

## BUSINESS RESPONSIBILITY AND SUSTAINABILITY REPORT- (2024-25)

The Business Responsibility and Sustainability Report (BRSR) is one of the avenues to communicate the Company's obligations and performance to all its stakeholders.

The Business Responsibility and Sustainability Report of the Company describes the initiatives taken by the Company from an environmental, social and governance perspective.

### SECTION A: GENERAL DISCLOSURE

#### I. DETAILS OF LISTED ENTITY:

1	Corporate Identity Number (CIN) of the Company	L27100MH1984PLC034003
2	Name of the Company	Sunflag Iron and Steel Company Limited
3	Year of Incorporation	1984
4	Registered Office address	33/1, Mount Road, Sadar, Nagpur – 440001, Maharashtra, IN
5	Corporate Address	33/1, Mount Road, Sadar, Nagpur – 440001, Maharashtra, IN
6	e-mail id	investor@sunflagsteel.com
7	Telephone	Tel. No.: +91 712-2524661; Fax No.: +91 712-2520360
8	Website	www.sunflagsteel.com
9	Financial Year reported	2024-2025
10	Name of the Stock Exchange(s) where shares are listed	1. BSE Limited 2. National Stock Exchange of India Limited
11	Paid-up Capital	INR 1,80,21,94,480
12	Name and contact details (telephone, email address) of the person who may be contacted in case of any queries on the BRSR report	Mr. Ramchandra Vasant Dalvi, Director (Technical) Phone: 07184-285566 Email: ramchandra_dalvi@sunflagsteel.com
13	Reporting boundary - Are the disclosures under this report made on a standalone basis (i.e. only for the entity) or on a consolidated basis (i.e. for the entity and all the entities which form a part of its consolidated financial statements, taken together).	The disclosures in this report are made on standalone basis.
14	Name of assurance provider	Nil
15	Type of assurance obtained	Not Applicable

#### II. Products/services

16. Details of business activities (accounting for 90% of the turnover):

S. No.	Description of Main Activity	Description of Business Activity	% of Turnover of the entity
01	Manufacture of Steel and Steel products	Manufacturing	100

17. Products/Services sold by the Company (accounting for 90% of the entity's Turnover):

S. No.	Product/Service	NIC Code	% of total Turnover contributed
01	Steel Ingots and long products	241	92.75
02	Pig Iron	243	5.04
03	Sponge Iron	243	2.18

#### III. Operations

18. Number of locations where plants and/or operations/offices of the entity are situated:

Location	Number of plants	Number of offices	Total
National	One (Bhandara)	Eight (8) Nagpur, Bhandara, Mumbai, Pune, Delhi, Faridabad, Chennai and Bengaluru	Nine (9)
International	-	-	-

19. Markets served by the entity :

1. Number of locations

Locations	Number
National (No. of States)	19 (Nineteen) Sunflag renders supplies pan India.
International (No. of Countries)	12 (Twelve) Exports products to various countries across globe.

2. What is the contribution of exports as a percentage of the total turnover of the entity?

Contribution of Export is 1.36 % of total turnover of the Entity.

3. A brief on types of customers:

The steel produced finds applications in sectors like automobile, general engineering, machinery, projects, railway, defence and construction, and our customers are spread across these sectors for the use of steel in various applications.

#### IV. Employees

20. Details as at the end of Financial Year:

a. Employees and workers (including differently abled):

S. No.	Particulars	Total (A)	Male		Female	
			No. (B)	%(B / A)	No. (C)	%(C / A)
1.	Permanent (D)	843	838	99.41%	5	0.59%
2.	Other than Permanent (E)	29	29	100.00%	0	0.00%
3.	<b>Total employees (D + E)</b>	872	867	99.43%	5	0.57%
4.	Permanent (F)	404	402	99.50%	2	0.50%
5.	Other than Permanent (G)	2524	2519	99.80%	5	0.20%
6.	<b>Total workers (F + G)</b>	2928	2921	99.76%	7	0.24%

b. Differently abled Employees and workers:

S. No.	Particulars	Total (A)	Male		Female	
			No. (B)	%(B / A)	No. (C)	%(C / A)
1.	Permanent (D)	-	-	-	-	-
2.	Other than Permanent (E)	-	-	-	-	-
3.	<b>Total differently abled employees (D + E)</b>	-	-	-	-	-
4.	Permanent (F)	3	3	100%	-	-
5.	Other than Permanent (G)	-	-	-	-	-
6.	<b>Total differently abled workers (F + G)</b>	3	3	100%	-	-

21. Participation/Inclusion/Representation of women

	Total (A)	No. and percentage of Females	
		No. (B)	%(B / A)
Board of Directors	10	2	20.00%
Key Management Personnel	4	-	0%

22. Turnover rate for permanent employees and workers

(Disclose trends for the past 3 years)

	FY 2024-25 (Turnover rate in current FY)			FY 2023-24 (Turnover rate in previous FY)			FY 2022-23 (Turnover rate in the year prior to the previous FY)		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Permanent Employees	148	0	148	156	1	157	129	0	129
%Turnover	17.56%	0%	17.56%	19.16%	20%	19.19%	18.06%	0%	17.94%
Permanent Workers	21	0	21	26	0	26	25	0	25
%Turnover	5.20%	0%	5.20%	6.62%	0%	6.58%	5.97%	0%	5.94%

**V. Holding, Subsidiary and Associate Companies (including joint ventures)**

23. (a) Names of holding / subsidiary / associate companies / joint ventures

S. No.	Name of the holding/ subsidiary/ associate companies/ joint ventures (A)	Indicate whether holding/ Subsidiary/ Associate/ Joint Venture	% of shares held by listed entity	Does the entity indicated at column A, participate in the Business Responsibility initiatives of the listed entity? (Yes/No)
1.	Sunflag Power Limited	Subsidiary	100.00%	No
2.	Khappa Coal Company Private Limited	Subsidiary	63.27%	No
3.	Sunflag Foundation	Subsidiary	100.00%	No
4.	Madanpur (North) Coal Block Private Limited	Joint Venture	11.73%	No
5.	CT Mining Private Limited	Joint Venture	31.80%	No
6.	Daido DMS India Private Limited	Joint Venture	17.56%	No
7.	Ramesh Sunwire Private Limited	Joint Venture	49.00%	No
8.	ReNew Green (MPR Three) Private Limited	Joint Venture	31.20%	No

**VI. CSR Details**

24. (i) Whether CSR is applicable as per section 135 of Companies Act, 2013 : **Yes**  
(ii) Turnover (in ₹ Lakh): 3,53,558.61  
(iii) Net worth (in ₹ Lakh): 8,41,204.78

**VII. Transparency and Disclosures Compliances**

25. Complaints/Grievances on any of the principles (Principles 1 to 9) under the National Guidelines on Responsible Business Conduct:

Stakeholder group from whom complaint is received	Grievance Redressal Mechanism in Place (Yes/No) (If Yes, then provide web-link for grievance redress policy)*	FY 2024-25 Current Financial Year			FY 2023-24 Previous Financial Year		
		Number of complaints filed during the year	Number of complaints pending resolution at close of the year	Remarks	Number of complaints filed during the year	Number of complaints pending resolution at close of the year	Remarks
Communities	Yes	-	-	-	-	-	-
Investors (other than shareholders)	Yes	-	-	-	-	-	-
Shareholders	Yes	11	-	-	37	-	-
Employees and workers	Yes	-	-	-	-	-	-
Customers	Yes	281	-	-	217	-	-
Value Chain Partners	Yes	-	-	-	-	-	-
Other (please specify)	Yes	-	-	-	-	-	-

\* Grievance Redressal Policy Links:

<https://sunflagsteel.com/wp-content/uploads/2023/02/Sunflag-Policy-Quality-environment-health-etc.pdf>

<https://sunflagsteel.com/wp-content/uploads/2023/02/SISCO-Whistleblower-Policy-07022023.pdf>

26. Overview of the entity's material responsible business conduct issues

Please indicate material responsible business conduct and sustainability issues pertaining to environmental and social matters that present a risk or an opportunity to your business, rationale for identifying the same, approach to adapt or mitigate the risk along-with its financial implications, as per the following format

S. No.	Material issue identified	Indicate whether risk or opportunity (R/O)	Rationale for identifying the risk/opportunity	In case of risk, approach to adapt or mitigate	Financial implications of the risk or opportunity (Indicate positive or negative implications)
1	There is no responsibility or sustainability issue pertaining to environmental or social matter.				

This section is aimed at helping businesses demonstrate the structures, policies and processes put in place towards adopting the NGRBC Principles and Core Elements.

