Environmental Compliance Report

(Period: April, 2025 to September, 2025)

MOEF&CC EC VIDE FILE NO. J-11011/566/2008-IA.II(I) DATED 27TH AUGUST, 2010

for

STEEL PLANT

at

Village Benipur, PO: Saltore, Tehsil Neturia,
District Purulia, West Bengal

Project Proponent

M/s AIC Iron Industries Pvt. Ltd.

25, Ganesh Chandra Avenue, 4th Floor, Kolkata-700 013, West Bengal

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS FOR STEEL PLANT AT VILLAGE: BENIPUR, P.O.: SALTOR, P.S.: NETURIA, DIST.: PURULIA, WEST BENGAL BY M/S AIC IRON INDUSTRIES PRIVATE LIMITED (PERIOD: April, 2025 to September, 2025)

Ref.: MoEF&CC File No. J-11011/566/2008-IA.II(I) dt. 27th August, 2010

SL. NO.	CONDITIONS	STATUS
A. SPECIFIC CONDITIONS:		
i.	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), cyclones, bag filters, etc. shall be provided to limit the emission levels below 50 mg/Nm^3 by installing energy efficient technology.	Continuous emission monitoring system already installed and connected with CPCB/SPCB server. Online ambient air quality monitoring system also installed.
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.	Ambient Air Quality monitoring was carried out at 4 relevant locations near the existing plant for the period April, 2025 to September, 2025. The monitored data of Ambient Air Quality have been attached as **Annexure-I**.
iii.	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits Issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	Stack of adequate height have been installed with the Induction Furnaces. For the purpose of effective prevention and control of fugitive emissions, following efforts is being made: • Storage area is clearly earmarked. • Enclosure is provided for all the loading & unloading operations. • All transfer points are fully enclosed. • Airborne dust is being controlled by sprinkling of water. • Roads is paved on which movement of raw materials or products is takes place. • Maintenance of air pollution

		control equipments is done regularly. • Green belt is developed around the plant to arrest the fugitive emissions.
iv.	Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gases then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack.	As per EC from MoEF&CC dated 27th August, 2010, DRI Kilns have not been installed at the project site.
v.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rainwater Harvesting tank has been implemented in the project site. The harvested rain water is being used for greenbelt development & dust suppression. Provision for ground water recharging is not made as ground water recharging is not allowed by WBPCB.
vi.	The water consumption shall not exceed as per the standard prescribed for the steel plants. Permission from the State Irrigation Department / Central Ground Water Board for drawl of water shall be obtained as may be applicable in this case.	The raw water is sourced from Damodar River through DVC supply. Permission has already been obtained from DVC.
vii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Ach, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar SPCB & CPCB.	The plant is designed as a zero Liquid discharge plant as far as the process effluent is concerned. The waste water is recirculated through cooling and treatment. The treated waste water is being used for various purposes inside the plant. Ground water and surface water quality reports for the period April, 2025 to September, 2025 have been attached as **Annexure-I**.
viii.	All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed eff anywhere else. AFBC boiler shall be	As per EC 2010, Dolochar is not generated as sponge iron plant was not installed.

<table>
<tr><td></td><td>installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. The slag storage yard shall be properly lined to prevent leaching into the ground water</td><td>The slag generated from Induction furnaces is being used for land filling & road construction purposes.</td></tr>
<tr><td>ix.</td><td>Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash should be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' should be submitted to the Ministry's Regional Office at Bhopal.</td><td>No fly ash & bottom ash is being generated from the project site as per this EC dated 2010.</td></tr>
<tr><td>x.</td><td>As proposed, green belt shall be developed in 33% of the plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.</td><td>Around 8.16 acres of land is already developed as where around 8275 number of trees has already been planted.</td></tr>
<tr><td>xi.</td><td>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.</td><td><table><tr><th>Unit / Item</th><th>Responsibilities</th><th>Extent of fulfillment</th></tr><tr><td>SMS</td><td>Utilization of SMS Slag</td><td>SMS slag 100% utilized.</td></tr><tr><td>APCS</td><td>To operate the pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect.</td><td>Being complied.</td></tr></table></td></tr>
<tr><td>xii.</td><td>All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 16th July, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.</td><td>The issues as raised in Public Hearing/ Public Consultation meeting held on 16th July 2009 were as under:
a) Employment generation for Land loosers.
b) Adequate plantations in surroundings.
c) Operation of Pollution Control devices.
d) Proper maintenance of Water body / pond.
e) CSR activity on health & education.</td></tr>
</table>

		In connection to above and to address all the issues raised, company has taken initiatives by providing employment to 72 nos. land looser in the existing project. The company has also provided 1000 nos. of trees to Benipur village and nearby school. The pollution control devices are well maintained and in operation. Pond development and renovation done at nearby village. The company also take care about the health programs and provide donations to the meritorious students.
xiii.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 months of issue of environment clearance letter.	Risk and Disaster Management Plan along with the mitigation measures was prepared and is enclosed as **Annexure-II**.
xiv.	At least 5% of the total Cost of the project shall be earmarked towards the Corporate Social Responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such programme should be ensured accordingly in a time bound manner.	The Management is taking initiatives and providing Free ration, Free Vaccine, Free medical support, Donation to Students, Donations for marriage of girl child. Water Tanker and other activity by interacting with the local community to understand the exact need of the local population.
xv.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The company strictly followed the instructions during the construction phase of the plant and shall do so in future as well.

B.	**GENERAL CONDITIONS:**	
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal State Pollution Control Board and the State Government.	Stipulations laid down by the West Bengal Pollution Control Board and State Government are being followed.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	EC 2010 is invalid now. However, the Company received an EC from MoEF&CC in the year 2023. There shall be no further expansion or modification of the plant except as per EC 2023 without prior approval of the Ministry.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Being complied. The Stack Emission Monitoring reports have been attached as **Annexure-I**.
iv.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO_2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Ambient Air Quality monitoring is being carried out at 4 relevant locations near the plant for the period April, 2025 to September, 2025. The monitored data of Ambient Air Quality have been attached as **Annexure-I**.
v.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	The plant is designed as a zero discharge plant. The water is recirculated through cooling and treatment. The entire treated waste water is utilized for plantation purpose inside the plant.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should	Monitoring of noise level has been conducted for the period April, 2025 to September, 2025. Noise Level Monitoring results have been attached as **Annexure-I**.

	conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	
vii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being followed.
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	A Rainwater Harvesting tank has been implemented in the project site. The harvested rain water is being used for greenbelt development & dust suppression. Provision for ground water recharging is not made as ground water recharging is not allowed by WBPCB.
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care, etc.	Being complied.
x.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Complied.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the local NPO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied. .

xii.	The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being Complied.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	Being Complied
xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.	Submitted Form-V for the financial year April, 2024 to March, 2025 for the existing plant is enclosed as **Annexure-III**.
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and	Complied.

	may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.	
xvi.	Project authorities 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 and the date of commencing the land development work.	Only 15 T Induction Furnaces was installed as per this EC by own fund. Land development work: 2015

