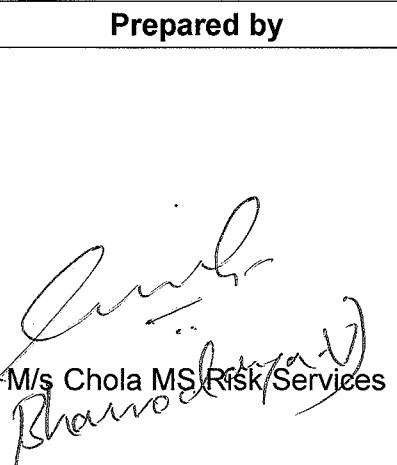
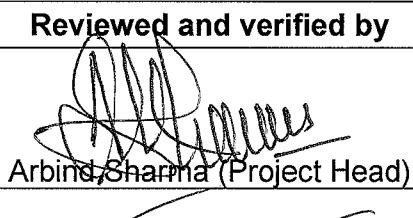
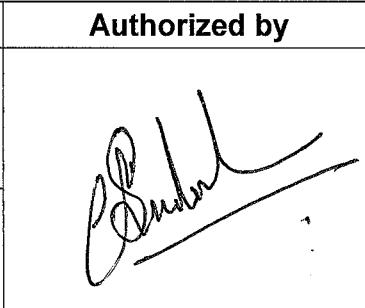
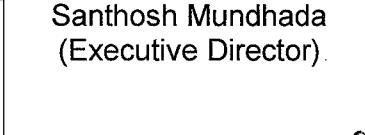
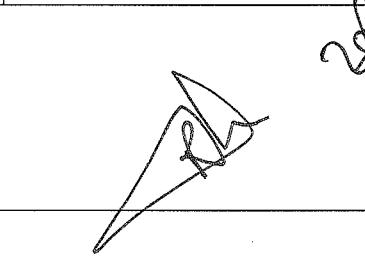


<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 1 of 8</b>

## **STANDARD OPERATING PROCEDURE (SOP)**

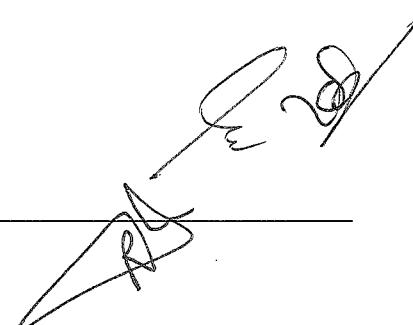
# **WASTE MANAGEMENT PLAN**

<b>Prepared by</b>	<b>Reviewed and verified by</b>	<b>Authorized by</b>
 M/s Chola MS Risk Services Arbind Sharma	 Arbind Sharma (Project Head)	 Santhosh Mundhada
	 Jose Numpeli (Project Head)	 Santhosh Mundhada (Executive Director)
	 Samar Suri (Project Head)	 Santhosh Mundhada (Executive Director)

<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 2 of 8</b>

Document Change Note

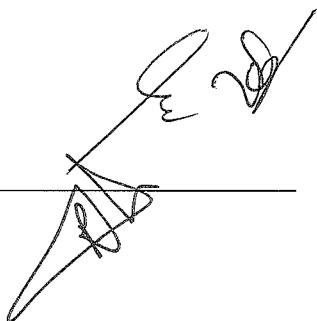
Rev. No	Rev. Date	Comments / Changes
00	29-12-2022	New Issue



<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref.:	<b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No.	<b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date:	<b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No.	<b>Page 3 of 8</b>

## **CONTENTS**

<b>1 PURPOSE</b> .....	4
<b>2 SCOPE</b> .....	4
<b>3 DEFINITIONS AND ABBRVIATIONS</b> .....	4
3.1 DEFINITIONS .....	4
3.2 ABBREVIATIONS .....	4
<b>4 RESPONSIBILITIES</b> .....	5
<b>5 DESCRIPTION</b> .....	6
5.1 SOURCES OF WASTE GENERATION .....	6
5.2 WASTE SEGREGATION AT SOURCE .....	6
5.3 WASTE STORAGE AT PROJECT PREMISES .....	7
5.4 WASTE DISPOSAL .....	7
<b>6 TRAINING</b> .....	8
<b>7 RECORDS</b> .....	8
<b>8 REFERENCE DOCUMENTS</b> .....	8



