

ENVIRONMENTAL STATEMENT

FORM - V

**FOR THE FINANCIAL YEAR ENDING
THE 31ST MARCH, OF 2020-2021**

IN RESPECT OF

M/S. Maan Steel & Power Limited

***Jamuria Industrial Estate, Mouza- Ikhra,
Jamuria, P.O. – Nandi, P. S.- Jamuria,
Dist. – Burdwan, Pin – 713362, West Bengal***

FOREWORD

M/s **Maan Steel & Power Limited** has retained the service of **M/s. PACIFIC SCIENTIFIC CONSULTANCY PVT. LTD.** for preparing Environmental Statement (**FORM-V**), for the year 2020-2021, on behalf of the Management of the company. We would like to extend all possible help and co-operation towards them in accomplishing the above job.

For **M/S. MAAN STEEL & POWER LIMITED**

PREFACE

We have been retained by M/s **Maan Steel & Power Limited** at Jamuria Industrial Estate, Mouza- Ikhra, Jamuria, P.O. – Nandi, P.S. – Jamuria, Dist. – Burdwan, Pin – 713362, West Bengal, to conduct an Environmental Statement (**Form – V**) for the year 2020-2021, on behalf of the Management of the unit. The Environmental statement (**Form- V**) 2020-2021 has been presented along with the monitoring data.

This environmental statement (Form – V) takes a brief look at the manufacturing process and the handling of raw materials. Pollution status of the unit has been analyzed on the basis of pollution monitoring and analysis data supplied by M/s. Envirocheck, a NABL accredited, MoEF&CC and WBPCB recognized pollution monitoring unit. Water and Energy consumption data are given in the report as supplied by Plant Management.

We hereby acknowledge the co-operation and support extended to us by the Plant Management in preparing this report.



FOR M/s. PACIFIC SCIENTIFIC CONSULTANCY PVT. LTD.

1. INTRODUCTION :-

Historically, environmental statement has been developed for industrial applications. Interest has also occurred in the public sector, resulting from the various Charter initiatives to open up activities to greater public scrutiny. Local authorities now apply auditing in their work. This can be expected to grow more rapidly as a result of new commitments towards sustainable development and the implementation of Local Agenda.

Industrial Pollution in our country is on increase and is creating a high-risk environment, which cannot be totally protected against extraneous stress, imposed by the industries. However, these strains need to be mitigated to tolerable limits. Every industry is undoubtedly vital for economic growth of the country. So, industries should be allowed to continue in strict conformance to existing environmental guidelines. Ministry of Environment and Forests, govt. of India, vide notification CSR329 (E) dated 13th March, 1992, introduced the "Environment Statement" as a technique for harmony between industry and environment, so that these could be mutually supportive. Every person carrying on an industry, operation or process; requirement of consent to operate under section 25 of the water (prevention and control of Pollution) Act, 1974 or under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 are essential. Also authorization under the hazardous waste (Management and Handling) rules, 1989, issued under the Environment (Protection) Act, 1986, to be submitted as per applicability. Environment statement report for the financial year ending the 31st March in the prescribed Form-V also should be submitted to the concerned state pollution control board on or before 30th day of September every year.

1.1 DEFINITION: -

Environmental Statement is defined as a management tool comprising a systematic and documented approach towards evaluation of a company's environment system as a whole which includes assessment of present environmental practices, equipment performance, compliance to statutory

regulations, document control, corrective and preventive actions adopted etc. So Environment Statement serves two basic purposes: one is evaluation of attitude of the organization in maintaining proper environmental practices and another is assessing equipment facilities.

The essential purpose of an environmental audit is the systematic scrutiny of environmental performance throughout a company's existing operations. At best, an Environment Statement is a comprehensive examination of management systems and facilities.

The term environmental audit means different things to different people. Terms such as assessment, survey and review are used to describe the same type of activity. Furthermore, some organizations consider that an "environmental audit" addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environmental matters.