List of Annexures:

Annexure-I: Stack Emission, Ambient Air Quality, Fugitive Emission, Water & Noise Monitoring Reports

Annexure-II: Risk and Disaster Management Plan

Annexure-III: Environmental Statement (Form-V) for the year 2024-2025

ANNEXURE-I

Stack, Ambient Air Quality, Fugitive Emission, Water & Noise Monitoring Report (April,2025 to September,2025)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025:2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India
☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**
Date of Sampling	**14.05.2025**
Time of Sampling	**10:40 hrs**

A.	**General Information about stack**			
1	Stack connected to		Induction Furnaces	
2	Emission due to		Process Emission	
3	Material of Construction of Stack		M.S	
4	Shape of Stack		Circular	
5	Whether Stack is provided with Permanent Platform & Ladders		Permanent	
6	Capacity		(3x15 T)	
B.	**Physical Characteristics of Stack**			
1	Height of the stack			
	(a) from Ground Level (m)		32.0	
	(b) from Roof Level (m)		-	
2	Diameter of the stack			
	(a) at bottom (m)		-	
	(b) at top (m)		-	
3	Diameter of the stack at sampling point (m)		2.0	
4	Height of the sampling point from GL (m)		21.0	
C.	**Analysis/Characteristics of Stack**			
1	Fuel used		Electricity	
2	Fuel consumption		-	
D	**Field Study of Stack(s)**	**Reference Method**	**Concentration**	**Standard**
1	Temperature of emission (°C)	IS 11255 (Part 1)	119	-
2	Barometric Pressure (mmHg)	-	751	-
3	Velocity of gas in duct (M/sec)	IS 11255 (Part 3)	10.53	-
4	Quantity of gas flow (Nm^3/hr)	IS 11255 (Part 3)	88282	-
5	Concentration of CO (% V/V)	IS 13270	-	-
6	Concentration of CO_2 (% V/V)	IS 13270	2.2	-
E	**Laboratory Test Result(s)**			-
7	Concentration of SO_2 (mg/Nm^3)	IS 11255 (Part 2)	-	-
8	Concentration of NOx (mg/Nm^3)	US EPA, Method 7	-	-
9	Concentration of PM (mg/Nm^3)	IS 11255 (Part 1)	28	30
10	Concentration of PM (mg/Nm^3) at 12% CO_2	-	-	-
E	**Pollution Control Device**			
	Details of pollution control device attached with the stack	Bag Filter		

Note : - - Contents of this report are meant for your guidance and should not be used for Advertisement, Evidence or Litigation
- The Physical information about stack details (viz. height, diameter etc.) were provided by respective Industry/Party

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

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CIN NO : U74210WB1989PTC047403

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**
Date of Sampling	**14.05.2025**
Time of Sampling	**14:00 hrs**

A.	**General Information about stack**			
1	Stack connected to		**DRI Kiln**	
2	Emission due to		Process Emission	
3	Material of Construction of Stack		M.S	
4	Shape of Stack		Circular	
5	Whether Stack is provided with Permanent Platform & Ladders		Permanent	
6	Capacity		**1 X 400 TPD DRI Kiln**	
B.	**Physical Characteristics of Stack**			
1	Height of the stack			
	(a) from Ground Level (m)		72.0	
	(b) from Roof Level (m)		-	
2	Diameter of the stack			
	(a) at bottom (m)		-	
	(b) at top (m)		-	
3	Diameter of the stack at sampling point (m)		2.31	
4	Height of the sampling point from GL (m)		-	
C.	**Analysis/Characteristics of Stack**			
1	Fuel used		-	
2	Fuel consumption		-	
D	**Field Study of Stack(s)**	**Reference Method**	**Concentration**	**Standard**
1	Temperature of emission (°C)	IS 11255 (Part 1)	151	-
2	Barometric Pressure (mmHg)	-	751	-
3	Velocity of gas in duct (M/sec)	IS 11255 (Part 3)	9.85	-
4	Quantity of gas flow (Nm^3/hr)	IS 11255 (Part 3)	101868	-
5	Concentration of CO (% V/V)	IS 13270	-	-
6	Concentration of CO_2 (% V/V)	IS 13270	7.9	-
E	**Laboratory Test Result(s)**			-
7	Concentration of SO_2 (mg/Nm^3)	IS 11255 (Part 2)	-	-
8	Concentration of NOx (mg/Nm^3)	US EPA, Method 7	-	-
9	Concentration of PM (mg/Nm^3)	IS 11255 (Part 1)	29	30
10	Concentration of PM (mg/Nm^3) at 12% CO_2	-	-	-
E	**Pollution Control Device**			
	Details of pollution control device attached with the stack	ESP		

Note : - - Contents of this report are meant for your guidance and should not be used for Advertisement, Evidence or Litigation
- The Physical information about stack details (viz. height, diameter etc.) were provided by respective Industry/Party

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

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CIN NO : U74210WB1989PTC047403

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**
Date of Sampling	**20.09.2025**
Time of Sampling	**10:30 hrs**

A.	**General Information about stack**			
1	Stack connected to		Induction Furnaces	
2	Emission due to		Process Emission	
3	Material of Construction of Stack		M.S	
4	Shape of Stack		Circular	
5	Whether Stack is provided with Permanent Platform & Ladders		Permanent	
6	Capacity		(3x15 T)	
B.	**Physical Characteristics of Stack**			
1	Height of the stack			
	(a) from Ground Level (m)		32.0	
	(b) from Roof Level (m)		-	
2	Diameter of the stack			
	(a) at bottom (m)		-	
	(b) at top (m)		-	
3	Diameter of the stack at sampling point (m)		2.0	
4	Height of the sampling point from GL (m)		21.0	
C.	**Analysis/Characteristics of Stack**			
1	Fuel used		Electricity	
2	Fuel consumption		-	
D	**Field Study of Stack(s)**	**Reference Method**	**Concentration**	**Standard**
1	Temperature of emission (°C)	IS 11255 (Part 1)	109	-
2	Barometric Pressure (mmHg)	-	754	-
3	Velocity of gas in duct (M/sec)	IS 11255 (Part 3)	9.73	-
4	Quantity of gas flow (Nm^3/hr)	IS 11255 (Part 3)	84011	-
5	Concentration of CO (% V/V)	IS 13270	-	-
6	Concentration of CO_2 (% V/V)	IS 13270	2.3	-
E	**Laboratory Test Result(s)**			-
7	Concentration of SO_2 (mg/Nm^3)	IS 11255 (Part 2)	-	-
8	Concentration of NOx (mg/Nm^3)	US EPA, Method 7	-	-
9	Concentration of PM (mg/Nm^3)	IS 11255 (Part 1)	22	30
10	Concentration of PM (mg/Nm^3) at 12% CO_2	-	-	-
E	**Pollution Control Device**			
	Details of pollution control device attached with the stack	Bag Filter		

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For ENVIROTECH EAST (P) LTD.