<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 4 of 8</b>

## 1 PURPOSE

The purpose of this procedure is to ensure proper handling, segregation, storage and disposal of various waste materials generated at AMNS project site is in compliance with regulatory and project specific requirements.

## 2 SCOPE

This procedure shall apply to all AMNS project sites and related work areas including contractors to meet –

- Legal and regulatory requirements
- Project specific HSE requirements
- ISO 45001 and ISO 14001 standard requirements
- AMNS HSE Policy

## 3 DEFINITIONS AND ABBRVIATIONS

### 3.1 DEFINITIONS

#### Non-Hazardous waste

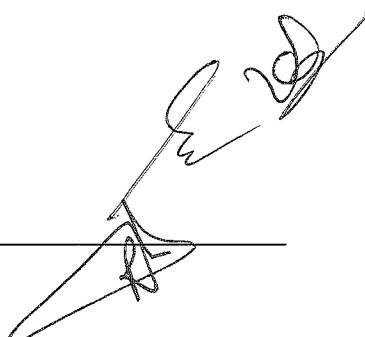
Waste containing non-hazardous materials which do not fall within the categories listed as hazardous waste by regulations of India.

#### Hazardous waste

Any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances.

### 3.2 ABBREVIATIONS

SOR	- Safety Observation Report
HSIC	- Hazardous Substance Information Card
MSDS	- Material Safety Data Sheet



<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 5 of 8</b>

## **4 RESPONSIBILITIES**

Project Head shall be responsible for the overall implementation of the waste management program at the Project Sites.

Responsible for providing appropriate colour coded bins/ containers and related facilities for proper segregation at the points of generation

### **Site Supervisors**

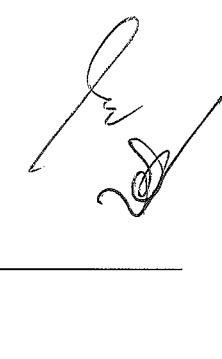
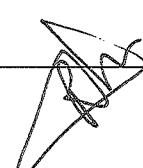
Ensure that dustbin are located at multiple points in the site and ensure that those bins are emptied regularly.

### **HSE Manager**

Carry out inventory of waste, ensure that waste is disposed in accordance with this procedure and in compliance with regulatory requirements and maintain records.

### **All workmen**

Responsible for segregation of waste as per this procedure at source of generation and dispose at designated places only.

<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 6 of 8</b>

## 5 DESCRIPTION

### 5.1 SOURCES OF WASTE GENERATION

The sources of waste shall be assessed at the beginning of the project. The quantity of waste generation may vary based on the project nature and size.

### 5.2 WASTE SEGREGATION AT SOURCE

Segregation and storage of waste generated shall be done as per the The Solid Waste Management Rules, 2016.

Segregation is done according to followings categories:

a) Non-hazardous waste

- Paper, general rubbish, carton boxes
- Metal scrap
- Wooden pallets, timber
- Food waste
- Sewage waste

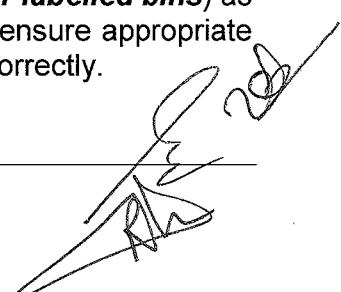
b) Hazardous waste (pertaining to a construction project, but not limited to)

- Used Hydraulic Oil
- Used lubrication oil
- Used grease
- Plastic (Bottles, pouches, other plastic sheets)
- Paint and solvent tins/cans
- Spilled chemicals
- Expired chemicals
- Construction and Demolition Waste
- Electronic-Waste

Refer the following rules for getting the exhaustive list of hazardous chemicals

- Manufacture, Storage And Import Of Hazardous Chemical (Amendment) Rules, 1989
- Hazardous Waste Management Rules, 2016

Personnel working at each work site and at each source of waste generation shall ensure that they dispose the waste in appropriate bins (**Colour coded and/or labelled bins**) as part of segregation at source. It is the responsibility of supervisor to ensure appropriate bins are made available and monitor waste is disposed by his team correctly.