1.2 ADVANTAGE:-

Environmental Statement was introduced, as a technique to integrate interest of the industry and that of environment, by an amendment [GSR 329(E)] dated 13th March'92 to the Environment (protection) Rules, 1986. Environment Statement is to be carried out by the desire of the company's Management, in order to comply with Government regulations and for its own satisfaction about its pollution control activities. Environment Statement points out at the risk involved due to sudden failure of safety as well as control equipment. Environment Statement helps in optimal utilization of resources and cost minimization also.

FORM – V

ENVIRONMENT STATEMENT

**[FOR THE FINANCIAL YEAR ENDING
31ST MARCH 2021]**

FOR

[2020 - 2021]

MAAN STEEL & POWER LIMITED

*Jamuria Industrial Estate, Mouza- Ikhra, Jamuria,
P.O. – Nandi, P. S.- Jamuria, Dist. – Burdwan, Pin –
713362, West Bengal*

FORM – V**Environmental Statement for the Financial Year
Ending the 31st March, 2021****PART – A**

(i)	Name and address of the owner/occupier of the industry, operation or process	:	Mr. Binod Kumar Agarwal Director M/s. Maan Steel & Power Limited Jamuria Industrial Estate, Mouza-Ikhra, Jamuria, P.O.- Nandi, P.S.- Jamuria, Dist. – Burdwan, Pin – 713362, West Bengal.
(ii)	Industry category	:	Iron & Steel and Sponge Iron Units.
	Primary (STC code)	:	NA
	Secondary (SIC code)	:	NA
(iii)	Production capacity	:	MS Billets – 1,31,400 TPA Sponge Iron – 1,29,360 TPA
(iv)	Year of establishment	:	February, 2012
(v)	Date of the last environmental statement submitted	:	September, 2020

PART - B**Water and River Material Consumption**

1. Water Consumption		M³ /day.
i)	Process (spraying & Gardening)	11.5
ii)	Cooling *	448.0
iii)	Domestic	50.5
		510.0

Name of Products		Process water consumption per unit of product output	
		During the previous financial year [19-20]	During the current financial year [20-21]
1	M.S. Billets	0.27	0.26
2	Sponge Iron	0.29	0.28

1. Substituted by Rule 2 (b) of the Environment (Protection) Amendment Rules, 1993 notified vide G.S.R 3'6 (E) dated 22.04.1993.

ii) RAW MATERIALS CONSUMPTION

*Name of the Raw Materials	Name of Products	Consumption of raw material used per ton of product output (MT/MT)	
		During the previous financial year (19 – 20)	During the current financial year (20 - 21)
Sponge Iron	M.S. Billets	1.22	1.22
Scrap Pig Iron Iron Ore Dolomite	Sponge Iron	3.71	3.70

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

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(Parameter as specified in the consent issued)

Pollutants	Qty. of pollutants discharged (Kg/day)	Concentrations of pollutants in discharges (mg./l)	Percentage of variation from prescribed standards with reasons
(a)Water			
pH	-	6.72	-
TSS	10.74	30.0	-70%
Oil & Grease	1.25	3.5	-65%
COD	25.06	70.0	-72%
BOD	8.23	23.0	-23.33%

- Pollutants discharged (kg/day) is calculated on the basis of cooling water 358 m³/day (448 m³/day - evaporation loss@20%=358 m³/day).
- Sampling location : Final Domestic Outlet after soak pit.

Pollutants		Quantity of pollutants discharged (Kg/day)	Concentrations of pollutants in discharges (mg./Nm ³)	*Percentage of variation from prescribed standards with reasons
(b)Air				
PM	Stack-1	255.36	41.77	-16.46%
	Stack-2	40.80	36.16	-27.68%
	Stack-3	13.44	31.40	-37.20%
	Stack-4	10.32	36.83	-26.34%
	Stack-5	19.44	32.78	-34.44%
	Stack-6	18.96	38.31	-23.38%
	Stack-7	1.68	71.73	-52.18%
	Stack-8	222.0	93.55	-37.63
	Stack-9	20.16	28.08	-43.84
	Stack-10	12.96	38.20	-23.60
	Stack-11	13.68	41.78	-16.44
	Stack-12	10.80	32.61	-34.78