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**
Date of Sampling	**20.09.2025**
Time of Sampling	**14:00 hrs**

A.	**General Information about stack**			
1	Stack connected to		**DRI Kiln**	
2	Emission due to		Process Emission	
3	Material of Construction of Stack		M.S	
4	Shape of Stack		Circular	
5	Whether Stack is provided with Permanent Platform & Ladders		Permanent	
6	Capacity		**1 X 400 TPD DRI Kiln**	
B.	**Physical Characteristics of Stack**			
1	Height of the stack			
	(a) from Ground Level (m)		72.0	
	(b) from Roof Level (m)		-	
2	Diameter of the stack			
	(a) at bottom (m)		-	
	(b) at top (m)		-	
3	Diameter of the stack at sampling point (m)		2.31	
4	Height of the sampling point from GL (m)		-	
C.	**Analysis/Characteristics of Stack**			
1	Fuel used		-	
2	Fuel consumption		-	
D	**Field Study of Stack(s)**	**Reference Method**	**Concentration**	**Standard**
1	Temperature of emission (°C)	IS 11255 (Part 1)	123	-
2	Barometric Pressure (mmHg)	-	754	-
3	Velocity of gas in duct (M/sec)	IS 11255 (Part 3)	9.8	-
4	Quantity of gas flow (Nm^3/hr)	IS 11255 (Part 3)	108839	-
5	Concentration of CO (% V/V)	IS 13270	-	-
6	Concentration of CO_2 (% V/V)	IS 13270	8.2	-
E	**Laboratory Test Result(s)**			-
7	Concentration of SO_2 (mg/Nm^3)	IS 11255 (Part 2)	-	-
8	Concentration of NOx (mg/Nm^3)	US EPA, Method 7	-	-
9	Concentration of PM (mg/Nm^3)	IS 11255 (Part 1)	25	30
10	Concentration of PM (mg/Nm^3) at 12% CO_2	-	-	-
E	**Pollution Control Device**			
	Details of pollution control device attached with the stack	ESP		

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CIN NO : U74210WB1989PTC047403

AMBIENT AIR QUALITY MONITORING RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

TABLE: - 1
Onsite Ambient Air Quality Monitoring Results
Location: Near Main Gate
(Period: May, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
05.05.2025	70	34	9	26
08.05.2025	88	43	6	21
12.05.2025	67	31	8	24
15.05.2025	79	37	11	19
19.05.2025	67	32	7	23
22.05.2025	65	29	10	30
26.05.2025	75	35	9	20
29.05.2025	80	38	7	23

TABLE: - 2
Onsite Ambient Air Quality Monitoring Results
Location: Village Benipur
(Period: May, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
05.05.2025	60	28	9	17
08.05.2025	78	37	12	15
12.05.2025	69	30	10	19
15.05.2025	61	28	8	27
19.05.2025	60	27	7	24
22.05.2025	63	30	11	20
26.05.2025	68	32	13	15
29.05.2025	66	32	9	18

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

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TABLE: - 3
Onsite Ambient Air Quality Monitoring Results
Location: Village Sarbari
(Period: May, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
05.05.2025	58	25	14	19
08.05.2025	75	36	11	23
12.05.2025	64	30	8	14
15.05.2025	61	27	12	20
19.05.2025	65	31	10	25
22.05.2025	60	28	9	21
26.05.2025	70	32	8	18
29.05.2025	63	29	10	13

TABLE: - 4
Onsite Ambient Air Quality Monitoring Results
Location: Village Boropukur
(Period: May, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
05.05.2025	66	31	8	24
08.05.2025	73	32	10	21
12.05.2025	71	35	5	26
15.05.2025	63	30	9	31
19.05.2025	63	28	7	23
22.05.2025	84	41	5	27
26.05.2025	73	35	10	21
29.05.2025	62	27	6	25

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

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CIN NO : U74210WB1989PTC047403

AMBIENT AIR QUALITY MONITORING RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

TABLE: - 5
Onsite Ambient Air Quality Monitoring Results
Location: Near Main Gate
(Period: August, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
01.09.2025	68	31	9	23
04.09.2025	74	35	10	15
08.09.2025	64	30	7	21
11.09.2025	59	27	9	18
15.09.2025	58	23	7	18
18.09.2025	62	29	8	22
22.09.2025	70	34	13	16
24.09.2025	74	36	11	29

TABLE: - 6
Onsite Ambient Air Quality Monitoring Results
Location: Village Benipur
(Period: August, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
01.09.2025	58	27	6	14
04.09.2025	67	31	5	18
08.09.2025	55	25	7	12
11.09.2025	61	29	6	15
15.09.2025	53	23	5	13
18.09.2025	48	17	6	16
22.09.2025	52	19	7	20
24.09.2025	67	31	5	23

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

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CIN NO : U74210WB1989PTC047403

TABLE: - 7
Onsite Ambient Air Quality Monitoring Results
Location: Village Sarbari
(Period: August, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
02.09.2025	70	34	9	17
05.09.2025	65	30	6	21
09.09.2025	57	27	8	15
12.09.2025	51	22	7	13
16.09.2025	59	27	6	18
19.09.2025	50	18	9	14
23.09.2025	63	30	6	20
25.09.2025	73	35	7	26

TABLE: - 8
Onsite Ambient Air Quality Monitoring Results
Location: Village Boropukur
(Period: August, 2025)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
02.09.2025	52	20	6	20
05.09.2025	66	30	7	17
09.09.2025	64	29	5	22
12.09.2025	55	23	7	19
16.09.2025	54	23	4	17
19.09.2025	60	27	6	24
23.09.2025	66	30	7	18
25.09.2025	57	26	4	23

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

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CIN NO : U74210WB1989PTC047403

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**

FUGITIVE EMISSION MONITORING RESULTS

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
1	Near Raw Materials Yard	07.05.2025	205	15	34

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
2	Near ADM Building	07.05.2025	103	8	31

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
3	Near Induction Furnaces	07.05.2025	242	19	38

Note : All above Meteorological conditions prevails at the time of monitoring

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

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CIN NO : U74210WB1989PTC047403

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**

FUGITIVE EMISSION MONITORING RESULTS

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
1	Near Raw Materials Yard	12.08.2025	135	14	30

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
2	Near ADM Building	12.08.2025	95	5	23

Sl. No.	Location Name	Date of Monitoring	Pollutants Concentration		
			PM_{10} ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
3	Near Induction Furnaces	12.08.2025	166	17	32

Note : All above Meteorological conditions prevails at the time of monitoring

For ENVIROTECH EAST (P) LTD.

