SHAKAMBHARI GROUP #SteelWithin	**SHAKAMBHARI ISPAT & POWER LTD.** (Formerly known as Ess Dee Aluminium Ltd.)		
STANDARD OPERATING PROCEDURE			
Title: Aspect & Impact Analysis			**Page No.** 1 of 6
SOP No.	**Version No.**	**Effective Date**	**Next review date**
SIPL/QAS/022	00	07.07.2026	06.07.2028

1.0 PURPOSE

1.1 The purpose of this procedure is to establish a process to:

1.1.1 Identify activities / operations of SHAKAMBHARI ISPAT & POWER LTD. that may interact with the environment (environmental aspects).

1.1.2 Assess their environmental impacts to determine the significant environmental aspects.

1.1.3 Analyse and suggest control measures to minimize the impacts of these significant environmental aspects to preserve and conserve the environment.

2.0 SCOPE

2.1 This SOP applies to all the activities and processes of SHAKAMBHARI ISPAT & POWER LTD.

3.0 REFERENCE(S) & ATTACHMENTS

3.1 References

3.1.1 In-house

3.2 Attachments

3.2.1 Attachment-I : Aspect & Impact Analysis Sheet : SIPL/QAS/022/F01/00

3.2.2 Attachment-II : List of Significant Environmental Aspects : SIPL/QAS/022/F02/00

4.0 RESPONSIBILITY

4.1 Department Head

4.1.1 To identify the aspects related to their activities and control of significant aspects.

4.2 QA Head:

4.2.1 To identify the significant aspects and determine the control methods with the help of departmental heads.

5.0 DISTRIBUTION

5.1 Quality Control
5.2 Production
5.3 Warehouse
5.4 Admin & HR

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6.0 DEFINITION(S) & ABBREVIATION(S)

6.1 Definitions

6.1.1 **Environment:** Surroundings in which an organisation operates, including air, water, land, natural resources, flora, fauna, humans and their interrelation.

6.1.2 **Environmental Aspects:** Elements of an organisation's activities or products or services that can interact with the environment.

6.1.3 **Environmental Impact:** Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects.

6.1.4 **Environmental Objectives:** Overall environmental goals, consistent with the environment policy, that an organisation sets itself to achieve.

6.2 Abbreviations

6.2.1 Nil

7.0 PROCEDURE

7.1 Identification of Environmental Aspects

7.1.1 Identification of environmental aspects within the site is done by identifying the elements of the site that interact with the environment. This includes physical activities undertaken by the foil manufacturing activities of SIPL. The methods used for identification of environmental aspects are:

7.1.1.1 In each activity, the flow of a work process is identified.

7.1.1.2 The steps involved in the work process are determined.

7.1.1.3 The environmental aspects which occur within each step of the process are identified.

7.1.2 The various tools used for identification of environmental aspects are:

7.1.2.1 Physical inspection of work place.

7.1.2.2 Discussion with employees.

7.1.2.3 Brainstorming.

7.1.3 All the employees are encouraged to analyse their job activities, with a view to identify the environmental aspects and their impacts.

7.1.4 Also consider the life cycle prospect while identifying the aspects. Mark "Y" when any aspect can be recycled or reused either by SIPL or by their suppliers (within the premises or outside premises), or otherwise mark as "N".

7.1.5 The Impact Assessment Committee (IAC) shall comprise the following:

7.1.5.1 Head QA / QC

7.1.5.2 Head Production

7.1.5.3 In-charge Maintenance

7.1.5.4 Store In-charge

7.2 Impact Assessment

7.2.1 The IAC shall carry out the assessment of impacts associated with the various environmental aspects. The objective of the assessment is to determine the environmental aspects that have a significant impact on the environment.

7.2.2 The Group Impact Assessment method shall be adopted for assessment of impacts associated with the identified environmental aspects.

7.2.3 The assessment of impacts associated with each environmental aspect shall be carried out by evaluating and rating the aspects on the following factors, taking into account all existing controls in place:

7.2.3.1 Quantum of exposure

7.2.3.2 Likelihood of occurrence

7.2.3.3 Severity of impact

7.2.3.4 Ease of detection

7.2.3.5 Associated legal requirements (if any)

7.2.4 The scale used for rating the impact is given in Table-1.

7.2.5 The individual group members shall give a rating on all the factors. The final rating of the factors shall be the highest of the ratings given by the individual members.

