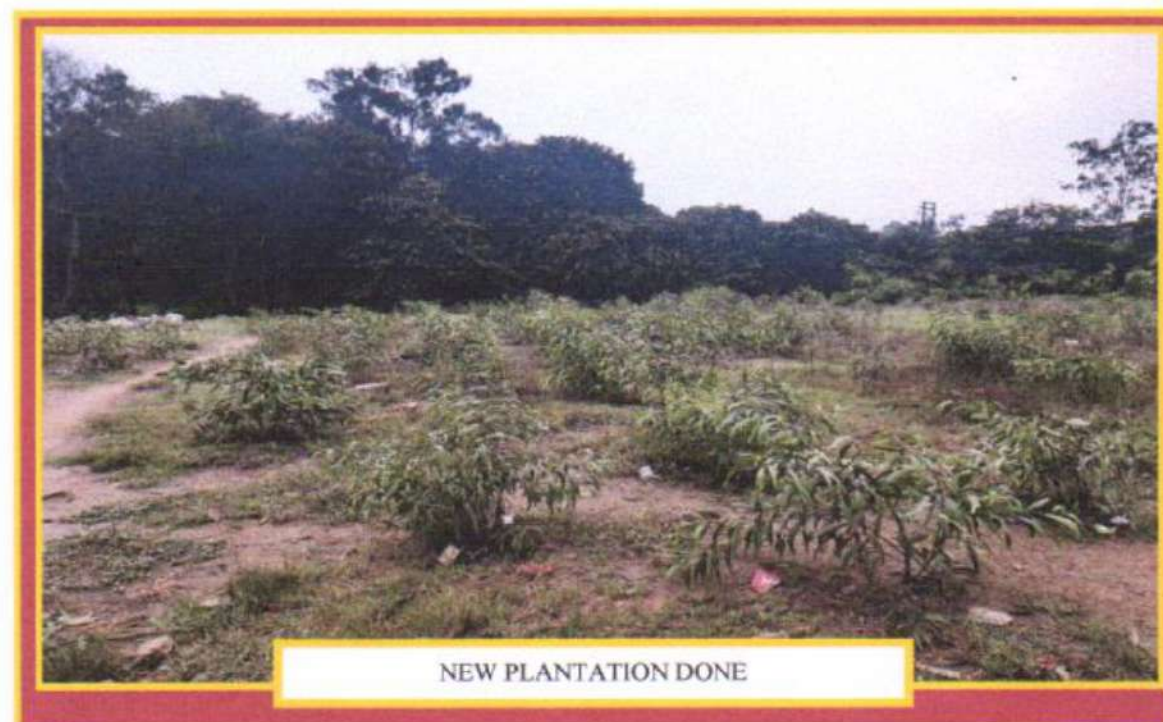
PLANTATION IN TRUCK PARKING AREA



WORLD ENVIRONMENT DAY CELEBRATION



PLANATION ON WORLD ENVIRONMENT DAY



NEW PLANTATION DONE

ANNEXURE-5

THE DURGAPUR PROJECTS LTD.

(A Govt. of West Bengal Undertaking)
Agreement for supply of Water for Industrial
and Domestic Water Consumers

Articles of Agreement made this 28th day of January two thousand seventeen between THE DURGAPUR PROJECTS LIMITED, a company registered under the Companies Act having the Registered Office in the Administrative Building at Durgapur, Durgapur-1 (hereinafter referred to as the 'Supplier' which expressions shall unless excluded by or repugnant to the context be deemed to include its successor and assigns) of the One part and S.P.S. Steels Rolling Mills Ltd. Dh 24th Hussain Ave. (hereinafter referred to as the "CONSUMER" which expressions shall, unless excluded by or repugnant to the context, be deemed to include his heirs, executors, administrator legal representatives and permitted assigns) of the Other Part. Agg-6

Witnesseth and it is hereby agreed by and between the parties as follows :

1. The Supplier shall supply and the Consumer shall accept at his premises mentioned in the schedule hereto, on and from the date on which the said premises shall be connected to Supplier's distribution mains, a supply of Industrial and / or domestic water for the purpose and upto the maximum quantity specified in the said schedule subject to the terms and conditions hereafter contained, but the Supplier shall not be responsible for any discontinuance or interruption of supply of water during the specified hours of supply due to war, civil commotion, riot, strike, lock out, earthquake, tempest, lightning, flood, cyclone, force majeure or any cause beyond the control of the Supplier or due to any restrictions imposed by the Government or under any law for the time being in force.

2. The Consumer shall pay on demand to the Supplier the cost as may be determined by the Supplier of any distribution pipe line, meter and accessories which may be necessary to lay pipes in connection which water supply to the Consumer together with cost of ferrule. Tee & labour charges etc. which may be necessary to provide the water connection from the Supplier's distribution mains.

The whole of distribution pipe line irrespective of the fact whether the cost thereof or any part thereof has been paid for by the Consumer shall remain the property of and be maintained by the Supplier. Necessary service line from supplier's distribution main to the Consumer's premises shall be laid and maintained by the consumer at his cost.

3. The consumer shall, on being required by the Supplier, deposit with the Supplier the sum of Rs. 2,70,000/- (Rupees Two lakh Seventy thousand only) only equivalent to the approximate charges for three month's water supply at the rates entered in this agreement for the maximum quantity of supply as declared by the Consumer as Security Deposit for the purpose hereinafter mentioned and shall on the requisition from time to time renew, replenish or increase such Security Deposit in the event of increase in the rates or in the Consumption, the amount of deposit being considered by the Supplier to be insufficient and in case of consumers default, the supplier may, after giving fifteen days' notice in writing to the Consumer, cut off and discontinue the supply until the required deposit is made up and the expenses incurred by the Supplier in cutting off and reconnecting the supply are paid by the Consumer.

4. In the event of the Consumer failing to have his installation connected with the Supplier's distribution mains within two months from the date of completion of the service line and supply made available as intimated to the Consumer in writing. The consumer shall pay to Supplier the charges for the guaranteed minimum supply as specified in the schedule hereto from the beginning of the third month. In case of default, the Supplier shall be entitled to forfeit the amount of the Security Deposit with the Supplier mentioned in clause thereof and to dismantle the line after giving seven days' notice in writing to the Consumer of its intention to do so.

5. The price for the supply of water shall be charged to the consumer in accordance with the Supplier's schedule of rates in force from time to time and as mentioned in the schedule hereunder written for supply lines above 2 inch. diameter in the consumers' premises, the water supply shall be registered by a meter or meters in or upon consumers' premises,

For SPS Steels Rolling Mills Ltd.

supplied, fixed maintained and kept in proper order by the consumer. The meters referred to above shall be properly sealed on behalf of both the parties hereto and shall not be interfered with by either party except in the presence of other party or its or his representative duly authorised in that behalf. All meters shall be and remain the property of and shall have to pay lump sum charges as per schedule of rates.

6. Except where the rates of water supply are on lump sum basis, the quantity of water consumed shall be ascertained monthly by taking the meter readings jointly by the respective representative of the parties and the readings entered in the log book of each party with the initials of both the parties hereto or its or his representative. However, the readings may be recorded by either party at shorter intervals solely for the purpose of keeping a check on the functioning of the meter under intimation to the other party. The readings of the said meter entered in the log book shall be prima facie evidence of the quantity of water drawn by the consumer through such meters.
7. The daily supply shall be intermittent namely 2 / 3 times a day with duration as decided by the supplier. Supply of water will be at ground level of the consumer's premises arrangement for supply of water from the ground level of the consumer's premises to any higher level or to any other place within the consumer's premises shall be done by the consumers at their own cost and responsibility by making pumping or any other arrangement as required by the consumer.
8. (i) The supplier shall furnish the Consumer with a Bill for the water supplied to him in each month as soon as possible after recording meter readings and as per Tariff charges included in the schedule hereto
 (ii) If the bills remain unpaid even after the expiry of ~~Forty Five~~ ^{30 days} days from the date of the Bill, the Consumer shall be liable to pay interest at the rate of eight percent per annum on the Gross amount of the Bill for the number of days from the date of the Bill till the date of actual payment of the Bill, provided, however that in case the Bill is not paid within the aforesaid ~~45~~ days the supplier shall have the right to cut off the supply at any time thereafter. The supplier shall discontinue the supply until the charges or other sums together with interest and expenses incurred by the Supplier in cutting off and reconnecting the supply are paid by the Consumer.
9. The rates of water charges mentioned in the schedule hereinto are the present rates. The supplier will have the right to modify or alter or revise at any time the rates as mentioned in the schedule due to variation in the cost of maintenance and operation charges of the Water Works System. Such modification shall be intimated by the Supplier to the Consumer in writing and the Consumer shall be liable to pay the Bills at the modified rate.
10. If either party is dissatisfied as to the correct registering of any meter on the Consumer premises, such party may, by written notice to the other require the said meter to be officially tested either by the Supplier or by the Manufacturer or by the Test, Hours of the Government of West Bengal / India at the Suppliers discretion.
 If on such test the said meter is found to be correct, then the expenses of the testing shall be born by the party who required the test and vice versa.
11. If at any time, the said meter shall cease to register correctly or shall at any time be removed for the purpose of repair or for any other reasons, then until the said meter shall be repaired or replaced so as to register correctly the quantity of water passing through them the supplier shall be entitled to charge and the consumer shall be liable to pay the charges on an daily average quantity of water which the consumer shall have paid or been liable to pay in respect of previous three months of the same season under the terms of this agreement. This arrangement should operate for a period of not more than three months by which time the consumer must replace the meter. Should the meter be not replaced / repaired within the above mentioned period, then the supplier shall have the right to discontinue supply of water till the meter is repaired or replaced. The supplier may at his discretion continue to supply water at penal rates that is to say at double the existing rates for such period as deemed necessary by the supplier.

The Control Valve Hose containing the meters shall remain under the custody of the consumer and the supplier through its representative duly authorised on that behalf shall at all times upon intimating the consumer be entitled to enter into the said Control House in respect of the meter.

12. (i) This agreement shall subject to the provision for earlier determination as herein before mentained be and remain in force for a period to five years initially from the date of first supply under this agreement and thereafter from year to year unless terminated by either party on expiry of fifth year or any subsequent year by giving one clear calender months notice to the other in writing of such intention.
- (ii) Upon the determination of this Agreement from any cause whatsoever, all moneys deposited by the Consumer with Supplier under the terms of Clause (3) hereof or so much thereof as shall not have already been applied in satisfaction of its claim under this Agreement, shall be forth with applied in satisfaction, protanto, of any claim then outstanding and the same or balance thereof as the case may not be refundable to the Consumer until all the accounts between the supplier and the consumer have been finally settled and all balance if any due to the Supplier by the Consumer have been fully paid and discharged.
13. The Consumer hereby agrees to confirm to abide by all the Rules and Regulations of Supplier now in force and any subsequent modification or alteration thereof as if the same has been incorporated in this Agreement.
14. All disputes and difference between the parties hereto (except as to matters on which the decision has been expressly provided in this Agreement) arising out of or in connection with this Agreement shall be referred to the sole arbitration of the General Supdt. (Construction). The Durgapur Projects Ltd. or any other Officer as may be nominated by the Supplier. The award of such arbitrator shall be final conclusive and binding on the parties hereto and the provision of the Arbitration Act. 1940 (Act X of 1940) and / or any modification thereof for the time being in force shall apply.
15. This agreement and / or the benefits and obligations thereof shall not be transferable.
16. The cost of stamps and Registration Fee, if any required for this deed under any law for the time being in force shall be paid by the Consumer.

SCHEDULE OF RATES REFERRED TO ABOVE

- 1) Description of the premises at which the supply is to be given (one drawing showing the point of supply and position of meter house should be enclosed with this agreement).
- 2) Purpose for which supply is to be given ^{S. P. S.} ~~Commercial~~ Industrial -
- 3) Maximum quantity of water to be supplied to the Consume : KL /
- a) Domestic Water
- b) Industrial process water
- 4) Address of the premises where supply will be given
- 5) Factory or Residential area of Factory-Cum-Residential area
- 6) Dia, of pipe line through which water supply is to be given
- 7) Whether metered supply or lump sum charges will be levied for the supply
- 8) Guaranteed minimum supply to be accepted by the Consumer
- a) Domestic Water KL/day
- b) Industrial Process water KL/day

For SPS Steels Rolling Mills Ltd.

Director.

9) Rates in terms of Clause (5) for metered supply :

a) For Domestic Water

Rs. per KL

✓ b) For Industrial Process water

Rs. 20/- per KL (current rate)

10) Lump sum charges per month in terms of clause (5) for connection upto 2" dia.

Residential
use

Factory / Hotel / Nonresi-
dential area / Factory
cum-residential/Resi-
dential cum/Commer-
cial/industrial use

a) 1/2" dia, ferrule

Rs.

Rs.

b) 3/4" dia, ferrule

c) 1" dia, ferrule x 3 nos (Metered - Through a common header)

d) 2" dia

i) with 2 nos. 1" ferrule

ii) with one 2" dia Tee

5% rebate will be allowed if the Bills are paid within 30 days from the date of submission thereof.

No rebate will however be allowed if the consumption in any period falls short of the guaranteed minimum IN WITNESS WHEREOF, There presents have been executed by or on behalf of the party hereunto the Day and Year first written.

The consumer unconditionally agrees to surrender this connection whenever the local authorities setup their own infrastructure for water supply and are ready to provide water to the consumer.

Signed, Sealed and Delivered for on behalf of the
Durgapur Projects Ltd. (Supplier)

A. Mukherjee
A. MUKHERJEE
Dy. General Manager
Civil / WW & TS

Witness :

[Signature]
Senior Manager
Water Works, D. P. Ltd.

Signed, Sealed and Delivered for and on behalf of the

M/s. For SPS Steels Rolling Mills Ltd.

[Signature]
Director.

Witness :
SPS Steels Rolling Mills Ltd

[Signature]
Authorized Signatory

9933068248

No. WW/14N-1/2K/Ed/18 of 2000-2001

THE DURGAPUR PROJECTS LTD.

(A Govt. of West Bengal Undertaking)

Agreement for supply of Water for Industrial
and Domestic Water Consumers

Original

Articles of Agreement made this 11th day of August one thousand Nine hundred and Ten thousand between THE DURGAPUR PROJECTS LIMITED, a Company registered under the Companies Act having the Registered Office in the Administrative Building at Durgapur Durgapur-I (hereinafter referred to as the 'Supplier' which expressions shall unless excluded by or repugnant to the context be deemed to include its successor and assigns) of the One part and M/S. Elegant Commerce Limited Dr. Zakir Hussain Avenue, Durgapur (hereinafter referred to as the 'CONSUMER' which expressions shall, unless excluded by or repugnant to the context, be deemed to include his heirs, executors, administrator legal representatives and permitted assigns) of the Other Part.

Witnesseth and it is hereby agreed by and between the parties as follows :—

1. The Supplier shall supply and the Consumer shall accept at his premises mentioned in the schedule hereto, on and from the date on which the said premises shall be connected to Supplier's distribution mains, a supply of Industrial and/or domestic water for the purpose and upto the maximum quantity specified in the said schedule subject to the terms and conditions hereafter contained, but the Supplier shall not be responsible for any discontinuance or interruption of supply of water during the specified hours of supply due to war, civil commotion, riot, strike, lock out, earthquake, tempest, lightning, flood, cyclone, force majeure or any cause beyond the control of the Supplier or due to any restrictions imposed by the Government or under any law for the time being in force.

2. The Consumer shall pay on demand to the Supplier the cost as may be determined by the Supplier of any distribution pipe line, meter and accessories which may be necessary to lay pipes in connection which water supply to the Consumer together with cost of ferrule, Tee & labour charges etc. which may be necessary to provide the water connection from the Supplier's distribution mains

The whole of distribution pipe line irrespective of the fact whether the cost thereof or any part thereof has been paid for by the Consumer shall remain the property of and be maintained by the Supplier. Necessary service line from supplier's distribution main to the Consumer's premises shall be laid and maintained by the consumer at his cost

3. The consumer shall, on being required by the Supplier, deposit with the Supplier the sum of Rs. 8850.00 (Rupees Eight thousand eight hundred only equivalent to the approximate charges for one month's water supply at the rates entered in this agreement for the maximum quantity of supply as declared by the Consumer as Security Deposit for the purpose hereinafter mentioned and shall on the requisition from time to time renew, replenish or increase such Security Deposit in the event of increase in the rates or in the Consumption, the amount of deposit being considered by the Supplier to be insufficient and in case of Consumer's default, the Supplier may, after giving fifteen days' notice in writing to the Consumer, cut off and discontinue the supply until the required deposit is made up and the expenses incurred by the Supplier in cutting off and reconnecting the supply are paid by the Consumer.

4. In the event of the Consumer failing to have his installation connected with the Supplier's distribution mains within two months from the date of completion of the service line and supply made available as intimated to the Consumer in writing. The consumer shall pay to Supplier the charges for the guaranteed minimum supply as specified in the schedule hereto from the beginning of the third month. In case of default, the Supplier shall be entitled to forfeit the amount of the Security Deposit with the Supplier mentioned in clause 3 thereof and to dismantle the line after giving seven days' notice in writing to the Consumer of its intention to do so.

5. The price for the supply of water shall be charged to the consumer in accordance with the Suppliers' schedule of rates in force from time to time and as mentioned in the schedule hereunder written

ELEGANT COMMERCE LIMITED

18/8/2000
Authorized Signatory

For supply lines above 2 inch diameter in the consumers' premises, the water supply shall be registered by a meter or meters in or upon consumers' premises, supplied, fixed maintained and kept in proper order by the consumer. The meters referred to above shall be properly sealed on behalf of both the parties hereto and shall not be interfered with by either party except in the presence of other party or its or his representative duly authorised in that behalf. All meters shall be and remain the property of and shall have to pay lump sum charges as per schedule of rates.

6. Except where the rates of water supply are on lump sum basis, the quantity of water consumed shall be ascertained monthly by taking the meter readings jointly by the respective representative of the parties and the readings entered in the log book of each party with the initials of both the parties hereto or its or his representative. However, the readings may be recorded by either party at shorter intervals solely for the purpose of keeping a check on the functioning of the meter under intimation to the other party. The readings of the said meter entered in the log book shall be prima facie evidence of the quantity of water drawn by the consumer through such meters.

7. The daily supply shall be intermittent namely 2/3 times a day with duration as decided by the supplier. Supply of water will be at ground level of the consumer's premises. Arrangement for supply of water from the ground level of the consumer's premises to any higher level or to any other place within the consumer's premises shall be done by the consumers at their own cost and responsibility by making pumping or any other arrangement as required by the consumer.

8. (i) The supplier shall furnish the Consumer with a Bill for the water supplied to him in each month as soon as possible after recording meter readings and as per Tariff charges included in the schedule hereto.

ii) If the bills remain unpaid even after the expiry of Forty Five days from the date of the date of the Bill, the Consumer shall be liable to pay interest at the rate of eight percent per annum on the Gross amount of the Bill for the number of days from the date of the Bill till the date of actual payment of the Bill, provided, however that in case the Bill is not paid within the aforesaid 45 days the supplier shall have the right to cut off the supply at any time thereafter. The supplier shall discontinue the supply until the charges or other sums together with interest and expenses incurred by the Supplier in cutting off and reconnecting the supply are paid by the Consumer.

9. The rates of water charges mentioned in the schedule hereinto are the present rates. The supplier will have the right to modify or alter or revise at any time the rates as mentioned in the schedule due to variation in the cost of maintenance and operation charges of the Water Works system. Such modification shall be intimated by the Supplier to the Consumer in writing and the Consumer shall be liable to pay the Bills at the modified rate.

