

Ref.: SPS/ES/2020-21

Date: 21th May, 2021

The Environmental Engineer,
Shahid Khudiram Sarani,
City Center, Durgapur
(WB)-713216

Sub: Environment Statement (FY: 2020-2021) of M/s SPS Steels Rolling Mills Limited, Dr. Zakir Hussain Avenue, G. T. Road (Indo American More), Durgapur, Dist- Paschim Burdwan-713206 (WB)


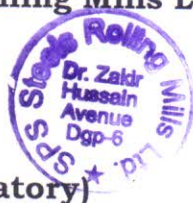
Dear Sir,

Please find enclosed herewith the Environment Statement (Form-V) for financial year ending the 31st March, 2021 of M/s SPS Steels Rolling Mills Limited, Dr. Zakir Hussain Avenue, G. T. Road (Indo American More), Durgapur, Dist- Paschim Burdwan -713206 (WB) for your kind consideration.

Kindly acknowledge our submission.

Thanking you,

Yours faithfully,

for **SPS Steels Rolling Mills Limited**
(Authorized Signatory)Encl: As above.

FORM - V
ENVIRONMENTAL STATEMENT
(See rule 14)

**Environmental Statement for the financial year 2020-2021 ending with
31st March**

PART-A

i. Name and address of the owner/occupier of the industry operation or process

Mr. Deepak Kumar Agarwal
SPS Steels Rolling Mills Limited,
Dr. Zakir Hussain Avenue,
G. T. Road (Indo American More), Durgapur,
Dist- Paschim Burdwan-713206 (WB)

ii. Industry category Primary – **Large** Secondary – **Red**

iii. Production category – **Iron & Steel**

iv. Year of establishment – (Our Group has acquired this establishment in April 2019)

v. Date of the last environmental statement submitted –

PART - B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: -

Cooling: 405 m³/d

Domestic: 25 m³/d

Name of Products	Process water consumption (m ³) per unit of products	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Sponge Iron	0.18 m ³ /T	0.18 m ³ /T
Billet	0.68 m ³ /T	0.72 m ³ /T
TMT Bar + Wire Rod	0.34 m ³ /T	0.32 m ³ /T



ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output (Kg/T)	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
DRI Division			
Iron Ore	Sponge Iron	754.04	706.42
Iron Ore Pellet		834.96	884.18
Coal		817.07	853.96
SMS Division			
Sponge Iron	MS Billet	841.48	824.77
Pig Iron		176.65	161.96
Scrap		150.06	153.82
Ferro Shots		-	23.10
Rolling Mill Division			
MS Billet	TMT Bar & Wire Rod	1043.56	1064.11

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

PART-C

Pollution discharged to environment/unit of output

(Parameter as specified in the consent issued)

(a) Water

Parameters	Unit	Quantity of Pollutants discharged (mass/day)	Concentration (mass/volume)	Percentage of variation from prescribed standards with reasons
Leakages, spillages and overflow water goes to water collection pit through Plant Drain Network and reused for Green Belt Development and dust suppression purpose.				



(b) Ambient Air Quality

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged ($\mu\text{g}/\text{m}^3$)				Percentage of variation from prescribed standards with reasons
		Near Security Check Post	Roof of Admin Building	Rear End of the Plant	Khoyrasole Village	
PM ₁₀	Sampling time 24 hours	81.67	72.04	77.62	65.32	Within range
PM _{2.5}		42.32	25.18	39.45	31.84	
SO ₂		10.22	9.84	9.98	9.52	
NO _x		40.68	40.14	40.40	39.86	

(Latest AAQ Monitoring reports are attached)

(c) Stack Monitoring Data

Pollutants	Location	Concentration of Pollutants discharged (mg/Nm^3) March-2021	Percentage of variation from prescribed standards with reasons
PM	DRI Kiln (1&2) Stack-1	40.67	Within the range
	DRI Kiln (3) Stack-2	36.56	
	Induction Furnace Stack	36.14	
	Product House	35.42	

(Latest Stack Monitoring reports are attached)

PART – D

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2021-22)
From Process	NIL	NIL
From Pollution Control Facilities	NIL	NIL

Note: Used oil and waste cotton from cleaning and maintenance activities shall be collected stored and disposed-off in environment friendly manner to authorized vendor.

