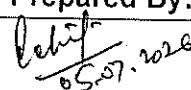
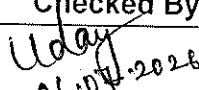


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 SHAKAMBHARI GROUP # SteelWithin	SHAKAMBHARI ISPAT & POWER LTD. (Formerly known as Ess Dee Aluminium Ltd.)		
STANDARD OPERATING PROCEDURE			
Title: Operation of DG Set			Page No. 1 of 3
SOP No.	Version No.	Effective Date	Next review date
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- 1.0 PURPOSE**
1.1 To define a procedure for operation of DG Set.
- 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 : DG Set Log Sheet SIPL/ENI/001/F01/00
3.2.2 Attachment- II : PM Check List SIPL/ENI/001/F02/00
- 4.0 RESPONSIBILITY**
4.1 **Engineering Department Person:**
4.1.1 To prepare the SOP.
4.1.2 To prepare a list of the SOP in Engineering Department.
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4.3.5 To retrieve the controlled copy of the SOP when it is superseded/obsolete
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 **Plant 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 DG Set: Diesel Generator Set produces electrical power by consuming diesel. It works as alternate power back-up of the plant.
6.2 **Abbreviations**
6.2.1 B/C: Bus Coupler
6.2.2 ACB: Air Circuit Breaker
6.2.3 SOPs: Standard Operating Procedures
6.2.4 M/C: Machine
6.2.5 Amp: Ampere

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SHAKAMBHARI ISPAT & POWER LTD.
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STANDARD OPERATING PROCEDURE

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7.0 PROCEDURE

7.1 Pre-Start Checking:

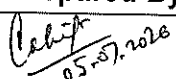
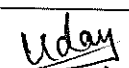
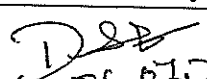
- 7.1.1 Clean the outer surfaces of the DG Set using cotton cloth.
- 7.1.2 Check the fuel (diesel) level using stick having a minimum marking level. It should be above the minimum level.
- 7.1.3 Check the coolant water level. It should be visible from the top of the radiator.
- 7.1.4 In the DG electrical panel, select the key to 'Run' mode. Check the battery voltage in the DG electrical panel. The value should show minimum 22 volt DC.

7.2 Start-up Procedure:

- 7.2.1 In the DG electrical panel, select the key to 'Run' mode.
- 7.2.2 In the Power Control Centre area, go to the DG Breaker panel. Select the switch to Auto mode.
- 7.2.3 In the Power Control Centre area, go to the B/C Breaker panel. Select the switch to DG-2.
- 7.2.4 In the Power Control Centre area, go to the DG Breaker panel. Pull the lever of the breaker on by moving it from right to left side.
- 7.2.5 Similarly, switch on the B/C Breaker.

7.3 Checks While Running:

- 7.3.1 Check the voltage in the display located in the DG electrical panel. LL (Line to Line) voltage should not be less than 440 volts.
- 7.3.2 Keep checking the fuel level every half an hour. The level should not be below the minimum level.
- 7.3.3 Every half an hour, keep checking the temperature in the temperature display located at the DG electrical panel. It should not be more than 80 °C.
- 7.3.4 Every half an hour, keep checking the oil pressure in the display located at the DG electrical panel. It should not be less than 2.5 kg/cm².
- 7.3.5 Every half an hour, keep checking the load (Amp) in the display located at the DG electrical panel. It should not be more than as per machine

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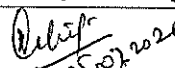
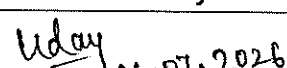
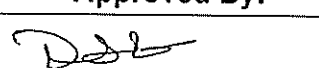
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7.4 Closing of DG Set:

- 7.4.1 In the Power Control Centre area, first switch off the breaker of B/C by pressing the 'Trip' push button.
- 7.4.2 In the Power Control Centre area, switch off the breaker of DG-2 by pressing the 'Trip' push button.
- 7.4.3 Wait for ten minutes for the DG Set to cool off.
- 7.4.4 In the Power Control Centre area, go to the DG Breaker panel. Select the switch to Manual mode.
- 7.4.5 In the DG electrical panel, select the key to 'Off' mode.

8.0 REVISION HISTORY

Revision No.	00	Effective Date	07.07.2026	CC No.	N/A
Details of revision: New SOP					

Prepared By:	Checked By:	Approved By:
 05.07.2026	 06.07.2026	 06.07.2026