10. If either party is dissatisfied as to the correct registering of any meter on the Consumer premises, such party may, by written notice to the other, require the said meter to be officially tested either by the Supplier or by the Manufacturer or by the Test House of the Government of West Bengal/India at the Suppliers discretion.

If, on such test, the said meter is found to be correct, then the expenses of the testing shall be born by the party who required the test and vice versa.

11. If at any time, the said meter shall cease to register correctly or shall at any time be removed for the purpose of repair or for any other reasons, then until the said meter shall be repaired or replaced so as to register correctly the quantity of water passing through them the supplier shall be entitled to charge and the consumer shall be liable to pay the charges on an daily average quantity of water which the consumer shall have paid or been liable to pay in respect of previous three months of the same season under the terms of this agreement. This arrangement should operate for a period of not more than three months by which time the consumer must replace the meter. Should the meter be not replaced/repaired within the above mentioned period, then the supplier shall have the right to discontinue supply of water till the meter is repaired or replaced. The supplier may at his discretion continue to supply water at penal rates that is to say at double the existing rates for such period as deemed necessary by the supplier.

ELEGANT COMMERCE LIMITED

Authorized Signatory

The Control Value House containing the meters shall remain under the custody of the consumer and the supplier through its representative duly authorised on that behalf shall at all times upon intimating the consumer be entitled to enter into the said Control House in respect of the meter.

12. (i) This agreement shall subject to the provision for earlier determination as herein before mentioned be and remain in force for a period to five years initially from the date of first supply under this agreement and thereafter from year to year unless terminated by either party on expiry of fifth year or any subsequent year by giving one clear calendar months notice to the other in writing of such intention.

(ii) Upon the determination of this Agreement from any cause whatsoever, all moneys deposited by the Consumer with the Supplier under the terms of Clause (8) hereof or so much thereof as shall not have already been applied in satisfaction of its claim under this Agreement, shall be forth with applied in satisfaction, pro tanto, of any claim then outstanding and the same or balance thereof as the case may be shall not be refundable to the Consumer until all the accounts between the supplier and the consumer have been finally settled and all balance if any due to the Supplier by the Consumer have been fully paid and discharged.

13. The Consumer hereby agrees to confirm to abide by all the Rules and Regulations of Supplier now in force and any subsequent modification or alteration thereof, as if the same has been incorporated in this Agreement

14. All disputes and difference between the parties hereto (except as to matters on which the decision has been expressly provided in this Agreement) arising out of or in connection with this Agreement shall be referred to the sole arbitration of the General Supdt. (Construction). The Durgapur Project Ltd. or any other Officer as may be nominated by the Supplier. The award of such arbitrator shall be final conclusive and binding on the parties hereto and the provision of the Arbitration Act, 1940 (Act X of 1940) and/or any modification thereof for the time being in force shall apply.

15. This agreement and/or the benefits and obligations thereof shall not be transferable.

16. The cost of stamps and Registration Fee, if any, required for this deed under any law for the time being in force shall be paid by the Consumer.

SCHEDULE OF RATES REFERRED TO ABOVE

1) Description of the premises at which the supply is to be given (one drawing showing the point of supply and position of meter house should be enclosed with this agreement)

2) Purpose for which supply is to be given..... *Industrial*

3) Maximum quantity of water to be supplied to the Consumer :- *KL/*
As per 3" dia water meter.

a) Domestic Water ☐ ...

☒ b) Industrial Process Water ...

ELEGANT COMMERCE LIMITED

Authorized Signatory

- 4) Address of the premises where supply will be given ...
- 5) Factory or Residential area of Factory-Cum-Residential : rea ...
- 6) Dia. of pipe line through which water supply is to be given ...
- 7) Whether metered supply or lump sum charges will be levied for the supply ...
- 8) Guaranteed minimum supply to be accepted by the Consumer ...
- a) Domestic Water ... KL/day
- b) Industrial Process water ... KL/day
- 9) Rates in terms of Clause (5) for metered supply :
- a) For Domestic water Rs. per KL
- b) For Industrial Process water Rs. per KL
- 10) Lump sum charges per month in terms of clause (5) for connection upto 2" dia.
- | | Residential use | Factory/Hotel/Nonresidential area/Factory-cum-residential/Residential cum/Commercial/Industrial use |
|---------------------------|-----------------|---|
| a) 1/2" dia. ferrule | Rs. | Rs. |
| b) 3/4" dia. ferrule | | |
| c) 1" dia. ferrule | | |
| d) 2" dia. | | |
| i) with 2 nos. 1" ferrule | | |
| ii) with one 2" dia Tee | | |
- Rs per 3" dia water meter.*

5% rebate will be allowed if the Bills are paid within 30 days from the date of submission thereof.

No rebate will however be allowed if the consumption in any period falls short of the guaranteed minimum IN WITNESS WHEREOF, There presents have been executed by or on behalf of the party hereto the Day and Year first written.

[Signature]
 Signed, Sealed and Delivered in presence of the
WATER WORKS LTD.
 Durgapur Projects Ltd, (Supplier) LTD.

Witness

[Signature]
Executive Engineer (Civil)
Water Works

The Durgapur Project's Limited

Signed, Sealed and Delivered for and on behalf of the

ELBANT COMMERCE LIMITED

M/s.

[Signature]
Authorised Signatory

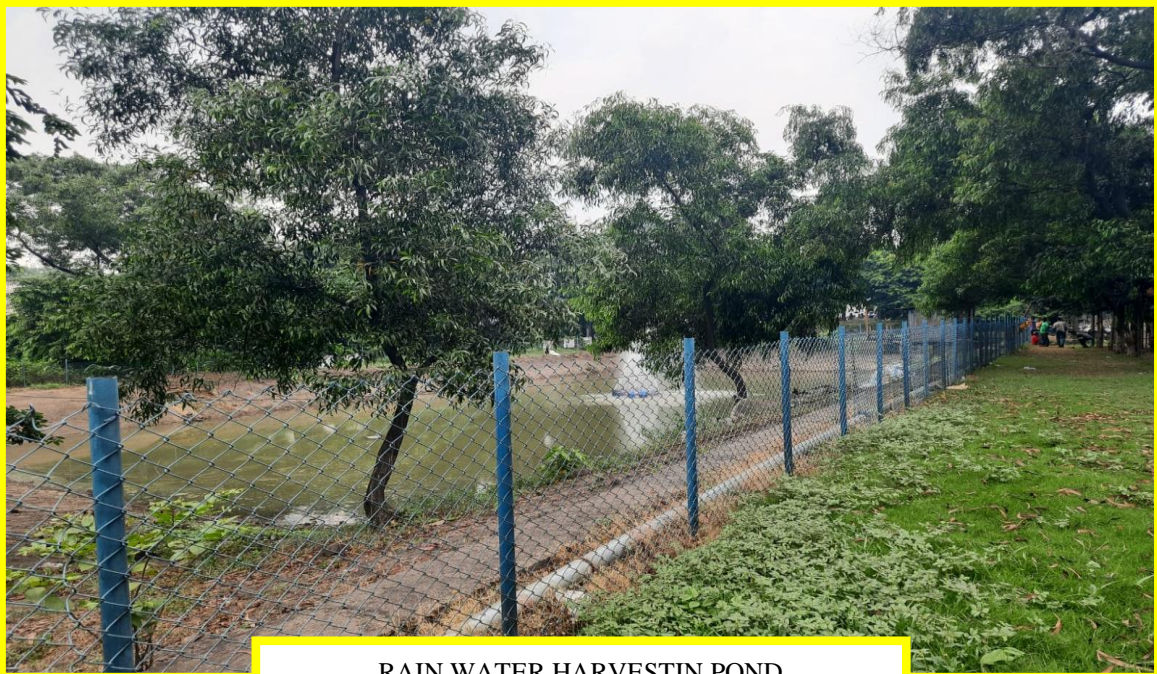
Witness



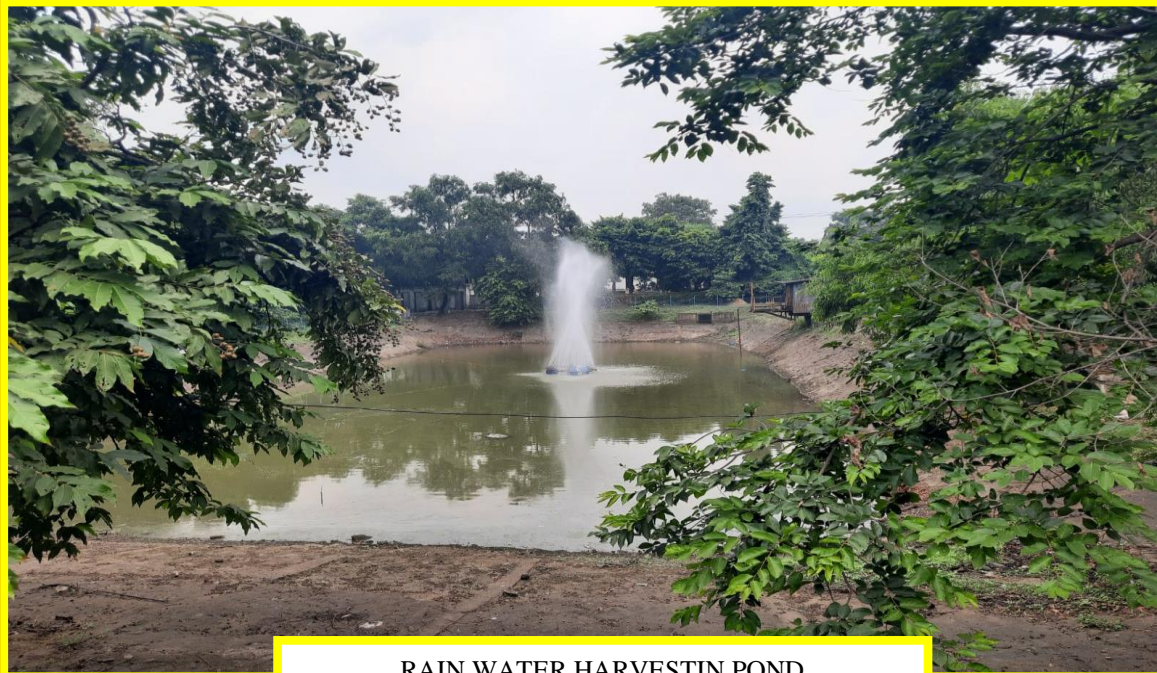
ANNEXURE-6

RAIN WATER HARVESTING POND

(SPS STEELS ROLLING MILLS LIMITED)



RAIN WATER HARVESTIN POND



RAIN WATER HARVESTIN POND

ANNEXURE-7

J S Pigments Pvt. Ltd.

A Step of clean & green environment

Regd. Office: P-199/B, C.I.T. Road, Scheme VI (M), Kolkata - 700054, West Bengal




Recycling Unit: Vill & PO. Jarura, P.S. Polba, Delhi Road, Hooghly-712138, West Bengal

Form - 6

[See rule 19]

E-WASTE MANIFEST

Copy -4 (Green) : By Receiver to Sender

1	Sender's name and mailing address (including phone No.)	: SPS Steels Rolling Mills Ltd : Zakir Hussain Avenue, : Durgapur-713206.
2	Sender's authorisation No, if applicable.	:
3	Manifest Document No.	: 1989
4	Transporter's Name & Address (including phone No.)	: Self :
5	Type of Vehicle	: <input checked="" type="checkbox"/> Truck/ Tanker/ Special Vehicle)
6	Transporter's Registration No.	: N/A
7	Vehicle Registration No.	: WB23F 6134
8	Receiver's Name & Address (including phone No.)	: J S Pigments Pvt Ltd. : Vill & PO. Jarura, P.S. Polba, Delhi Road, Hooghly-712138, WB : + 91 33 2320 2656 I
9	Receiver's authorization No, if applicable.	: WBPCB: 02/2S(HW/EW)3011/2014
10	Description of E-waste (Item, Weight/Numbers)	: 4190 kg
11	Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler):	 Date: 5/11/2022 Stamp & Signature
12	Transporter Acknowledgement of receipt of E-Wastes.	 Date: 5/11/2022 Stamp & Signature
13	Receiver* (Collection Centre or Refurbisher or Dismantler or Recycler) certification of receipt of E-waste.	 Date: 5/11/2022 Stamp & Signature

ANNEXURE-8

**ADDITIONAL PLANTATION IN THE EAST DIRECTION OF THE PROJECT SITE
BY
SPS STEELS ROLLING MILLS LIMITED**



ANNEXURE-9



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board



TC-11003

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0348	Laboratory Ref. No.	: AS-216-2022(9)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 13.12.2022
Sample Description	: Fugitive Air	Date of Receiving	: 13.12.2022
Location	: DRI Kiln Area (Sponge Division)	Analysis Started On	: 14.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 14.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 09:45 am to 05:45 pm
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 23.0
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1564.72
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	10.06
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	40.24

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.



GREEN VISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board



TC-11003

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0349	Laboratory Ref. No.	: AS-216-2022(10)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 13.12.2022
Sample Description	: Fugitive Air	Date of Receiving	: 13.12.2022
Location	: Near Product House (Sponge Division)	Analysis Started On	: 14.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 14.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 10:05 am to 06:05 pm
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 23.0
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1704.25
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	9.55
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	39.82

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Checked by

(Chemist)

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.



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TC-11003

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0350	Laboratory Ref. No.	: AS-216-2022(11)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 13.12.2022
Sample Description	: Fugitive Air	Date of Receiving	: 13.12.2022
Location	: Rolling Mill Despatch Area	Analysis Started On	: 14.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 14.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 10:25 am to 06:25 pm
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 23.0
Barometric Pressure (mm of Hg) : 756.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1372.36
02.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	9.78
03.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	39.64

Limit : ($\mu\text{g}/\text{m}^3$) TSPM – 2000, SO_2 – 80, NO_2 – 80

Ref. : The Environment (Protection) Rules, 1986, Fourth Amendment, 2008 notified by G.S.R.414(E), dated 30.5.2008.

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

ANNEXURE-10



GREEN VISION

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

Report No. : GV/WW/22-23/153

Laboratory Ref. No. : WS-189-2022

Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)

Report Date : 23.12.2022

Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman

Date of Sampling : 12.12.2022

Sample Description : Waste Water

Date of Receiving : 12.12.2022

Location : Recycling Water Tank Outlet

Analysis Started on : 13.12.2022

Sample Condition : In Glass Bottle & Plastic Bottle

Analysis Completed on : 17.12.2022

Type of Sample : Industrial Waste Water

Time of Sampling : 04:20 pm

Sampling & Preservation Method : APHA 23rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	LIMITS	RESULTS
pH	APHA 23rd EDITION, 4500-H+B	---	6.5 – 8.5	7.37
Total Suspended Solid(TSS)	APHA 23rd EDITION, 2540 D	mg/l	< 100.0	24.0
Chemical Oxygen Demand (COD)	APHA 23rd EDITION, 5220 B	mg/l	< 250.0	54.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	< 30.0	8.2
Oil & Grease	APHA 23rd EDITION, 5520 A	mg/l	< 10.0	5.82

Checked by

(Signature)
(Chemist)

(Signature)
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified.

ANNEXURE-11A

NOC NO172005

SPEED POST

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block - LA, Sector III, Bidhannagar
Kolkata - 700 106



Memo No. 488-2N-63/2021(E)

Dated 16.09.2022

From :
Member Secretary,
West Bengal Pollution Control Board

To: The Director,
M/s. SPS Steels Rolling Mills Limited,
Diamond Prestige, 41A, A.J.C. Bose Road, 7th Floor, #701,
Kolkata - 700 017, West Bengal.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: i) Your letter No. Nil Dated 09.09.2022
ii) Environmental Clearance issued vide EC Identification No. EC22A
008WB110390, F.No. J-11011/156/2020-IA, II(I) dtd. 01.09.2022

WEST BENGAL

Dear Sirs,

expansion

In response to the application for Consent to Establish (NOC) for proposed ~~expansion~~ of M/s. SPS Steels Rolling Mills Limited within their existing steel plant (66,000TPA sponge iron plant and 4,56,000TPA rolling mill) - steel melting shop (1,08,000 TPA) along with installation of captive power plant of 10MW (5 MW WHRB & 5 MW AFBC) at Dr. Zakir Hussain Avenue, G.T. Road (Indo America at More), Durgapur, Tehsil - Faridpur Durgapur, Dist. - Paschim Bardhaman, West Bengal. *

this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

* Detailed proposal of the expansion and modification is given in Annexure - 1 and 2.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No. emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

16/09/2022
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

7. You shall comply with

- (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
- (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
- (iii) Environment (Protection) Act, 1986
- (iv) Environment (Protection) Rules, 1986
- (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
- (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
- (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
- (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
- (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
- (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
- (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
- (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable

8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

The total capital cost of the project excluding the total capital cost for environmental pollution control measures is Rs.128.0Crore (Rupees One Hundred and Twenty Eight crores.)

please refer to Annexure - 3.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

[Signature]
Member Secretary / Chief Engineer
West Bengal Pollution Control Board (EIM CEL)

Dated 16/09/2022
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Memo No. 488 -2N-63/2021(E) dtd. 16.09.2022

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, VII/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan
Delhi Road, Dankuni
Dist. Hooghly

Vill, Panpur
Kalyani Expressway
P.O. Narayanpur
Dist. 24 Pgs. (N)

Sahid Khudiram Sarani
City Centre, Durgapur-16
Dist. Burdwan

10, Camac Street
2nd Floor
Kolkata-700 017

Paribesh Bhawan
10A, LA-Block, Sector-III
Salt Lake City,
Kolkata - 700 098

Block-05 at 40
Flats Complex
Adjacent to Priyambada
Housing Estate
P.O. : Khanjanchak,
P.S. Durgachak
Haldia-721602
Dist. : Purba Medinipur

Paribahan Nagar
Matigara, Siliguri
Dist.-Darjeeling

Satya Chowdhury
Indoor Stadium
Balurchar Bandh Road
Malda-732101

Asansol Sub-Regional Office
ADDA Commercial Market (2nd Floor)
Opposite Asansol Fire Station
G.T. Road, Asansol-713 301

[Signature]
Member Secretary / Chief Engineer
West Bengal Pollution Control Board (EIM CEL)

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure – 1 to the NOC No. **NO172005**

Name of the Units	Existing Production Capacity as per Consent to Operate (CTO)			Additional Capacity & Production for which CTE applied as EC dtd 01-09-2022		Total Production after expansion	Remarks
	Installed Capacity	Production (in ton)		Capacity	Production (TPA)		
		Annually	Monthly				
Sponge Iron Plant (DRI)	2X40 + 1X100 TPD	66,000	5500	2x100 TPD*	0	66,000 TPA	No change in production capacity
*The company will phase out existing 2x40 TPD DRI Kilns and will install 1x100 TPD DRI Kiln. The total capacity of Sponge Iron Plant will remain unchanged.							
SMS (M.S. Billets)	2X15 Ton IF with caster*	1,08,000	9000	5X20 Ton IF with 02 casters and 01 LRF	2,42,000 TPA	3,50,000 TPA	Expansion to meet Rolling Mill requirement through hot charging bypassing existing reheating furnace.
* Existing 2x15 Ton IF with Caster will be dismantled after proposed expansion							
Rolling Mill (long products)	I	300 TPD	4,56,000	38000	No change	4,56,000 TPA	No change
	II	1000 TPD					
Reheating Furnace#	I	18 TPH	-	-	To be dismantled after expansion	-	To be dismantled
	II	18 TPH	-	-	To be dismantled after expansion	-	To be dismantled
	III	18 TPH	-	-	No Change	1 x 18 TPH	No change
#Note: Both Rolling Mills will be hot charged after expansion. Two Reheating Furnaces shall be dismantled and only one Reheating Furnace will be kept as backup to feed cold billets.							
Captive Power Plant (Power)	NIL			10 MW (5 MW WHRB + 5 MW AFBC)	10 MW (5 MW WHRB + 5 MW AFBC)	New Installation for backward integration	

16/09/2022

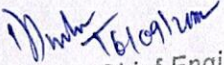
Chief Engineer (EIM Cell)
West Bengal Pollution Control Board
 Chief Engineer

W. B. Pollution Control Board
 Dept. of Environment, Govt. of W.B.

Annexure 2 to NOC No. NO172005

AIR POLLUTION CONTROL DEVICE DETAILS WITH STACK

Sl. No.	Name of the Unit	Configuration	Capacity	Product	APC Details	Stack from G.L.
A	DRI DIVISION					
1.	DRI	1 x 100 TPD (existing)	66,000 TPA	Sponge Iron	ESP (1 x 10 TPH WHRB will be installed)	1 no. 30m (the stack height shall be raised as per the CPCB norms before operation)
		1 x 100 TPD (2 x 40 TPD existing will be phased out)			ESP (1 x 10 TPH WHRB shall be commonly installed with existing 2 x 40 TPD DRI Kiln till its phasing out and installation of 1 x 100 TPD DRI Kiln)	1 no. 30m (the stack height shall be raised as per the CPCB norms before operation)
2.	Cooler Discharge	1 no. (with 1 x 100 TPD)	-	-	Will be Connected with ABC of each Kiln	--
		1 no. (with 1 x 100 TPD after phasing out 2 x 40 TPD)	-	-		
3.	Product House	1 no.	-	-	Bag Filter	1 no. 30m
4.	Iron Ore Circuit	1 no.	-	-	Bag Filter	1 no. 30m
5.	Coal Circuit	1 no.	-	-	Bag Filter	1 no. 30m
6.	Intermediate Bin	1 no.	-	-	Bag Filter	1 no. 30m


 Chief Engineer
 W. B. Pollution Control Board
 Dept. of Environment, Govt. of W.B.