PART – E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
From Process	26827	26131
From Pollution Control Facilities	11226	11911
Quantity recycled or reutilized within the unit	5342	7393



PART - F

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

Solid waste Type	Quantity (TPA)	Disposal System
Dolochar	14475	Being Sold to CPP units for power generation
ESP Dust from DRI	8101	Used for land filling
BF flue Dust from DRI	3074	Used for land filling after metal recovery
BF flue dust from SMS	736	Used for land filling
IF Slag	11657	Used for Road Construction and Land filling
End cuts, Misroll from RMD & metal from SMS Slag	7393	Reused in SMS

PART - G

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

List of **Environmental Management Programme** (EMPs) are given below-

Description	Expenditure for Pollution Control measures on Conservation of Natural Resources (Rs. in lakhs)
Total Cost towards Air Pollution Control Measures, Environmental Monitoring, EHS Management & training, Waste Management System, Green Belt Development (Plantation & Plant Maintenance), CER, etc.	32.00

PART - H

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

Already included in Part G.

PART - I

MISCELLANEOUS

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

- (1) We are complying all the directions given by the WBPCB, and getting regular Water & Air consents.
- (2) Periodic Environmental Monitoring being done by NABL accredited laboratory to evaluate the environmental status of the plant and surroundings.

Enclosure List:

- 1) Copy of Consent to Operate.
- 2) Copies of Env. Monitoring Report.



WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan' Bldg. No. 10A, Block-LA, Sector-III, Salt Lake City, Kolkata - 700 098
(Orange/Green Category Unit)



CO114837

Memo Number: 1749/dy-co-0/10/0734.

Date: 17/05/2018.

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.

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

(Detailed address of the manufacturing unit)

for a period from date of issue to 2.8.2022 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 below 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 this consent letter and as specified in the Environmental (Protection) Act, 1986.

Breach of the conditions and/or failure to comply with the directions as mentioned below 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.

Conditions:

01. This Consent is valid for the manufacture of

Sl. No.	Name of major products and by-products	Quantity produced per month	Sl. No.	Name of major products and by-products	Quantity produced per month
01.	TMT Rod	38000MT	03		
02.			04.		

02. The Applicant shall observe the following fuel consumption pattern.

Sl. No.	Type of fuel	Quantity per day	Sl. No.	Type of fuel	Quantity per day	Sl. No.	Type of fuel	Quantity per day
01	F.O	360000lit per month	02	CBM	380000 m3 per month	03		

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

04. 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)	Domestic purpose	Processing whereby water gets polluted and the pollutants are easily biodegradable	Processing whereby water gets polluted and the pollutants are not easily biodegradable
590KL	32KL		

05. Daily discharge of effluent shall not exceed

	Industrial liquid effluent	Domestic liquid effluent	Mixed (industrial & domestic) liquid effluent
No. of outfalls		One	
Quantity	KL	2000KL	KL
Place of discharge		septic tank to soak pit to outside drain	

06. The Applicant shall provide drainage system for conveying industrial & domestic liquid waste & separate drainage system for storm-water and shall provide comprehensive treatment facility for industrial and domestic liquid waste (sewage, sullage & liquid effluent generated from canteen) and operate and maintain the same to conform to the Standard for final effluent as given below.

Outlet No.	Nature of effluent	Parameters and standard (in mg/1. max)							Frequency of effluent sampling
		pH	BOD	COD	TSS	O & G			
01	Domestic	5.5 to 9.0	30	250	100	10			Weekly

07. This Applicant shall provide comprehensive pollution control equipment and operate and maintain the same continuously to conform the quality of the final gaseous emission to the *Standard* as given below :

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any)	Volume Nm ³ /hr	Velocity of gaseous emission (mg/sec)	Concentrations of parameters not to exceed				Frequency of sampling
					SPM (mg./Nm ³)	CO (% v/v)			
S-1	32m	3x Re-heating furnace			150	1			yearly
S-2									
S-3									
S-4									

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

Type of waste	Quantity	Treatment	Disposal
As per	the	previous	Consent to operate

09. The Applicant shall take adequate measures for control of noise levels from its own sources within its premises to conform to

Time	Limit in dB (A) L _{eq}	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

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

11. The Applicant shall at all times maintain good house-keeping, proper working order, control pollution (including fugitive emissions) from all sources to maintain clean environment in & around factory premises and to surrounding areas/inhabitants.

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

13. The Applicant shall provide for sufficient alternate electric power source to operate all pollution control facilities. In absence of such alternate power source, the production should be stopped/reduced/controlled to conform the conditions of the Consent.

14. All the stacks connected to various sources of emissions must be painted/displayed to designate by numbers such as S-1, S-2 etc. and shall have ports, 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 install a separate energy meter showing the consumption of energy for operation of pollution control devices and 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*.

16. The Applicant shall allow the Officers of the *State Board* to enter into the premises of the unit at any reasonable time to inspect the pollution control systems and shall provide adequate and safe facility for collection of air, wastewater and solid waste samples for monitoring and measuring by the *State Board's* staff as well as *State Board's* authorised agencies.

17. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to inspecting officers of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection.

18. The Applicant shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any pollutants in excess of quality and quantity as mentioned above to any receiving water body/system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster and the Applicant shall take adequate steps to prevent such accidental event.

19. The Applicant shall apply for renewal of consent to *State Board* in prescribed form 60 (sixty) days before expiry of this Consent.

20. The Applicant shall not make any alteration/modification/expansion in the existing manufacturing process and equipment, pollution control system and shall not bring into any altered or new outlet/outfall or stack or change the place of discharge, without prior approval of the Board.

21. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, Hazardous Wastes (Management & Handling) Rules, 1989 and 'Public Liability insurance Act. 1991.

Additional Conditions: ① The unit should comply with all the directions of the Board issued time to time. This consent may be revoked subject to any valid public complaint for violation of environmental norms.

For and on behalf of the Board

Assistant Environmental Engineer

Durgapur Regional Office

West Bengal Pollution Control Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Eng. Engr./Jr. Scientist)



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-5/11/1879.

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.I., (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/change 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



GREEN VISION

(A leading environmental research laboratory)

Recognized by West Bengal Pollution Control Board

An ISO 9001 : 2015 & OHSAS 18001 : 2007 Certified Organisation

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 AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/20-21/0513	Laboratory Ref. No.	: AS-073-2021(1)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021 to 02.03.2021
Sample Description	: Ambient Air	Analysis Started On	: 03.03.2021
Location	: Near Security Check Post	Analysis Completed On	: 03.03.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 08:50 am to 08:50 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 ($^{\circ}\text{C}$) : 34.5
Average Relative Humidity (%) : 70.0
Barometric Pressure (mm of Hg) : 755.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	81.67
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	42.32
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	10.22
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.68

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

Checked by

Junior Scientist

Phush

GREEN VISION

Authorised Signatory

S. R. Choudhary
For, GREEN VISION

GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/20-21/0514	Laboratory Ref. No.	: AS-073-2021(2)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021 to 02.03.2021
Sample Description	: Ambient Air	Analysis Started On	: 03.03.2021
Location	: Roof of Administrative Building	Analysis Completed On	: 03.03.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	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 ($^{\circ}\text{C}$) : 34.5
Average Relative Humidity (%) : 70.0
Barometric Pressure (mm of Hg) : 755.0
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	$\mu\text{g}/\text{m}^3$	72.04	100.0
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	25.18	60.0
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.84	80.0
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.14	80.0
05.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	BDL	1.0
06.	Concentration of Benzene	$\mu\text{g}/\text{m}^3$	BDL	5.0
07.	Concentration of NH ₃	$\mu\text{g}/\text{m}^3$	14.25	400.0
08.	Concentration of CO	mg/m^3	0.557	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	$\mu\text{g}/\text{m}^3$	9.2412	100.0

Checked by **Junior Scientist**

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

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Report No.	: GV/AR/20-21/0515	Laboratory Ref. No.	: AS-073-2021(3)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021 to 02.03.2021
Sample Description	: Ambient Air	Analysis Started On	: 03.03.2021
Location	: Rear End of the Plant	Analysis Completed On	: 03.03.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 09:45 am to 09:45 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 ($^{\circ}\text{C}$) : 34.5
Average Relative Humidity (%) : 70.0
Barometric Pressure (mm of Hg) : 755.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	77.62
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	39.45
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.98
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.4

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

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Report No.	: GV/AR/20-21/0516	Laboratory Ref. No.	: AS-073-2021(4)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 02.03.2021 to 03.03.2021
Sample Description	: Ambient Air	Analysis Started On	: 04.03.2021
Location	: Khoyrasole Village	Analysis Completed On	: 04.03.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 10:25 am to 10:25 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 ($^{\circ}\text{C}$) : 34.0
Average Relative Humidity (%) : 68.0
Barometric Pressure (mm of Hg) : 755.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	65.32
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	31.84
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.52
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.86

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

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TEST REPORT OF STACK GAS ANALYSIS

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

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Report No.	: GV/AR/20-21/0518	Laboratory Ref. No.	: AS-073-2021(6)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021
Sample Description	: Stack Air	Analysis Started On	: 02.03.2021
Location	: 2 Nos. 40 TPD Rotary Kiln	Analysis Completed On	: 02.03.2021
Sample Condition	: In GMF Thimble & Plastic Bottle	Time of Sampling	: 12:15 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Sponge Iron Plant
02. Stack connected to	: 2 Nos. 40 TPD Rotary Kiln
03. Material of construction	: M.S.
04. Shape of stack	: Circular
05. Height of stack from G.L (mtr)	: 30.0 from roof level (mtr) : ---
06. Height of sampling from G.L (mtr)	: 24.0 from L.D.Z (mtr) : ---
07. Internal stack diameter at sampling point (mtr)	: 1.0
08. Emission due to	: Reduction of Iron Ore & Oxidation of Coal
09. Steam generation capacity: (rated)	: --- (running) : ---
10. Load of source: (rated)	: 2 X 40 TPD (running) : I.O. : 2.5 MT/Hr./Kiln

