



1DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/094
Issued By: M.R		Approved By: HOD Mechanical	
COOLER			

Scope:

This SOP is applicable for S.F. Cooler hydraulic system maintenance work.

Responsibility : Section Engineer – Mech.

Accountability : Section head – Mech.

PPE:

1. Helmet,
2. Safety shoe,
3. Goggles
4. Gloves.
5. Nose mask
6. Full body harness

Tools:

1. Spanner set
2. Hammer

Hazards:

Risks associated

1. Body injury
2. Leg injury
3. Hand injury

Mitigating Measures

1. Safe and tested tools and tackles
2. On job training



1DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/094
Issued By: M.R		Approved By: HOD Mechanical	
COOLER			

Isolation matrix:

Sl: No	Activity	Description	Electrical Energy	Other Energy
1	Cooler drives	<i>Name and Tag for the Equipment</i>	<i>Cooler all drives 471LP1 to 471LP5</i>	<i>Hydraulic line pressure to be made zero</i>

SOP

1. Take the line clearance with LOTO system
2. The line clearance paper should be with the person who is working in the site.
3. Use ppe's while working.
4. Clean the area and hydraulic equipments before taking the job.
5. Open Hydraulic tank oil filling cover for filter checking/cleaning
6. Ensure Hydraulic pressure must be Zero if not release the pressure to zero.
7. Check and Clean suction and pressure filter thoroughly.
8. Check all pumps and booster pumps condition for any leakages. If so change the respective parts.
9. Check all pressure gauges and valves for proper functioning.



1DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/094
Issued By: M.R		Approved By: HOD Mechanical	
COOLER			

10. Check Nitrogen accumulators pressure if found less fill nitrogen up to 30 bars with filling kit.
11. Check all hydraulic hose fitting for proper tightening.
12. After completion all the maintenance jobs take out unwanted and scrap material from the area.
16. Clear the line clearance

Emergency / Emergency Shut OFF:

1. If body injury is there, First aid will be given and inform to the Safety department or Call Emergency number 3108/9865152222.

Records/Annexure:

1. Refer Line clearance/permit in mech department.
2. JSA is enclosed below.



1DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/094
Issued By: M.R		Approved By: HOD Mechanical	
COOLER			

JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job:	Date: 01/09/2014	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Section Engineer	Supervisor: Section Head	Department: Mech.	Section: PYRO	Approved by: HOD Mechanical
Req'd/ recommended PPE: Safety helmet, Safety shoe, Gloves, Goggles, Gloves, Nose mask & Full body harness.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Check condition of pump & accumulator pressure	Body injury	Hydraulic pressure in the system to be made zero	Damage the body where it hit	Ensure the system pressure is zero
Tightening of the fittings	Body injury	Hydraulic pressure in the system to be made zero	Damage the body where it hit	Ensure the system pressure is zero
Tightening of the fittings	hand injury	Use proper tools and tackles so that fasteners will not slip	Fasteners may slip and tools may hit to the hand and leg	Ensure Use/working condition of TOOLS AND TACKLES.