B	POWER PLANT DIVISION					
1.	Captive Power Plant	5 MW WHRB + 5 MW AFBC	10MW	Electricity	ESP attached with AFBC Boiler 1x20TPH [ESP attached with individual 2x10 TPH WHRB (1 x 10 TPH with existing 1 x 100 TPD DRI Kiln and 1 x 10 TPH with existing 2 x 40 TPD DRI Kiln till its phasing out and installation of 1 x 100 TPD DRI Kiln)]	1 no. 50m for AFBC
C	SMS DIVISION					
1.	Induction Furnace	5x20 Ton and 01 LRF with 02 Caster	3,50,000 TPA	MS Billets	Bag Filter attached with 2x20Ton Induction Furnace and 1x20 Ton LRF with common stack	1 no. 30m
2.					Bag Filter attached with 3x20Ton Induction with common stack	1 no. 30m

Chief Engineer (EIM Cell)
West Bengal Pollution Control Board

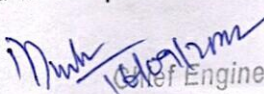
Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure 3 to NOC Sl. No. – NO172005

Special Conditions issued for the proposed expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB + 5 MW AFBC) within the existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill) at Dr. Zakir Hussain Avenue, G.T. Road, (Indo American More), Durgapur, Tehsil Faridpur, Durgapur, Dist – Paschim Bardhaman, West Bengal by M/s. SPS Steels Rolling Mills Limited. (Expansion project)

Specific Conditions :-

- 1) 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.
- 2) Performance test shall be conducted on all pollution control systems every year.
- 3) Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog/ Mist Sprinklers at all conveyors point and on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. ^{sg.} Wheel Washing mechanism shall be provided in entry and exit gates.
- 4) Project proponent shall ensure to close 2 RH furnaces and go for 100 % hot charging. For emergency one RH would be retained to run on LDO or CBM as available in Durgapur. Coal shall not be used as fuel in the reheating furnace.
- 5) **All conditions of CEPI including 40% green belt development and 1.5 times CER shall be complied with as per the mitigation measures submitted as mentioned in the EC.**
- 6) Particulate matter emission from stacks shall be less than 30 mg/Nm³.
- 7) The total water requirement of 1385 KLD shall be met from Durgapur Projects Ltd. (DPL).
- 8) No ground water abstraction is permitted.
- 9) The company shall also undertake rain water harvesting measures as per the plan submitted and reduce water dependence from the outside source.
- 10) Left Bank Main Canal, Damodar River, Barjora Nadi, Kunur Nadi, Panagarh Branch Canal, Damodar Branch Canal exists within the study area of 10 km from the project site. The water bodies shall not be disturbed. 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.
- 11) Air cooled condensers shall be used in the Power plant.
- 12) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- 13) Three tier Green Belt shall be developed in a time frame of one year with native species all along the periphery of 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. Plantation in gaps in the green belt shall be done by the PP during the present monsoon period and maintenance of @2500 plants/ha shall be done in the following years. Additional plantation shall be made in the East Direction from plant site to minimise the effect on Durgapur Protected Forest. Greenbelt/Plantation outside the project premises such as avenue plantation in vacant areas and social forestry shall also be done through socio economic developmental activities.
- 14) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.


W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure 3 to NOC Sl. No. – NO172005

Special Conditions issued for the proposed expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB + 5 MW AFBC) within the existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill) at Dr. Zakir Hussain Avenue, G.T. Road, (Indo American More), Durgapur, Tehsil Faridpur, Durgapur, Dist – Paschim Bardhaman, West Bengal by M/s. SPS Steels Rolling Mills Limited. (Expansion project)

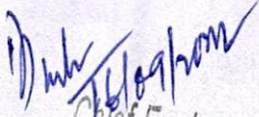
areas, ball mills, furnace charging areas through personal/area monitoring; and to be compared and it should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

- 16) The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Domestic waste water will be treated in STP and treated water shall be re-used for greenbelt development and plantation and dust suppression.
- 17) CEMS shall be provided on all process stacks and the signal shall be received in plant control room for central control of APCDs installed in the plant.
- 18) All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.
- 19) Internal roads of plant premises shall be concreted and maintained in good condition.
- 20) Industrial vacuum cleaners shall be used regularly to clean roads to reduce fugitive emissions.
- 21) All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- 22) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented.
- 23) 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 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.
- 24) 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.

Emission :-

- 1) Stacks should have sampling port, platform and ladder as per the Emission Regulation Part-III of CPCB. Particulate emission from all stacks shall be less than 30mg/Nm³.
- 2) The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 should be complied with.
- 3) Dry fog system and water sprinklers to be installed to arrest fugitive emission.

Effluent :-


Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Annexure 3 to NOC Sl. No. – NO172005

Special Conditions issued for the proposed expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB + 5 MW AFBC) within the existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill) at Dr. Zakir Hussain Avenue, G.T. Road, (Indo American More), Durgapur, Tehsil Faridpur, Durgapur, Dist – Paschim Bardhaman, West Bengal by M/s. SPS Steels Rolling Mills Limited. (Expansion project)

Effluent :-

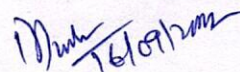
- 1) Process – 'Zero discharge' to be implemented. To be treated in ETP. Treated effluent to be recycled.
- 2) Cooling water to be recycled after settling.
- 3) Domestic – to be treated in STP and reused totally.

Solid Waste :-

- 1) Slag – Induction Furnace slag to be used for road making and land filling.
- 2) Bag Filter dust – to be reused in different processes.
- 3) Char to be used for generating power in AFBC/CFBC boiler.
- 4) Fly ash to be given to cement manufacturing/brick making units.
- 5) Hazardous Waste to be collected and disposed off as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.

General :-

- 1) Noise Control – Ambient noise level not to exceed the permissible limit.
- 2) No additional machineries / equipment can be installed without prior permission from the State Board.
- 3) No change in raw materials, products and production capacity should be made without prior permission from the State Board.
- 4) Plant layout should be as per EIA Report/DPR submitted during EC process.
- 5) Proper lighting and proper pathway inside the factory premises should be constructed.
- 6) Adequate measures to be adopted for control of fugitive emission.
- 7) The unit should not start operation without obtaining 'Consent to Operate' from the State Board after complete installation of pollution control devices.
- 8) No construction is permitted on the land parcels, not under the possession of the industry.
- 9) Rain water harvesting must be done, however recharging of harvested rain water is not allowed under any circumstances.
- 10) All Terms and Conditions laid down in the Environmental Clearances obtained for the project from MoEF &CC, GoI vide EC Identification No. EC22A008WB110390 File no. J-11011/156/2020-IA-II(I) dated 01.09.2022 must be strictly followed.
- 11) Good house-keeping to be maintained.
- 12) This NOC is valid up to **30.09.2029** for setting up the project.



**Chief Engineer (EIM Cell)
West Bengal Pollution Control Board**

Chief Engineer
W. B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

ANNEXURE-11B

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'

Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098



Consent Letter Number : C-123308

Memo Number : 988 - dr. Co-S/11/1879.

Date : 28.05.19

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

SPS Steels Rolling Mills Ltd.

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Dr. Zakir Hussain Avenue,
P.O.- ABL Sub-post office, P.S.- NTPS,
Durgapur, Paschim Bardhaman- 713206

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/09/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engineer)
Assistant Environmental Engineer
West Bengal Pollution Control Board
Durgapur Regional Office

ANNEXURE

Consent to SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, P.O. - ABL Sub Post Office
P.S. - NTPS, Durgapur, Paschim Bardhaman - 713206

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sponge Iron	5500 MT
02	Steel Ingot/Billet	9000 MT
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.

03. Daily discharge of industrial liquid effluent shall not exceed 1.20 KL.

04. Daily discharge of domestic liquid effluent shall not exceed 0.250 KL.

05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed 1 KL.

06. The Applicant shall discharge liquid effluent to outside drain after treatment (place of discharge)
 through 02 (two) nos. outlets / outfalls.

07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.

08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)
Chakraborty
24/05/19
 Assistant Environmental Engineer
 West Bengal Pollution Control Board
 Durgapur Regional Office

(4)

Consent to SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue P.O.-ABL Sub Post office
P.S.- NTPS, Durgapur, Paschim Bardhaman - 713206

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table-II

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-1	30.00	1 X 150 TPD DRI Kiln	—	—	150 at 12% CO ₂ correction	0.1	—	—	Quarterly
S-2	30.00	2 X 40 TPD DRI Kiln	—	—	150 at 12% CO ₂ correction	0.1	—	—	Quarterly
S-3	30.00	2 X 15 ton/charge Induction furnaces	—	—	50	—	—	—	-DO-
S-4	30.00	Cooler Discharge	—	—	50	—	—	—	-DO-
S-5	30.00	Product House	—	—	50	—	—	—	-DO-
S-6	30.00	Raw Material Handling Plant	—	—	50	—	—	—	-DO-
S-7	21.00	1 X 380 kVA D.G. set	—	—	150	1%	—	—	Yearly
S-8	21.00	1 X 415 kVA D.G. set	—	—	150	1%	—	—	Yearly
S-9									
S-10									

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr.)

Chakraborty
 24/05/19
 Assistant Environmental
 West Bengal Pollution Control
 Durgapur Regional
 Continued.....

(5)

Consent to SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, P.O.- ABL Sub Post office,
P.S.- NTPS, Durgapur, Paschim Bardhaman- 713206

14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	230 Ton	DRI Kilns
02	HSD	—	D.G. sets
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
Doff-char	2160 MT/month		Sold to CPPs.
ESP dust	180 MT/month		

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage / plantation.
20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Pharadip
 21/05/19
 Assistant Environmental Engineer
 West Bengal Pollution Control Board
 Durgapur Regional Office

Consent to SPS Steels Rolling Mills Ltd.
for its unit at Dr. Zakir Hussain Avenue, P.O.-ABL sub post office,
P. S- NTPS, Durgapur, Paschim Bardhaman-713206

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions *only quarterly basis.*

Additional Conditions on this Consent
 **, This Consent may be revoked
 subject to any valid public
 complaint for violation of
 Environmental norms. (Member)

Assistant Environmental Engineer
West Bengal Pollution Control Board
Durgapur Regional Office

Application No. 2975991
WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'
Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098
"Expansion"



Consent Letter Number : C0141045

Memo Number : 129-7/WPBD-Cont(1157)/02(PT-I)

Date : 03/03/2023

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

M/s. SPS Steele Rolling Mills Ltd.

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Dr. Zakir Hussain Avenue, G.T. Road
(Indo American More), P.O.-ABL Sub Post Office, P.S.-NTPS,
Dist.-Paschim Bardhaman, Pin-713206

(Detailed address of the manufacturing unit)

for a period from date of issue to 30/09/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Resdha 03/03/2023
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

ANNEXURE

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, G.T. Road (Indo. American More),
P.O.- ABL Sub Post Office, P.S.- NTPS, Dist.- Paschim Bardhaman,
Pin- 713206,

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	MS Billet	198000 Ton/Year.
02	(using 3x20 Ton/heat Induction	
03	Furnace with two(2) Caster)	
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. **Daily** discharge of industrial liquid effluent shall not exceed KL.
04. **Daily** discharge of domestic liquid effluent shall not exceed KL.
05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceed KL.
06. The *Applicant* shall discharge liquid effluent to (place of discharge)
 through nos. outlets / outfalls. Zero discharge to be maintained.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the *Applicant* shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Resha
 03/03/2023
 Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell
 Continued.....

00141045

(3)

Consent to M/s. SPS Steels Rolling Mills Ltd.

for its unit at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More),

P.O. - ABL Sub Post Office, P.S. - NTPS, Dist. - Paschim Bardhaman,
Pin - 713206,

Table-I

[illegible]

09. The Applicant falls in theCategory of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. **Daily** water consumption for the following purposes should not exceed :-

- | | | | |
|--|---|------|----|
| ● Industrial cooling, spraying in mine pits and boiler feed water
(Water used for gardening should be included in this category of use) | → | 50.5 | KL |
| ● Domestic purpose | → | 19.5 | KL |
| ● Processing whereby water gets polluted and the pollutants are easily biodegradable | → | — | KL |
| ● Processing whereby water gets polluted and the pollutants are not easily biodegradable | → | — | KL |

The *Applicant* shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(~~Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.~~)

Continued.....

Consent to M/s. SPS Steele Rolling Mills Ltd.

for its unit at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More),

P.O. - ABL Sub Post Office, P.S. - NTPS, Dist - Paschim Bardhaman,
Pin - 713206

11. The *Applicant* shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the *State Board*.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The *Applicant* shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the *Standard* as given in Table-II below :

Table-II

Stack No.	Stack height from G.L., (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-I	30	3X20 Ton/heat Induction Furnace			30	—			Quarterly
S-2		(dismantling existing 2X15 Ton/heat I.F.)							
S-3									
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

Relin 03/03/2023

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

C0141045

(5)

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More),
P.O.-ABL Sub Post Office, P.S.-NTPS, Dist.-Paschim Bardhaman,
Pin-713206

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.

15. The Applicant shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01			
02			
03			
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
Slag	2365 Ton / Month	—	Road construction and land filling.
Bag Filter Dust	210 Ton / Month	—	Shall be used in T.F. / land filling.

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 10 p.m.)	65
Night Time (10 p.m. to 06 a.m.)	55

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.

20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

Resin 03/03/2023

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More)
P.O. - ABL Sub Post Office, P.S. - NTPS, Dist - Paschim Bardhaman,
Pin - 713206.

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions See Annexure.

Annexure to Consent Letter Number – CO141045

Additional Conditions issued to **M/s. SPS Steels Rolling Mills Ltd.** located at Dr. Zakir Hussain Avenue, G.T.Road(Indo American More), P.O.-ABL Sub Post Office Durgapur, P.S. NTPS, Dist. Paschim Bardhaman, Pin-713206

1. The unit shall abide by all the conditions as mentioned in Environmental Clearance (EC) issued vide no. F.No.IA-J-11011/156/2020-IA.II(I) dated 01.09.2022 and NOC issued vide memo no. 488-2N-63/2021(E) dt. 16.09.2022.
2. The occupier shall comply with the National Air Quality Emission Standards issued by the Ministry vide G.S.R. no. 826(E), dated 16/11/2009.
3. Green belt to be developed as per the EC/NOC condition and compliance report to be submitted to the Board.
4. The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
5. This consent may be revoked at any time on violation of environmental norms.
6. The unit shall submit a status of compliance of the conditions stipulated in EC.

Rishu 03/03/2023
Environmental Engineer
West Bengal Pollution Control Board
Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'

Bldg. No. - 10A, Block - LA, Sector-III

Salt Lake City, Kolkata-700 098



Consent Letter Number : CO132049

Memo Number : 584-7/WPBD-cent(398)/2K.

Date : 10/03/2023

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

M/s. SPS Steels Rolling Mills Ltd.

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Sr. Zakir Hussain Avenue, G.T. Road,
(Indo American More), P.O. ABL, P.S. New Township, Dist. Paschim
Bardhaman, PIN-713 206.

(Detailed address of the manufacturing unit)

for a period from the date of issue to 30/09/2023

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

- The unit is directed to comply with all the terms and conditions as stipulated in the Consent to Establish issued by the Board vide memo no. 488-2N-63/2021(E) dt. 16.09.2022.
- This Consent may be revoked if there be any valid public complaint against the unit from environmental point of view.

For and on behalf of the State Board



(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Engr.)

Key
Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

ANNEXURE

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, G.T. Road, (Indo American More),
 P.O. ABL, P.S. New Township, Dist. Paschim Bardhaman, PIN-713206.

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	<u>TMT Rod</u>	<u>38000 MT</u>
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. **Daily** discharge of industrial liquid effluent shall not exceed 96 KLD (recycled) KL.
04. **Daily** discharge of domestic liquid effluent shall not exceed 11.2 KL.
05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceed — KL.
06. The *Applicant* shall discharge liquid effluent to Municipal Drain through septic tank (place of discharge)
 through 01 nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Key
 Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Table-I

[illegible]

09. The Applicant falls in the not applicable Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. **Daily** water consumption for the following purposes should not exceed :-

- Industrial cooling, spraying in mine pits and boiler feed water →471.....KL
(Water used for gardening should be included in this category of use)
- Domestic purpose →14.....KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable →—.....KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable →—.....KL

The *Applicant* shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

(~~Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.~~)

Kay
 reg. / Env. Engr. / Asst. Env. Engr.
 Environmental Engineer
 Durgapur Regional Office
 Continued
 West Bengal Pollution Control Board

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Sr. Zakir Hussain Avenue, G.T. Road, (Indo American More),
P.O. ABL, P.S. New Township, Dist. Paschim Bardhaman, PIN- 713 206.

11. The *Applicant* shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the *State Board*.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The *Applicant* shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the *Standard* as given in Table-II below :

Table-II

Stack No.	Stack height from G.L., (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-I	32	02 (Two) nos. reheating furnaces			150	1			Annually
S-2		(APC Device - Gravity Dust Settling Chamber)							
S-3									
S-4									
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Engineer)

K. K. K.
 Environmental Engineer
 Durgapur Regional Office
 West Bengal Pollution Control Board

Consent to M/s. SPS Steels Rolling Mills Ltd.
 for its unit at Sr. Zakir Hussain Avenue, G.T. Road, (Indo American More),
P.O. ABL, P.S. New Township, Dist. Paschim Bardhaman, PIN-713206.

14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.

15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	CBM Gas	470 m ³ /month	2 nos. reheating furnaces.
02	LDO/LSHS	365 m ³ /month	
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
End cuts & mis-rolls	1140 MT/month	—	Reused in Induction Furnaces
Mill scale	305 MT/month	—	Sold

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L _{eq}
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage / plantation.