[illegible]

## 10. Details of Review of NGRBCs by the Company:

Subject for Review	Indicate whether review was undertaken by Director / Committee of the Board/ Any other Committee										Frequency (Annually/ Half yearly/ Quarterly/ Any other – please specify)									
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P1	P2	P3	P4	P5	P6	P7	P8	P9		
Performance against above policies and follow up action	Y	Y	Y	Y	Y	Y	Y	Y	Y		The compliances related to Business Responsibility and Sustainability Policy and other key policies are reviewed periodically and/or on need basis.									
Compliance with statutory requirements of relevance to the principles, and rectification of any non-compliances	Y	Y	Y	Y	Y	Y	Y	Y	Y		Compliances are reviewed periodically and no such non-compliances observed.									
11. Has the entity carried out independent assessment/ evaluation of the working of its policies by an external agency? (Yes/No). If yes, provide name of the agency.	P1		P2		P3		P4		P5		P6		P7		P8		P9			
	No		No		No		No		No		No		No		No		No			

12. If answer to question (1) above is "No" i.e. not all Principles are covered by a policy, reasons to be stated : **Not Applicable**

Questions	P1	P2	P3	P4	P5	P6	P7	P8	P9
The entity does not consider the Principles material to its business (Yes/No)									
The entity is not at a stage where it is in a position to formulate and implement the policies on specified principles (Yes/No)	N O T								
The entity does not have the financial or/human and technical resources available for the task (Yes/No)	A P P L I C A B L E								
It is planned to be done in the next financial year (Yes/No)									
Any other reason (please specify)									

## Principle- wise policies

P1	P2	P3	P4	P5	P6	P7	P8	P9
Code of Business Principles and Conduct	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy	Business Responsibility and Sustainability policy
Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company	Policy on Quality, Environmental, Health and Safety, Stakeholders' Engagement, Human Rights, Waste Management, Biodiversity and Grievance Redressal of the Company
Policy for determination of materiality of any event and information	Code of Business Principles and Conduct	Remuneration Policy	Whistle Blower Policy	Whistle Blower Policy	Code of Business Principles and Conduct	Code of Business Principles and Conduct	Code of Business Principles and Conduct	Code of Business Principles and Conduct
Policy on Materiality of related party transaction and dealing with related party transactions		Policy on Prevention of Sexual Harassment at workplace	Policy on Prevention of Sexual Harassment at workplace	Policy on Prevention of Sexual Harassment at workplace				

P1	P2	P3	P4	P5	P6	P7	P8	P9
Policy for determining material subsidiary		Policy on Succession planning for the Board and Senior Management		Remuneration Policy				
Policy for Document preservation		Whistle blower policy						
Remuneration Policy								
Whistle blower Policy								
Terms and Condition for the Appointment of Independent Director								
Policy on Succession Planning for the Board and Senior Management								
Dividend Distribution Policy								
Code for Prohibition of Insider Trading and Fair Disclosure of Unpublished Price Sensitive Information								

**SECTION C: PRINCIPLE-WISE PERFORMANCE DISCLOSURE:**

This section is aimed at helping entities demonstrate their performance in integrating the Principles and Core Elements with key processes and decisions. The information sought is categorized as “Essential” and “Leadership”. While the essential indicators are expected to be disclosed by every entity that is mandated to file this report, the leadership indicators may be voluntarily disclosed by entities which aspire to progress to a higher level in their quest to be socially, environmentally and ethically responsible.

**Principle 1 : Businesses should conduct and govern themselves with integrity, and in a manner that is Ethical, Transparent and Accountable.**

**Essential Indicators**

1. Percentage coverage by training and awareness programmes on any of the Principles during the financial year:

Segment	Total number of training and awareness programmes held	Topics / principles covered under the training and its impact	%age of persons in respective category covered by the awareness programmes
Board of Directors	10	The Topic covered business models, Health & Safety, Working Condition, Information Security, Human Rights, Governing Regulations, ESG, Code of Business Principles and Conduct, Grievance Management, Risk Management, Insider Trading, Waste Management, Biodiversity Conservation, Management their roles, rights and responsibilities and major developments including mines development, Corporate Social Responsibility and updates on the Company etc.	100%
Key Managerial Personnel	10		100%
Employees other than BoD and KMPs	41	1. Waste Management-Industrial Hazards & Environmental Pollution Control, Compliances 2. Ownership & Accountability 3. Leadership 4. Industrial Safety and Compliance. 5. Supervisory - accountability and responsibility 6. Teamwork and task team cohesiveness 7. Human Rights	78%
Workers	17	1. Safety, health and environment protocol 2. Code of conduct 3. Safety leadership and responsibility 4. Human Rights	87%

2. Details of fines / penalties /punishment/ award/ compounding fees/ settlement amount paid in proceedings (by the entity or by directors / KMPs) with regulators/ law enforcement agencies/ judicial institutions, in the financial year, in the following format (Note: the entity shall make disclosures on the basis of materiality as specified in Regulation 30 of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 and as disclosed on the entity's website):

Monetary					
	NGRBC Principle	Name of the regulatory/ enforcement agencies/ judicial institutions	Amount (In INR)	Brief of the Case	Has an appeal been preferred? (Yes/No)
Penalty/ Fine	-	-	-	-	-
Settlement	-	-	-	-	-
Compounding fee	-	-	-	-	-
Non-Monetary					
	NGRBC Principle	Name of the regulatory/ enforcement agencies/ judicial institutions	Brief of the Case	Has an appeal been preferred? (Yes/No)	
Imprisonment	-	-	-	-	-
Punishment	-	-	-	-	-

3. Of the instances disclosed in Question 2 above, details of the Appeal/ Revision preferred in cases where monetary or non-monetary action has been appealed.

Case Details	Name of the regulatory/ enforcement agencies/ judicial institutions
Not Applicable	Not Applicable

4. Does the entity have an anti-corruption or anti-bribery policy? If yes, provide details in brief and if available, provide a web-link to the policy. Yes, the Code of Business Principles and Conduct of the Company covers the anti-corruption and anti-bribery element also. Weblink: [https://sunflagsteel.com/wp-content/uploads/2018/03/SISCO\\_Code-Of-Business-Principles.pdf](https://sunflagsteel.com/wp-content/uploads/2018/03/SISCO_Code-Of-Business-Principles.pdf)
5. Number of Directors/KMPs/employees/workers against whom disciplinary action was taken by any law enforcement agency for the charges of bribery/ corruption:

	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Directors	-	-
KMPs	-	-
Employees	-	-
Workers	-	-

6. Details of complaints with regard to conflict of interest:

	FY 2024-25 (Current Financial Year)		FY 2023-24 (Previous Financial Year)	
	Number	Remarks	Number	Remarks
Number of complaints received in relation to issues of Conflict of Interest of the Directors	-	-	-	-
Number of complaints received in relation to issues of Conflict of Interest of the KMPs	-	-	-	-

7. Provide details of any corrective action taken or underway on issues related to fines / penalties / action taken by regulators/ law enforcement agencies/ judicial institutions, on cases of corruption and conflicts of interest : **Not Applicable**
8. Number of days of accounts payables ((Accounts payable \*365) / Cost of goods/services procured) in the following format:

	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Number of days of account payables	40 Days	37 Days

9. **Openness of Business**

Provide details of concentration of purchases and sales with trading houses, dealers, and related parties along-with loans and advances & investments, with related parties, in the following format:



Parameter	Metrics	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Concentration of Purchases	a. Purchases from trading houses as % of total purchases	7.64%	17.79%
	b. Number of trading houses where purchases are made from	419	592
	c. Purchases from top 10 trading houses as % of total purchases from trading houses	68.71%	70.29%
Concentration of Sales	a. Sales to dealers / distributors as % of total sales	-	-
	b. Number of dealers / distributors to whom sales are made	-	-
	c. Sales to top 10 dealers / distributors as % of total sales to dealers / distributors	-	-
Share of RPTs in	a. Purchases (Purchases with related parties / Total Purchases)	0.020%	0.008%
	b. Sales (Sales to related parties / Total Sales)	0.702%	0.908%
	c. Loans & advances (Loans & advances given to related parties / Total loans & advances)	-	0.240%
	d. Investments (Investments in related parties / Total Investments made)	100.00%	100.00%

**Leadership Indicators**

1. Awareness programmes conducted for value chain partners on any of the Principles during the financial year:

Total number of awareness programmes held	Topics / principles covered under the Training	%age of value chain partners covered (by value of business done with such partners) under the awareness programmes
-	-	-

2. Does the entity have processes in place to avoid/ manage conflict of interests involving members of the Board? (Yes/No) If Yes, provide details of the same. **Yes**, the Code of Business Principles and Conduct of the Company has principle on management of conflict of interest whereunder they are expected to avoid personal activities and financial interests which could conflict with their responsibilities to the Company.

Webblink: [https://sunflagsteel.com/wp-content/uploads/2018/03/SISCO\\_Code-Of-Business-Principles.pdf](https://sunflagsteel.com/wp-content/uploads/2018/03/SISCO_Code-Of-Business-Principles.pdf)

**PRINCIPLE 2: Businesses should provide goods and services in a manner that is sustainable and safe**

1. Percentage of R&D and capital expenditure (capex) investments in specific technologies to improve the environmental and social impacts of product and processes to total R&D and capex investments made by the entity, respectively.

	FY 2024-25 (Current Financial Year) ₹ Lakhs	FY 2023-24 (Previous Financial Year) ₹ Lakhs	Details of improvements in environmental and social impacts
R&D	56.03 (46%)	39.49 (100%)	Improved
Capex	65.17 (53.77%)	Nil	Improved

2. a. Does the entity have procedures in place for sustainable sourcing? (Yes/No) **Yes**  
b. If yes, what percentage of inputs were sourced sustainably? **91%**
3. Describe the processes in place to safely reclaim your products for reusing, recycling and disposing at the end of life, for (a) Plastics (including packaging) (b) E-waste (c) Hazardous waste and (d) other waste.  
A) Plastic waste: Sent to Authorized recycle processor.  
B) E - Waste: Sent to Authorized recycle processor.  
C) Hazardous waste-- : 1. Sludge : Recycled as raw material in our Sinter plant  
2. Used oil : Recycled in our reheating furnace as fuel and partially sold to authorized reproprocessors.  
D) Other waste- : Please Refer to Leadership Indicators point no. 4
4. Whether Extended Producer Responsibility (EPR) is applicable to the entity's activities (Yes / No). **Yes**  
If yes, whether the waste collection plan is in line with the Extended Producer Responsibility (EPR) plan submitted to Pollution Control Boards? **Yes** If not, provide steps taken to address the same. **NA**



**Leadership Indicators**

1. Has the entity conducted Life Cycle Perspective / Assessments (LCA) for any of its products (for manufacturing industry) or for its services (for service industry)? If yes, provide details in the following format?

NIC Code	Name of Product /Service	% of total Turnover contributed	Boundary for which the Life Cycle Perspective /Assessment was conducted	Whether conducted by independent external agency (Yes/No)	Results communicated in public domain (Yes/No) If yes, provide the web-link.
241	Long products	92.75%	Being assessed	No	No
243	Pig Iron	5.04%			
243	Sponge Iron	2.18%			

2. If there are any significant social or environmental concerns and/or risks arising from production or disposal of your products / services, as identified in the Life Cycle Perspective / Assessments (LCA) or through any other means, briefly describe the same along-with action taken to mitigate the same.