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CIN NO : U74210WB1989PTC047403

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal**

Equivalent Noise Level in the Study Area, in dB(A)
Month: May, 2025

SL. NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Mahukura High School	47.5	37.1
2	Benipur Village	53.1	42.9
3	Panchkot Mahavidyalaya	48.4	36.8
4	Manpura Shiv Mandir	46.7	38.2
5	Boropukur Village	53.4	44.0
6	Kanai dhawra primary school	48.3	37.4

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

Equivalent Noise Level in the Study Area, in dB(A)
Month: August, 2025

SL.NO.	Location	DAY TIME	NIGHT TIME
		Leq- dB (A)	Leq- dB (A)
1	Mahukura High School	48.6	38.6
2	Benipur Village	54.2	44.1
3	Panchkot Mahavidyalaya	49.0	38.4
4	Manpura Shiv Mandir	47.5	37.7
5	Boropukur Village	54.0	43.7
6	Kanai dhawra primary school	46.9	38.4

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GROUND WATER ANALYSIS RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

Code	Sampling Location	Sampling Date
GW1	Benipur (Tubewell water)	**May, 2025**
GW2	Heddi (Tubewell water)	
GW3	Boropukur (Tubewell water)	
GW4	Ranipur (Tubewell water)	

ANALYSIS RESULTS

Sl. No.	Parameter	Unit	SAMPLE CODE			
			GW1	GW2	GW3	GW4
1	Colour	-	Colourless	Colourless	Colourless	Colourless
2	Odour	-	Unobj.	Unobj.	Unobj.	Unobj.
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	4	2	3	4
5	pH	-	7.2	6.9	7.3	6.8
6	Conductivity	µmhos/cm	902	842	996	878
7	Total Hardness (as $CaCO_3$)	mg/L	330	282	360	320
8	Iron (as Fe)	mg/L	0.58	0.62	0.48	0.66
9	Chloride (as Cl)	mg/L	130	120	140	110
10	Residual Free Chlorine	mg/L	Nil	Nil	Nil	Nil
11	Fluoride (as F)	mg/L	0.42	0.48	0.52	0.64
12	Total Dissolved Solids	mg/L	523	480	578	500
13	Calcium (as Ca)	mg/L	91	80	103	95
14	Magnessium (as Mg)	mg/L	25	20	25	20
15	Copper (as Cu)	mg/L	<0.05	<0.05	<0.05	<0.05
16	Manganese (as Mn)	mg/L	<0.05	<0.05	<0.05	<0.05
17	Sulphate (as SO_4)	mg/L	52	47	56	44
18	Nitrate (as NO_3)	mg/L	6	5.1	6.0	5.1
19	Phenol Compounds (as C_6H_5OH)	mg/L	<0.001	<0.001	<0.001	<0.001
20	Mercury (as Hg)	mg/L	<0.001	<0.001	<0.001	<0.001
21	Cadmium (as Cd)	mg/L	<0.01	<0.01	<0.01	<0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	<0.002	<0.002
23	Cyanide (as CN)	mg/L	<0.05	<0.05	<0.05	<0.05
24	Lead (as Pb)	mg/L	<0.05	<0.05	<0.05	<0.05
25	Zinc (as Zn)	mg/L	0.48	0.51	0.56	0.47
26	Hexavalent Chromium (as Cr^{+6})	mg/L	<0.05	<0.05	<0.05	<0.05
27	Boron (as B)	mg/L	<0.02	<0.02	<0.02	<0.02
28	Total Coliforms	MPN/100 ml	Absent	Absent	Absent	Absent
29	Alkalinity (as $CaCO_3$)	mg/L	260	223	275	266

N.B.- N.D. - Not Detected

For ENVIROTECH EAST (P) LTD.

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SURFACE WATER ANALYSIS RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

Code	Sampling Location	Sampling Date
SW1	Pond Water (Near Benipur Village)	**May, 2025**
SW2	Pond water (Near Boropukur Village)	
SW3	Pond water (Nadiha Village)	
SW4	Pond Water (Near Parbelia Village)	

Sl.No.	Parameter	Unit	CODES			
			SW1	SW2	SW3	SW4
1	Colour		Colourless	Colourless	Colourless	Colourless
2	Odour		Unobj.	Unobj.	Unobj.	Unobj.
3	pH		7.0	7.4	7.1	7.3
4	Conductivity	µmhos/cm	510	558	620	705
5	Dissolved Oxygen	mg/L	6.2	6.5	6.1	6.5
6	Biochemical Oxygen Demand (3 days at 270C)	mg/L	6	8	10	13
7	Chemical Oxygen Demand	mg/L	44	60	56	62
8	Total Coliforms	MPN/100	1210	1140	1085	1250
9	Total Dissolved Solids	mg/L	292	320	354	395
10	Oil & Grease	mg/L	<1.4	<1.4	<1.4	<1.4
11	Cyanide (as CN)	mg/L	<0.05	<0.05	<0.05	<0.05
12	Phenol (as C_6H_5OH)	mg/L	<0.001	<0.001	<0.001	<0.001
13	Total Hardness (as $CaCO_3$)	mg/L	192	195	208	236
14	Chloride (as Cl)	mg/L	55	57	70	95
15	Sulphate (as SO_4)	mg/L	35	38	46	52
16	Nitrate (as NO_3)	mg/L	3.5	3.9	5.1	4.1
17	Fluride (as F)	mg/L	0.23	0.58	0.46	0.32
18	Calcium (as Ca)	mg/L	62	57	66	78
19	Magnessium (as Mg)	mg/L	9	13	11	10
20	Copper (as Cu)	mg/L	<0.05	<0.05	<0.05	<0.05
21	Iron (as Fe)	mg/L	0.47	0.52	0.44	0.58
22	Manganese (as Mn)	mg/L	<0.05	<0.05	<0.05	<0.05
23	Zinc (as Zn)	mg/L	0.23	<0.05	0.32	<0.05
24	Boron (as B)	mg/L	<0.02	<0.02	<0.02	<0.02
25	Arsenic (as As)	mg/L	<0.002	<0.002	<0.002	<0.002
26	Mercury (as Hg)	mg/L	<0.001	<0.001	<0.001	<0.001
27	Lead (as Pb)	mg/L	<0.05	<0.05	<0.05	<0.05
28	Cadmium (as Cd)	mg/L	<0.01	<0.01	<0.01	<0.01
29	Hexavalent Chromium (as Cr^{+6})	mg/L	<0.05	<0.05	<0.05	<0.05
30	Alkalinity	mg/L	143	196	185	170
31	Sodium Absorbance Ratio	-	6.0	5.1	6.4	6.8
32	Free Ammonia	mg/L	BDL	BDL	BDL	BDL

For ENVIROTECH EAST (P) LTD.