20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

Consent to M/s SPS Steels Rolling Mills Ltd.
 for its unit at Dr. Zakir Hussain Avenue, G.T. Road, (Indo American More),
P.O. ABL, P.S. New Township, Dist. Paschim Bardhaman, PIN- 713 206.

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions

ANNEXURE-12



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	: Vikas Ram, Sr. Technician of M/s. Greenvision	Laboratory Ref. No.	: GS-019-2022
Sample identification mark	: Nil	Report Date	: 23.12.2022
Report No.	: GV/GW/22-23/075	Date of Sampling	: 12.12.2022
Issued To	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Sample Received on	: 12.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Analysis Started on	: 13.12.2022
Sample Condition	: In Glass Bottle & Plastic Bottle	Analysis Completed on	: 20.12.2022
Sample Description	: Ground Water	Time of Sampling	: 04:35 pm
Sampling Method	: APHA 23 rd EDITION, 1060		
Location	: Hand Pump of Khoyrasole Village		

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 23 rd EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	6.94	6.5 to 8.5	No Relaxation	4500-H ⁺ B
2.	Colour	Hazen	1.0	5.0	15.0	2120 B
3.	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4.	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5.	Turbidity	N.T.U.	0.76	1	5	2130 B
6.	Conductivity	µS/cm	318.0	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	229.0	500	2000	2540 C
8.	Total Hardness as CaCO ₃	mg/L	88.0	200	600	2340 C
9.	Chloride as Cl	mg/L	18.12	250	1000	4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	84.0	200	600	2320 B
11.	Sulfate as SO ₄	mg/L	21.16	200	400	4500 SO ₄ ²⁻ E
12.	Nitrate as NO ₃ ⁻	mg/L	3.8	45.0	No Relaxation	4500 NO ₃ ⁻
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD
14.	Calcium as Ca	mg/L	25.87	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	9.12	30	100	3500- Mg B

1/2

City Office : 5/11, New Shibhala Lane, Bansdroni, Kolkata-700 070, Ph. : 9433158173

Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



GREEN VISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board




TC-11003


Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

16.	Iron as Fe	mg/L	0.12	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

Checked by


(Chemist)


(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified.

ANNEXURE-13A



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/065 Laboratory Ref. No. : NLM-032-2022(1)
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I) Report Date : 23.12.2022
Address : Dr. Zakir Hussain Avenue, Durgapur, Date of Sampling : 12.12.2022 & 13.12.2022
Pin : 713206, Paschim Bardhaman.
Sample Description : Noise Level Total Time : 1 Hr.
Location : Roof of Administrative Building
Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Noise Level dB (A)					
Day Time			Night Time		
Max.	Min.	Leq.	Max.	Min.	Leq.
65.3	57.0	62.4	56.6	49.8	52.8

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/066 Laboratory Ref. No. : NLM-032-2022(2)
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I) Report Date : 23.12.2022
Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman. Date of Sampling : 12.12.2022 &
13.12.2022
Sample Description : Noise Level Total Time : 1 Hr.
Location : Near Security Check Post
Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 dB(A)
{ Source : The Noise Pollution (Regulation
and Control) Rules, 2000}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Noise Level dB (A)					
Day Time			Night Time		
Max.	Min.	Leq.	Max.	Min.	Leq.
67.8	58.6	64.4	57.4	51.2	53.9

Checked by
(Chemist)

(Sabyasachi Shyam Roy Chowdhury)
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/067 Laboratory Ref. No. : NLM-032-2022(3)
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I) Report Date : 23.12.2022
Address : Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman. Date of Sampling : 12.12.2022 & 13.12.2022
Sample Description : Noise Level Total Time : 1 Hr.
Location : Rear End of the Plant
Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000 }
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Noise Level dB (A)					
Day Time			Night Time		
Max.	Min.	Leq.	Max.	Min.	Leq.
66.0	57.2	62.8	56.2	49.0	52.3

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(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/068 Laboratory Ref. No. : NLM-032-2022(4)
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I) Report Date : 23.12.2022
Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman. Date of Sampling : 12.12.2022 &
13.12.2022
Sample Description : Noise Level Total Time : 1 Hr.
Location : Khoyrasole Village
Noise Level Limit : Day Time : 55 dB(A), Night Time : 45 dB(A)
{ Source : The Noise Pollution (Regulation
and Control) Rules, 2000}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Residential Area

Noise Level dB (A)					
Day Time			Night Time		
Max.	Min.	Leq.	Max.	Min.	Leq.
56.2	48.8	53.7	46.5	39.6	42.8

Checked by

(Chemist)

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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ANNEXURE-13B



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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/069
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)
Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman.
Sample Description : Noise Level
Location : Rolling Mill Despatch Area
Noise Level Limit : 90 dB(A) [8 Hrs. Exposure]
{ Source : W.B. Factories Act, 1948 }
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Laboratory Ref. No. : NLM-032-2022(5)
Report Date : 23.12.2022
Date of Sampling : 13.12.2022
Starting Time : 10:25 am
Total Time : 1 Hr.

Noise Level dB (A)		
L _{min}	L _{max}	L _{eq}
74.0	81.2	78.8

Checked by

(Signature)
(Chemist)

(Signature)
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision

Report No. : GV/NL/22-23/070

Laboratory Ref. No. : NLM-032-2022(6)

Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)

Report Date : 23.12.2022

Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman.

Date of Sampling : 13.12.2022

Sample Description : Noise Level

Starting Time : 11:45 am

Location : Re-Heating Furnace Area (RMD)

Total Time : 1 Hr.

Noise Level Limit : 90 dB(A) [8 Hrs. Exposure]
{ Source : W.B. Factories Act, 1948 }

Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.

Category of Area : Industrial Area

Noise Level dB (A)		
L _{min}	L _{max}	L _{eq}
76.8	82.3	80.9

Checked by

(Chemist)

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/071
Laboratory Ref. No. : NLM-032-2022(7)
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)
Report Date : 23.12.2022
Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman.
Date of Sampling : 13.12.2022
Sample Description : Noise Level
Starting Time : 01:05 pm
Location : Near Product House (Sponge Division)
Total Time : 1 Hr.
Noise Level Limit : 90 dB(A) [8 Hrs. Exposure]
{ Source : W.B. Factories Act, 1948}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Noise Level dB (A)		
L _{min}	L _{max}	L _{eq}
74.2	80.6	78.8

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(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/22-23/072
Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)
Address : Dr. Zakir Hussain Avenue, Durgapur,
Pin : 713206, Paschim Bardhaman.
Sample Description : Noise Level
Location : DRI Kiln Area (Sponge Division)
Noise Level Limit : 90 dB(A) [8 Hrs. Exposure]
{ Source : W.B. Factories Act, 1948}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area

Laboratory Ref. No. : NLM-032-2022(8)
Report Date : 23.12.2022
Date of Sampling : 13.12.2022
Starting Time : 02:25 pm
Total Time : 1 Hr.

Noise Level dB (A)		
L _{min}	L _{max}	L _{eq}
75.8	84.3	81.4

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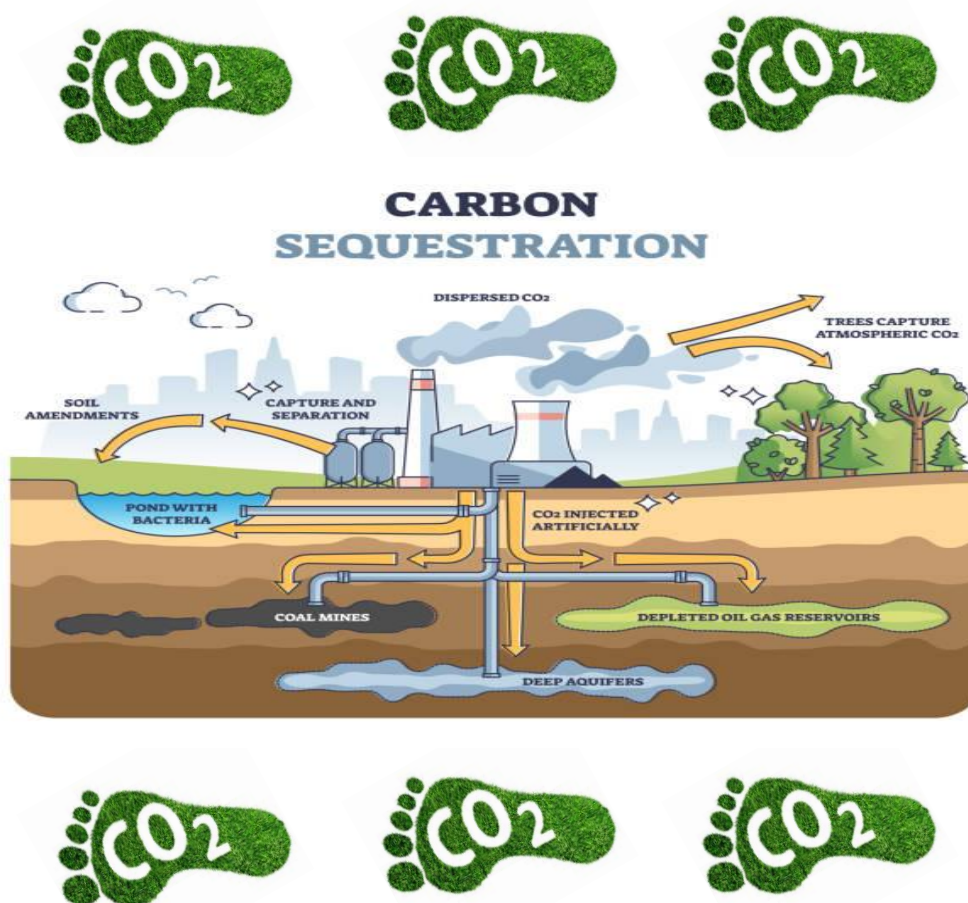
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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001

ANNEXURE-14

SPS STEEL ROLLING MILLS LIMITED

STUDY REPORT



CARBON FOOTPRINT & CARBON SEQUESTRATION

Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill)

CARBON FOOTPRINT AND CARBON SEQUESTRATION STUDY

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 CO₂ 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 CO₂ 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.

SPS Steels Rolling Mills Limited has relied on following reference for arriving CO₂ Emission Factors for steel industry

- *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;*), the CO₂ emissions are calculated and carbon footprints are tracked in the unit.
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Volume 3, Industrial Processes and Product Use

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 CO₂, CH₄ and N₂O 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.

Highlights of finding

The expansion Proposal was aimed to basically make the process energy and environment friendly and observed that expansion of SMS production with introduction of directly charging hot billets into the Rolling mill avoiding additional heating in reheating furnace by fossil fuels will decrease the carbon footprint drastically.

It was observed that SMS division will decrease CO₂e Emissions by 6403 TPA

Unit	SMS division									
Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA)										
Input Material			Yield	Qty (MT)	C%	Carbon in (TPA)	Output Material	TPD	Qty (MT)	
Pig Iron	161.96	18%	94%	67021	4.0%	2681	Billets	1000	350000	
Sponge Iron	824.77	70%	80%	306250	1.50%	4594	Slag +metal	15%	52500	
Scrap	153.82	12%	95%	44211	2.0%	884	Slag	90%	47250	
Ferro Alloys	23.1	12kg/thm		4200	2.0%	84	Scrap from CCM	2%	7000	
	1163.65		Carbon in			8243	Metal from slag	2%	7000	
	0.86		Carbon out		0.15%	525.000				
Carbon in oxide form on ton of billets						7718				
coeffiecient						3.670				
CO2e Emissions on per ton of billet(in kg)						80.927				
Exisitng CO2e Emissions , TPA						8740.091				
CO2e Emissions after expansion TPA						28324.369				
increase in SMS						19584.278				

Unit	RH Furnace (#Both Rolling Mills will be hot charged after expansion.)									
Two reheating shall be dismantled after expansion and only one Reheating will be kept as back up to feed Cold billets.										
				Existing	After expansion					
Production (TPA)				4,74,240	1,24,240					
Type of Fuel				CBM	CBM					
Specific Fuel Consumption, m3/ton				40	40					
Desnity of CBM				0.675	0.675					
Required Fuel CBM (TPA)				12804.48	3354.48					
Emission Factor (ton CO2/Ton of CBM)				2.75	2.75					
CO2e Emissions after proposed expansion				35,212	9,225					
Decrease due to expansion of SMS					25,988					

Net effect of expansion					DECREASE	6,403
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Overall Carbon footprint finding after completion of expansion projects

Following is the Division wise carbon emission calculations from SPS Steels Rolling Mills Limited based on the emission factors.

1. Induction Furnace

Following table shows the CO₂ emissions from the induction furnace operation after proposed expansion.

Unit	Required Raw Materials	Quantity (TPA)	Carbon Content (W/W)	Total Carbon Taken to IF (TPA)	Carbon Retained in MS Billet (TPA)	Carbon Burnt (TPA)	CO ₂ e Emissions after proposed expansion of the plant (TPA)
SMS (IF-5 x 20 T) Total Production: 3,50,000 TPA	Pig Iron	67,021.00	0.04	2681	525	7717.81	28324.36
	Sponge Iron	3,06,250.00	0.015	4594			
	Ferro Alloys	4,200.00	0.02	84			
	Scrap	44,211.00	0.02	884			
Total				8242.81			

2. Rolling Mill Division

Reheating Furnace

Following table shows the CO₂ emissions from the reheating furnace operation using CBM or LSHS as Fuel for the proposed plant. The production for this unit is taken considering 27% production of rolled products through Reheating furnace and rest production (73%) through hot charging directly from SMS to rolling mills.

Unit	Production (TPA)	Required Fuel CBM @40m ³ /Ton (m ³)	Net CBM Required (kg) @0.675kg/m ³ Density of CBM	Emission Factor (kg CO ₂ /kg of CBM)	CO ₂ e Emissions after proposed expansion of the plant (TPA)
RH Furnace	124240	4969600	33,54,480	2.75	9,224.82

- By dismantling 02 nos. re-heating furnace we will reduce CO₂ generation ~73%

3. DRI Plant

Unit	Production Capacity (TPA)	Emission Factor	CO ₂ e Emissions after proposed expansion of the plant (T/Year)
DRI	66,000.00	0.70	46200.00

4. Captive Power Plant (5 MW WHRB & 5 MW AFBC)

To reduce carbon footprint 5 MW of power will be produced through WHRB using hot flue gases from existing DRI units. No additional fuel will be required for this. So, it will not contribute to carbon emission.

To meet the power requirement 5 MW of AFBC boiler has been proposed under this proposal. Dolochar produced as a by-product from the existing DRI units will be fully utilise as a fuel in proposed AFBC Boiler and coal will be used as fuel in AFBC boiler as per requirement of power.

Following table shows the CO₂ emissions from the AFBC boiler during the operation of the proposed plant.

Unit	Required Fuel	Quantity TPA	Carbon Content (W/W)	CO ₂ e Emissions after proposed expansion of the plant (T/Year)
AFBC	Coal	26,154.00	0.67	61,094.57
	Dolochar	20,985.00	0.25	18,291.05
Total				79,385.62

5. Diesel Consumption

Following table shows the CO₂ emissions from the Diesel consumption during the operation of the proposed plant. Considering 41 trips of trucks (to and from) for material transport within 10 km radius study area, the total diesel consumption including emergency operation of DG sets is estimated to be 170 litres/day or 56,100 litres/annum (i.e. 14821 gallons/annum).

Unit	Consumption (gallons/annum)	Emission Factor (ton CO ₂ /gallon)	CO ₂ e Emissions after proposed expansion of the plant (TPA)
Diesel consumed	14,821	0.01018	150

Thus, the cumulative CO₂e emitted from the project after proposed expansion is **1,63,284.8 tons CO₂e/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 CO₂ emissions without seriously undermining process efficiency or considerably adding to costs. The iron and steel industry are the largest industrial source of CO₂ 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
- Secondary Fume Extraction System in Steel Melting Shop
- Regenerative Burners in Re-heating Furnaces of Rolling Mills
- Hot charging process of continuously cast products at higher temperature directly to Rolling Mills
- Direct Rolling Process eliminating the need for Re-heating furnaces
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors
- Increased Clean gas utilization like CBM for re-heating in rolling mill if required.
- Minimising energy consumption and improving the energy efficiency of the process
- Changing to a fuel and/or reducing agent with a lower CO₂ emission factor;
- Capturing the CO₂ and storing it underground.
- Sufficient and affordable renewable energy needs to be implemented in the industry
- Installing state of art cleaner technologies
- Afforestation and Plantation
- Metallurgical wastes (Slag, Sludge, scales, fines, dust) into Sintering contributes significantly for reducing carbon dioxide emissions
- Availability of supporting infrastructure (Carbon capture and storage (CCS) and Hydrogen networks) needs to be accelerated, especially for industries, to support the transition to low-carbon/carbon neutral technologies
- 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, most of all, car-pooling would contribute to reducing carbon emissions

Immediate Measures to be taken by SPS Steels Rolling Mills Limited

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

- Installation of Waste Heat Recovery Boiler (WHRB) and AFBC Boiler
- Replacement of smaller size DRI Kilns (40 TPD) by bigger size Kilns (100 TPD)
- Reduction in transportation of dolomite to outside by using it in AFBC boiler
- Replacement of smaller size Induction Furnace (15 T) by bigger size Furnace (20 T)
- Direct hot charging of billets from SMS to rolling mills.
- Dismantling of 2x18TPH Re-heating furnace from rolling mills
- Promoting minimum use of vehicles during plant visit.
- Installation solar light system on the roof top of administrative building for office lighting purpose.
- Increasing of Green belt from 33% to 40%

Increasing Non-Fossil energy capacity and fulfilment of energy consumption through renewable energy sources

SPS Steels Rolling Mills Limited proposes 10 MW captive power generation through utilising Waste heat Recovery from DRI Kilns and through the by-products (dolo-char) generated in DRI Kilns.

After expansion total power requirement would be 45 MW. Out of total 45 MW power requirement 10 MW (i.e. 22% of the total requirement) would be fulfilled by captive generation, generated through non-conventional way. Apart from this, the company plans of increasing its captive through solar power to cater its auxiliary system.

Thus, company plans to increase power generation through non-fossils energy sources and targets to generate 50% of its requirement through these sources by 2030 subject to best available technology in Indian market.

Attempts to reduce Carbon emission/to bring down Carbon intensity

It is already mentioned that SPS Steels Rolling Mills Limited proposes replacement of smaller kilns/furnaces by bigger sizes. Apart from these moves, the company proposes direct charging of hot billets to rolling mills, by dismantling 02 Nos. reheating furnaces. This attempt will remarkably reduce the burning of fossil fuel like CBM & sometimes use of HSD oil and consequently reduce the CO₂ emission. 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.