Name of Product/ Services	Description of the risk/ Concern	Action Taken
Long Products	No social/ environmental concern	NA
Pig Iron	No social/ environmental concern	NA
Sponge Iron	No social/ environmental concern	NA

3. Percentage of recycled or reused input material to total material (by value) used in production (for manufacturing industry) or providing services (for service industry).

Indicate input material	Recycled or re-used input material to total material	
	FY 2024-25 Current Financial Year	FY 2023-24 Previous Financial Year
In process generation of scrap	15.95%	13.53%

4. Of the products and packaging reclaimed at end of life of products, amount (in metric tonnes) reused, recycled, and safely disposed, as per the following format:

	FY 2024-25 Current Financial Year			FY 2023-24 Previous Financial Year		
	Re-Used	Recycled	Safely Disposed	Re-Used	Recycled	Safely Disposed
Plastics (including packaging)	-	-	147.642 MT	-	-	124.63 MT
E-waste	-	-	-	-	-	-
Hazardous waste	-	252.943 MT	-	-	238.824 MT	-
Other waste	1,36,969 MT	2,04,203 MT	3,12,401 MT	1,61,043 MT	3,00,541 MT	3,32,915 MT

5. Reclaimed products and their packaging materials (as percentage of products sold) for each product category.

Indicate product category	Reclaimed products and their packaging materials as % of total products sold in respective category
	NA

**PRINCIPLE 3 : Businesses should respect and promote the well-being of all employees, including those in their value chains.**

1. a. Details of measures for the well- being of employees:

Category	% of employees covered by										
	Total (A)	Health Insurance		Accident Insurance		Maternity Benefits		Paternity Benefits		Day Care Facilities	
		Number (B)	% (B / A)	Number (C)	% (C / A)	Number (D)	% (D / A)	Number (E)	% (E / A)	Number (F)	% (F / A)
Permanent employees											
Male	838	215	25.66%	838	100%	NA	-	-	-	-	-
Female	5	1	20.00%	5	100%	5	100%	NA	-	-	-
Total	843	216	25.62%	843	100%	5	0.59%	-	-	-	-
Other than Permanent employees											
Male	29	-	-	29	100%	NA	-	-	-	-	-
Female	-	-	-	-	-	-	-	NA	-	-	-
Total	29	-	-	29	100%	-	-	-	-	-	-

## b. Details of measures for the well-being of workers:

Category	% of workers covered by										
	Total (A)	Health Insurance		Accident Insurance		Maternity Benefits		Paternity Benefits		Day Care Facilities	
		Number (B)	% (B / A)	Number (C)	% (C / A)	Number (D)	% (D / A)	Number (E)	% (E / A)	Number (F)	% (F / A)
Permanent workers											
Male	402	222	55.22%	402	100%	NA	-	-	-	-	-
Female	2	2	100.00%	2	100%	2	100%	NA	-	-	-
<b>Total</b>	404	224	55.45%	404	100%	2	0.50%	-	-	-	-
Other than Permanent workers											
Male	2519	163	6.47%	2519	100%	NA	-	-	-	-	-
Female	5	1	20.00%	5	100%	5	100%	NA	-	-	-
<b>Total</b>	2524	164	6.50%	2524	100%	5	0.20%	-	-	-	-

## c. Spending on measures towards well-being of employees and workers (including permanent and other than permanent) in the following format –

	<b>FY 2024-25 (Current Financial Year)</b>	<b>FY 2023-24 (Previous Financial Year)</b>
Cost incurred on well- being measures as a % of total revenue of the Company	<b>0.174%</b>	0.199%

## 2. Details of retirement benefits, for Current Financial Year and Previous Financial Year.

Benefits	<b>FY 2024-25 Current Financial Year</b>			<b>FY 2023-24 Previous Financial Year</b>		
	No. of employees covered as a % of total employees	No. of workers covered as a % of total workers	Deducted and deposited with the authority (Y/N/N.A.)	No. of employees covered as a % of total employees	No. of workers covered as a % of total workers	Deducted and deposited with the authority (Y/N/N.A.)
PF	<b>100%</b>	<b>100%</b>	<b>Y</b>	100%	100%	Y
Gratuity	<b>100%</b>	<b>100%</b>	<b>Y</b>	100%	100%	Y
ESI	As per applicable Norms					
Others – please specify	As per applicable Norms					

## 3. Accessibility of workplaces

Are the premises / offices of the entity accessible to differently abled employees and workers, as per the requirements of the Rights of Persons with Disabilities Act, 2016? If not, whether any steps are being taken by the entity in this regard- Presently none of the employees are in the differently abled category.

## 4. Does the entity have an equal opportunity policy as per the Rights of Persons with Disabilities Act, 2016? If so, provide a web-link to the policy.

**Yes**, <https://sunflagsteel.com/wp-content/uploads/2023/02/Sunflag-Policy-Quality-environment-health-etc.pdf>

## 5. Return to work and Retention rates of permanent employees and workers that took parental leave.

Gender	Permanent employees		Permanent workers	
	Return to work rate	Retention rate	Return to work rate	Retention rate
Male	-	-	-	-
Female	-	-	-	-
Total	-	-	-	-

6. Is there a mechanism available to receive and redress grievances for the following categories of employees and worker? If yes, give details of the mechanism in brief.

**Yes.** Certified Standing Order is available.

In case of employees, grievance can be conveyed through a designated person. Redressal as per the merits of the case will follow.

In case of workmen, Grievance can be put up in Monthly IR meeting in presence of Union Representatives. Redressal as per merits of the case will follow.

7. Membership of employees and worker in association(s) or Unions recognised by the listed entity:

Category	FY 2024-25 Current Financial Year			FY 2023-24 Previous Financial Year		
	Total employees / workers in respective category (A)	No. of employees / workers in respective category, who are part of association(s) or Union (B)	% (B / A)	Total employees / workers in respective category (C)	No. of employees / workers in respective category, who are part of association(s) or Union (D)	% (D / C)
<b>Total Permanent Employees</b>	843	-	-	818	-	-
- Male	838	-	-	814	-	-
- Female	5	-	-	4	-	-
<b>Total Permanent Workers</b>	404	349	86.39%	395	369	93.42%
- Male	402	347	86.32%	393	367	93.38%
- Female	2	2	100.00%	2	2	100.00%

8. Details of training given to employees and workers:

Category	FY 2024-25 Current Financial Year					FY 2023-24 Previous Financial Year				
	Total (A) Mandays of Training	On Health and safety measures		On Skill upgradation		Total (D) Mandays of Training	On Health and safety measures		On Skill upgradation	
		No. (B)	% (B / A)	No. (C)	% (C / A)		No. (E)	% (E / D)	No. (F)	% (F / D)
Employees										
Male	4914	4176	84.98%	2437	49.59%	4773	2789	58.43%	1984	41.57%
Female	16	16	100.00%	6	37.50%	16	11	68.75%	5	31.25%
Total	4930	4192	85.03%	2443	49.55%	4789	2800	58.47%	1989	41.53%
Workers										
Male	6614	4937	74.64%	2612	39.49%	6457	3845	59.55%	2612	40.45%
Female	2	2	100.00%	2	100.00%	2	2	100.00%	2	100.00%
Total	6616	4939	74.65%	2614	39.51%	6459	3847	59.56%	2614	40.47%

9. Details of performance and career development reviews of employees and worker:

Category	FY 2024-25 Current Financial Year			FY 2023-24 Previous Financial Year		
	Total (A)	No. (B)	% (B / A)	Total (C)	No. (D)	% (D / C)
<b>Employees</b>						
Male	4914	2437	49.59%	4773	1984	41.57%
Female	16	6	37.50%	16	5	31.25%
<b>Total</b>	<b>4930</b>	<b>2443</b>	<b>49.55%</b>	<b>4789</b>	<b>1989</b>	<b>41.53%</b>
<b>Workers</b>						
Male	6614	2612	39.49%	6457	2612	40.45%
Female	2	2	100.00%	2	2	100.00%
<b>Total</b>	<b>6616</b>	<b>2614</b>	<b>39.51%</b>	<b>6459</b>	<b>2614</b>	<b>40.47%</b>

10. Health and safety management system:

- a. Whether an occupational health and safety management system has been implemented by the entity? (Yes/ No). If yes, the coverage of such system?

**Yes**, as per ISO45001:2018 requirements throughout the plant.

- b. What are the processes used to identify work-related hazards and assess risks on a routine and non-routine basis by the entity?

**Routine-**

Coverage of workplace by Cameras  
Daily site inspection  
Work permit system for working at height  
Regular medical examination

**Non-routine-**

Cross functional audits  
External audits  
HIRA, Hazop study

- c. Whether you have processes for workers to report the work related hazards and to remove themselves from such risks. (Y/N)

**Yes**

- d. Do the employees/ worker of the entity have access to non-occupational medical and healthcare services? (Yes/ No) **Yes**

11. Details of safety related incidents, in the following format:

Safety Incident/Number	Category	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Lost Time Injury Frequency Rate (LTIFR) (per one million-person hours worked)	Employees	<b>1 (63 days)</b>	1
	Workers	<b>1 (63 days)</b>	2
Total recordable work-related injuries	Employees	<b>NIL</b>	<b>NIL</b>
	Workers		
No. of fatalities	Employees		
	Workers		
High consequence work-related injury or ill-health (excluding fatalities)	Employees		
	Workers		

12. Describe the measures taken by the entity to ensure a safe and healthy work place.

Following ISO 45001 and ISO 14000 guidelines and implementation. HIRA, HAZOP Studies, (Internal and External) Safety audits, Safety Kaizens, Safety One Point Lesson, etc.

