



## DALMIA CEMENT (B) LIMITED – ARIYALUR

### ARIYALUR

### MECHANICAL DEPARTMENT

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/MEC/161
Issued By: M.R		Approved By: HOD (MECHANICAL)	
SOP FOR STP SLUDGE DYING OPERATION			

**SCOPE:** SOP FOR STP SLUDGE DYING OPERATION.

**Responsibility:** Engineer

**Accountability:** Section Head

**PPE:**

1. Safety helmet
2. Safety shoe
3. Mask
4. Safety goggles
5. Hand Gloves
6. Rubber hand gloves

**TOOLS:**

1. spanner set
2. Screw spanner
3. Hammer
4. Screw driver

**Hazard Analysis:**



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#### Risks associated:

#### Mitigating Measures

Tools Slip,

Use of PPE'S

**PURPOSE:** To lay down a procedure to describe the stops to be followed and persons involved in the operation of STP plant.

#### PROCEDURE:

1. Checking of MLSS level, if more than 350 pump the water to dying sludge tank .
2. Sludge tank has to be filled.
3. Air mixing has to be done on sludge bed.
4. Air lock has to be released and check for settled dry sludge on the pump .
5. Checking of filter press cloths for dry sludge settlement and position it.
6. Throttling of pump outlet line.
7. Screwing and tightening of filter cloths.



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8. Start the pump and run it around 3-4hrs
9. Check the pressure level by extract water from the filter cloth.
10. Check the extract water from filter cloths are feed to collection pit.
11. Give a settling time around 30 mins to get a dry sludge.
12. Position the collection tray under the press area.
13. Release the screw tension and hand hammer the cloths to collect the sludge on the tray.
14. To continue repeat from the point 5 to get dry sludge.

#### Job Safety Analysis:

<b>Job Safety Analysis</b>	<b>Job: STP sludge dying pump</b>	<b>Date: 06/05/2019</b>	<b>Analysis by: K.Sundararaman.</b>	<b>Reviewed by: K. Sathish Kumar.</b>
<b>Title of employee doing job: Operator</b>	<b>Supervisor: Section Engineer (Mech.)</b>	<b>Department: Mechanical</b>	<b>Section: Utility</b>	<b>Approved by: G.Shankarappa</b>
<b>Required /recommended PPE: Safety Helmet, Safety shoe, Hand Gloves, Safety goggles and Nose mask.</b>				
<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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MLSS Checking	Land contamination	To use the rubber hand glove	Without using of hand glove irritation or skin problem	Use the proper PPE
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