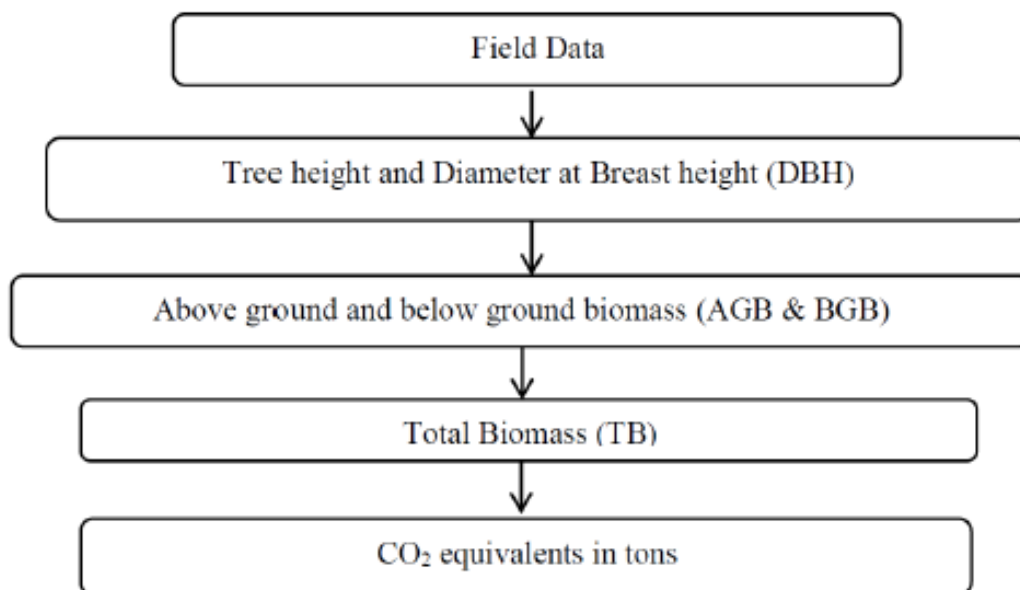
Carbon Sequestration

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 CO₂ 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 CO₂ 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 CO₂ and C, respectively.

The existing trees planted in the premises of SPS Steels Rolling Mills Ltd. is 3.09 ha. and proposed plantation is 0.66 ha. Total plantation shall be 3.75 ha then inventoried and CO₂e is calculated based on the above formula. Also, the industry has to develop 3000 plantations outside the plant premises which shall also be considered for carbon sequestration study. The Carbon sequestration study is provided in below table

CARBON SEQUESTRATION THROUGH GREENBELT DEVELOPMENT IN AND AROUND THE PLANT PREMISES OF SPS STEELS ROLLING MILLS LIMITED

Sl. No.	Plant Species	Local Name	Periphery (cm.)	Basal Area (M2)	Height (M)	Basal Volume (M3)	Density (Kg/M3)	AGB (Kg)	BGB (Kg)	TB (Kg)	TC (Kg)	CO2e (Kg)	No. Tree	Total CO2e (Kg)
1	Azadirachta indica	Neem	68	0.037	5.5	0.202	900	182.24	47.38	229.62	114.81	420.96	150	63,145
2	Polyalthia longifoila	Debdaru	30	0.007	4	0.029	875	25.08	6.52	31.60	15.80	57.93	250	14,483
3	Acacia auriculiformis	Sonajhuri	48	0.018	5	0.092	625	57.32	14.90	72.23	36.11	132.42	800	1,05,936
4	Dalbergia sissoo	Shishu	59	0.028	6	0.166	800	133.03	34.59	167.62	83.81	307.30	250	76,826
5	Ficus benghalensis	Bot	78	0.048	7	0.339	700	237.35	61.71	299.07	149.53	548.29	200	1,09,657
6	Ficus religiosa	Peepal	95	0.072	7	0.503	700	352.09	91.54	443.63	221.82	813.33	200	1,62,666
7	Anthocephalus cadamba	Kadam	59	0.028	5	0.139	600	83.14	21.62	104.76	52.38	192.06	200	38,413
8	Mimusops elengi	Bakul	58	0.027	3	0.080	1008	80.99	21.06	102.05	51.03	187.09	300	56,128
9	Albizia lebbeck	Sreesh	85	0.058	8	0.460	630	289.92	75.38	365.30	182.65	669.72	1300	8,70,631
10	Cono Carpus	Cono Carpus	54	0.023	5	0.116	580	67.33	17.51	84.83	42.42	155.53	1750	2,72,174
11	Caesalpinia pulcherrima	Radhachura	64	0.033	4.5	0.147	530	77.78	20.22	98.00	49.00	179.67	1325	2,38,060
12	Delonix regia	Krishnachura	54	0.023	4.5	0.104	510	53.28	13.85	67.14	33.57	123.08	800	98,465
13	Lagerstroemia speciosa	Jarul	45	0.016	1.5	0.024	700	16.93	4.40	21.33	10.67	39.11	350	13,687
14	Millettia pinnata	Karanj	61	0.030	3.5	0.104	680	70.51	18.33	88.84	44.42	162.88	1300	2,11,740
15	Eucalyptus globulus	Eucalyptus	48	0.018	8	0.147	582	85.41	22.21	107.62	53.81	197.30	250	49,324
16	Bombax malvaceae	Simul	55	0.024	5	0.120	580	69.84	18.16	88.00	44.00	161.34	250	40,335
17	Alstonia scholaris	Chhatim	72	0.041	4	0.165	700	115.57	30.05	145.61	72.81	266.96	250	66,740
18	Wodyetia bifurcata	Fox Tail Palm	45	0.016	2.8	0.045	540	24.38	6.34	30.72	15.36	56.31	300	16,894
19	Artocarpus heterophyllus	Katahal	68	0.037	4.5	0.166	600	99.40	25.84	125.25	62.62	229.62	300	68,885
20	Syzgiumcumini	Jamun	68	0.037	4.2	0.155	700	108.24	28.14	136.38	68.19	250.03	250	62,507
21	Terminalia arjuna	Arjun	68	0.037	7	0.258	750	193.28	50.25	243.53	121.77	446.48	200	89,295
22	Areca catechu	Areca	68	0.037	3	0.110	880	97.19	25.27	122.46	61.23	224.51	250	56,129
23	Tecoma stans	Ttikoma	68	0.037	3	0.110	580	64.06	16.66	80.71	40.36	147.98	300	44,393
24	Swietenia	Mehguni	68	0.037	4	0.147	750	110.45	28.72	139.16	69.58	255.13	300	76,539
25	Hibiscus rosa-sinensis	Hibiscus	38	0.011	2.5	0.029	700	20.12	5.23	25.35	12.68	46.48	250	11,619
26	Hyophorbe lagenicaulis	Bottle palm	68	0.037	3	0.110	900	99.40	25.84	125.25	62.62	229.62	300	68,885

TOTAL 12,375 29,83,555

SPS has proposed to install 20 KVA Solar panel produce non-conventional green energy for office auxiliary use. It will be helpful in carbon sequestration as follows:

Capacity of Solar Panel	20KVA
Av. Power Generation	0.02 MWh
Power generation in 24 hours	0.48 MWh
Power generation in a year	175.00MW
CARBON SEQUESTRATION	
Av Coal consumption per MW	0.90T
Total Coal consumption for 175 MW	157.50 T
Total Carbon as FC	105.53 T
Total CO_{2e} emission Sequestration	387.28T

SPS Steels Rolling Mills Limited plans to increase green belt from 33% to 40%. Total 9,375 Nos. trees will be planted in and around the plant premises. In addition to this company has planned additional 3,000 plantation in our surrounding areas.

Therefore, Total plantation will be $9,375 + 3,000 = 12,375$ tress.

From the above table, it is understood that total CO_{2e} sequestration potential from greenbelt development (12,375 No. trees) is estimated to be **29,83,555 Kg CO_{2e}/Annum (2983.55 tons CO_{2e}/Annum)**. This number can be increased on yearly basis target to reduce additional CO_{2e} emission by planting a greater number of trees over additional area.

In addition to afforestation installation of solar panel shall contribute carbon sequestration **387.28T CO_{2e}/Annum** i.e. more than 01ton/day. Though it is very less in an industrial scenario but shall be a step forward towards carbon sequestration.

Conclusion

SPS Steels Rolling Mills Limited is committed for reducing the overall Green House Gases and Ambient pollution levels through its cleaner technologies and Ecological development activities. The company is solemnly interested on reducing the carbon emissions by introducing different energy efficient technologies available in Indian market with usages of renewable energy resources, Use of Natural gases, Electric Vehicles and Development of Greenbelt.

To conclude, no single option can yield the necessary CO₂ emission reductions but a combination of technologies is available that can be retrofitted to achieve significant reductions, which is possible after commercial deployment of the same by the Government of India.

If Carbon capture and storage (CCS) plant is implemented then steel plants could become near zero emitters of CO₂. The commercial viability of CCS partly depends on the price of carbon emissions which is set by government policy. More large-scale demonstration projects, such as the Florange project in France could lead to lower costs in the future. If all technical, financial and cost barriers are overcome, then CCS could be more widely deployed in the steel industry. Developing new technologies, such as the HIsarna process, that are designed to generate a nitrogen-free and CO₂ rich off gas which will make CO₂ capture easier and cheaper.


ANNEXURE-15

SPS STEELS ROLLING MILLS LIMITED


RISK & DISASTER MANAGEMENT PLAN

PROJECT LOCATION

**Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur,
District –Paschim Bardhaman, West Bengal**

 SHAKAMBHARI GROUP	M/s SPS Steels Rolling Mills Limited Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil –Faridpur Durgapur, District –Paschim Bardhaman, West Bengal	Page 1
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Introduction:

The project site of M/s SPS Steels Rolling Mills Limited (SPS) is located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil – Faridpur Durgapur, District –Paschim Bardhaman, West Bengal having Latitude:23°30'45.00"N to 23°30'58.03"N & Longitude: 87°19'42.28"E to 87°19'56.01"E.

Project site of SPS is well connected by road and rail. The nearest railway station is Durgapur Railway Station which about 2.2 km 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 is one of the leading manufacturers of a full range of iron and steel products in India. Shakambhari group has completed the process of acquisition and taken over control of SPS Steels Rolling Mills — the makers of ‘Elegant Steel and TMT bars’ after receiving approval from the Kolkata bench of National Company Law Tribunal (NCLT). The NCLT gave its final nod for takeover on 8th April 2019 and the process was completed on 11th April 2019. 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.

Presently, the company is having following facilities in operations

- 1 x 100 TPD DRI Kiln
- 2 x 40 TPD DRI Kilns

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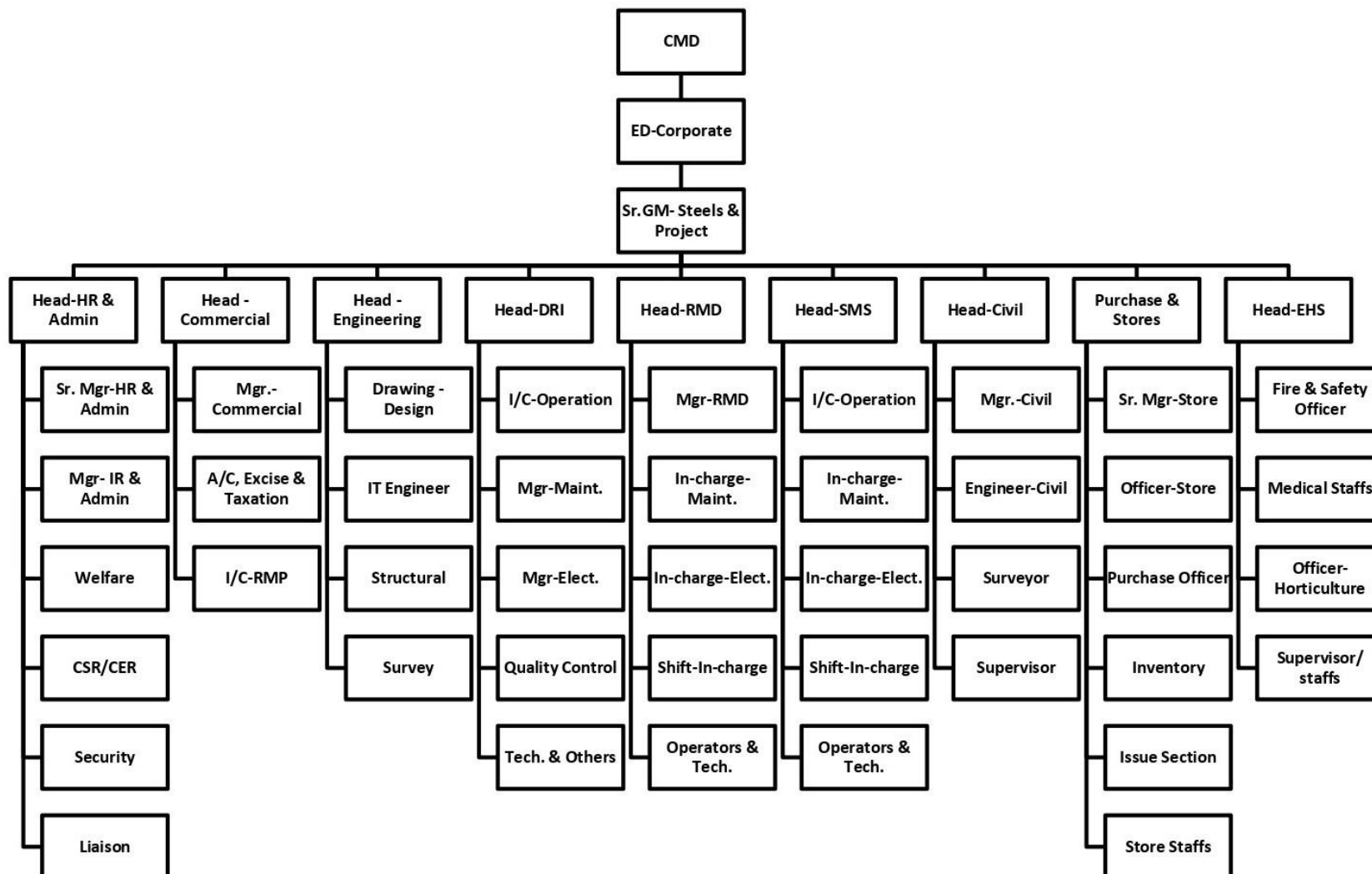
- 3 x 20 T Induction Furnace with Caster
- 2 x 18 TPH Reheating Furnace
- 1300 TPD Rolling Mill

Further following facilities are to be implemented in due course of time under proposed expansion plan:

- 5x20 T Induction Furnaces with 2 Casters & 1 LRF was sanctioned by MoEFCC. 3x20 T IFs are under operation and CTO for 2x20 have been applied for
- 10 MW Captive Power Plant (5 MW WHRB + 5 MW AFBC)
- Existing 2x18 TPH Reheating Furnace has been dismantled. Both Rolling Mills will be hot charged. 1x18 TPH Reheating Furnace will continue to operate

Risk and Disaster Management Plan

Organizational Structure:



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	170
2.	B	14:00-22:00 Hrs	170
3.	C	22:00-06:00 Hrs	170
4.	G	09:00-18:00 Hrs (Lunch Break: 13:00-14:00 Hrs)	190
Total			700

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 steel and hot slag
Accidents due to failure of Material Handling(lifting & carrying) Equipment	Connected with all Material Handling Equipments 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.

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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.

➤ **STEEL MELTING SHOP (SMS):**

In the SMS section scrap and pig iron are charged in Induction Furnace along with DRI in which heat is applied by induction heating and melted by electrical eddy current in a crucible placed in a water cooled alternating current solenoid coil. After achieving the desired composition and temperature, slag is scooped out from the top of hot metal and hot metal is poured into transfer ladle crucible and sent to CCM after addition of requisite amount of Ferro alloys. Induction furnaces are provided with matching billet casters.

In CCM liquid steel is casted to billets.

➤ **ROLLING MILL**


Steel Billets from concast machine is being cut to desired sizes and either fed to hot rolling mill for processing or transferred to raw material shed store. Cold Billets are transferred to roller table and pushed through the Reheating furnaces which are heated and soaked up to 1150 to 1200°C.

The Billets are processed through roughing mill, intermediate mills and finishing mills to get the finished rolled products. Reheating of Billets is being done in reheating furnace by using CBM gas. Then rolled products are cropped & caught in required commercial length by hot saws.

Hot gas generated from the Reheating Furnace is passed through recuperators and then discharged through the stack.

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.

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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	10000
		Coal	10000
		Dolomite	50
2.	Induction Furnace	Sponge Iron	1000
		Pig iron	500
		Scrap	1000
		Ferro Alloy	1000
3.	Rolling Mill	MS Billet	40000

INVENTORY OF HAZARDOUS SUBSTANCES:

The inventory of Hazardous materials is mentioned below:


Sl No.	Name Of Hazardous Substances	Maximum Storage Capacity
1	HSD for DRI kiln cold startup & Rolling Mill (Above Ground, fenced as per norms of explosive Authority)	1 X 20 KL 1 x 5 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.

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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:


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ANTICIPATED HAZARD SCENARIO:

Type of Hazard	Areas	Preventive / Mitigation measures
Pool fire/ 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”.
CBM gas leakage	Rolling Mill Division (RMD)	CBM gas being supplied by Essar Oil and Gas Exploration and Production Ltd. to our premises through pipeline. Gas supply line is equipped with safety valve and measuring devices. Fire Extinguishers are provided to control any fire incident. Caution board is provided to prevent unauthorized access. Regular monitoring being done by the supplying agency & also by SPS technical people.
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, SMS & RMD	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 chemical 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. Flash point of CBM gas is 33°C. Tank fire spreads vertically taking a

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conical shape due to rush of air from all directions, whereas CBM gas fire spread vertically at leakage point as a flare.

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 leakage of CBM gas is considered low because of safe operating practices.

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, SMS and RMD 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.

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- 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 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.

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- Ensure the record keeping of emergency operations chronologically.

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.

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- Search for the missing persons on the basis of role call taken by Auxiliary team leader (ATL).
- 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 City Centre (Durgapur).
- Send communications to Govt. Hospital and ESIC at Durgapur 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"> • Inform the Security Gate and concerned Shift-in —charge immediately. Shift-in-charge will inform immediately to Combat Team Leader of concerned area.
2.	Combat team Leader (CTL)	<ul style="list-style-type: none"> • Inform Site Incident Controller (SIC) and rush to spot and organize his team. • Take charge of the situation, arrange for firefighting and medical first-aid available at site. • To start combating, shut-down equipments, arrest the leakage of gas/fire.

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

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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. 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.

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- 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 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 SMS Area (Assembly Point-3)
- 4- Near Rolling Mills 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.

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- Emergency command structure.
- Rhythmical siren code for different emergency situation.
- Relevant material safety data sheet.
- 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/cm². 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. Fire pumps will be 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, Sub Divisional Govt. hospital at Bidhannagar, Durgapur 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, Rolling Mills, Administrative building, SMS and Security Office.

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DISASTER MANAGENENTPLAN

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 facilities 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.

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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.