- Coverage of all operations area by Camera and display to key safety and operations persons
- Daily site inspection
- Cross functional safety audits of all workplaces
- Appointment of safety coordinators to ensure safe practices at all levels
- Work permit system for all jobs at height
- Regular medical examination to ensure fitness for critical jobs
- Awards for best performance in safety

13. Number of Complaints on the following made by employees and workers:

	FY 2024-25 (Current Financial Year)			FY 2023-24 (Previous Financial Year)		
	Filed during the year	Pending resolution at the end of year	Remarks	Filed during the year	Pending resolution at the end of year	Remarks
Working Conditions	<b>Nil</b>	<b>Nil</b>	-	Nil	Nil	-
Health & Safety	<b>Nil</b>	<b>Nil</b>	-	Nil	Nil	-

14. Assessments for the year:

	% of your plants and offices that were assessed (by entity or statutory authorities or third parties)
Health and safety practices	100%
Working Conditions	100%

15. Provide details of any corrective action taken or underway to address safety-related incidents (if any) and on significant risks / concerns arising from assessments of health & safety practices and working conditions: Implementation of TPM (Second Phase) throughout the workplace.

**Leadership Indicator**

- Does the entity extend any life insurance or any compensatory package in the event of death of (A) Employees (Y/N) **N** (B) Workers (Y/N) **N**. All employees covered by Insurance and statutory norms. All workers covered by Insurance and statutory norms  
In case of loss of family income for basic needs, employment can be considered.
- Provide the measures undertaken by the entity to ensure that statutory dues have been deducted and deposited by the value chain partners.  
During the course of meetings with the value chain partners we try to ensure that the statutory dues have been deducted and deposited.

3. Provide the number of employees / workers having suffered high consequence work- related injury / ill-health / fatalities (as reported in Q11 of Essential Indicators above), who have been are rehabilitated and placed in suitable employment or whose family members have been placed in suitable employment:

	Total no. of affected employees/ workers		No. of employees/workers that are rehabilitated and placed in suitable employment or whose family members have been placed in suitable employment	
	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Employees	1	Nil	NA	NA
Workers	1	Nil	NA	NA

4. Does the entity provide transition assistance programs to facilitate continued employability and the management of career endings resulting from retirement or termination of employment? (Yes/ No)

**Yes.** In certain case qualified persons with excellent performance are retained as advisers after the retirement. During the employment skill development programs are carried out to facilitate the continued employment.

5. Details on assessment of value chain partners:

	% of value chain partners (by value of business done with such partners) that were assessed
Health and safety practices	10%
Working Conditions	100%

At the time of entering into contract with value chain partners awareness in relation to good working conditions and requirement of health and safety practices are created.

6. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from assessments of health and safety practices and working conditions of value chain partners- No such action taken.

#### PRINCIPLE 4 : Businesses should respect the interests of and be responsive to all its stakeholders

##### Essential Indicators

1. Describe the processes for identifying key stakeholder groups of the entity.  
The Company has a robust stakeholder engagement process whereunder the Company has identified the following key stakeholders ('key stakeholder groups') based on the reciprocal influence and responsibilities between the Company and its stakeholders viz. Employees, Shareholders and investors, Customers, Government and Regulatory Authorities, Suppliers, Local Communities, Industrial Associations and Value Chain Partners.
2. List of stakeholder groups identified as key for your entity and the frequency of engagement with each stakeholder group.

Stakeholder Group	Whether identified as Vulnerable & Marginalized Group (Yes/ No)	Channels of Communication (Email, SMS, Newspaper, pamphlets, Advertisement, Community Meetings, Notice Board, Website) Other	Frequency of engagement (Annually/ Half yearly/ Quarterly/ other- please specify)	Purpose and scope of engagement including key topics and concerns raised during such engagement
Customers	No	Customer meets, emails, SMS, Advertisements etc.	Ongoing basis	Customer feedback on product
Employees	No	Meetings, Notices	Ongoing basis	Rules, Policies, guidelines from Authorities
Value Chain Partners	No	Emails	Ongoing basis	As per requirement
Shareholders and Investors	No	Meetings, Emails, Letters, Newspaper, Website, Announcements etc.	Ongoing basis	Major Approvals, Shareholders value, major developments and other relevant updates regarding the Company, grievance redressal etc.
Industrial Association	No	Letters, Emails	Ongoing basis	As per requirement
Local Communities	Yes	Community Meetings, Letters	Ongoing basis	CSR activities etc.
Regulatory Bodies	No	Letters, Emails	Ongoing basis	As per requirement
Suppliers	No	Meetings, Letters, Emails etc.	Ongoing basis	As per requirement

##### Leadership Indicators

1. Provide the processes for consultation between stakeholders and the Board on economic, environmental, and social topics or if consultation is delegated, how is feedback from such consultations provided to the Board:  
Responsible Officers in contact with stakeholders share the feedback with the Board of Directors.

2. Whether stakeholder consultation is used to support the identification and management of environmental, and social topics (Yes / No)- **Yes**. If so, provide details of instances as to how the inputs received from stakeholders on these topics were incorporated into policies and activities of the entity.  
Inputs if any from stakeholders are verified by responsible officers and thereafter forwarded to Managing authorities for implementation, if deemed fit.
3. Provide details of instances of engagement with, and actions taken to, address the concerns of vulnerable/ marginalized stakeholder groups. On various occasions local communities and NGO's are supported for the benefit of the society.

**PRINCIPLE 5 : Businesses should respect and promote human rights**

1. Employees and workers who have been provided training on human rights issues and policy(ies) of the entity, in the following format:  
We as a Company respect and promote human rights. We have framed a policy covering human rights element apart from covering the human rights aspect in Code for Business Principles and Conduct. Code for Business Principles and Conduct has been disseminated on the website of the Company and all the employees of the Company and other persons dealing with the Company have access to it.

Category	FY 2024-25 (Current Financial Year)			FY2023-24 (Previous Financial Year)		
	Total (A)	No. of employees/ workers covered (B)	% (B / A)	Total (C)	No. of employees/ workers covered (D)	% (D / C)
<b>Employees</b>						
Permanent	843	624	74.02%	818	376	45.97%
Other than permanent	29	18	62.07%	31	0	0%
<b>Total Employees</b>	<b>872</b>	<b>642</b>	<b>73.62%</b>	<b>849</b>	<b>376</b>	<b>44.29%</b>
<b>Workers</b>						
Permanent	404	339	83.91%	395	281	71.14%
Other than permanent	2524	1843	73.02%	2386	0	0%
<b>Total Workers</b>	<b>2928</b>	<b>2182</b>	<b>74.52%</b>	<b>2781</b>	<b>281</b>	<b>10.10%</b>

2. Details of minimum wages paid to employees and workers, in the following format:

Category	FY 2024-25 (Current Financial Year)					FY 2023-24 (Previous Financial Year)				
	Total (A)	Equal to Minimum Wage		More than Minimum Wage		Total (D)	Equal to Minimum Wage		More than Minimum Wage	
		No. (B)	% (B / A)	No. (C)	% (C / A)		No. (E)	% (E / D)	No. (F)	% (F / D)
Employees										
Permanent	843	NIL	NIL	843	100%	818	NIL	NIL	818	100%
Male	838	NIL	NIL	838	100%	814	NIL	NIL	814	100%
Female	5	NIL	NIL	5	100%	4	NIL	NIL	4	100%
Other than Permanent	29	NIL	NIL	29	100%	31	NIL	NIL	31	100%
Male	29	NIL	NIL	29	100%	30	NIL	NIL	30	100%
Female	0	NIL	NIL	0	0%	1	NIL	NIL	1	100%
Workers										
Permanent	404	NIL	NIL	404	100%	395	NIL	NIL	395	100%
Male	402	NIL	NIL	402	100%	393	NIL	NIL	393	100%
Female	2	NIL	NIL	2	100%	2	NIL	NIL	2	100%
Other than Permanent	2524	1458	57.77%	1066	42.23%	2386	1306	54.74%	1180	49.46%
Male	2519	1454	57.72%	1065	42.28%	2379	1302	54.73%	1177	49.47%
Female	5	4	80.00%	1	20.00%	7	4	57.14%	3	42.86%

3. Details of remuneration/salary/wages:  
a. Median remuneration/wages:

	Male		Female	
	Number	Median remuneration/ salary/ wages of respective category (₹)	Number	Median remuneration/ salary/ wages of respective category (₹)
Board of Directors (BoD)	7*	4,30,000/-	2	4,68,000/-
Key Managerial Personnel	2	75,47,085/-	-	-
Employees other than BoD and KMP	834	7,08,324/-	5	2,90,328/-
Workers	402	7,61,376/-	2	9,60,120/-

\* Two Board Members are also Key Managerial Personnel.

b. Gross Wages paid to females as % of total wages paid by the entity, in the following format:

	<b>FY 2024-25 (Current Financial Year)</b>	<b>FY 2023-24 (Previous Financial Year)</b>
Gross wages paid to females as % of total wages	<b>0.43%</b>	0.40%

4. Do you have a focal point (Individual/ Committee) responsible for addressing human rights impacts or issues caused or contributed to by the business? (Yes/No) **Yes**- Human Rights being an important matter, any violation of Human Rights will be addressed by a separate committee formed by management for the purpose.
5. Describe the internal mechanisms in place to redress grievances related to human rights issues.  
Grievances can be put up to designated personnel in organization for redressal- as specified in point 4 above.
6. Number of Complaints on the following made by employees and workers:

	<b>FY 2024-25 (Current Financial Year)</b>			<b>FY 2023-24 (Previous Financial Year)</b>		
	<b>Filed during the year</b>	<b>Pending resolution at the end of year</b>	<b>Remarks</b>	<b>Filed during the year</b>	<b>Pending resolution at the end of year</b>	<b>Remarks</b>
Sexual Harassment	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-
Discrimination at workplace	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-
Child Labour	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-
Forced Labour/Involuntary Labour	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-
Wages	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-
Other human rights related Issues	<b>Nil</b>	<b>NA</b>	-	Nil	NA	-

7. Complaints filed under the Sexual Harassment of Women at workplace (Prevention, Prohibition and Redressal) Act, 2013, in the following format:

	<b>FY 2024-25 (Current Financial Year)</b>	<b>FY 2023-24 (Previous Financial Year)</b>
Total Complaints reported under Sexual Harassment on Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (POSH)	<b>Nil</b>	Nil
Complaints on POSH as a % of female Employees/ Workers	<b>Nil</b>	Nil
Complaints on POSH upheld	<b>Nil</b>	Nil

8. Mechanisms to prevent adverse consequences to the complainant in discrimination and harassment cases.  
Committee is established as per the provision of Act.
9. Do human rights requirements form part of your business agreements and contracts? (Yes/No) - **Yes**
10. Assessments for the year:

	<b>% of your plants and offices that were assessed (by entity or statutory authorities or third parties)</b>
Child labour	100%
Forced/involuntary labour	100%
Sexual harassment	100%
Discrimination at workplace	100%
Wages	100%
Others – please specify	-

11. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from the assessments at Question 10 above.- **Nil**

#### Leadership Indicators

1. Details of a business process being modified / introduced as a result of addressing human rights grievances/complaints: There were no such complaints.
2. Details of the scope and coverage of any Human rights due-diligence conducted: No such due diligence conducted during FY 2024-25
3. Is the premise/office of the entity accessible to differently abled visitors, as per the requirements of the Rights of Persons with Disabilities Act, 2016? - **Yes**



## 4. Details on assessment of value chain partners

	% of value chain partners (by value of business done with such partners) that were assessed
Sexual Harassment	100%
Discrimination at workplace	100%
Child Labour	100%
Forced Labour/Involuntary Labour	100%
Wages	100%
Others – please specify	-

## 5. Provide details of any corrective actions taken or underway to address significant risks / concerns arising from the assessments at Question 4 above. No such corrective action was required.

**PRINCIPLE 6 : Businesses should respect and make efforts to protect and restore the environment****Essential Indicators**

## 1. Details of total energy consumption (in Joules or multiples) and energy intensity, in the following format :

Parameter	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>From Renewable Sources</b>		
Total electricity consumption (A)	46684645 (168064722)	-
Total fuel consumption (B)	-	-
Energy consumption through other sources (C)	-	-
<b>Total energy consumed from Renewable Sources (A+B+C)</b>	46684645 (168064722)	-
<b>From Non-renewable Sources</b>		
Total electricity consumption (D)	401080227 (1443888817)	412092600 (1483533360)
Total fuel consumption (E)	24457 (950888160)	24628 (957536640)
Energy consumption through other sources (F)	-	-
<b>Total energy consumed from Non-renewable Sources (D+E+F)</b>	2394776977	2441070000
<b>Total energy consumption (A+B+C+D+E+F) Mega Joules</b>	2562841699	2441070000
<b>Energy intensity per rupee of turnover MJ/Rs.</b> (Total energy consumption/ Revenue from Operation)	0.07248	0.07147
<b>Energy intensity per rupees of Turnover adjusted for Purchasing Power Parity (PPP)</b> (Total energy consumption/Revenue from operations adjusted for PPP)	1.6562	1.4401
<b>Energy Intensity in terms of Physical Output</b>	4683.12 MJ/MT	4692.80 MJ/MT
<b>Energy intensity</b> (optional) – the relevant metric may be selected by the entity	-	-

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N)-**N** If yes, name of the external agency.

2. Does the entity have any sites / facilities identified as designated consumers (DCs) under the Performance, Achieve and Trade (PAT) Scheme of the Government of India? (Y/N) **N** If yes, disclose whether targets set under the PAT scheme have been achieved. In case targets have not been achieved, provide the remedial action taken, if any.- **Not Applicable**

3. Provide details of the following disclosures related to water, in the following format:

Parameter	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Water withdrawal by source (in kilolitres)</b>		
(i) Surface water (From River)	31,37,284	30,81,409
(ii) Groundwater	-	-
(iii) Third party water	-	-
(iv) Seawater / desalinated water	-	-
(v) Others	-	-
<b>Total volume of water withdrawal (in kiloliters) (i + ii + iii + iv + v)</b>	31,37,284	30,81,409
<b>Total volume of water consumption (in kilolitres)</b>	31,37,284	30,81,409
<b>Water intensity per rupee of turnover</b> (Total water Consumption / Revenue from Operations)	0.0000887	0.0000902
<b>Water intensity per rupees of Turnover adjusted for Purchasing Power Parity (PPP)</b> (Total water consumption/Revenue from operations adjusted for PPP)	0.0002026	0.00018175
<b>Water Intensity in terms of Physical Output</b>	6.985 M3/MT	5.92 M3/MT
<b>Water intensity</b> (optional) – the relevant metric may be selected by the entity	-	-

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) -N If yes, name of the external agency.

4. Provide the following details related to water discharged:

Parameter	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Water discharge by destination and level of treatment (in kilolitres)</b>		
(i) to Surface water		
- No treatment	Zero Liquid Discharge Plant	Zero Liquid Discharge Plant
- With treatment – please specify level of treatment	Zero Liquid Discharge Plant	Zero Liquid Discharge Plant
(ii) To Groundwater	-	-
- No treatment	-	-
- With treatment – please specify level of treatment	-	-
(iii) To Seawater	-	-
- No treatment	-	-
- With treatment – please specify level of treatment	-	-
(iv) Sent to third-parties	-	-
- No treatment	-	-
- With treatment – please specify level of treatment	-	-
(v) Others	-	-
- No treatment	-	-
- With treatment – please specify level of treatment	-	-
<b>Total water discharged (in kilolitres)</b>	-	-

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) -N If yes, name of the external agency - NA

5. Has the entity implemented a mechanism for Zero Liquid Discharge? If yes, provide details of its coverage and implementation.  
**Yes:** Achieved zero liquid discharge, blow down water discharge from all cooling towers are being reused as a make up to Sinter Plant, Mini Blast Furnace, Sponge Iron Plant, Steel Melt Shop and Rolling Mill. Domestic waste water is reused for tree plantation and firefighting water after treatment at Sewage Treatment Plant.

6. Please provide details of air emissions (other than GHG emissions) by the entity, in the following format:

Parameter	Please specify unit	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
NOx	mg/Nm3	107.25	172.60
SOx	kg/Tcs	217.21	219.35
Particulate matter (PM)	mg/Nm3	25.53	26.10
Persistent organic pollutants (POP)	-	-	-
Volatile organic compounds (VOC)	-	-	-
Hazardous air pollutants (HAP)	-	-	-
Others please specify	-	-	-

Note : Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) - **Y** If yes, name of the external agency.

**Monitored by External Agency:- NABL approved Lab, M/s. Earthcare Labs Pvt. Ltd., Nagpur.**

7. Provide details of greenhouse gas emissions (Scope 1 and Scope 2 emissions) and its intensity, in the following format:

Parameter	Unit	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Total Scope 1 emissions</b> (Break-up of the GHG into CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub> , if available)	Metric tonnes of CO <sub>2</sub> equivalent	15,27,748.16 tCO <sub>2</sub>	15,94,668.88 tCO <sub>2</sub>
<b>Total Scope 2 emissions</b> (Break-up of the GHG into CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub> , if available)	Metric tonnes of CO <sub>2</sub> equivalent	1,76,158.20 tCO <sub>2</sub>	1,84,009.99 tCO <sub>2</sub>
<b>Total Scope 1 and Scope 2 emissions intensity per rupee of turnover</b> (Total Scope 1 and Scope 2 GHG emissions / Revenue from Operations)	Scope1+Scope2 Metric tonnes of CO <sub>2</sub> Equivalent (TCO <sub>2</sub> /Rupee TO)	17,03,906.35 tCO <sub>2</sub> (0.0000482)	17,78,678.87 tCO <sub>2</sub> (0.0000521)
<b>Total Scope 1 and Scope 2 emissions per rupee of Turnover adjusted for Purchasing Power Parity (PPP)</b> (Total Scope 1 and Scope 2 GHG Emission/ Revenue from operations adjusted for PPP)	-	0.00110	0.00105
<b>Total Scope 1 and Scope 2 emissions intensity in terms of Physical output</b>	Metric tonnes of CO <sub>2</sub> equivalent	3.114 tCO <sub>2</sub> / MT	3.419 tCO <sub>2</sub> / MT
<b>Total Scope 1 and Scope 2 emission intensity</b> (optional) – the relevant metric may be selected by the entity	-	-	-

Note : Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) - **N** If yes, name of the external agency.

8. Does the entity have any project related to reducing Green House Gas emission? If Yes, then provide details. **Yes,** MBF , SMS , CPP, SINTER , ASM ,BSM Blooming Mill etc., are major projects undertaken for reducing GHG emissions

**1. Registered Vehicle Scrap Facility for Recycling Steel:**

**Objective:** This refers to facilities designed to collect and recycle scrap steel, often from end-of-life vehicles (ELVs). Recycling steel from scrap metal reduces the need for virgin iron ore, lowering energy consumption and CO<sub>2</sub> emissions in steel production

**Impact on GHGs:** Steel recycling typically requires less energy compared to producing steel from raw materials. For example, recycling steel saves up to 60% of energy consumption and reduces CO<sub>2</sub> emissions by around 58% compared to using new steel.

**2. Consumption of Good Quality Coal, LDO, FO, LPG, LDO and HSD etc.,**

**Objective:** The use of high-quality fuels such as coal, light diesel oil (LDO), fuel oil (FO), liquefied petroleum gas (LPG), and high-speed diesel (HSD) is focused on improving combustion efficiency and reducing emissions from combustion processes.

**Impact on GHGs:** Using high-quality fuels can help reduce pollutants like sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), and particulate matter (PM). However, the key challenge lies in transitioning from fossil fuels to cleaner energy sources, such as renewables, to further reduce GHG emissions in the long term.

**3. Coke Oven Plant for Producing Coke, Power, and Coke Oven Gas:**

**Objective:** Coke ovens are essential in the steel-making process, where coal is heated in the absence of air to produce coke, which is then used in blast furnaces for iron production. The process also generates coke oven gas, which can be used as a fuel for power generation.