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(Authorized Signatory)

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GROUND WATER ANALYSIS RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

Code	Sampling Location	Sampling Date
GW1	Benipur (Tubewell water)	**August, 2025**
GW2	Heddi (Tubewell water)	
GW3	Boropukur (Tubewell water)	
GW4	Ranipur (Tubewell water)	

ANALYSIS RESULTS

Sl. No.	Parameter	Unit	SAMPLE CODE			
			GW1	GW2	GW3	GW4
1	Colour	-	Colourless	Colourless	Colourless	Colourless
2	Odour	-	Unobj.	Unobj.	Unobj.	Unobj.
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	3	2	5	3
5	pH	-	6.7	6.9	7.1	6.8
6	Conductivity	µmhos/cm	682	575	700	590
7	Total Hardness (as $CaCO_3$)	mg/L	246	228	274	236
8	Iron (as Fe)	mg/L	0.48	0.43	0.35	0.42
9	Chloride (as Cl)	mg/L	92	67	95	66
10	Residual Free Chlorine	mg/L	Nil	Nil	Nil	Nil
11	Fluride (as F)	mg/L	0.32	0.37	0.55	0.48
12	Total Dissolved Solids	mg/L	396	322	399	342
13	Calcium (as Ca)	mg/L	72	78	80	73
14	Magnessium (as Mg)	mg/L	16	8	18	13
15	Copper (as Cu)	mg/L	<0.05	<0.05	<0.05	<0.05
16	Manganese (as Mn)	mg/L	<0.05	<0.05	<0.05	<0.05
17	Sulphate (as SO_4)	mg/L	42	31	47	43
18	Nitrate (as NO_3)	mg/L	3.8	3.6	4.2	3.5
19	Phenol Compounds (as C_6H_5OH)	mg/L	<0.001	<0.001	<0.001	<0.001
20	Mercury (as Hg)	mg/L	<0.001	<0.001	<0.001	<0.001
21	Cadmium (as Cd)	mg/L	<0.01	<0.01	<0.01	<0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	<0.002	<0.002
23	Cyanide (as CN)	mg/L	<0.05	<0.05	<0.05	<0.05
24	Lead (as Pb)	mg/L	<0.05	<0.05	<0.05	<0.05
25	Zinc (as Zn)	mg/L	0.22	0.24	0.28	0.32
26	Hexavalent Chromium (as Cr^{+6})	mg/L	<0.05	<0.05	<0.05	<0.05
27	Boron (as B)	mg/L	<0.02	<0.02	<0.02	<0.02
28	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent
29	Alkalinity (as $CaCO_3$)	mg/L	199	166	190	171

N.B.- N.D. - Not Detected

For ENVIROTECH EAST (P) LTD.

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SURFACE WATER ANALYSIS RESULTS

Name of Industry	**M/s. AIC Iron Industries Pvt. Ltd.**
Address	**Village Benipur, PO: Saltore, PS: Neturia, District Purulia, West Bengal.**

Code	Sampling Location	Sampling Date
SW1	Pond Water (Near Benipur Village)	**August, 2025**
SW2	Pond water (Near Boropukur Village)	
SW3	Pond water (Nadiha Village)	
SW4	Pond Water (Near Parbelia Village)	

Sl.No.	Parameter	Unit	CODES			
			SW1	SW2	SW3	SW4
1	Colour		Colourless	Colourless	Colourless	Colourless
2	Odour		Unobj.	Unobj.	Unobj.	Unobj.
3	pH		6.9	7.2	6.7	6.6
4	Conductivity	µmhos/cm	449	488	512	566
5	Dissolved Oxygen	mg/L	6.5	6.6	6.2	6.4
6	Biochemical Oxygen Demand (3 days at 270C)	mg/L	5	8	6	7
7	Chemical Oxygen Demand	mg/L	38	48	54	46
8	Total Coliforms	MPN/100	920	952	1048	886
9	Total Dissolved Solids	mg/L	256	283	292	328
10	Oil & Grease	mg/L	<1.4	<1.4	<1.4	<1.4
11	Cyanide (as CN)	mg/L	<0.05	<0.05	<0.05	<0.05
12	Phenol (as C_6H_5OH)	mg/L	<0.001	<0.001	<0.001	<0.001
13	Total Hardness (as $CaCO_3$)	mg/L	176	188	195	206
14	Chloride (as Cl)	mg/L	55	50	56	67
15	Sulphate (as SO_4)	mg/L	36	44	40	38
16	Nitrate (as NO_3)	mg/L	3.2	3.9	5.4	4.1
17	Fluride (as F)	mg/L	0.32	0.37	0.45	0.44
18	Calcium (as Ca)	mg/L	54	62	60	66
19	Magnessium (as Mg)	mg/L	10	8	11	10
20	Copper (as Cu)	mg/L	<0.05	<0.05	<0.05	<0.05
21	Iron (as Fe)	mg/L	0.48	0.53	0.55	0.46
22	Manganese (as Mn)	mg/L	<0.05	<0.05	<0.05	<0.05
23	Zinc (as Zn)	mg/L	<0.05	<0.05	<0.05	<0.05
24	Boron (as B)	mg/L	<0.02	<0.02	<0.02	<0.02
25	Arsenic (as As)	mg/L	<0.002	<0.002	<0.002	<0.002
26	Mercury (as Hg)	mg/L	<0.001	<0.001	<0.001	<0.001
27	Lead (as Pb)	mg/L	<0.05	<0.05	<0.05	<0.05
28	Cadmium (as Cd)	mg/L	<0.01	<0.01	<0.01	<0.01
29	Hexavalent Chromium (as Cr^{+6})	mg/L	<0.05	<0.05	<0.05	<0.05
30	Alkalinity	mg/L	110	127	141	170
31	Sodium Absorbance Ratio	-	4.4	5.1	4.9	5.4
32	Free Ammonia	mg/L	BDL	BDL	BDL	BDL

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

ANNEXURE-II

RISK ASSESSMENT & DISASTER MANAGEMENT PLAN

1.0 INTRODUCTION

Emergency planning is an integral and essential part of the overall control programme for running an organization efficiently. Emergency plan is important for effective management of an incident/ accident to minimize losses of life and property, both in and around the facility. The important aspect in emergency management is to prevent the unintentional escape of hazardous materials and to minimize accidents and losses. Emergency planning also demonstrates the organization's commitment to the safety of employees and it also increases the organizations safety awareness.

Normally, in a steel plant, no major disaster affecting nearby areas are foreseen. However, accidents inside the plant affecting workplace cannot be ruled out. Work-force inside the plant shall be exposed to various high pressure system pipelines and vessels, acids and chemicals, fuel such as coal, furnace oil, gases and other process equipment which, if not properly operated and maintained, can cause serious accidents affecting life and property in the vicinity of accident site. In addition to these, numerous material handling systems, heavy road transport, high-tension electric lines, level crossings, overhead cranes and various other handling and transport systems may be sources of accidents.

A situation will be classified as `Disaster/Risk' if it entails any one or more of the following factors:

- Risks of loss of human live in one single situation.
- If loss of property, as a consequence of the incident, is over Rs. 1.0 Crore due to any Disaster and Risk.
- A situation, which goes beyond the control of the available resource of the plant.
- A situation apparently may not have much loss but its long-term severity can affect loss of life, production and property.

All types of industries face certain types of hazards which can disrupt normal activities abruptly and lead to disaster like fires, inundation, failure of machinery, explosion to name a few. Steel complex comprising DRI plant, WHRB plants, Coal based power plant, IF and LRF also pose fire, electrocution, spill and explosion hazards. Therefore Disaster management plan has to be

formulated with the aim of taking precautionary step to control the hazard propagation and avert disaster and also to take such action after the disaster, which limits the damage to the minimum.