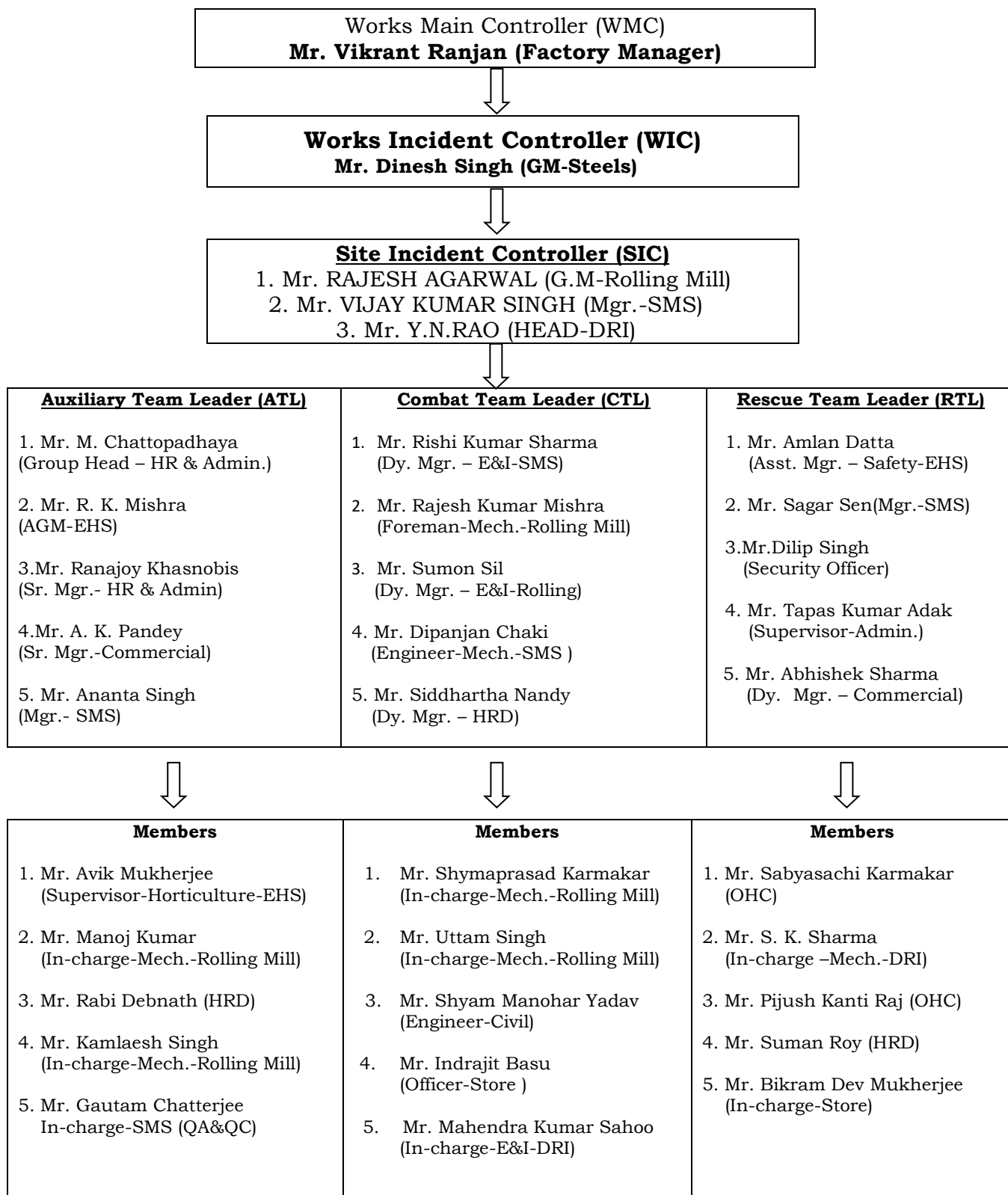
The DMP has been opened up with a foreword duly signed by the plant-in-charge.


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.

EMERGENCY COMMAND STRUCTURE



 SHAKAMBHARI GROUP	M/s SPS Steels Rolling Mills Limited Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil –Faridpur Durgapur, District –Paschim Bardhaman, West Bengal	Page 21
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TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM

Sl No.	Name	Position in Team	Mob. Number	PAX. No.
1	Mr. Vikrant Ranjan	Works Main Controller (WMC)	8695607246	4011
2	Mr. Dinesh Singh	Works Incident Controller (WIC)	9899388603	4034
3	Mr. Rajesh Agarwal	Site Incident Controller (SIC)	8367850001	4029
4	Mr. Vijay Kumar Singh		7602099539	4021
5	Mr. Y. N. Rao		7596072601	4025
6	Mr. M. Chattopadhaya	Auxiliary Team Leader (ATL)	8367850085	4014
7	Mr. R. K. Mishra		8695621900	
8	Mr. Ranajoy Khasnobis		7596072612	4014
9	Mr. A. K. Pandey		7001370534	4016
10	Mr. Ananta Singh		8373055366	4012
11	Mr. Rishi Kumar Sharma	Combat Team Leader (CTL)	7596072620	
12	Mr. Rajesh Kumar Mishra		7585926732	
13	Mr. SumonSil		7596072621	4031
14	Mr. DipanjanChaki		8101928756	
15	Mr. Siddhartha Nandy		7596072608	4020
16	Mr. AmlanDatta	Rescue Team Leader (RTL)	7596072643	
17	Mr. SagarSen (Mgr.-SMS)		7596072626	4021
18	Mr. Dilip Singh		7596072637	4041
19	Mr. Abhishek Sharma		7605085454	
20	Mr. Tapas Kumar Adak		7699477916	

EMERGENCY CONTACT NUMBERS:

Sl No.	Name	Mob. Number	PAX No.
1	Main Gate Security Office # 02	7596072639	4040
2	Main Gate Security Office # 03	7596072640	4019
3	Security In-charge	7596072637	4041
3	Medical Unit (O H C)	7605085458	4035
4	Ambulance	7596072630	
4	Safety officer	7596072643	
5	Essar Oil & Gas (EOGEPL)	8768079777	
6	Fire Service Station(City Centre)	0343-546061	
7	Sub-Divisional Hospital	8900567962	
8	E.S.I. Hospital	8207008088	
9	Police Station (NTPS)	0343-2502242	

ANNEXURE-16

HEALTH

1. Serial No. in the Register of adult worker :
 2. Name of worker :
 3. Sex :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

SPS Steels Rolling Mills Ltd. Durgamuda-713206

Department/ Works	Name of hazardous process	Dangerous operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving/ transfer or other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
SL No.	Name			Age	Dept	Sec		Employer
①	Sarebandu Ghosh			49	RND	A.C.		SPS.
②	Seoapan Rarikh			48	DR1			SPS
③	Sund Rarikh			40	DR1			SLS

REGISTER

as amended vide Notification No. 1183-LW-IR-191 dated 27th Nov. 1991.

4. Date of birth :
 5. Medical examination and the results there of

If declared unfit for work

Nature of tests & results stated	Result Fulfill	Period of Temporary withdrawal from that work	Reasons for such withdrawal	Date of declaring him unfit for work	Date of fitness Certificate	Signature with date of the Physician the Certifying Surgeon
10	11	12	13	14	15	16
<u>Blood -</u> TC - 9100/cu DE - N/67435 E/6 MB ESR - 10 mm HB - 13.3 gm Group - O+ve						NTB 24/12/22
<u>ECG - MNL</u> <u>PFT - MNL</u>						
<u>Blood -</u> TC - 5900/cu DE - N/61431 E/6 MB ESR - 10 mm HB - 13.8 gm Group - B+ve						NTB 24/12/22
<u>ECG - MNL</u>						
<u>Blood -</u> TC - 7500/cu DE - N/84135 E/6 MB ESR - 15 mm HB - 12.6 gm Group - B+ve						NTB 24/12/22
<u>ECG - MNL</u>						

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

SPS Steels Rolling Mills Ltd. Durgam - 713206

3. Sex :

Department/ Works	Name of hazardous process	Dangerous process/ operation	Name of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of transfer/ other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
Sl. No.	2	3	4	5	6	7	8	9
1	Name			Age	Dept	Sec	1	Employer
①	Saurabh Roy			34	SMS			Confractor
③	Saurabh Das			43	RMD	D.C.		SPS.
⑥	Subhas K. Fowdry			30	RMD (Mech)			SPS.

Note : - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results there of

If declared unfit for work

Nature of tests & results thereof	Result Favorable	Period of Temporary withdrawing from that work	Reasons for such withdrawing	Date of declaring him unfit for work	Date of issuing Fitness Certificate	Signature with date of the examination by the Certifying Surgeon
10	11	12	13	14	15	16
ECG - MNL						NCB 27/12/22
Blood TC - 11700P DE - N/SBLS ESMH ESR - 05mm HB - 14.5g GP - B +ve						NCB 27/12/22
ECG - Sinus tachycardia						
Blood TC - 6900P DE - N/SBLS ESMH ESR - 05mm HB - 13.8g GP - A +ve						NCB 27/12/22
ECG - PRRB.						
X-ray Chest NAD.						

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

SPS Steels Rolling Mills Ltd. Kungla - 713206

3. Sex :

4. Date of birth :

5. Medical examination and the results there of

if declared unfit for work

No.

REGISTER

as amended vide Notification No. 1183-LW-IR-191 dated 27th Nov. 1991.

Dangerous/ Works	Name of hazardous process	Dangerous process operation	Nature of job or occupation	Raw materials, products or by-products exposed to	Date of posting	Date of leaving employment or other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
SE. NO.	Name		Age	Depth	EOC			Employer
11	Surojit Kumar Das		29	RMD				
12	Sankar Das		41 yr.	RMD				
13	Torun Banerjee							

Note : - 1. Separate page should be maintained for individual worker.

2. Fresh entry should be made for each examination

Nature of tests & results thereof	Result Fulfilling	Period of Temporary withdrawing from work	Reasons for such withdrawal	Date of declaring unfit for the work	Date of issuing Fitness Certificate	Signature with date of the Factory Medical Officer/ the Certifying Surgeon
10	11	12	13	14	15	16
Blood - TC - 7800 BC - N/S (133 B/L) WBS ESR - 105 mm HB - 15.7 g GP - 0.46 ECA - NNL						NCB 24/12/22
Blood - TC - 5700 BC - N/S (133 B/L) WBS ESR - 15 mm HB - 12.6 g GP - 0.46 ECA - NNL						NCB 24/12/22
ECG - Abnormal P. may be bad (10/12/22) Based on consolidation (21/12/22) Based on consolidation						NCB 24/12/22
PFT - NNL						NCB 24/12/22

Report to cardiologist and
pulmonologist
NCB
24/12/22

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

3. Sex : SPS Steels Rolling Mills Ltd. Bangalore - 713206

Department/ Works	Name of hazardous process	Dangerous operation	Nature of job or occupation	Raw materials, products or by-products to be exposed to	Date of posting	Date of transfer to other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
SL No	2	3	4	5	6	7	8	9
1	Name			Age	Dept	Sec		Employer
14	Tiruvarur Prasad			51 yr. BPL				
15	Tamanghna Ganguly			28 yr. SPS				
16	Uttam Singh			41 yr. RMD				
17	Umesh Dasgupta			49 yr. RMD				

Note : - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

If declared unfit for work

Nature of tests & results thereof	Result Fit/Unfit	Period of Temporary withdrawing from work	Reasons for such withdrawing	Date of declaring unfit for that work	Date of issuing fitness Certificate	Signature with date of the Factory Medical Officer or the Certifying Surgeon
10	11	12	13	14	15	16
Blood - TC - 8400 f2 BC - N/55 L/38 E/5 W/9 ESR - 10 mm HB - 13.4 g GP - A + ve						NRB/24/12 27/12/22
ECG - MNL						
BECA - MNL						NRB/24/12 27/12/22
PFT - MNL						
Blood - TC - 8500 f2 BC - N/60 L/38 E/5 W/9 ESR - 10 mm HB - 14.5 g GP - R + ve						NRB/24/12 27/12/22
ECG - MNL						
Blood - TC - 9600 f2 BC - N/56 L/38 E/5 W/9 ESR - 15 mm HB - 12.9 g GP - O + ve						NRB/24/12 27/12/22

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

SPS Steels Rolling Mills Ltd. Durgapur - 713206

3. Sex :

Department/ Works	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of heavily transfer other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
SE. No.	Name				Age	DOB	Sex	Employer
(18)	Umesh Dasgupta	47y.	PMB.					
(19)	Uday Badgaker	32 y.	Security					
(20)	Virendra K. Singh	PMB.	42					
(21)	Satyam Prasad Karmakar	36 y.	PMB					

Note : - 1. Separate page should be maintained for individual worker
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-R-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

if declared unfit for work

No.

10	11	12	13	14	15	16
Nature of tests & results thereof	Result Fit/unfit	Period of absence withdrew from that work	Reasons for such absence	Date of declaring him unfit for that work	Date of declaring him fit for work	Signature with date of the Physician or the Certifying Surgeon
Blood - TC - 9300/- R - 15/63 (1302/5M) ESR - 05~ HB - 14.0g/l AP - 43+vk.						NEEL - V, 27/12/22
ECG - NNL						NEEL - V, 27/12/22
X-ray chest NAD						NEEL - V, 27/12/22
Audiometry - NAD						NEEL - V, 27/12/22
PFT - NAD						N 27/12/22
ECG - NNL						NEEL - V, 27/12/22
X-ray chest - NNL						NEEL - V, 27/12/22
Audiometry - NNL						NEEL - V, 27/12/22
PFT - NNL						NEEL - V, 27/12/22

HEALTH

1. Serial No. in the Register of adult worker :

2. Name of worker :

3. Sex :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

GPS Steels Rolling Mills Ltd. Durgam - 713206

Sl. No.	Name	Dangerous process/operation	Nature of job or occupation	Raw materials, products or by-products to be exposed to	Date of posting	Date of leaving or other work	Reason for discharge/transfer to other work	Signs and symptoms observed during examination
21	Suprabal Mondal	29 yr.	Security					
22	Saujoy Bhadani	45 yr.	SHS					
23	SK. Rakarfulla	29 yr.	Transport					
24	Guthanshan Roy	49 yr.	RMS-2					
25	Ranjit Upadhyay							
26	Rajesh Yadav	36 yr.	RMS					

REGISTER

as amended vide Notification No. 1183-LW-R-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

If declared unfit for work

Sl. No.	Name of worker & results thereof	Result Fulfillment	Period of Temporary withdrawal from work	Reasons for such withdrawal	Date of declaring him unfit for work	Date of issuing fitness Certificate	Signature with title of the Factory Medical Officer or Certifying Surgeon
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100							

Note : 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

Augapm-7/13206

No.

REGISTER

4. Date of birth : _____

5. Medical examination and the results thereof _____

1

Signature with date of the fitness certificate	Date of destating him with fitness certificate	Reasons for such withdrawal	Period of Temporary withdrawal from work	Nature of tests & results thereof	Result Futurity

Nature of task & results thereof	Rank & Position	Period of temporary withdrawal from that work	Reason for such withdrawal	Date of declaring him unfit for that work	Date of fitness Certificate	Signature with date of the first day after the Certifying Surgeon
10	11	12	13	14	15	16
<p>Bedard -</p> <p>QC - 5700 P</p> <p>DE - N/AOLP30 EOM4</p> <p>ESR - 10 -</p> <p>HL - 13:22</p> <p>cap - A + 10</p> <p>array checked - N/A</p> <p>ECG - NNL</p>						<p>NEBL -</p> <p>24/10/22</p>
<p>Bedard -</p> <p>TE - 12500 P</p> <p>DE - N/AOLP30 EOM4</p> <p>ESR - 10 -</p> <p>HL - 14:08</p> <p>cap - R + 10</p>						<p>NEBL -</p> <p>24/10/22</p>
<p>ECG - NNL</p>						<p>NEBL -</p> <p>24/10/22</p>
<p>PFT - NNL</p>						<p>NEBL -</p> <p>24/10/22</p>
<p>ECG - NNL</p>						<p>NEBL -</p> <p>24/10/22</p>
<p>ECG - NNL</p>						<p>NEBL -</p> <p>24/10/22</p>

HEALTH

1. Serial No. in the Register of adult worker:

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker:

SRS Steels Rolling Mills Ltd. 24/12/2012

3. Sex:

Male

1	2	3	4	5	6	7	8	9
Department/ Mills	Name of worker/ person	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products to which he is exposed to	Date of posting	Date of leaving the work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
44	Vindhyachal			22 yr.	PHD			
45	Krishnaiah Saran			46 yr.	HPD			
46	Somnath Das			52 yr.	HPD			

REGISTER

as amended vide Notification No. 1183-LW-IR-1191 dated 27th Nov. 1991.

4. Date of birth:

5. Medical examination and the results there of

If declared unfit for work

No.

10	11	12	13	14	15	16
Name of tests & results thereof	Result Fulfill	Period of Temporary withdrawing from work	Reasons for such withdrawal	Date of returning to work	Date of issuing Fitness Certificate	Signature with Date of the Factory Medical Officer or the Certifying Surgeon
Blood - TC - 6200/- R - 1504/29 B/M/L ESR - 15 - Hb - 12.8 g GP - AB +ve						24/12/12
ECG - P wave more spikes noted						24/12/12
Blood - TC - 7500/- R - 1780/15 B/M/L ESR - 12 - Hb - 12.9 g GP - B Negative						24/12/12
ECG - MNL X-ray chest NAD						
Audiometry - NAD 3. N Hearing loss (L)						
Blood - TC - 6100/- R - 1620/15 B/M/L ESR - 15.0 g - Hb - 13.4 g GP - B +ve						24/12/12
ECG - MNL X-ray chest NAD						
Audiometry - NAD						

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

3. Sex :

SPS Steels Rolling Mills Ltd.

Burgpara - 713206

Department Mills	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving/ transfer/ other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
47	Steel making Paddy				53 p. P.H.D.			
48	Ramchand Koiray				53 p. Security			
49	Sujit Bauri				28 p. earthen			
50	Raj Kishore Das				40 p.			Confactor
51	Abhaya Das Gupta				P.H.			

Note : - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination.

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

if declared unfit for work

Nature of tests & results thereof	Result Fit/Unfit	Period of temporary withdrawal from work	Reasons for such withdrawal	Date of declaring him unfit for work	Date of issuing fitting Certificate	Signature with date of the Factory Medical Officer or the Surgeon
10	11	12	13	14	15	16
X-ray chest - N.A.D.						27/12/12
ECG - NNL						27/12/12
Audiometry - N.A.D.						27/12/12
Blood - Hb - 13.0 g/l Rc - N/81128 E.D.M.4 ESR - 105 mm Hb - 14.4 g Gp - O.Hve.						27/12/12
ECG - NNL						27/12/12
ECG - NNL						27/12/12
PFT - NNL						27/12/12

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

3. Sex :

SBS Steels Rolling Mills Ltd.

Burgapur - 713206

Department/ Works	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
(52)	Andan Dule			38 yr	ETHS			
(53)	Asish Roy			44 yr	SHS			
(54)	Rajkumar Karan			49 yr	DR1			
(55)	Arup Das			46 yr	RHD			
(56)	Rajiv Sharma			50 yr	RHD			

Note : - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-MR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results there of

If declared unfit for work

Nature of tests & results thereof	Result Fit/Unfit	Period of temporary withdrawal from work	Reasons for such withdrawal	Date of declaring him unfit for that work	Date of issuing Certificate	Signature with date of the Factory Medical Officer Sanctioning Surgery
10	11	12	13	14	15	16
PFT - WNL						NEB 27/12/22
Blood - TC - 7900/L Hb - 15.1 g GP - 0.94%						NEB 27/12/22
ECG - WNL						
Blood - TC - 8200/L Hb - 13.5 g GP - 0.94%						NEB 27/12/22
ECG - WNL						
ECG & WNL						NEB 27/12/22
ECG - WNL						NEB 27/12/22
Audiometry - WNL						NEB 27/12/22

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

3. Sex :

SRS Steels Rolling Mills Ltd.

Burgapur - 713206

1	2	3	4	5	6	7	8	9
Department/ Works	Name of hazardous process	Dangerous process operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving/ transfer/ other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
57	Heavy galvanizing			ASp. RMD				
58	Dilip K. Mohale			39y. RMD				
59	Rajkumar Prasad			ASp. DRI				
60	Sukanta Chakraborty			58y. RMD				

Note : - 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

If declared unfit for work

No.

