 Discovery Labs	<b>STANDARD OPERATING PROCEDURE</b>			
	SOP No.:	SOP-ED-017-01	Effective Date:	17.08.2017
	Supersedes :	SOP-ED-017-00	Next Review Date:	16.08.2020
	Department:	Engineering	Page:	1 of 3
<b>TITLE: OPERATING PROCEDURE FOR DIESEL GENERATOR</b>				

## 1.0 PURPOSE:

To describe a procedure for Diesel Generator.

## 2.0 SCOPE:

This procedure is applicable to Diesel Generator at Discovery Laboratories Pvt. Ltd.

## 3.0 RESPONSIBILITY:

### 3.1 Electrician

Is the responsible to operate Diesel Generator and Power changeover (Generator to Main Electrical System).

### 3.2 Engineer:

Is responsible to monitor the activity

## 4.0 DEFINITIONS: NIL

## 5.0 PROCEDURE :

### 5.1 Starting of Diesel Generator

5.1.1 Inspect the air clean service indicator. If the indicator position is locked in the red position service the air cleaner.

5.1.2 Check the radiator water level and lube oil and diesel oil level

5.1.3 Turn the ignition key to start position and simultaneously press the starter push button.


5.1.4 Release the push button after engine fires, after that run the engine with idle speed for 1 to 2 minutes.

5.1.5 Keep the switch of DG set in the run position and disconnect the TSSPDCL by removing the key from transformer breaker and ON the DG breaker by using same key. The keys which are matching to DG set and Transformer as follows

750 KVA Transformer = 500 KVA DG set

5.1.6 Observe the gauges for safe operation as follows:

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Sign & Date			
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Department	Engineering	Engineering	Quality Assurance

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	Department:	Engineering	Page:	2 of 3
<b>TITLE: OPERATING PROCEDURE FOR DIESEL GENERATOR</b>				

Coolant temperature : Maximum 87 ° C  
Oil temperature : Maximum 100 ° C  
Oil pressure : 3.5 kg/cm<sup>2</sup>

## 5.2 Stopping Procedure

- 5.2.1 Take clearance from all manufacturing block in charges.
- 5.2.2 Disconnect the DG set by removing the key from DG set breaker and ON the Transformer breaker by using same key.
- 5.2.3 Reduce the engine speed, by keep the run switch in idle position.
- 5.2.4 Turn the ignition switch 'OFF' position after 5 to 10 minutes of idle run of the engine

## 5.3 Procedure for power change over from TSSPDCL to DG Set

- 5.3.1 Start the generator and give the power supply to the manufacturing blocks within 2 to 4 minutes.
- 5.3.2 Switch on the air circuit breaker and put the interlocking key in to DG set breaker.
- 5.3.3 Switch off the air circuit breaker and remove the interlocking key from TSSPDCL breaker


## 5.4 Procedure for power change over from DG set to TSSPDCL

- 5.4.1 Inform and take clearance from all manufacturing block in charges.
- 5.4.2 Switch off the air circuit breaker and remove the interlocking key from DG set breaker.
- 5.4.3 Switch on the air circuit breaker and put the interlocking key in to TSSPDCL breaker
- 5.4.4 Stop the generator.

## 6.0 FORMATS / ANNEXURE(S): NIL

## 7.0 CHANGE HISTORY:

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	Department:	Engineering	Page:	3 of 3
<b>TITLE: OPERATING PROCEDURE FOR DIESEL GENERATOR</b>				

Revision No.	Effective Date	Details of Revision	Ref. CCF No.	Remarks
00	01.01.2017	New SOP	ED-CRF-006/16	---
01	17.08.2017	1. SOP format changed in line with SOP-QA-001-05.	CCF/GEN/17007	--

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