2.0 OBJECTIVE OF ONSITE EMERGENCY PLAN

The main objective of the plan is to take immediate actions to meet any emergency situation for speedy and efficient rescue and relief operations. The main steps in an onsite emergency plan are described below:

- Cordon and isolate the affected area for smooth rescue operation.
- Rescue and treat casualties and safeguards the rest.
- Minimize damage to life, property and surroundings.
- Contain and ultimately bring the situation under control.
- Secure and safe rehabilitation of the affected area.
- Identify any casualty and provide for the needs of the relatives.
- Provide necessary information to statutory agencies.
- Provide authoritative information to the news media.
- Ward off unsocial elements and prying onlookers.
- Counter rumor mongering and panic by relevant accurate information.

3.0 TYPE OF DISASTER AT STEEL COMPLEX

Disaster may occur due to following hazards in the steel complex.

- Fire
- Explosion
- Oil spillage
- Acid spillage
- Electrocution
- Hazardous waste
- Accident
- Liquid hot metal spill

In any plant there are various activities or areas which pose substantial threat to the workers and hence hazardous in nature. The potential hazardous areas and the likely accidents with the concerned area have been enlisted below in **Table-1.0.**

Table-1.0 : Hazardous areas and likely Hazards/ Accidents

Sl.	Hazardous Area	Likely Accident
1.	Boiler Area	Explosion
2.	Turbine room	Explosion
3.	Electrical rooms	Fire and electrocution
4.	Transformer area	Fire and electrocution
5.	Cable tunnel	Fire and electrocution

6.	IF, LRF and CCM Areas	Liquid hot metal spill

4.0 DISASTER PREVENTIVE MEASURES

If any disaster takes place it is difficult to control if contingency plans are not preplanned. For effective control of disaster adequate manpower, technical know-how, alertness and internal help are necessary. It is always better to take preventive measures to avoid any disaster. In proposed plant following prevention measures will be taken to prevent disaster:

- Plant Layout
- Plant Layout with inventories and locations of fuel oil/furnace oil storage tanks, coal storage etc.
- Hazard identification chart, maximum number of people working at a time, assembly points etc.,
- Population around the Project site
- Internal communication system
- Hotline communication system to district collector, police control room, fire brigade and hospitals etc.
- Public address system.
- Provision of emergency torchlight.
- List of dispensaries and registered medical practitioners around works
- Area map of surrounding villages.
- Nominal roll of employees.
- Note pads and ball pens to record and communicate messages and instructions. Industrial Safety and Fire Fighting
- For protection of working personnel, equipment and machineries from any damage or loss and to ensure uninterrupted production, adequate safety and fire fighting measures have been planned for the proposed plant. Important provisions are as follows:
- Provision of adequate personal safety appliances to workers engaged in hazardous installations
- Provision for detection with alarm system to detect fire at an early stage.
- Provision for water spraying, fire extinguisher and portable extinguishers using carbon dioxide and foam extinguishers.

Portable Fire Extinguishers

All plant units, offices, buildings, stores, laboratories etc. will be provided with adequate number of portable fire extinguishers to be used as emergency fire control. The distribution and selection of extinguishers will be done in accordance with the requirement of fire protection manual.

Fire Hydrant System

Internal hydrants will be provided in all major plant units at suitable locations and in different levels inside the plant buildings. Yard hydrants will be provided in the vicinity of each plant unit, normally along the road to meet the additional requirement of water to extinguish fire. The pressure of water in the hydrant network of the road level will be maintained at 7Kg/sq.cm.

5.0 IDENTIFICATIONS OF HAZARDS AND PREVENTIVE MEASURES AT DIFFERENT INSTALLATIONS

The different installations like DRI plant, Steel Melting Shop and Continuous caster Complex are prone to certain hazards. The identification and measures to be taken to overcome these hazards are as follows:

Table 2.0 Different Fire Extinguishers at Different Sites

Name of Site	Type of Fire Extinguishers
Generator area	CO_2 & Foam type, dry chemical powder Sand filled buckets
Cable galleries	
High voltage panel	
Control rooms	
MCC rooms	
Pump Houses	
Fuel storage area	

Gas Explosion, Prevention and Preventive Measures

Gas safetyman would accompany the team and would test the atmosphere for the presence of CO, before starting the work. If CO concentration is found exceeding the safe limit, the job would be undertaken using necessary safety appliances viz., Oxygen breathing apparatus/Blower type Gas Mask. Other preventive measures recommended are;

- Any gas cuttings/ welding job would be undertaken with the clearance from Gas safetyman.
- The gas line would be thoroughly purged with steam before undertaking the job on the same.
- In case of profuse leakage of gas, action would be taken for water sealing and isolating that portion.
- The approach road to the gas line complex would be kept free from any obstructions.

If gas catches fire due to some leakage, it will be extinguishers with plastic clay, steam or water. The portion of gas main affected would be cooled down with

water. The valve will not be closed when fire is still there and the pressure in the main will be maintained at minimum 100 mm (WC).

Hot Metal and Slag

Sudden break out of molten metal and slag may result in heavy explosions, due to their coming in contact with water, thereby causing serious burn injuries to persons and damage of equipment. These breakouts may take place from weak portions of the furnace hearth, ladles and failure of EOT cranes. Following preventive measures are suggested.

- Any accumulations of water will be prevented in such vulnerable pits/ areas.
- In case of minor leakage, the flow of molten metal and slag will be controlled.
- In case of major breakout, the area would be cut off and cordoned.
- Vital connections e.g. water gas, compressed air, oxygen, etc. would be cut off or regulated, as per requirement.

Steel Melting Shop

The spillage of hot metal slag can take place due to, hearth breakage, tap hole opening out, mould breakage during casting of billets at con-cast, and transportation. Such spillages of liquid metal / slag resulting in explosions due to coming in contact with water are mainly due to

- Failure of water-cooled panels.
- Rain water accumulation.
- Leakage of water from the walls of mould of continuous casting machine.
- Failure of refractory lining of ladle/ tundish.
- Dumping of furnace slag on shop floor.

Preventive measures recommended are

- Regular checks and proper upkeep of furnace refractory and cooling panels.
- Prevent any accumulation of water in the tapping pit or anywhere shop floor.
- Regular use of necessary safety appliances e.g. Aprons, safety tools, leg guards, helmet, gloves etc.

6.0 MISCELLANEOUS PREVENTIVE MEASURES

Safety

The proposed steel plant will have a safety department manned by experienced engineers and staff whose main job will be to bring about safety consciousness amongst the work force in the plant. The safety department will conduct

regular safety awareness courses by organizing safety drills and training of the personnel among the various working levels.

The displaying of posters highlighting the safe working practices in different shops, hazards in working area, public places and roads etc will also create safety awareness. Safety engineers of the plant will conduct regular checks and mock exercises on the safe working practices of respective department and report will be given to departmental head for corrective measures to improve the safety conditions.