**Impact on GHGs:** While coke production is an energy-intensive process, the utilization of coke oven gas for power generation can help mitigate the environmental impact by displacing the need for additional fossil fuels. Moreover, advancements in coke oven technology focus on improving efficiency and capturing emissions such as carbon monoxide, which can be reused in other industrial processes.

**4. Replacement of Conventional Electricity (Grid) From Solar Electricity:**

**Objective:** Solar electricity is considered as a renewable & green power which is absolutely emission free.

**Impact on GHGs:** Replacement of fossil fuel based electricity with solar electricity is greatly help to mitigate the environment impact by reducing the burning of fossil fuel. It drastically reduces the CO<sub>2</sub> emission by fossil fuel.

**5. Injection of biochar into Blast Furnace:**

**Objective:** Biochar refers to organic matter from crops and forests residue, which can be used as fuel to produce energy and replace fossil fuel up to some extent. Bioenergy is being a carbon neutral energy. This is because the carbon released when biomass is burned is off-set by the carbon absorbed by the plants during their growth.

**Impact on GHGs:** Replacement of fossil fuel with biochar helps to mitigate the environment impact by using of fossil fuel. It drastically reduces the CO<sub>2</sub> emission.

**Additional Considerations for Reducing GHGs:**

**Carbon Capture, Utilization and Storage (CCUS):** Implementing CCUS technologies in coke ovens and other industrial plants can help capture CO<sub>2</sub> emissions at the source and either store them underground or repurpose them for other uses, further reducing the carbon footprint.

**Electrification of Industrial Processes:** In the long term, switching from fossil fuels to electricity derived from renewable sources can significantly reduce GHG emissions.

**Process Optimization:** Continuous improvement in energy efficiency, use of renewable energy sources and digitalization (e.g., AI for predictive maintenance and optimization) can reduce overall emissions in steel plants.

**Replacement of FO/LDO/LPG with Natural Gas:** CO<sub>2</sub> emission intensity of Natural Gas is much lower than FO/LDO/LPG. Replacement of these fossil fuels with Natural Gas reduce the GHG emissions.

**9. Provide details related to waste management by the entity, in the following format:**

Parameter	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Total Waste generated (in Metric tonnes)</b>		
Plastic waste (A)	147.642 MT	124.63 MT
E-waste (B)	-	-
Bio-medical waste (C)	0.03125 MT	0.04121 MT
Construction and demolition waste (D)	-	-
Battery waste (E)	-	-
Radioactive waste (F)	-	-
Other Hazardous waste. Please specify, if any. (G ) MT	252.943	238.82
Other Non-hazardous waste generated (H). MT Please specify, if any.MT (Break-up by composition i.e. by materials relevant to the sector)	6,53,573	7,94,499
<b>Total (A+B + C + D + E + F + G + H)</b>	<b>6,53,973.61 MT</b>	<b>7,94,862.50 MT</b>
<b>Waste intensity per rupee of turnover,</b> (Total Waste Generated/ Revenue from operations)	<b>0.0000185</b>	<b>0.0000233</b>
<b>Waste intensity per rupees of Turnover</b> <b>adjusted for Purchasing Power Parity (PPP)</b> (Total waste generated/ Revenue from operations adjusted for PPP)	<b>0.000423</b>	<b>0.000469</b>
<b>Waste Intensity in terms of Physical Output</b>	<b>1.456 MT/TRP</b>	<b>1.935 MT/TRP</b>
<b>Waste intensity (optional) – the relevant metric</b> may be selected by the entity	-	-

For each category of waste generated, total waste recovered through recycling, re-using or other recovery operations (in metric tonnes)		
Category of waste		
(i) Recycled	2,04,203 MT	3,00,541 MT
(ii) Re-used	1,36,969 MT	1,61,043 MT
(iii) Other recovery operations	-	-
<b>Total</b>	<b>3,41,172 MT</b>	<b>4,61,584 MT</b>
For each category of waste generated, total waste disposed by nature of disposal method (in metric tonnes)		
Category of waste		
(i) Incineration	-	-
(ii) Landfilling (safe disposal)	3,12,401 MT	3,32,915 MT
(iii) Other disposal operations (Sale)	-	-
<b>Total</b>	<b>3,12,401 MT</b>	<b>3,32,915 MT</b>

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N) **N**, If yes, name of the external agency-**NA**

10. Briefly describe the waste management practices adopted in your establishments. Describe the strategy adopted by your company to reduce usage of hazardous and toxic chemicals in your products and processes and the practices adopted to manage such wastes.

**Refer Annexure-1 and 2 to this Report**

11. If the entity has operations/offices in/around ecologically sensitive areas (such as national parks, wildlife sanctuaries, biosphere reserves, wetlands, biodiversity hotspots, forests, coastal regulation zones etc.) where environmental approvals / clearances are required, please specify details in the following format:

Sr. No.	Location of operations/offices	Types of operations	Whether the conditions of environmental approval / clearance are being complied with? (Y/N) If no, the reasons thereof and corrective action taken, if any.
1	Bhandara	Manufacturing of Iron and Steel	Yes, Obtained environmental clearance 0000163341/CR/2307000707 Dated 13.07.2023 which is being complied with in totality. All our operations have the required environmental and other approvals/clearances.

12. Details of environmental impact assessments of projects undertaken by the entity based on applicable laws, in the current financial year: Environment Impact Assessment has not been undertaken during the financial year 2024-25.

Name and brief details of project	EIA Notification No.	Date	Whether conducted by independent external agency (Yes / No)	Results communicated in public domain (Yes / No)	Relevant Web link
-	-	-	-	-	-
-	-	-	-	-	-

13. Is the entity compliant with the applicable environmental law/ regulations/ guidelines in India; such as the Water (Prevention and Control of Pollution) Act, Air (Prevention and Control of Pollution) Act, Environment protection Act and rules thereunder : (Y/N)-**Y**. If not, provide details of all such non-compliances, in the following format:

Sr. No.	Specify the law / regulation/ guidelines which was not complied with	Provide details of the non- compliance	Any fines / penalties / action taken by regulatory agencies such as pollution control boards or by courts	Corrective action taken, if any
NOT APPLICABLE				

#### Leadership Indicators

1. Water withdrawal, Consumption and discharge in areas of water stress (in kilolitres):

For each facility / plant located in areas of water stress, provide the following information:

- (i) Name of the area- Villages Warthi and Eklari, Tal. Mohadi, District Bhandara
- (ii) Nature of operations- Manufacture of Iron and Steel
- (iii) Water withdrawal, consumption and discharge in the following format:

Parameter	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Water withdrawal by source (in kilolitres)</b>		
(i) Surface water	31,37,284	30,81,409
(ii) Groundwater	-	-
(iii) Third party water	-	-
(iv) Seawater / desalinated water	-	-
(v) Others	-	-
<b>Total volume of water withdrawal (in kilolitres)</b>	31,37,284	30,81,409
<b>Total volume of water consumption (in kilolitres)</b>	31,37,284	30,81,409
<b>Water intensity</b> per rupee of turnover (Water consumed / turnover) Litres/Rupee	0.0887	0.0902
<b>Water intensity</b> (optional) – the relevant metric may be selected by the entity	-	-
<b>Water discharge by destination and level of treatment (in kilolitres)</b>		
(i) into Surface water	<b>Zero Liquid Discharge Plant</b> <b>Zero Liquid Discharge Plant</b>	Zero Liquid Discharge Plant
- No treatment		Zero Liquid Discharge Plant
- With treatment – please specify level of treatment		
(ii) Into Groundwater		
- No treatment	-	-
- With treatment–please specify level of treatment	-	-
(iii) Into Seawater		
- No treatment	-	-
- With treatment–please specify level of treatment	-	-
(iv) Sent to third-parties		
- No treatment	-	-
- With treatment–please specify level of treatment	-	-
(v) Others		
- No treatment	-	-
- With treatment–please specify level of treatment	-	-
<b>Total water discharged (in kilolitres)</b>		

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N)-N If yes, name of the external agency. **NA**

2. Please provide details of total Scope 3 emissions & its intensity, in the following format:

Parameter	Unit	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
<b>Total Scope 3 emissions</b> (Break-up of the GHG into CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFCs, SF <sub>6</sub> , NF <sub>3</sub> , if available)	Metric tonnes of CO <sub>2</sub> equivalent	5,07,200.78 tCO <sub>2</sub>	4,20,044.57 t CO <sub>2</sub>
<b>Total Scope 3 emissions per rupee of turnover</b>		0.0000142	0.0000123
<b>Total Scope 3 emission intensity</b> (optional) – the relevant metric may be selected by the entity	-	-	-

Note: Indicate if any independent assessment/ evaluation/assurance has been carried out by an external agency? (Y/N)-N If yes, name of the external agency. **-NA**

3. With respect to the ecologically sensitive areas reported at Question 11 of Essential Indicators above, provide details of significant direct & indirect impact of the entity on biodiversity in such areas along-with prevention and remediation activities.  
Every year heavy Tree plantation in surrounding areas is done
4. If the entity has undertaken any specific initiatives or used innovative technology or solutions to improve resource efficiency, or reduce impact due to emissions / effluent discharge / waste generated, please provide details of the same as well as outcome of such initiatives, as per the following format:

Sr. No.	Initiative undertaken	Details of the initiative (Web-link, if any, may be provided along-with summary)	Outcome of the initiative
1	Reduce impact due to emissions	Heavy tree plantation and upgrade process technology and pollution control equipments	Substantial reduction of impact due to emissions
2	Effluent discharge	Effluent has been recycled after treatment.	Mitigation of impact of effluent discharge
3	Waste generation	Waste generation recycled inside the plant.	Alleviation of impact of waste generated

5. Does the entity have a business continuity and disaster management plan? Give details in 100 words/ web link.  
The Company has a Risk Management Policy comprising the element of Business Continuity Plan duly approved by the Board of Directors.  
Business continuity plan refers to maintaining business functions or quickly resuming them in the event of a major disruption, whether caused by a fire, flood or any other act of God. A business continuity plan outlines procedures and instructions an organization must follow in the face of such disasters; it covers business processes, assets, human resources, business partners and more.  
Business continuity plan tackles any contingent situation covering all perceivable circumstances. It is reviewed by the Risk Management Committee, as per the need.  
Training and awareness programs are undertaken from time to time to boost the Business Continuity Plan.
6. Disclose any significant adverse impact to the environment, arising from the value chain of the entity. What mitigation or adaptation measures have been taken by the entity in this regard.  
No significant adverse impact to the environment has been reported by our value chain partners during the FY under review.
7. Percentage of value chain partners (by value of business done with such partners) that were assessed for environmental impacts.  
From time to time since the initiation of the business with the value chain partners they are made aware of this through discussions.

