



DALMIA CEMENT (B) LIMITED



ARIYALUR

MECHANICAL

Issue No. 01	Rev. No: 00	Effective Date: 01-11-2019	SOP/MECH/199
Issued By: M.R		Approved By: HOD (Mech)	
SOP-JSA FOR STP SLUDGE REMOVING			

Scope : This SOP is applicable to Safe working for STP SLUDGE REMOVING .

Responsibility : **Section Engineer – Mech.**

Accountability : **Section Manager – Mech.**

PPE:

1. Helmet.
2. Safety shoe.
3. Ear plug.
4. Safety goggles.
5. Rubber hand gloves.
6. Hand Gloves.
7. Nose mask.

Tools:

1. Box Spanner set.
2. Ring Spanner set.
3. Shovel.
4. Waste cloth.



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Hazards:

Risks associated

Pressurized water release/

Rotating parts.

Fall of objects

Slip and fall

Mitigating Measures

1. Safe pressure release on pipeline.

1. Usage of certified lifting tools.

1. Proper supports.

Training needs:

1. Fire fighting.
2. Emergency preparedness.
3. Electrical prevention training.
4. Assembly procedure.
5. Safe work near running equipment's.



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Procedure:

1. Check the MLSS on aeration tank if it is 350ml and above.
2. Transfer the sludge under clarifier tank to drying bed by closing the return sludge valve and by opening the drying bed sludge pipe line to return sludge.
3. After the sludge completely dried out after around 72 hours.
4. Scoop the sludge out of drying bed by shovel.

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. JSA is enclosed below.
2. Isolation Matrix.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job:Sludge removing	Date: 04— 05 - 2020	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: Section Engineer	Supervisor: Section Engineer	Department: Mech.	Section: UTILITY	Approved by: HOD Mechanical
Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles, Ear plug, nose mask & Rubber hand Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Valve operation	Hand injury / Fatal	Closed the out let valve and open the drain (manual) valve	System will be pressure raised it will blasting the system	Ensure valve condition before start the work
Shoveling of sludge	Slip and fall	Proper fixing of supports	May be a slip and fall	Certification of lifting tools and tackles.



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Isolation Matrix:

SL No	Activity			Isolation Matrix for Utility & General Equipment.							
				Isolation Type							
				Electrical Energy				Other Energy			
1	STP SLUDGE REMOVING			Isolate the Related other energy isolation				Isolate or closed the valves			