7.2.6 The total score for an environmental aspect shall be the product of the ratings on the above factors.

7.3 Significance of Environmental Aspect

7.3.1 Based on the result of impact assessment, the environmental aspects are categorised into significant environmental aspects & non-significant environmental aspects as per the following table:

Total Score	Type of Aspect
≥ 15	Significant Environmental Aspect
< 15	Non-significant Environmental Aspect

7.3.2 The IAC shall also consider legal and / or statutory issues linked with the activities during assessment of impacts. In case the total score is less than 15, but legal and / or statutory issues are involved, the aspect may also be considered as a significant aspect.

7.3.3 Emergency: aspects identified as an emergency condition shall also be treated as significant.

7.4 Control of Environmental Impact

7.4.1 The IAC recommends various measures to minimize the impact in case of significant aspects.

7.4.2 The existing controls, if any, for non-significant environmental aspects shall be continued.

7.4.3 The hierarchy of control methods shall be:

7.4.3.1 Elimination or substitution

7.4.3.2 Engineering control methods

7.4.3.3 Administrative control methods and PPEs

7.4.4 The various control measures to minimize the impact in case of significant aspects, recommended by IAC, shall be implemented after approval of Management.

7.5 Recording

7.5.1 The identified environmental aspect, impact assessment and approved impact control measures shall be recorded in format no. SIPL/QAS/022/F01/00.

7.5.2 The significant environmental aspects are also identified as per format no. SIPL/QAS/022/F01/00, filtered for Significant (S).

7.6 Implementation

7.6.1 The approved impact control measures shall be widely communicated to all concerned.

7.6.2 It is the responsibility of the departmental heads to implement these impact control measures for relevant activities, whether routine or non-routine, being performed in their respective departments.

7.6.3 The impact control measures are applicable not only to the employees of the corporation but also to all other persons working on behalf of the organisation.

7.6.4 Based on the result of impact assessment, the departmental heads along with the MR shall formulate IMS objectives for their respective areas, wherever applicable. The objectives shall be consistent with the Environment Policy of SIPL, including the commitment to continual improvement, legal and other requirements, technological options, and financial, operational and business requirements and views of interested parties.

7.6.5 For each of the IMS objectives, an action plan shall be formulated for achieving the objectives. These action plans are designed in a manner that for each objective, resources and interface requirements, monitoring, reporting and control mechanisms are also laid down.

7.6.6 For all activities that are associated with identified significant aspects where a control measure needs to be applied and where it is necessary to carry out such activities under specified conditions, documented Operational Control Procedures (OCP) or Standard Operating Procedures (SOP) shall be prepared for such activities by the respective departmental heads / station in-charge / construction office in-charge / HOD.

7.6.7 In case any significant impact pertaining to goods and services used by SIPL is identified, the same, along with applicable control measures, shall be communicated to the Purchase department for intimation to the suppliers during procurement.

7.7 Monitoring

7.7.1 The monitoring of effectiveness of impact control measures is done by the IAC, which shall review the same once in a year for any improvement. The existing controls, if any, for non-significant environmental aspects shall also be monitored by the IAC.

7.7.2 The action plans for IMS objectives shall be reviewed annually and, whenever required, action plans shall be amended to ensure continuing suitability.

7.8 Table-1 : Rating Scale for Impact Assessment

Rating	Quantity (A)	Occurrence (B)	Impact (C)	Legislation (D)	Detection (E)	Control (F)
5	Frequent (Spread outside boundary of Plant Or Scrap more than 1 Ton)	Continuous (can happen anytime in the Month)	Critical on Environment, Effect on Human Health	Legal Requirement	More than 24 hours	Absent or no effective Control
4	Probable (Restricted within Plant Or Scrap below 1 Ton)	Several times in a Day (can happen in 3-6 Months)	Affects flora fauna or marine life or Global Issue	-	Within 24 hours	Mechanism in Place but not reliable

Rating	Quantity (A)	Occurrence (B)	Impact (C)	Legislation (D)	Detection (E)	Control (F)
3	Occasional (Restricted within shop floor Or Scrap between 10 - 100 kg)	Several times in a Week (can happen in 6-12 Months)	Resource Depletion	-	Within 8 hours	Control needs human intervention
2	Remote (Restricted within workstation/area Or Scrap less than 10 kg)	Once in a Month or less (can happen in 1-3 years)	Causes discomfort to employees or nuisance	Interested Parties Concern	Within 1 hour	Has inbuilt Secondary Control
1	Improbable (Not visible or scrap below 1 kg)	Very Rare (cannot happen in above 3 years)	Negligible Visual Impact	Not Applicable	Immediate	Available & Effective at Source

8.0 REVISION HISTORY

Revision No.	00	**Effective Date**	07.07.2026	CC No.	NA
Details of revision: New SOP					

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