10	11	12	13	14	15	16
Nature of tests & results thereof	Result Fit/Unfit	Period of temporary disability from that work	Reasons for such withdrawal	Date of declaring unfit for that work	Date of issuing Fitness Certificate	Signature with date of the Factory Medical Officer/ Certifying Surgeon
Blood - Tc - 6000 f Dc - N/581/33 E ESR - 10 - Hb - 14.1 g Gp. O +ve						27/12/02
ECG - MNL X-ray chest - NAD Audiometry - MNL						27/12/02
Blood - Tc - 5200 f Dc - N/861/20.02 M1 ESR - 10 - Hb - 13.9 g Gp. A +ve						27/12/02
ECG - MNL X-ray chest - NAD Audiometry - MNL						27/12/02
Blood - Tc - 11300 f Dc - N/781/16 E/0 M1 ESR - 10 - Hb - 15.8 g Gp. - B Negative						27/12/02
ECG - MNL X-ray chest - NAD Audiometry - MNL						27/12/02

HEALTH

1. Serial No. in the Register of adult worker :

2. Name of worker :

3. Sex :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

SBS Steels Rolling Mills Ltd. Kugrapur - 713206

Department/ Works	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of leaving work or other	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
61	Jilendro	Yadav			48-yr.	RHD		
62	Dilip Kumar				45-yr.	RHD		
63	Arum K. Shankar				49-yr.	RHD		
64	Hassibur Rahman				28-yr.	RHD-2		

Note : 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results there of

If declared unfit for work

Nature of tests & results thereof	Result Fit/Unfit	Period of temporary disability from that work	Reasons for such withdrawal	Date of declaring him unfit for work	Date of issuing Fitness Certificate	Signature with date of the Physician the Certifying Surgeon
10	11	12	13	14	15	16
ECG - MNL X-ray chest - NAD Audiometry - MNL						24/12/22
Blood - TC - 6600/ Hb - 11.9 g ESR - 10 mm GP - R+ve						24/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL						24/12/22
Blood - TC - 7100/ Hb - 10.5 g ESR - 10.5 mm GP - O+ve						24/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL						24/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL						24/12/22

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

SFS Steels Rolling Mills Ltd. Durgam - 7/3206

3. Sex :

Department/ Works	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products to be exposed to	Date of posting	Date of leave or other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
(68)	Arum ko Suro	38 m	PHD					
(69)	Mritunjay Teoari	27 m	PH					
(70)	Muhammad	29 m	SMS					
(71)	Malipad yodan	55 m	PHD					
(72)	Milban Das	30 m	PHD					

Note :- 1. Separate page should be maintained for individual worker.
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-191 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results there of

If declared unfit for work

Nature of tests & results thereof	Result Fit/Unfit	Period of temporary withdrawal from that work	Reasons for such withdrawal	Date of declaring him unfit from work	Date of issuing fitness Certificate	Signature with date of the Factory Medical Officer the Certifying Surgeon
10	11	12	13	14	15	16
ECG - NNL						
X-ray chest NAD						
Audiometer - NNL						
ECG - NNL						
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Audiometer - NNL						

No

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

4. Date of birth : as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991

if declared unfit for work

Nature of tests & results thereof	Result Figures	Period of Temporary withdrawal from that work	Reasons for such withdrawal	Date of decision by the Factory Medical Officer for that work	Date of issuing of Certificate	Signature with date of the Factory Medical Officer or the Factoring Surgeon
10	11	12	13	14	15	16
<p><u>Blood -</u> TC - 13900/- DE - 1451350/15ML ESR - 05 HB - 14.5 gr GP - 0 +ve</p>						<p>NRB 24/12/22</p>
<p><u>Blood -</u> TC - 8400/- DE - 1751350/10ML ESR - 10 HB - 13 gr GP - 0 +ve</p>						<p>NRB 24/12/22</p>
<p><u>Blood -</u> TC - 7300/- DE - 1601350/10ML ESR - 15 HB - 10.8 gr GP - 1 +ve</p>						<p>NRB 24/12/22</p>
<p><u>Blood -</u> TC - 6200/- DE - 1451350/15ML ESR - 10 HB - 12.3 gr GP - 0 +ve</p>						<p>NRB 24/12/22</p>
<p><u>Blood -</u> TC - 5200/- DE - 1451350/15ML ESR - 10 HB - 12.3 gr GP - 0 +ve</p>						

1

1

Note: - 1. Separate page should be maintained for individual worker

No

5. Medical examination and the results thereof

If declared unfit for work

[illegible]

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

3. Sex :	SPS Steels Rolling Mills Ltd.	One of	Surgeon - 7/13/20
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REGISTER

5. Medical examination and the results thereof

5. Medical examination and the results thereof

Nature of tests & results thereof	Result of the test	Period of temporary withdrawal from that work	Reason for such withdrawal	Date of declaring him unfit for that work	Date of issuing Certificate	Signature with date of the Factory Medical Officer in charge of the Hospital
10	11	12	13	14	15	16
<u>Blood -</u> <u>TC - 7500</u> <u>PC - 17621</u> <u>ESR - 105</u> <u>HL - 1539</u> <u>AP - +ve</u> <u>ECG - PRB</u>						<u>NCB</u> <u>08/12/02</u>
<u>Very close NAD</u>						<u>NCB</u> <u>08/12/02</u>
<u>ECG - NNL</u> <u>PP - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u> <u>ESR - 105</u> <u>HL - 1369</u> <u>AP - +ve</u> <u>ECG - NNL</u>						<u>NCB</u> <u>08/12/02</u>
<u>Blood -</u> <u>TC - 8800</u> <u>PC - 17551</u>						

3. Sex :
sp Steak killing Mills Ltd. Bangalore - 713608

Dead-end Work	Name of Reporting person	Disposition personnel operation	Nature of job or occupation	Rare materials, products or processes to be exposed to	Date of posting	Date of transfer to other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
1	2	3	4	5	6	7	8	9
(89)	Raju Visalakumar	-	34th - RHD					
(90)	Divya Sarni	-	26th - RHD					
(91)	Sreyas Sundar B Pring	-	28th - DEI					
(92)	Sibam Sautra	-	21th - RHD					

No

5. Medical examination and the results thereof

1	2	3	4	5	6	7
Means of tests & results thereof	Rank Figure	Period of temporary withdrawal from that work	Reasons for such withdrawal	Date of resumption of that work	Date of meeting with the Committee	Signature with date of the Factory Medical Officer the Certifying Surgeon
<u>Blood -</u> TC - 7300/- DE - N/55 L/32 E/10 M/5 ESR - 65 mm HB - 15.2 g GP - B + ve	11	12	13	14	15	N/55 L/32 E/10 M/5 28/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL PFT - MNL						N/55 L/32 E/10 M/5 28/12/22
<u>Blood -</u> TC - 9800/- DE - N/55 L/32 E/10 M/5 ESR - 65 mm HB - 15.2 g GP - B + ve						N/55 L/32 E/10 M/5 28/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL PFT - MNL						N/55 L/32 E/10 M/5 28/12/22
<u>Blood -</u> TC - 7600/- DE - N/55 L/32 E/10 M/5 ESR - 65 mm HB - 15.2 g GP - B + ve						N/55 L/32 E/10 M/5 28/12/22
ECG - MNL X-ray chest - NAD Audiometry - MNL PFT - MNL						N/55 L/32 E/10 M/5 28/12/22

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

3. S/N :	Date of
GPS Steels Rolling Mills Ltd.	28/09/2010 - 7/10/2010

GPS Steels Rolling Mills Ltd. Singapore - 7/13/2006

Nature of tests & results thereof	Rank	Period of Temporary withdrawal from that work	Reason for such withdrawal	Date of declaring him unfit for that work	Date of issuing Certificate	Signature with date of the Factory Medical Officer or Surgeon
10	11	12	13	14	15	16
Blood - T.C. - 8800/- DE-N/501/20679 M/L ESR - 5mm HB - 14.9g AP - B + ve						NTBSEV, 28/12/02.
Blood - TC - 7100/- DE-N/581/20679 M/L ESR - 5mm HB - 14.9g AP - O + ve						NTBSEV, 28/12/02.
ECA, Stress re-lytle						
Blood - TC - 5800/- DE-N/521/20679 M/L ESR - 10.8mm HB - 14.9g AP - O + ve						NTBSEV, 28/12/02.
X-ray chest NAD, Audiology - MNL ECA - Stress PKy Ue PFT - MNL						
Blood TC 8100/- DE-N/501/20679 M/L ESR - 15mm HB - 12.6g AP - B + ve ECA - MNL X-ray chest NAD PFT - MNL						NTBSEV, 28/12/02.

2. Fresh calyx should be made for each examination

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

2. Name of worker :

3. Sex :

SPS Steels Rolling Mills Ltd.

Durgam - 713206

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

If declared unfit for work

Department/ Works	Name of hazardous process	Dangerous operation	Nature of job or occupation	Raw materials, products or by-products to be exposed to	Date of posting	Date of transfer to other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
103	Fauz Ruidas	-	-	-	-	-	-	-
104	Ud. Hassain Ansari	-	-	-	-	-	-	-
105	Furran Ali	-	-	-	-	-	-	-
106	Gorelat Raulh	-	-	-	-	-	-	-
107	Ganesn Ruidas	-	-	-	-	-	-	-

Nature of tests & results thereof	Result	Period of Temporary withdrawal from work	Reasons for such withdrawal	Date of declaring unfit for that work	Date of issuing Fitness Certificate	Signature with date of the Factory Medical Officer the Certifying Surgeon
10	11	12	13	14	15	16
PFT - NNL						08/12/22
ECA - NNL						08/12/22
Blood - 7200 f						08/12/22
DO - 10.1/10.1						08/12/22
ESR - 5						08/12/22
HB - 15.5 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
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DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
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ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
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HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
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HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
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HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
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HB - 14.4 g						08/12/22
GR - 13.4 g						08/12/22
ECA - 10.1						08/12/22
DO - 10.1/10.1						08/12/22
HB - 14.4 g						08/12/22
GR - 13.4 g						

1. Serial No. in the Register of adult worker:
2. Name of worker:
3. Sex:

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

GPS Steels Rolling Mills Ltd.

Budgepura - 713206

Department/ Works	Name of person process	Duties process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of transfer/ other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
108	Sudab Yadav				20th		SHS	
109	Sibendra K. Yadav				5th		SHS	
110	Johar Banni				4th		SHS	
111	Jahan Das				20th		SHS	
112	Jagjagad Das				18th		SHS	
113	Jay Adhikari				38th		SHS	
114	Kolish Yadav				28th		SHS	

Note: 1. Separate page should be maintained for individual worker
2. Fresh entry should be made for each examination

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth:
5. Medical examination and the results thereof

if declared unfit for work

No.

Nature of tests & results thereof	Result Fit/Unfit	Period of time withdrawn from that work	Reasons for such withdrawal	Date of declaring him unfit for that work	Date of re- examination Certificate	Signature with date of the Physician the Certifying Surgeon
10	11	12	13	14	15	16
108 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
109 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
110 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
111 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
112 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
113 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12
114 - 9500 20 - 1985 (1985) (X) (M) ESR - 5-10 HB - 15.4g GP - B+ve						NCB 28/12/12

Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958

Quadrat - 71320-6

Nature of tests & results thereof	10	11	12	13	14	15	16
		Result Fulfilled	Period of temporary absence from that work	Reasons for such withdrawal	Date of discon- tinuation from that work	Date of issuing the Certificate	Signature with date of the Fellowship Officer the Certifying Surgeon
ECG - MNL							
Primary blood NAB							
radiography - MNL							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 12000/-							
DE NSSLPS (BRM)							
ESR - 10 K							
HB - 14.2 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							
GP - 0 + 0.							
ECG - MNL							
Primary blood NAB							
Blood -							
TC - 10300/-							
DE NSSLPS (BRM)							
ESR - 05 K							
HB - 14.8 g.							

2. Fresh caltry should be made for each examination

HEALTH

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1956)

2. Name of worker :

3. Sex :

SPS Steele's Rolling Mills Ltd.

Bungapur - 713206

1	2	3	4	5	6	7	8	9
Department/ Works	Name of hazardous process	Dangerous operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of last physical examination or other work	Reason for discharge/ transfer or other work	Sign and impression of examining officer
120	Deeporam				27.11.12		PHD	
121	Dharanibir Dasgupta				27.11.12		SHS	
122	Dharanand Chakrabarti				25.11.12		PHD	
123	Debasish Mondal				22.11.12		PHD	
124	Avijit Mondal				26.11.12		PHD	

Note : 1. Separate page should be maintained for individual worker.

2. Fresh entry should be made for each examination.

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

4. Date of birth :

5. Medical examination and the results thereof

if declared unfit for work

History of tests & results thereof	Result Favourable	Period of temporary withdrawal from that work	Reasons for such withdrawal	Date of withdrawal from work	Date of issuing Certificate	Signature with date of the Factory Medical Officer or Certifying Surgeon
ECG - NNL						
Blood - TC - 9600f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 13.0g						
AP - 0.40						
Blood - TC - 6100f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
ECG - NNL						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
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AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
ESR - 15mm						
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AP - 0.40						
Blood - TC - 10800f						
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ESR - 15mm						
HB - 12.5g						
AP - 0.40						
Blood - TC - 10800f						
DE-N/501/AS/29/14/1						
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AP - 0.40						
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Blood - TC - 10800f						
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ESR - 15mm			</			

3 Sex: SPS Steeds Rolling Mills Ltd.
Dunfermline - 7/13/206

Note: - 1. Separate page should be maintained for individual worker
2. Fresh entry should be made for each examination

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

If declared unfit for work

Signature with date of the
Factory Medical Officer
the Certifying
Surgeon

2

1. Serial No. in the Register of adult worker :

(Prescribed under rule 63 & 84 of the West Bengal Factories Rules 1950)

as amended vide Notification No. 11831-WR-191 dated 27th Nov. 1991.

REGISTER

No.

2. Name of worker :

S/S St. Paul's Rolling Mills Ltd.

Kalyanpur - 713206

3. Sex :

If declared unfit for work

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5. Medical examination and the results thereof :

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7. Date of birth :

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HEALTH

(Prescribed under rule 63 & 94 of the West Bengal Factories Rules 1958)

QPS Steels Rolling Mills Ltd.

Aug 13 2016

Department/ Work	Name of hazardous process	Dangerous process/ operation	Nature of job or occupation	Raw materials, products or by-products likely to be exposed to	Date of posting	Date of transfer/ other work	Reason for discharge/ transfer to other work	Signs and symptoms observed during examination
136	Asbestos Removal					38th		
137	Painting					31st Nov - 3rd Dec		
138	Aviation Roy					32nd Nov - 1st Dec		

REGISTER

as amended vide Notification No. 1183-LW-IR-1/91 dated 27th Nov. 1991.

5. Medical examination and the results thereof

5. Medical examination and the results thereof

if declared unfit for work

Nature of tests & results thereof	Risk Factor	Period of temporary withdrawal from that work	Reason for such withdrawal	Date of decision by him with effect from that week	Date of receipt of the Certificate	Signature with date of the Executive Officer or the Certifying Surgeon
10	11	12	13	14	15	16
<u>Blood</u> <u>TC</u> - 9500 f- <u>B-N</u> 1351 (30) E 914/8 <u>ESR</u> - 05- <u>HB</u> - 17.7 g <u>Cap</u> - 0.1 + 16						<u>NTS</u> <u>08/01/12</u>
<u>0-may clast. NBS</u> <u>Audiotape - 8 vens</u> <u>EN, hearing loss -</u> <u>Adv. Consult-ENT</u> <u>08/01/12</u>						<u>NTS</u> <u>08/01/12</u>
<u>ECG - NNL</u> <u>0-may clast. NBS</u> <u>Audiotape - NNL</u> <u>NTB</u> <u>08/01/12</u>						<u>NTB</u> <u>08/01/12</u>

ANNEXURE-17

from Zhang, just four points later, Gauff was a quarterfinalist at Flushing Meadows for the first time.

Gauff, the French Open runner-up in June, came back

Here, I can't hear myself scream. Makes me want to do it more. I think I'm feeding off the momentum a lot. I enjoy it, said No. 12 seed Gauff, who meets No. 17 Caroline Garcia

I'm just glad I'm finally able to show New York my talent, said Kyrgios, never past the third round at the US Open until now. I haven't had too many great trips here. AGENCIES

Jemimah nominated for ICC 'Player of the month' award

The nominations in the women's category also feature Mooney & McGrath

DUBAI: Star Indian batter Jemimah Rodrigues was on Monday nominated for the ICC 'Player of the Month' award for her impressive performance at the Commonwealth Games in August.

The nominations in the women's category also feature the gold medal-winning Australian duo of Beth Mooney and Tahlia McGrath.

Rodrigues was one of the pillars of the Indian team that went all the way into the finals of the Commonwealth Games in Birmingham. She ended the tournament fifth on the run-scorers list with 146 runs in five matches.

Rodrigues was India's top run-getter with an unbeaten

56 off 46 balls in the crucial clash against Barbados to help her side secure a semifinal spot.

Mooney, on the other hand, was the highest run-scorer at the Birmingham CWG. She kicked off the month with a brilliant unbeaten 49-ball 70 against Pakistan in Australia's final Group A game, following it up with a patient 29-ball 36 in the semifinal clash against New Zealand, batting her side out of trouble after the early wickets.

McGrath impressed with her all-round brilliance. She was one of the key factors in Australia making history and bagging the gold medal in the first-ever women's tournament in the event's history. AGENCIES

MILLENNIUM POST PAGE - 11.

NOTICE

We, SPS Steel Rolling Mills Limited, would like to inform everyone that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide F. No. IA-J-11011/156/2020-IA.II(I), dated 01.09.2022, for the expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil - Faridpur Durgapur, District - Paschim Bardhaman, West Bengal. Copy of the environmental clearance letter has been uploaded on the official website of the Company i.e. www.spsgroup.co.in

Place : Kolkata
Dated : 05.09.2022

Sd/-
For SPS Steels Rolling Mills Limited

EASTERN RAILWAY

E-Auction is invited by Sr. Divisional Commercial Manager, Eastern Railway, Howrah Division for awarding contract for operation of parking lot at various stations over Howrah Division for 3 years. For more details and participation in E-Auction kindly visit the website www.ireps.gov.in through E-Auction Leasing Module. **Auction Catalogue No. : PARK-HWH-RE-8-2. Sl. No., Lot No. / Category & Name of the station are as follows :** (1) PARKING-HWH-KAN-TW-210-22-1 (Parking - Two Wheeler), Khana. (2) PARKING-HWH-GOGT-TW-66-22-2 (Parking - Two Wheeler), Goghat. (3) PARKING-HWH-BDH-TW-211-22-2 (Parking - Two Wheeler), Bhedia. (4) PARKING-HWH-AGAE-TW-86-22-1 (Parking - Two Wheeler), Agradwip. (5) PARKING-HWH-NSF-TW-62-22-1 (Parking - Two Wheeler), Nasibpur. (6) PARKING-HWH-PNE-TW-225-22-1 (Parking - Two Wheeler), Prantik. (7) PARKING-HWH-BAHW-TW-202-22-1 (Parking - Two Wheeler), Bahirkhanda. (8) PARKING-HWH-NHT-TW-89-22-1 (Parking - Two Wheeler), Nalhati. **Start date and time : 16.09.2022 at 11.00 hrs. for all.** (HWH-193/2022-23)

Tender Notices are also available at Website www.er.indianrailways.gov.in / www.ireps.gov.in

Follow us at : @EasternRailway Eastern Railway Headquarter

GOVERNMENT OF WEST BENGAL

OFFICE OF THE SUPERINTENDING ENGINEER, EASTERN CIRCLE, PHE DTE. NIJALAY, PLOT NO. CN-8, SEC-V, SALT LAKE CITY, KOLKATA - 700091

e-TENDER NOTICE

Tender Reference No. WBPHE/SE/EC/NIT-43/2022-23
Tender ID : 2022_PHE4_401145_1

e-Tenders in WBF 2911 are invited for the work:- "Providing Functional House hold Tap Connection (FHTC) including supplying, laying, fitting, fixing of 15 mm NB PVC, Schedule 80/20 mm OD HDPE (PE 100, PN 16) pipe with all necessary works from existing & new proposed distribution system within command area of Zone-IV (Chakda) in Deganga Block of North 24 Parganas District under North 24 Parganas Water Supply Division-I, PHE. Dte." Bid Submission Closing Date (Online): 11.10.2022 at 12.00 p.m." Further details are available in the website: <http://wbenders.gov.in/nicgp/app>. Sd/- Superintending Engineer, Eastern Circle, PHE Dte.

