



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 1.11.2019	SOP/MEC/021
Issued By: M.R		Approved By: HOD-Mechanical	
WTP WATER PUMPS			

Scope: Maintenance of water pump

Responsibility: Engineer/SH

PPE:

1. Safety helmet
2. Safety shoe
3. Mask
4. Safety goggles
5. Gloves

TOOLS:

1. Screw driver
2. spanner set
3. Pipe Wrench

Hazard Analysis:

Risks associated:

Pressurized water.

Mitigating Measures

Isolate all the relative valves with LOTO.

Procedure:

SOP FOR MAINTENANCE OF WATER PUMP AT WTP.

1. Pump delivery wall is to be fully closed and suction wall to be closed.
2. LOTO has to be taken from CCR and electrical departments.
3. Motor connection and earthing tables to be disconnected
4. Motor base bolts has to be removed and coupling spider to be removed.
5. Pump shaft coupling hub to be removed.
6. Pump suction and delivery line flange bolts to be removed and pump to be taken out from dismantling and inspection.



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

Issue No. 02	Rev. No: 00	Effective Date: 1.11.2019	SOP/MEC/021
Issued By: M.R		Approved By: HOD-Mechanical	
WTP WATER PUMPS			

7. Remove drive end bearing, housing end covers.
8. Inspect bearings and oil seal.
9. Remove impeller lock nut, take out impeller and inspect and clean impeller for coatings /scale and also inspect the spacer and shaft seal for any damage.
10. Remove non drive bearing housing end cover and inspect seal and bearing.
11. Replace bearings, seals etc. if found defective of work out.
12. Re-assemble pump elements in reverse sequence and tightened all mounting bolts.
13. Do the correct alignment and inspect coupling spider, tighten all base bolts of motor.
14. Clear the LOTO.
15. open suction valve and take trail run of pump and slowly open delivery valve

Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

Annexure:

JSA is enclosed below / Isolation Matrix

SL N O	Activity			Isolation Matrix for Utility & General Equipment.	
				Isolation Type	
				Electrical Energy	Other Energy

8	Maintenance of Water Pump	Name and Tag for the Equipment	Drive for the PUMP				Close, Drain & put LOTO for all the inlet & outlet	Priming Line		
---	----------------------------------	--------------------------------	---------------------------	--	--	--	---	---------------------	--	--