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Coal		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: 2.2 MT/Hr./Kiln		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 117
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 9.26
04. Quantity of gas flow (Nm ³ /hr.)	: 18942.58
05. Concentration of Particulate Matter (mg/ Nm ³)	: 32.54
06. Particulate Matter normalized at 12% CO ₂	: 40.67
07. Concentration of SO ₂ (mg/ Nm ³)	: 152.36
08. Concentration of NO ₂ (mg/ Nm ³)	: ---
09. Concentration of CO ₂ (% V/V)	: 9.6
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: E.S.P.
Permanent Ladder and Platform	: Yes

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Report No.	: GV/AR/20-21/0517	Laboratory Ref. No.	: AS-073-2021(5)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021
Sample Description	: Stack Air	Analysis Started On	: 02.03.2021
Location	: 100 TPD Rotary Kiln	Analysis Completed On	: 02.03.2021
Sample Condition	: In GMF Thimble & Plastic Bottle	Time of Sampling	: 10:20 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Sponge Iron Plant		
02. Stack connected to	: 100 TPD Rotary Kiln		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 22.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.0		
08. Emission due to	: Reduction of Iron Ore & Oxidation of Coal		
09. Steam generation capacity: (rated)	: ---	(running)	: ---
10. Load of source: (rated)	: 100 TPD	(running)	: I.O. : 5.4 MT/Hr.

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Coal		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: 4.7 MT/Hr.		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 129
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 9.74
04. Quantity of gas flow (Nm^3/hr)	: 20704.56
05. Concentration of Particulate Matter (mg/Nm^3)	: 29.86
06. Particulate Matter normalized at 12% CO_2	: 36.56
07. Concentration of SO_2 (mg/Nm^3)	: 186.42
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 9.8
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: E.S.P.
Permanent Ladder and Platform	: Yes

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TEST REPORT OF STACK GAS ANALYSIS

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Report No.	: GV/AR/20-21/0520	Laboratory Ref. No.	: AS-073-2021(8)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021
Sample Description	: Stack Air	Analysis Started On	: 02.03.2021
Location	: Induction Furnace	Analysis Completed On	: 02.03.2021
Sample Condition	: In GMF Thimble	Time of Sampling	: 03:45 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Billet Mfg. Unit
02. Stack connected to	: Common Stack of 2 Nos. Induction Furnace
03. Material of construction	: M.S.
04. Shape of stack	: Circular
05. Height of stack from G.L (mtr)	: 30.0 from roof level (mtr) : ---
06. Height of sampling from G.L (mtr)	: 18.0 from L.D.Z (mtr) : ---
07. Internal stack diameter at sampling point (mtr)	: 1.0
08. Emission due to	: Melting of Sponge, Pig Iron & Scrap
09. Steam generation capacity: (rated)	: --- (running) : ---
10. Load of source: (rated)	: 15 MT/Heat/Furnace (running) : ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Electricity		
02. Calorific value (K-Cal/Kg): ---	03.Ash content (% by Wt): ---	04.Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 76
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 7.28
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 17124.24
05. Concentration of Particulate Matter (mg/Nm^3)	: 36.14
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/Nm^3)	: ---
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 2.0
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: Cyclone Separator & Bag Filter
Permanent Ladder and Platform	: Yes

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Report No.	: GV/AR/20-21/0519	Laboratory Ref. No.	: AS-073-2021(7)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.	Report Date	: 15.03.2021
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 01.03.2021
Sample Description	: Stack Air	Analysis Started On	: 02.03.2021
Location	: Product House	Analysis Completed On	: 02.03.2021
Sample Condition	: In GMF Thimble	Time of Sampling	: 02:05 pm
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Sponge Iron Plant		
02. Stack connected to	: Product House		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 20.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 0.8		
08. Emission due to	: Process Activities		
09. Steam generation capacity: (rated)	: ---	(running)	: ---
10. Load of source: (rated)	: ---	(running)	: ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 39
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 6.02
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 10605.82
05. Concentration of Particulate Matter (mg/Nm^3)	: 35.42
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/Nm^3)	: ---
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: ---
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: Bag Filter
Permanent Ladder and Platform	: Yes

Checked by

Junior Scientist

R. Ghosh

Authorised Signatory

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