ICA-T15755 (3) / 2022

GOVERNMENT OF WEST BENGAL

Abridge Notice Inviting E-Tender

No. WBIW/EE/PUAIWA001/e-NIT-02/2022-23

Open tender are invited by the Executive Engineer, Purulia Construction Division, I&W Directorate, Bhatbandh Irrigation Colony, PO & Dist-Purulia for the works of the aforesaid N.I.T. 1. Date of documents download start: 06/09/2022 at 10:00 hrs. 2. Date of bid submission start: 06/09/2022 at 10:00 hrs. 3. Last date of documents download & bid submission: 14/09/2022 at 10:00 hrs. All details, may be downloaded from (HYPERLINK <http://www.wbiwd.gov.in> or <http://www.etender.wb.nic.in>) Sd/- Executive Engineer, Purulia Construction Division(I).

ICA-T15750 (2) / 2022

millennium post CLASSIFIEDS CHANGE OF NAME

I, Dilip Paul, S/o Lt. Gour Chandra Paul R/o Vill+ P.O+ P.S.- Hasnabad, North 24 Parganas do hereby declare that my name is recorded in my Passport (U372259) GS, Dilip Kumar Paul shall henceforth be know as Dilip Paul, S/o gour Chandra paul or Dilip Kumar Paul or Sri Dilip Kumar Paul S/o Sri Gour Chandra Paul both is same one and identical person vide affidavit sworn before the 1st class judicial magistrate Basirhat Court on 02-09-2022

ICA-T15752 (3) / 2022

GOVERNMENT OF WEST BENGAL

NOTICE INVITING TENDER

Bid reference no. - WBMSCL/NIT-394/2022, dated: 01/09/2022

West Bengal Medical Services Corporation Ltd. is inviting online bids for "Repair and Renovation of Drain Line and Pits of Islampur Super Specialty Hospital Campus, Islampur, North Dinajpur during the year 2022-2023." Last date of submission of bid (online): 20.09.2022 upto 03.00 P.M. The tender document can be downloaded from www.wbtenders.gov.in on or after 03.00 P.M. on 06.09.2022. Details of the tender will also be available at www.wbmsc.gov.in Clarification requests, if any may be sent to info@wbmsc.gov.in Sd/- General Manager, WBMSCL & Deputy Secretary to the Govt. of W.B.

ICA-T15748 (3) / 2022

GOVERNMENT OF WEST BENGAL

TENDER NOTICE

NITE No. :- 06/ 2022-23,
Date :-05.09.2022

E-Tender for one no. schemes is hereby invited by the undersigned from the eligible contractors. Tender Documents download, Bid submission and other details will be available at <http://www.wbtenders.gov.in> portal from 05.09.2022 , 06.00 pm.

Executive Officer

Puncha Panchayat Samity

Memo No 1412/(2)/ICA/PURU

Dt 05/09/2022

GOVERNMENT OF WEST BENGAL

PWD TENDER NOTICE

The Executive Engineer, PWD, Kolkata East Division invites eTender on Percentage rate & Item rate basis (Combined) vide eTender No. WBPWD/EE/KED/NIT-18/2022-2023 for 1(One) nos work vide Tender ID No. 2022 WBPWD_400895_1 of 2022-2023. Bid Submission Start date (online) is 06.09.2022 from 5.30 P.M. Bid Submission closing date (online) is 13.09.2022 upto 2.30 P.M. Corrigendum if any will be published in website only. Details of N.I.T and Tender documents may be downloaded from <https://wbenders.gov.in> Sd/- Executive Engineer, PWD, Kolkata East Division.

ICA-T15763 (3) / 2022

GOVERNMENT OF WEST BENGAL

Notice Inviting Expression of Interest

E.O.I. No. WBSAMB/CEO/1/R1/2022-23
Dated- 29.07.2022

West Bengal State Agricultural Marketing Board invites Bid (Expression of Interest) for running a Budget Canteen in the office premises of West Bengal State Agricultural Marketing Board, 'Kamal Guha Krishi Bipanan Bhawan', 729, Anandapur, Kolkata-700107. Date of submission of EOI both (Technical & Financial Bid) to be submitted in separate envelope from 09.09.2022 to 23.09.2022 on any working day from 11.00 a.m. to 04.00 p.m. The detail information will be available on Office Notice Board and <https://wb.gov.in> and <http://wbagrmarketingboard.gov.in/index.html> Sd/- Chief Executive Officer, West Bengal State Agricultural Marketing Board.

ICA-T15731 (3) / 2022

PUBLIC NOTICE FOR GOLD AUCTION

Notice is hereby given to the public in general and the account holders in particular that E-Auction of the pledged gold ornaments in the below mentioned account/s will be conducted by The Federal Bank Ltd., on 13/09/2022 through online portal, <https://gold.samil.in>. Interested buyers may log on to the auction portal or contact the Bank at 033-23971453 or 033-23973167 for further information.

Branch Name	Loan Account Number	Account Holder's Name
Kolkata/Behala	13146100066402	BIKASH KUMAR DHANUK
Kolkata/Behala	13146100065966	PAPPU SINGH
Kolkata/Behala	13146100067277	MITHU KOSURI SARKAR
Kolkata/Behala	13146100067350	SHREYA CHOUDHARY

Place: Kolkata

Date: 06.09.2022

Sd/-

Authorised Officer
Federal Bank Ltd.

বিজ্ঞপ্তি

আমরা, এস.পি.এস. রোলিং মিলস লিমিটেডের পক্ষ থেকে সকলকে জানাচ্ছি যে, আমাদের পশ্চিম বর্ধমান জেলার করিমপুর দুর্গাপুর তহশীলে ডাঃ জাকির হোসেন এভিনিউ, জি.টি. রোড (ইন্দো আমেরিকান মোড়), দুর্গাপুরস্থিত বিদ্যমান ইস্পাত কারখানার (৬৬,০০০ টন / বছর স্পঞ্জ আয়রন গ্যাস্ট এবং ৪,৫৬,০০০ টন/বছর রোলিং মিল) সম্প্রসারণ [স্টীল মেসিং শপ ১,০৮,০০০ টন/বছর থেকে ৩,৫০,০০০ টন/বছর তৎসহ ১০ মেগাওয়াট ক্ষমতাসম্পন্ন নতুন নিজস্ব বিদ্যুৎ কেন্দ্র (৫ মেগাওয়াট WHRB এবং ৫ মেগাওয়াট AFBC)] প্রস্তাবটি ভারত সরকারের পরিবেশ, বন ও জলবায়ু পরিবর্তনমন্ত্রক থেকে [F.No. IA-J-11011/156/2020-IA.II(I)] গত ০১.০৯.২০২২ তারিখে পরিবেশগত ছাড়পত্র পেয়েছে। সর্বসাধারণের অবগতির জন্য প্রাপ্ত ছাড়পত্রের প্রতিলিপি কোম্পানির ওয়েবসাইটে (www.spsgroup.co.in) আপলোড করা হয়েছে।

স্থান : কোলকাতা
তারিখ : ০৫.০৯.২০২২

স্বাক্ষরিত

এস.পি.এস. রোলিং মিলস লিমিটেডের পক্ষে

Govt. of West Bengal

Chairman of Subsidiary Police Canteen Cum Supdt. of Police, Purba Bardhaman invites tender in connection with: N.I.Q No-01/2022-2023, Name of Work "Repair & Renovation of S.P.C Purba Bardhaman" Details will be available at office Notice Board of S.P.C Purba Bardhaman. Shedule of work/Tender form will be supplied on & from the date of publication of this Notice. Sd/-Chairman of Subsidiary Police Canteen Cum Supdt. of Police, Purba Bardhaman

DASPUR-I GRAM PANCHAYAT

NOTICE INVITING E-TENDER

WBPMID/DAS-I/GP/NIT-1/22-23, MEMO: 577, DATE: 02.09.22
Tender through are inviting by the undersigned from the bonafide and experienced contractors. Registered Engineers Co-Opp. Societies and Labour Co-opp Societies having credential of similar type of work at Daspur-I Gram Panchayat under Daspur-I Panchayat Samiti. Bid Submission start date: 05.09.22, Bid Submission end date: 12.09.22. Bid opening date: 15.09.22 for details please visit website <http://wbenders.gov.in>

Sd/-The Pradhan, Daspur-I Gram Panchayat

TENDER NOTICE NO. 01/2022-23 IN CONCISE

Superintendent of Police, Alipurduar invites Sealed Tender from recognized and reputed Firms/Supplier for "Supply of Miscellaneous articles for the year 2022-23" of Alipurduar District Police. Dropping of Tender by 19/09/2022 up to 13.00 hrs. which will be opened on 19/09/2022 at 14.00 hrs. Details will be available in this office Notice Board.

Memo No. 366(2) DICO/APD

Date: 05.09.2022

Sd/-

Superintendent of Police
Alipurduar

Office of the Executive Engineer P&RD Deptt.

HPIU, WBSRDA, MALDA Division

RRNMU Building, 6/2, Plot No. 3339, Ward No. 2, P.S. English Bazar, P.O. Mokdumpur, Dist. Malda, Pin-732103
Nle-T No. 03 of 2022-23 [3rd Call] Of EE/HPIU/WBSRDA/MALDA Division On behalf of WBSRDA, Malda Division, e-tender is invited by Executive Engineer, HPIU, WBSRDA, Malda Division from bonafied resourceful contractors for a road work under WBSRDA, Malda Division. All other details will be available from WBSRDA, Malda Division's Notice Board. Intending tenderers may visit the website, namely <https://wbenders.gov.in> for further details.

Start date of submission of bid: 06.09.2022 from 10.00 Hours
Last Date of submission of bid: 22.09.2022 upto 17.00 Hours

Sd/-

Executive Engineer
HPIU, WBSRDA, MALDA DIVISION

আজকাল

কর্মখালি/

ব্যবসা/বাণিজ্য/

হারানো/প্রাপ্তি

ইত্যাদি বিজ্ঞাপন

১২টি শব্দ ২৫০ টাকা

অতিরিক্ত শব্দ ১৮ টাকা

The Bhagirathi Cooperative Milk Producers' Union Limited has extend the date up to 09.09.2022 at 18:40 hrs. against Tender id: 2022 BC-MPU_398926_1 for hiring of Cold Room with Unloading, Storage, again Loading of Milk and Products. For details visit <https://wbenders.gov.in>

Sd/-

Managing Director
For The Bhagirathi
Cooperative
Milk Producers' Union Ltd.

KHARAR MUNICIPALITY

Chairman Kharar Municipality, Kharar, Paschim Medinipur invites E-Tender No. WBMAD/ULB/KHM/NIT-03/22-23 Dated 05/09/2022, Id No. 2022 MAD_401948 Bid Submitting Closing Date (Online) 27.09.2022 upto 6 PM. The Details NIT may be seen/downloaded from the website <https://wbenders.gov.in>

Sd/-

ANNEXURE-18



SPS STEELS ROLLING MILLS LIMITED

CIN: L51909WB1981PLC034409 LEI No.: 3358002I2NC16VIDUE53 GSTIN: 19AAHCS8719G1ZW



To,

Date: 06.09.2022

The Block Development Officer,

Durgapur-Faridpur Development Block,

Dist-Paschim Bardhaman

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

Ref: EC Letter vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022

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 F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022, for the expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal.

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

Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**

(Authorized Signatory)

Signature
R. Chandra
RECEIVED 06/09/22
Block Development Officer
Durgapur-Faridpur Dev. Block

Encl: As above



SPS STEELS ROLLING MILLS LIMITED

CIN: L51909WB1981PLC034409 LEI No.: 335800212NC16VIDUE53 GSTIN: 19AAHCS8719G1ZW



To,

Date: 06.09.2022

The Chief Executive Officer,

Asansol Durgapur Development Authority (ADDA)

Durgapur, Dist-Paschim Bardhaman,

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

Ref: EC Letter vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022

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 F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022, for the expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal.

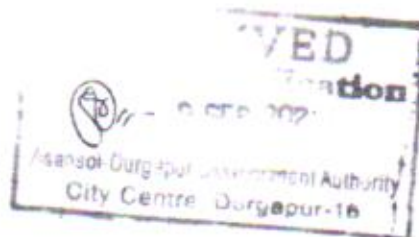
In compliance of the directions stipulated in the 'Miscellaneous Condition No. ii a copy of obtained Environmental Clearance is attached herewith for your kind information and necessary consideration please.

Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**

(Authorized Signatory)

Encl: As above





SPS STEELS ROLLING MILLS LIMITED

CIN: L51909WB1981PLC034409 LEI No.: 335800222NC16VIDUE53 GSTIN: 19AAHCS8719G1ZW



To,

Date: 06.09.2022

The Mayor, Durgapur Municipal Corporation,
City Centre Durgapur,
Dist-Paschim Bardhaman

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

Ref: EC Letter vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022

Dear Sir,

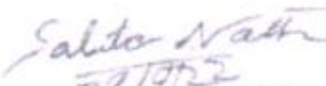
With respect to the subject and above cited reference this to inform that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022, for the expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal.

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

Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**


(Authorized Signatory)


09/09/22
Received and Verified
Durgapur Municipal Corporation

Encl: As above

To,

Date: 06.09.2022

The Dy DL & LRO (Environment)

Dist-Paschim Bardhaman,

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

Ref: EC Letter vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022

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 F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022, for the expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal.

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

Thanking you and with regards,

For **SPS Steels Rolling Mills Limited**,

(Authorized Signatory)

Received
but Contents are not verified
D. P. Bhattacharya
09/09/2022
Receiving Clerk
DL&LRO, Paschim Bardhaman

Encl: As above

To,

Date: 06.09.2022

The Sabhadhipati,

Paschim Bardhaman Zila Parishad,

Dist-Paschim Bardhaman



Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

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Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**

(Authorized Signatory)

Encl: As above



SPS STEELS ROLLING MILLS LIMITED

CIN: L51909WB1981PLC034409 LEI No.: 3358002I2NC16VIDUE53 GSTIN: 19AAHCS8719G1ZW



To,

Date: 06.09.2022

The Sub Divisional Officer,

Durgapur Sub-Division,

Dist-Paschim Bardhaman

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

Ref: EC Letter vide F. No. IA - J-11011/156/2020-IA.II(I), dated 01.09.2022

Dear Sir,

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

Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**

(Authorized Signatory)



Encl: As above

To,

Date: 06.09.2022

The General Manager (DIC),

District Industry Center,

Dist-Paschim Bardhaman

Sub: Information on grant of Environmental Clearance (EC) for the "Expansion of Steel Melting Shop (1,08,000 to 3,50,000 TPA) along with installation of Captive Power Plant of 10 MW (5 MW WHRB & 5 MW AFBC) within existing Steel Plant (66,000 TPA Sponge Iron Plant & 4,56,000 TPA Rolling Mill), located at Dr. Zakir Hussain Avenue, G.T. Road (Indo American More), Durgapur, Tehsil-Faridpur Durgapur, District-Paschim Bardhaman, West Bengal"

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Dear Sir,

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Thanking you and with regards,

For **SPS Steels Rolling Mills Limited,**
(Authorized Signatory)

6205
9-9-22
Received (Contents not Verified)
Anc. Ind. Dev. Cell & Sub-DIC., Durgapur
Durgapur, Govt. of West Bengal

Encl: As above

ANNEXURE-19



GREENVISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0340	Laboratory Ref. No.	: AS-216-2022(1)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022 to 13.12.2022
Sample Description	: Ambient Air	Date of Receiving	: 13.12.2022
Location	: Roof of Administrative Building	Analysis Started On	: 14.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 16.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 09:40 am to 09:40 am

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

A. METROLOGICAL INFORMATION

Average Temperature (°C) : 22.7
Average Relative Humidity (%) : 72.0
Barometric Pressure (mm of Hg) : 756.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration	Limit
01.	Concentration of PM ₁₀	µg/m ³	70.86	100.0
02.	Concentration of PM _{2.5}	µg/m ³	36.28	60.0
03.	Concentration of SO ₂	µg/m ³	9.92	80.0
04.	Concentration of NO ₂	µg/m ³	40.08	80.0
05.	Concentration of Pb	µg/m ³	BDL	1.0
06.	Concentration of Benzene	µg/m ³	BDL	5.0
07.	Concentration of NH ₃	µg/m ³	12.34	400.0
08.	Concentration of CO	mg/m ³	0.426	4.0
09.	Concentration of Benzo(a)Pyrene	ng/m ³	BDL	5.0
10.	Concentration of As	ng/m ³	BDL	6.0
11.	Concentration of Ni	ng/m ³	BDL	20.0
12.	Concentration of Ozone as O ₃	µg/m ³	13.4286	100.0

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager
Authorised Signatory
For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. This certificate may not be reproduced in part or full without written permission of the management.
3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

Page 1/1

End of the report.....

City Office : 5/11, New Shibhala Lane, Bansdrani, Kolkata-700 070, Ph. : 9433158173

Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



GREEN VISION

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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0341	Laboratory Ref. No.	: AS-216-2022(2)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022 to 13.12.2022
Sample Description	: Ambient Air	Date of Receiving	: 13.12.2022
Location	: Near Security Check Post	Analysis Started On	: 14.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 14.12.2023
		Time of Sampling	: 09:55 am to 09:55 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$)	: 22.7
Average Relative Humidity (%)	: 72.0
Barometric Pressure (mm of Hg)	: 756.0
Smell or Odour	: No Remarkable Smell
Weather Condition	: Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	84.82
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	43.59
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	10.14
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.66
05.	Concentration of CO	mg/m^3	0.574

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

(Chemist)

S. Roy Chowdhury
(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
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TC-11003

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/22-23/0342

Issued to : M/s. SPS Steels Rolling Mills Ltd. (Unit-I)

Address : Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206,
Paschim Bardhaman.

Sample Description : Ambient Air

Location : Rear End of the Plant

Sample Condition : In GMF Filter Paper & Plastic Bottle

Laboratory Ref. No. : AS-216-2022(3)

Report Date : 23.12.2022

Date of Sampling : 12.12.2022 to
13.12.2022

Date of Receiving : 13.12.2022

Analysis Started On : 14.12.2022

Analysis Completed On : 14.12.2023

Time of Sampling : 10:20 am to
10:20 am

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 22.7

Average Relative Humidity (%) : 72.0

Barometric Pressure (mm of Hg) : 756.0

Smell or Odour : No Remarkable Smell

Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	75.32
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	38.94
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.56
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.98
05.	Concentration of CO	mg/m^3	0.412

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Authorised Signatory

For, GREEN VISION

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0347	Laboratory Ref. No.	: AS-216-2022(8)
Issued to	: M/s. SPS Steels Rolling Mills Ltd. (Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 13.12.2022 to 14.12.2022
Sample Description	: Ambient Air	Date of Receiving	: 14.12.2022
Location	: Khoyrasole Village	Analysis Started On	: 15.12.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Analysis Completed On	: 15.12.2023
		Time of Sampling	: 09:20 am to 09:20 am

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 22.7
 Average Relative Humidity (%) : 72.0
 Barometric Pressure (mm of Hg) : 756.0
 Smell or Odour : No Remarkable Smell
 Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	69.87
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	35.88
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.14
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.62
05.	Concentration of CO	mg/m^3	0.289

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009

PM₁₀ (24 Hrs.) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

(Chemist)

S. R. Chowdhury
 (Sabyasachi Shyam Roy Chowdhury)
 Quality Manager
 Authorised Signatory
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