**PRINCIPLE 7 : Businesses, when engaging in influencing public and regulatory policy, should do so in a manner that is responsible and transparent**

**Essential Indicators:1.**

- a. Number of affiliations with trade and industry chambers/ associations : 4
- b. List the top 10 trade and industry chambers/ associations (determined based on the total members of such body) the entity is a member of/ affiliated to.

Sr. No.	Name of the trade and industry chambers/ associations	Reach of trade and industry chambers/ associations (State/National)
1	Confederation of Indian Industries (CII)	National
2	Alloy Steel Producers Association	National
3	Quality Circle Forum of India	National
4	TPM Club of India	National

2. Provide details of corrective action taken or underway on any issues related to anti- competitive conduct by the entity, based on adverse orders from regulatory authorities.

Name of authority	Brief of the case	Corrective action taken
NA	NA	NA

**Leadership Indicators**

1. Details of public policy positions advocated by the entity: Sunflag is a member of various trade associations and closely works with industry and associations to positively support in the framing of the various policies that govern the functioning of the Indian Steel Sector.

**PRINCIPLE 8 : Businesses should promote inclusive growth and equitable development.**

1. Details of Social Impact Assessments (SIA) of projects undertaken by the entity based on applicable laws, in the current financial year.  
As per the laws applicable to the Company no Social Impact Assessment of the project is required.

Name and brief project	SIA notification No.	Date of Notification	Whether conducted by independent Agency (Yes/No)	Results communicated in public domain (Yes / No)	Relevant details of Web Link external
			Not Applicable		



2. Provide information on project(s) for which ongoing Rehabilitation and Resettlement (R&R) is being undertaken by your entity, in the following format:

There was no Rehabilitation and Resettlement (R&R) required in the year 2024-25

S. No	Name of Project for which R & R is ongoing	State	District	No. of Project affected Families (PAFs)	% of PAFs covered by R & R	Amount paid to PAFs in the FY (In INR)
				Not Applicable		

3. Describe the mechanisms to receive and redress grievances of the community.  
Grievances if any can be reported to Human Resources Management Section of the Company and redressal if required is immediate.
4. Percentage of input material (inputs to total inputs by value) sourced from suppliers:

	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Directly sourced from MSMEs/ small producers, % of total value sourced	11.95	8.6
Sourced directly from within the district (Bhandara) and neighboring districts, % of total value sourced	52.35	41.13

5. Job creation in smaller towns – Disclose wages paid to persons employed (including employees or workers employed on a permanent or non-permanent / on contract basis) in the following locations, as % of total wage cost

Location	FY 2024-25 (Current Financial Year)	FY 2023-24 (Previous Financial Year)
Rural	91.98%	91.87%
Semi- Urban	-	-
Urban	4.80%	4.85%
Metropolitan	3.22%	3.28%

#### Leadership Indicators

1. Provide details of actions taken to mitigate any negative social impacts identified in the Social Impact Assessments.  
(Reference: Question 1 of Essential Indicators above):

Details of negative social impact identified	Corrective action taken
Not Applicable	

2. Provide the following information on CSR projects undertaken by your entity in designated aspirational districts as identified by government bodies:

Sr. No.	State	Aspirational District	Amount spent (In INR)
1	Maharashtra	Bhandara, Nagpur, Chandrapur	Please refer Annexure II to the Board's Report 2024-25

3. (a) Do you have a preferential procurement policy where you give preference to purchase from suppliers comprising marginalized /vulnerable groups? (Yes/No) **No**  
(b) From which marginalized /vulnerable groups do you procure? **Not Applicable**  
(c) What percentage of total procurement (by value) does it constitute? **Not Applicable**

4. Details of the benefits derived and shared from the intellectual properties owned or acquired by your entity (in the current financial year), based on traditional knowledge:

Sr. No.	Intellectual property based on traditional Knowledge	Owned/ Acquired (Yes/No)	Benefit shared (Yes/No)	Basis of calculating benefit share
	No such benefits derived or shared during FY 2024-25	-	-	-

5. Details of corrective actions taken or underway, based on any adverse order in intellectual property related disputes wherein usage of traditional knowledge is involved.

Name of authority	Brief of the Case	Corrective action taken
	Not Applicable	

## 6. Details of beneficiaries of CSR Projects

Sr. No.	CSR Project	No. of persons benefitted from CSR Projects	% of beneficiaries from vulnerable and marginalized groups
1	Sewing Machine 34	1000 Persons	92%
2	Solar Light 70	2000 Persons	98%
3	Borewell 7	1500 Persons	95%
4	RO Plant	2500 Persons	100%
5	Health Checkup	1200 Persons	95%
6	Library	500 Persons	80%

**PRINCIPLE 9 : Businesses should engage with and provide value to their consumers in a responsible manner****Essential Indicators**

- Describe the mechanisms in place to receive and respond to consumer complaints and feedback.  
The Customers can reach-out with their complaints related to our products and other concern to Company's Sales and Marketing team directly or through E-mail and Company is committed for resolution of the Complaints.
- Turnover of products and/ services as a percentage of turnover from all products/service that carry information about:

	As a percentage to total turnover
Environmental and social parameters relevant to the product	100%
Safe and responsible usage	100%
Recycling and/or safe disposal	100%

3. Number of consumer complaints in respect of the following:

	FY 2024-25 (Current Financial Year)			FY 2023-24 (Previous Financial Year)		
	Received during the year	Pending resolution at end of year	Remarks	Received during the year	Pending resolution at end of year	Remarks
Data privacy	Nil	-	-	Nil	-	-
Advertising	Nil	-	-	Nil	-	-
Cyber-security	Nil	-	-	Nil	-	-
Delivery of essential services	Nil	-	-	Nil	-	-
Restrictive Trade Practices	Nil	-	-	Nil	-	-
Unfair Trade Practices	Nil	-	-	Nil	-	-
Other	Nil	-	-	Nil	-	-

4. Details of instances of product recalls on account of safety issues:
- No such issue**

	Number	Reasons for recall
Voluntary recalls	-	-
Forced recalls	-	-

- Does the entity have a framework/ policy on cyber security and risks related to data privacy? (Yes/No). If available, provide a web-link of the policy. **Yes**, Company has the policy on cyber security and risks related to data privacy.  
Weblink: <https://sunflagsteel.com/wp-content/uploads/2023/02/Sunflag-Policy-Quality-environment-health-etc.pdf>  
Sunflag working on getting certified for on ISO 27001: Information security, cybersecurity and privacy protection — Information security management systems
- Provide details of any corrective actions taken or underway on issues relating to advertising, and delivery of essential services; cyber security and data privacy of customers; re-occurrence of instances of product recalls; penalty / action taken by regulatory authorities on safety of products / services.  
There was no such occurrence.
- Provide the following information relating to data breaches:
  - Number of instances of data breaches along-with impact  
No such incidence occurred.
  - Percentage of data breaches involving personally identifiable information of customers-0%

**Leadership Indicators**

- Channels / platforms where information on products and services of the entity can be accessed (provide web link, if available).  
<https://sunflagsteel.com/wp-content/uploads/2020/04/web-brochure.pdf>  
Sunflag Steel | Different Categories of Sunflag Steel  
Sunflag Iron and Steel Official Company Video - YouTube  
All information regarding the Company's business can be accessed through the Company's website <https://sunflagsteel.com/> and in its periodic disclosures such as the annual report.

2. Steps taken to inform and educate consumers about safe and responsible usage of products and/or services.  
We have a dedicated sales team to ensure pre to post sale services to our customer. Post-sale service ensures smooth usage of our products and problem solving through a partnership approach that helps us forge long-lasting relationships with our customers.
3. Mechanisms in place to inform consumers of any risk of disruption/discontinuation of essential services.  
At Sunflag Steel we do not deal with any essential services, however, in case of any disruption, we can give information through our website, various mass media platforms, social media platforms, distribution network, sales representatives, emails, etc. In addition, consumers can reach out to us <https://sunflagsteel.com/contact-us/>
4. Does the entity display product information on the product over and above what is mandated as per local laws? (Yes/No/Not Applicable)- If yes, provide details in brief. Did your entity carry out any survey with regard to consumer satisfaction relating to the major products / services of the entity, significant locations of operation of the entity or the entity as a whole? (Yes/No)  
**Yes**, we disclose the relevant information required by the customer. The Company engages with its customers and conducts periodical surveys to assess the satisfaction levels related to service, delivery, quality of product, complaint handling etc.