- *This calculation is based on the values of emission generated.*

Stack No.1 = Rotary Kiln No.3 (200 TPD), Stack No. 2 = Rotary Kiln (no.1 & 2) attached (95TPD each), Stack No.3 = Cooler Discharge of DRI – 1 & 2, (95 TPDx2), Stack No. 4 = Cooler Discharge of DRI-3 (200 TPD) & Product House, Stack No.5= Separation Building & I-Bin attached, Stack No.6= Induction Furnace (1 & 2) attached, Stack 7=D.G. 500 KVA, Stack 8= AFBC Boiler (CPP), Stack 9= Induction Furnace (3&4 attached with common stack), Coal Crushing unit of DRI- 1,2&3, Iron Circuit and Stock House.

- * Percentage of variation from prescribed limit of CPCB indicates that pollution load is insignificant for various stationery source of pollution.

PART – D**Hazardous Wastes****(as specified under Hazardous Waste Management and Handling Rules, 1989)**

Hazardous Waster	Total Quantity	
	During the previous Financial year (2019-20)	During the current Financial year (2020-21)
(a) From Process :		
1) DG Used Oil	-	0.020 KL
2) DG Used Filter	-	0.005 MT
3) Oil Contaminated Cotton & Jute	-	0.020 MT
(b) From Pollution Control Facilities	Not applicable	Not applicable

PART - E**Solid Wastes**

No.	Waste Items	Total Quantity	
		During the previous financial year (19-20)	During the current financial year (20-21)
(a) From Process			
(i)	Coal Dust	36,530.0 MT	35,350.0 MT
(ii)	Slag	21,450.0 MT	22,300.0 MT
(b)	Solid waste from pollution control equipment (Bag filter)	160 MT	162 MT

No	Waste Items	(1)Qty recycled /re-utilized within the unit	(2)Sold	(3)Disposed
(a) From Process :		NOT APPLICABLE		
(i)	Coal Dust	NA	Sold out to outside party	NA
(ii)	Slag	NA	NA	Land filling
(b) Solid waste from Pollution Control Equipment (Bag filter)		NA	NA	Land filling

PART – F

PLEASE SPECIFY CHARACTERIZATION (IN TERMS OF COMPOSITION OF QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

FOR : HAZARDOUS WASTE (2020-2021)

No.	Waste Items	Generation	Disposal	Mode of disposed
From : Process				
4)	DG Used Oil	0.020 KL	NIL	Stored in dedicated area
5)	DG Used Filter	0.005 MT	NIL	
6)	Oil Contaminated Cotton & Jute	0.020 MT	NIL	
From Pollution Control Facility		NA	NA	NA

FOR : SOLID WASTE

No.	Waste Items	Generation (MT)	Disposal (MT)	Mode of disposed
(a) From Process :		NOT APPLICABLE		
(i)	Coal dust	35,350.0 MT	NA	Sold out to outside party
(ii)	Slag	22,300.0 MT	22,300.0 MT	Land filling
Solid waste from pollution control equipment (Bag filter)		162 MT	162 MT	Land filling

PART – G**IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF
NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

Pollution abatement measures are taken to minimize the dust emission from different existing stacks due to this dust pollution levels are less than the prescribe limit of CPCB/WBPCB. It causes insignificant impact on the surrounding environment.

In the audit year, the authority of Maan Steel & Power Limited has spent copiously to maintain its lush green garden. It also planted 65 nos. of new sapling inside its premises.

PART – H**ADDITIONAL MEASURES/INVESTMENTS PROPOSAL FOR ENVIRONMENTAL
PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF
POLLUTION:**

1. Maan Steel & Power Limited spend in the (20-21) auditing year for various pollution related purposes like- WBPCB fees, Pollution Monitoring and Analysis charges, control equipments maintenance, green belt development and cleaning etc.

PART – I**ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT:**

The management of Maan Steel & Power Limited organizes regular awareness and training programme regarding process operation, maintenance, resource (optimum) utilization, and environment and energy conservation to educate its employees about the sustainable development.

SIGNATURE :

NAME & DESIGNATION :