Training

Keeping in view the magnitude of operation of the proposed plant, advance training of personnel in key areas is envisaged so that adequate number of trained personnel is made available at the time of commissioning of the new units and during subsequent production stages. The procedures for safe working practices along with supportive appliances is already under operation in the existing plant for quite some time and the same can be extended to expansion stage for the proposed plant with additional facilities. In-house training of plant personnel will be arranged.

Communication

The proposed plant shall provide latest communication facilities with telecommunication and wireless facilities, walkie-talkies in each shop as per requirement. All the Departments likely to be affected due to such accident/incident will be alerted to take preventive/corrective measures including the main gate. Residents of the villages around the site premises will be alerted with the help of loud speakers depending on the seriousness of the risk/disaster.

Organization to combat contingency

The proposed contingency plan is prepared from the experiences of accidents that have occurred in various other steel plants. The contingency plan being a dynamic plan will need periodical reviews and modifications with new experiences. Even with all precautionary measures taken to avoid disaster, it may occur. A Disaster Control Room (DCR) will be set up having links with plant control room for coordinating all the activities when such situation arises. An officer will be manning the DCR. On getting information about any accident, the officer will verify from the affected Department's shift-in-charge, plant control room and inform the Disaster Controller (DC) and/or other co-coordinators immediately. The responsible officers of Disaster Control Group will assemble in the DCR and formulate control procedures as per the

contingency plans. The function of the various officers of the Disaster Control Group is elaborated further.

Functions of Disaster control Group

Shift-in-charge of the Department will initiate response organization in an emergency condition. Upon the detection of an emergency condition, the Shift-in-charge will assess the condition first and if the situation is beyond his control he will assume the role of Main Controller until the Command and control is passed to the Main Control Centre, operating as the Emergency Control Centre. On the direction of the Main Controller who declares onsite and offsite emergency condition. The designated Co-coordinator informs all concerned to mobilize resources as per the demand of the situation. If additional support is required for mitigation, the Main Controller, using weather information available from plant Control Centre, assesses the extent of the hazard and initiates protective/preventive action accordingly. The main functions of the Main Control Centre are described as under.

- Report all concerned authorities.
- Receive messages from different communication centers.
- Consultation with the commanding officers of different services and conveys them to the disaster point.
- Assume responsibility for planning and providing of assistance from township and from local authorities.
- Assist the Disaster Controller on any matter to meet the objective of disaster control
- Responsibility for dispatch of messages for smooth operation of DCR
- Decide on the priority of dispatch of messages.
- Keep liaison with all activities and give up to date and accurate appreciation of the situation.
- To be responsible for the efficient organization of the Disaster Control Room.
- To report to the Control Post immediately on hearing “Disaster Siren”
- Keep Disaster Controller posted with the up-to-date information regarding manpower and material available concerning their respective services.
- Advise Disaster Controller on all matters arising out of disaster.
- Organize for provision of material and man power concerning his service.
- Convey message to his service teams through communication center after consulting Disaster Controller.
- Mutual consultations on matters related to more than one service and decide on the action to be taken.

Function of Disaster Control Room

On receiving the call, the Disaster control room would immediately direct the different supporting service agencies as enumerated below:

- Security and administration services: responsible for safety of the plant against trespassers, saboteurs, any crowd, dissemination of information to Govt. authorities and in the neighborhood.
- Safety service: responsible for implementation of safety measures at work place and occupational safety.
- Medical service responsible for providing medical care to the injured or the affected in an event of accidental injuries.
- Stores: responsible for providing adequate number of tools, tackles and accessories including materials for proper emergency control.
- Fire fighting and water supply: To ensure supply of fire fighting water requirement and provisions of power supply.

Table 3.0: Emergency Organisation of AIC Iron industries Limited

Urgency Organization	Primary Controlling authority	Secondary Controlling authority (absence of Primary Authority)
Overall In-charge	Works Manager	Asst. General Manager (O&M)
Site Controller	Deputy works Manager (Plant)	Sr. Manager (Operation)
Incident Controller	Asst. General Manager (O&M)	Sr. Manager
Communication Officer	Managers level executive	Sr. Executive.
Liaison Officer	Deputy works Manager (Plant)	Manager (Plant)
Section In-Charge	Heads of Departments(HoD)	Officer, Designated by HoD
Emergency Response Team	Plant Operating Personnel	Plant Operating Personnel
Fire and Rescue Controller	Fire & Safety Officer	Fire & Safety Officer
Security Controller	Sr. Security Officer	Security Inspector
First Aid & Medical Controller	Sr. Medical Officer	Medical Officer
Emergency Supplies Controller	Asst. General Manager (O&M)	Manager (O)

**O&M – Operation and Maintenance*

Alarm System

An alarm system will be provided with a wailing type siren at a centralized place and actuators at the strategic locations in the plant. Adequate number of

telephones will be provided in each unit at Shop Floor so that a person can either directly or through shift in- charge raise the alarm or ring up Plant Control cell / disaster control room from where the alarm can be raised to all the departments inside the Plant

Safety Devices / Equipment checks

In order to make the services more effective the workers and rescue team will be provided with the safety equipments and items like gas mask respirators, fire entry suits, fire blankets, rubber shoes, rubber gloves, ladders, ropes, petromax lamp torches etc. All fire fighting equipment like valves, fire hydrants, pumps, monitors, etc., will be checked weekly to detect defective parts and such parts would be immediately replaced. To ensure smooth working of all fire fighting equipments and all safety devices regular periodic maintenance schedule shall be drawn by respective Departments.

Causality Services

A medical officer who will be responsible for immediate medical aid and first aid will head the casualty services section. The section will be fully equipped with all first aid medical facilities. An ambulance will be on duty round the clock to tackle the emergency. On receiving the emergency call, the medical officer will report immediately to disaster site along with mobile first aid equipment and ambulance.

In case of any extra help from outside, the Medical officer will contact Disaster control room for help in areas such as:

- Extra medical helps from neighboring hospital or other hospitals
- Essential assistance by providing first aid and
- Arrange for evacuating the injured and casualties as the case may be.

Rescue and Repair Service

Rescue services: The rescue services will be provided, depending upon nature of disaster for taking suitable action as under;

- Extract persons from the debris of collapsed buildings / structure and save human lives.
- Hand over the extricated persons to first aid parties.
- Take immediately steps as may be necessary for the temporary supports or demolition of buildings and structures, the collapses of which is likely to endanger life or obstruct traffic.
- Cut off supplies of water, gas electricity to damaged buildings.

Mock drills: In the proposed expansion project, training facilities will be developed to check the performance of men and equipment and also to keep

them fit for any emergency and for environmental control. Specialized courses at various Research/ Educational institutes will be organized. Training will cover the following fields:

- Awareness regarding Pollution Control and Environmental protection.
- Operation and maintenance of pollution control equipment.
- Afforestation / plantation and post care of plants.
- Field monitoring, maintenance and calibration of pollution monitoring instruments.
- Chemical analysis of various environmental parameters at laboratory.
- Repair of pollution monitoring instruments.
- Knowledge of norms, regulations and procedures.
- Occupational health and safety.