**Annexure 1**  
**Solid Waste Generation & Disposal Statement**

Sr. No.	Type of Solid Waste Generated	UOM	Qty of Solid Waste		Disposal
			2024-25	2023-24	
1	Slag (SMS, EAF & SS Refining Converter)	MT/A	85,615	71,222	Used for Brick Manufacturer/Landfill
2	Fly Ash (CPP)	MT/A	17,632	18,414	Used for Brick Manufacturer / sale to cement plant
3	Bed Ash (CPP)	MT/A	1,032	980	Used for Brick Manufacturer / sale to cement plant
4	Dusts from Bag Filters (DRP & SMS)	MT/A	40,556	22,510	Reuse in Sinter plant
5	DRP Sludge (DRP)	MT/A	0	129	Reuse as fuel in Sinter Plant
6	Mill Scale (SMS & Rolling Mill)	MT/A	10,597	7,462	Reuse in Sinter plant
7	Iron/Steel Scrap/Rejected Billets (SMS)	MT/A	23,191	9,519	Recycle in Steel Melt Shop
8	Grinder waste (Rolling Mill)	MT/A	144	166	Recycle in Steel Melt Shop
9	Granulated MBF Slag	MT/A	1,72,366	2,05,808	By sale to Cement Industries / Landfill
10	Granulated MBF GCP	MT/A	2,697	26,200	Reuse in Sinter plant
11	Coke Fines & Nut Coke (MBF)	MT/A	13,730	23,826	Reuse in Sinter plant
12	Iron Ore Fines (DRI & MBF)	MT/A	60,386	1,48,809	Reuse in Sinter plant
13	Dusts (ETP & WTP)	MT/A	109	125	Reuse in Sinter plant
14	Coal Rejected (Stones & Shells)	MT/A	0	11,083	Landfill
15	Removed dust (Sinter plant)	MT/A	8,930	12,327	Reuse in Sinter plant
16	Sinter returned fines from Sinter	MT/A	1,23,239	1,44,035	Reuse in Sinter plant
17	Hot Scrap	MT/A	20,336	26,668	Recycle in Steel Melt Shop
18	DRI Ash/Char (By products)	MT/A	14,800	14,970	Reuse in Captive Power Plant

Sr. No.	Type Hazardous waste Generated	UOM	Qty of HW Waste		Disposal
			2024-25	2023-24	
1	Used / Spent Oil	MT/A	-	-	Recycled in our reheating furnace and partially sold to authorized reproprocessors.
2	Waste or residue containing Oil	MT/A	-	-	Sale to authorized recycler
3	Acid Residue/Spent Bath Sludge/ Chemical sludge from waste water treatment (12.1,12.2 & 35.3)	MT/A	253	239	Reuse in Sinter plant

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**Annexure - 2****Solid Waste generation and Management:**

**Fly Ash (CPP):** Generation of fly ash is basically from AFBC Boiler. Fly ash is removed from fluidized bed of the steam generator and hoppers of the steam generator bank, economizer, air pre-heater and ESP. In the existing setup, generation of fly ash for **year 2024 - 25 is 17,632 MTA against consent quantity 26,784 MTA.**

Fly ash, collected is conveyed pneumatically through pipeline to fly ash silo. Electronic controls are installed to ensure leak proof transfer of fly ash from hoppers to fly ash silo. Bag house filter is also installed at fly ash silo to arrest fugitive emissions.

Fly ash is sent to cement plants and balance is used for in-house brick manufacturing. Care is taken to avoid any dust emission.

**Bed Ash (CPP):** Bed ash is generated from AFBC steam generator. The total quantity of bed ash generation for **year 2024 - 25 is 1,032 MTA against consent quantity 22,320 MTA.**

Quenching of the bed ash is carried out by spraying the cooling tower blow down water. Bed Ash is used for internal road and sent to brick manufacturer/Cement plant.

**ESP Dust & DRI Ash + Bag Filter Dusts (DRI Product Separation Dust & SMS bag filter dust):** ESP Dust and DRI Ash are generated at DRI Plant and used as fuel in the existing plant. DRI sludge is also used as fuel in FBC Boiler and also disposed by sale to local parties. DRI sludge will be generated from the scrubber installed at the DRI Plant. This sludge will be basically DRI Ash having good calorific value.

The water treatment plant and effluent recycle plant provided in close loop of CCM, BSM & ASM has sludge drying beds for solar drying of solids separated at sludge drying beds / vacuum filter for making cakes. This is used in sinter plant for sinter manufacture.

In the existing setup, generation of ESP Dust & DRI Ash for **year 2024 - 25 is 48,452 MTA** (ESP dust 33,652+ DRI Ash 14,800) TPA + Dusts are collected from the bag filters installed in various sections mainly raw material handling in DRI and SMS/AOD, the quantity of bag filters dusts is **6,904 TPA** ( DRP Product bag filter dust 2,104 MTA + SMS Bag filter dust 4,800 MTA) **against the consent quantity of ESP dust and Dust from bag filter of DRP & SMS dust 52,620 MTA & DRI Ash 15,000 MTA.**

Dust collected at the bag filters of raw material handling sections of direct reduced iron plant is partly reused in the process of manufacturing sponge iron and balance for utilization in sinter plant for manufacturing sinter. The dust collected from the bag filters provided to EAF and LHF of the steel melting shop is **4,800 MTA** and is used in the sinter plant for manufacturing sinter. The dust collection from the bag filter provided to Stainless Steel Refining Converter of the steel melting shop is also used in the sinter plant for manufacturing sinter.

**IF & EAF Slag:** In existing setup, slag is generated from SMS. Total quantity of **slag generation for year 2024-25** is about **85,615.25 MTA** against consent quantity **1,95,629 MTA** and it is disposed by landfill within factory area. Slag is generated from Stainless Steel Refining Converter is **3,053 MTA** also and it is used in the sinter plant for manufacturing sinter.

Slag will be generated from IF & EAF. Total quantity of slag generation, at full **production capacity will be about 1,95,629 MTA.** It will be disposed for roads construction and other end users. Slag will be generated from Stainless Steel Refining Converter also and it will be used same as in existing set up.

**Mill Scale (CCM & Rolling Mill):** Mill scale is generated at CCM, BSM, ASM & Blooming mill Sections. The quantity of mill scale generated for **year 2024-25 is about 10,597 MTA against consent quantity 32,050 MTA.** Water used for cooling purposes of billets and rolled steel products, carries mill scale along with it and admitted in scale pit under gravity. From the scale pit, mill scale is removed periodically. The total mill scale constitutes 2/3<sup>rd</sup> from CCM mill scale and about 1/3<sup>rd</sup> from BSM/ASM Mill Scale. These scales are used for sinter manufacture.

**Iron/Steel Scrap/Rejected Billets (Rolling Mill):** Total generation of Iron/Steel Scrap/Rejected Billets from existing plant for **year 2024 - 25 is 23,190.76 MTA against consented quantity 32,050 MTA**

Iron/Steel Scrap 23,190.76 MTA is generated during cutting of steel bars at BSM, ASM & Blooming mill of Rolling Mill and also Steel Scrap is also generated from Bright Bar Section and Coiler. Rejected Billets. These solid wastes are recycled by melting in the steel manufacturing.

**Grinder Waste (Rolling Mill):** It is generated during removal of upper layer of steel bars at Bright Bar Section. Total quantity of grinder waste generation for **year 2024-25 is about 143.717 MTA** against consent quantity **240 MTA.** This waste is recycled to SMS section for melting and reuse.

**Coal Rejects:** This waste is generated in the process of screening of crushed and wet coal. The stone and shells of the coal are separated at screening. It is estimated 84000 MTA at full production capacity, the generated stone & shells are used for landfill within the premises.

**Granulated MBF Slag:** Granulated MBF slag is taken from the bottom of MBF. The generation of MBF slag for **year 2024 - 25 is 1,72,366 MTA** against consent quantity **2,02,500 MTA**. This slag is partly used for making concrete roads within factory premises and balance is disposed by sale to cement plants.

**Residue at MBF Gas Cleaning Plant (Granulated MBF GCP) :** It is separated in thickner of Gas Cleaning Plant at MBF. The generation for **year 2024 - 25 is 2,697 MTA** against consent quantity **30,168 MTA.** This residue is used for sinter manufacture.

**Coke Fines & Nuts (MBF Plant):** Coke fines are generated at MBF. The generation for **year 2024 - 25 is 13,730 MTA** against consent quantity **27,434 MTA.** Coke Fines are used in the sinter plant for manufacturing sinter.

**Iron Ore Fines (DRI & MBF Plant) & Sinter Fines :** Iron Ore fines and Sinter fines are generated at DRI Plant & MBF. Total generation for **year 2024 - 25 is 60,386 MTA** against consent quantity **1,71,344 MTA.** Iron Ore Fines generation at DRI Plant is **20,010 MTA** and at MBF Iron Ore Fines & Sinter fine generation is **40,376 MTA**. Iron Ore Fines are used in the sinter plant for manufacturing sinter.

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**Removed dust (Sinter Plant):** Removed dust is generated in Sinter plant for year **2024 - 25 is 8,930 MTA** against consent quantity **20,112 MTA** at full production capacity. Removed dust is recycled in sinter plant.

All stock piles and waste are and will be laid on top of a stable liner to avoid leaching of materials to ground water. Some plants of *Brassicaceae* family will be planted near raw material storage yard, ash disposal site as well as around the project area as a precautionary measure of phytoremediation.

#### **4.7.2 Hazardous Waste**

**Used/Spent Oil (Schedule–1, Category No. 5.1):** Lubrication & other oils used in machineries lose their properties after use for some days. Used oils removed from machineries, gear boxes, compressors etc are collected in drums and the well-packed drums are temporarily stored in specifically earmarked area within the premises.

These oils will be used in furnaces/Boilers and also for anti-rust coating of rolled steel products and also sold to authorized reproprocessors /recyclers.

**Acid Residue, Spent Bath Sludge and ETP Chemical Sludge (Category No. 12.1, 12.2 & 35.3):** Spent acid, acid residue and spent bath sludge generated at Bright Bar Section and Coinage Plant is used at our sinter plant as a raw material. Similarly spent acid, acid residue, spent bath sludge and rinsing water generated from pickling plant, neutralize it, sent to Filter press, after neutralization, cakes generated from Filter press disposed of to our Sinter plant for Sinter manufacturing.

In effluent treatment plant, neutralization is carried out and after flocculation, suspended solids are separated out at clarifier & gravity sand filters. Suspended solids in the form of dried sludge separated at gravity sand filters is termed as Chemical Sludge and disposed off to Sinter plant.

At CPP, regeneration of DM Plant is carried out periodically by using acid and sodium hydroxide. Effluent of DM Plant is very small and after neutralization in underground pit, the overflow of the pit is mixed with other treated effluents for disposal. Underground Pit of the DM Plant section is cleaned once in six months and solids are sent filter press. These solids are termed chemical Sludge, used at our Sinter plant.

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