<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref: <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 7 of 8</b>

### **5.3 WASTE STORAGE AT PROJECT PREMISES**

Storage yard is organised in such a manner that the segregated waste at source is maintained. Separate area is allocated and demarcated to store the waste as per the categorisation described in 5.2. Segregated materials are maintained with their status until they are finally disposed as described in 5.4. Appropriate precautions are taken to prevent mix up of various categories by using bins, covers, barricading, etc. Storage areas are labelled for easy identification of type of waste to be stored for the personnel responsible for storing the waste.

Refer the following rules for the storage quantity / storage time:

- Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 1989
- Bio-medical waste (management and handling) rules, 1998
- The E-Waste (Management) Rules, 2016

As a best a best practise, the following colour coding can be used for the waste bins:

1. Green colour - Organic (General) Waste (other than food)
2. Red colour - Hazardous Waste
3. Black colour - Food Waste
4. Blue colour - E-Waste
5. Yellow colour - Plastic Waste
6. White colour - Biomedical waste
7. Construction & Demolition (Concrete) Waste - Waste Yard with barricades

### **5.4 WASTE DISPOSAL**

Final disposing of various categories of waste by AMNS shall either from storage yard or directly from the place of generation. The place of disposal shall be established / identified for the project.

All the hazardous waste is disposed through registered contractor authenticated by regulatory bodies and records are maintained on the quantity of waste disposed for each category.

Site HSE Manager shall carry out periodic inspections/ audits of the premises of waste contractors to ensure that the contractor is recycling/ disposing the waste in compliance with applicable regulations.

Construction and demolition wastes shall be stored separately, as and when generated, in his own premises and shall dispose off as per the Construction and Demolition Waste Management Rules, 2016.

<b>AM/NS INDIA (AMNSIL)</b>	<b>ARCELORMITTAL NIPPON STEEL INDIA LIMITED</b>	Ref. <b>AMNS/Project/SOP/HSEM/11</b>
	<b>HSE MANAGEMENT SYSTEM FOR PROJECTS</b>	Revision No. <b>00</b>
	<b>STANDARD OPERATING PROCEDURE (SOP)</b>	Effective Date: <b>29-12-2022</b>
	<b>WASTE MANAGEMENT PLAN</b>	Page No. <b>Page 8 of 8</b>

## 6 TRAINING

All employees are trained on this procedure and made aware of their role in waste segregation and correct disposal.

Training activities shall be documented and individual records shall be maintained.

## 7 RECORDS

<b>S. No</b>	<b>RECORD</b>	<b>MAINTAINED BY</b>	<b>RETENTION TIME</b>
1.	Waste disposal records	HSE Department/ Project site	Until completion of the project

## 8 REFERENCE DOCUMENTS

AMNS/Project/SS/HSEM/05	TRAINING, AWARENESS AND COMPETENCE
AMNS/Project/SS/HSEM/08	HIRAC
AMNS/Project/SS/HSEM/15	ENVIRONMENTAL MANAGEMENT
AMNS/Project/TS/HSEM/02	FORM WORK, CONCRETEING MASONARY WORK
AMNS/Project/TS/HSEM/05	DISMANTLING AND DEMOLITION SAFETY
AMNS/Project/TS/HSEM/15	HAZARDOUS SUBSTANCES MANAGEMENT
AMNS/Project/SOP/HSEM/10	HYDRO TEST