The trained rescue personnel will be provided with the equipment like, Self contained oxygen breathing apparatus, Blower type gas masks, Resuscitators, Petromax lamp, torches, Axe/hand saw, Bamboo ladder, Necessary safety appliances and First aid box.

Repair services: Following essential services shall be restored immediately after the disaster is over/ under control

- Quick repairs of the damaged machinery
- Repair of damaged building roads and culverts
- Restoring essential public utility services viz. water, electricity and sewage system.

Traffic control

The free movement of the fire vehicles and ambulance at the scene of fire/emergency is very important and therefore, the security personnel on duty must ensure that all the roads at the scene of fire/emergency are kept clear and free from obstruction. Persons arriving by motor transport at the scene of fire/emergency must not park their vehicles within 100 meters of fire and near fire hydrants, at road junction and at access roads. The ignition key should be left in the vehicles.

7.0 DISASTER DUE TO NATURAL CALAMITY AND EXTERNAL FACTORS

Most of the measures & processes shall be same as given under in-house disaster except that the disaster controller will contact the state/district authorities for necessary instructions to co-ordinate with them for additional help and support.

Cloud burst/lightning

Cloud burst/lightning may lead to a situation, which could be minor to major. In such emergency, actions indicated under fire and explosion will be initiated.

Food Poisoning

In case of food poisoning in plant canteen the following actions will be taken**:**

- DC will inform the medical officer of plant medical unit for immediate first aid.
- DC will contact District Authorities and seek their help, if necessary.
- Security Personnel and employees will help in evacuating the affected people to various hospitals.

Annexure-V

FORM – V

(See rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2025

PART- A		
1.	Name & address of the owner/occupier of the industry, operation or process.	**M/s AIC Iron Industries Pvt. Ltd.** **Shri Dinesh Adukia (Director)** **Address:** **25, Ganesh Chandra Avenue, 4th Floor, Kolkata-700 013, West Bengal**
2.	Industry category Primary (STC Code), Secondary (SIC Code)	RED, Large Scale Metallurgical Industries (Ferrous & Non-ferrous)
3.	Production Capacity – Units	The unit Configuration & current Production capacity (as per valid CTO) is presented below, ➢ Induction Furnaces (3X15 T): 1,35,000 TPA Billets ➢ DRI Kiln 1x400 TPD (Sponge Iron 1,32,000 TPA) ➢ Captive Power Plant (WHRB based 10 MW) ➢ Rolling Mill - 0.15 MTPA (Structural Steels (Strips & Pipes etc.)) ➢ Slag Crusher
4.	Year of establishment	2007
5.	Date of last environmental statement submitted	Sept 2024

PART – B WATER & RAW MATERIAL CONSUMPTION		
1. Water Consumption m^3/day process		
Process & Cooling	220 m^3/day	
Domestic	32 m^3/day	
Name of Products	Process Water consumption per unit of product output	
	During the previous financial year (2023-2024)	During the current financial year (2024-2025)
Billets	0.29 m^3/T Billet	0.30 m^3/T Billet
Sponge Iron	0.16 m^3/T Sponge Iron	0.17 m^3/T Sponge Iron
Rolled Product (Structural Steels)	0.05 m^3/T Structural Steels	0.05 m^3/T Structural Steels

For AIC IRON INDUSTRIES PVT. LTD.

Director

2. Raw Material Consumption			
Name of Raw Materials	Name of Products	Consumption of Raw material per unit of out put	
		During the previous financial year (2023-2024)	During the current financial year (2024-25)
1) Iron Ores/Pellet 2) Coal 3) Dolomite	Sponge Iron	1.364 T/T 0.900 T/T 0.027 T/T	1.366 T/T 0.920 T/T 0.029 T/T
1) Sponge Iron 2) Pig Iron /Scrap 3) Ferro Alloys	Billets	1.182 T/T 0.478 T/T 0.015 T/T	1.184 T/T 0.471 T/T 0.017 T/T
1) In house Billets	Strips & Pipes	1.105 T/T	1.105 T/T

PART – C Pollution discharged to environment/unit of output (Parameters as specified in the consent issued)				
S. N.	Pollutants	Quantity of pollutants discharged	Concentrations of pollutants in discharges (mg/Nm^3)	Percentage of variation from prescribed standards with reason
a.	Water (Domestic Effluent)	26 KLD through Septic Tank - Soak Pit system	-	No variation
b	Air	PM - 56 TPD	<30 mg/Nm^3	No variation

PART – D HAZARDOUS WASTE [as specified under Hazardous Wastes (Management & Handling) Rules 1989]			
Hazardous Wastes		Total Quantity (in Kg)	
		During the previous Financial year	During the current Financial year
a.	From Process	No Hazardous waste produced.	No Hazardous waste produced.
b.	From Pollution Control Facilities	Nil	Nil

For AIC IRON INDUSTRIES PVT. LTD.

Director

PART – E SOLID WASTES			
Solid Wastes		Total Quantity	
		During the previous Financial year (April, 2023 to March, 2024)	During the current Financial year (April,2024 to March,2025)
a.	From process	➢ Slag from Induction Furnaces – 2470 TPA ➢ Dolochar from Sponge Iron Plant - 30,000 TPA	➢ Slag from Induction Furnaces – 9150 TPA ➢ Dolochar from Sponge Iron Plant - 30,500 TPA
b.	From pollution control facility	NA	NA
c.	1. Quantity recycled or re-utilised within the unit 2. Sold 3. Disposed	➢ Slag from Induction Furnaces is being used in Land filling / Road making purposes. ➢ Dolochar will be used in Power generation.	➢ Slag from Induction Furnaces is being used in Land filling / Road making purposes. ➢ Dolochar will be used in Power generation.

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.
The solid waste which are generated from various sources mainly slag from Induction Furnaces and Dolochar from Sponge Iron Plant, belongs in the group of non-hazardous categories.

PART – G Impact of pollution abatement measures on conservation of natural resources and on the cost of production
1. There are 3 nos. hood & one common stack attached with 3x15 T Induction Furnaces for continuous emission of PM only. To reduce dust emissions, Bag Filters has been used with the stack. 2. One stack is attached with 1x400 TPD capacity Sponge Iron Plant for continuous emission. To reduce dust emissions, ESP has been used with the stack. 3. Diesel Generator sets is being used during the power failure. 4. Under "Zero discharge" concept no industrial effluent discharge outside the plant premises. Treated industrial waste water is being used in the plant premises. Domestic waste water is being treated through Septic Tank - Soak Pit system. 5. To reduce the use of conventional source of energy for conservation of natural resources, the Company has taken several measures.

For AIC IRON INDUSTRIES PVT. LTD.

Director

PART – H Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution
PART – I Any other particulars for improving the quality of environment.
1. There is water spray arrangement to control fugitive emissions. 2. Bag Filters, ESP etc. is provided with the stacks with desired capacity. 3. The company has developed green belt within the plant area. 4. World environment day is celebrated to promote awareness of environment issues.

For AIC IRON INDUSTRIES PVT. LTD.

Director