

For Restricted Circulation only

 SHAKAMBHARI GROUP #SteelWithin		SHAKAMBHARI ISPAT & POWER LTD. (Formerly known as Ess Dee Aluminium Ltd.)	
STANDARD OPERATING PROCEDURE			
Title: Operation of Air Compressor			Page No. 1 of 2
SOP No.	Version No.	Effective Date	Next review date
SIPL/ENI/002	00	07.07.2026	06.07.2028

1.0 PURPOSE

1.1 To define a procedure for operation of Air Compressor.

2.0 SCOPE

2.1 This SOP applies to Utility section of Engineering department.

3.0 REFERENCE(S) & ATTACHMENTS**3.1 References**

3.1.1 In-house

3.2 Attachments

3.2.1 Attachment- I : Compressor Log Sheet SIPL/ENI/002/F01/00

3.2.2 Attachment- II : PM Check List SIPL/ENI/002/F02/00

4.0 RESPONSIBILITY**4.1 Engineering Department Person:**

4.1.1 To prepare the SOP.

4.2 Engineering Head:

4.2.1 To ensure the training of the SOP to all concerned personnel involved in implementation of the SOP.

4.2.2 To ensure the implementation of the SOP after training.

4.3 Quality Assurance Person:

4.3.1 To check the SOP.

4.3.2 To maintain the original copy of the SOP.

4.3.3 To issue controlled copy of the SOP.

4.3.4 To maintain issuance record of SOP.

4.3.5 To retrieve the controlled copy of the SOP when it is superseded/obsolete and maintain its record.

4.4 QA Head:

4.4.1 To approve new or revised SOP.

4.4.2 To ensure the implementation of the defined system.

4.5 Department Head:

4.5.1 To approve new or revised SOP.

4.5.2 To ensure the implementation of the defined system.

5.0 DISTRIBUTION

5.1 Quality Control

5.2 Production

5.3 Engineering

6.0 DEFINITION(S) & ABBREVIATION(S)**6.1 Definitions**

6.1.1 Nil

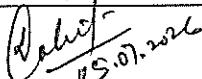
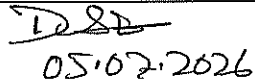
6.2 Abbreviations

6.2.1 PPM: Parts Per Million

6.2.2 Temp: Temperature

6.2.3 °C: Degree Centigrade

6.2.4 PM: Preventive Maintenance

Prepared By:	Checked By:	Approved By:
		

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7.0 PROCEDURE

7.1 Pre-Start Checking:

- 7.1.1 Clean the outer surfaces of the compressor using cotton cloth.
- 7.1.2 Check the oil level in the oil tank using the gauge glass fitted on it. The level should be half of the tank.
- 7.1.3 Ensure all valves are in open condition.
- 7.1.4 Ensure the emergency switch is healthy.

7.2 Start-up Procedure:

- 7.2.1 Power on the MCB located inside the compressor panel.
- 7.2.2 Wait for one minute. Within one minute the compressor should start automatically.
- 7.2.3 Power on the switch of the dryer.

7.3 Checks While Running:

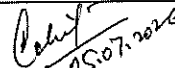
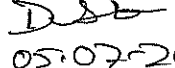
- 7.3.1 Check whether the compressor is getting Load/Unload as per set pressure.
- 7.3.2 Ensure the oil temperature does not exceed 80 °C.
- 7.3.3 Clean the air filter of the compressor and dryer on a weekly basis.
- 7.3.4 Check the dew point of the dryer; it should not exceed 10 °C.
- 7.3.5 On Daily once more shift drain the condensed water of the receiver tank through the drain valve.
- 7.3.6 On a Monthly basis, check the safety valve (located on the air receiver tank) by operating it manually.

7.4 Shut Down Process:

- 7.4.1 Power off the MCB located inside the compressor panel.
- 7.4.2 Power off the switch of the dryer.

8.0 REVISION HISTORY

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

Prepared By:	Checked By:	Approved By:
 05.07.2026	 05.7.26	 05.07.2026