



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT  
ARIYALUR  
ELECTRICAL MANUAL**

Issue No:02	Rev. No: 00	Effective Date: 01.11.2019	SOP/ELE/035
Issued By:		Approved By: HOD - ELECTRICAL	
OIL REPLACEMENT OF HT MOTOR BEARING			

**Scope** : Oil Replacement/Top up of HT Motor Bearing  
**Responsibility** : Electrical section Technician / Section Engineer  
**Accountability** : Electrical Section Engineer / Head

**PPE:**

1. Tested Electrical Rubber Hand Gloves,
2. Safety Helmet,
3. Safety Shoe,
4. Cotton Gloves.
5. Nose mask.

**TOOLS:**

1. Spanners,
2. Hand Blower,
3. Waste Cloth,
4. Screw Driver,
5. Oil replacement cane.

**Hazard Analysis:**

**Risk associated:**

Effect of Eye Irritation  
Dust inhalation

**Mitigation Measures**

Use of Nose Google  
Use of Nose mask

**Procedure:**

1. Ensure the operating hours and oil level.
2. Take LOTO for the same motor.
3. Check the oil temperature is low i.e. below 40°C.
4. Check the oil color and oil degradation level.



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5. Clean the oil cane properly and fill the oil as per required quantity.
6. Clean the bearing out side frame and drain the old oil into waste oil cane by removing drain plug.
7. To remove small waste contamination fill some fresh oil by closing the drain plug and after drain the oil.
8. Close & tight the drain plug
9. Now fill the oil as per OEM requirement (21 liters)
10. lose the oil filling plug & tight.
11. Lift the LOTO and check control supply from CCR.

**Emergency / Emergency Shut OFF:**

1. If any injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

**Records/Annexure:**

1. LOTO permit.
2. JSA as enclosed below.

**JOB SAFETY ANALYSIS: (JSA)**

<b>Job Safety Analysis</b>	Job: Oil Top up for HT Motor Bearing	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Technician	Supervisor: Sec.Engr	Department: Electrical	Section: Plant	Approved by:
Req'd/recommended PPE: Safety shoe, Helmet, Goggle, Nose mask, Cotton glove.				
<b>Sequence of Basic Job Steps</b>	<b>Potential Hazards</b>	<b>Recommended Safe Job Procedure</b>	<b>What Could Go Wrong</b>	<b>Corrective Action</b>



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Cleaning HT Motor Bearing Housing	Injury to head due to striking against some solid object or due to impact with something falling on head from height	Use Helmet	Walking around the motor without seeing the floor, Projecting materials, power cables, portable equipments which lead to Slip, Trip, Fall / Falling from height objects Impact to body.	Educating importance of PPE through pep talk. (Always wear Helmet, Safety shoe, Hand Gloves, Nose mask, Goggles in the work location, avoid Temporary power connections.
	Eye Injury due to dust particle falling in eye	Use Safety Goggles	Damaged goggles/non standard goggles/ Not wearing goggle	Periodic replacement / Proper training/ Follows SOP
	Respiration problem of dust	Wear Nose mask	Damaged nose mask/Not wearing Nose mask	Periodic replacement/ Proper training/ Follow SOP
Oil replacement of HT Motor	Occupational health problem due to skin contact with Grease/Oil	Use hand gloves	Fail to Follow the instruction given in the procedure	Restriction of Un authorized person for Greasing / oil changing
	Injury of person due to falling on rotating equipment	"Ensure protection guards on rotating parts are in position	Guard not fixed/ Fail to Check	Educating importance of guards / checking through pep talk.
Opening /closing of Oil Plug	Hand injury due to slip of Tool	Keep hand free form Oil	Fail to clean the Hand	Educating through pep talk.