



DALMIA CEMENT (B) LIMITED – ARIYALUR

MECHANICAL SOP

| | | | |
|----------------------------|-------------|-----------------------------|-------------|
| Issue No. 02 | Rev. No: 00 | Effective Date: 01.11.2019 | SOP/MEC/112 |
| Issued By: M.R | | Approved By: HOD Mechanical | |
| GYPSUM SCRAPER MAINTENANCE | | | |

Scope: Gypsum Scraper Maintenance

Responsibility: Shift Fitter

Accountability: Mechanical-Section Engineer / Shift Engineer

PPE:

1. Safety helmet.
2. Safety shoe.
3. Nose Mask.
4. Hand Gloves.
5. Safety Goggles.

TOOLS:

1. Box spanner set
2. Ring spanner set
3. Oil can.
4. Sling & D Shackle.
5. Chain block – 2 Ton

Hazard Analysis:

Risks associated

Body injury
Cut injury

Mitigating Measures

Safe and health tools and tackles
Safe and health tools and tackles

SOP for the Gypsum Scraper Maintenance

1. Take Line clearance for hydraulic pumps.
2. Use PPE's while working.
3. Provide the safety barrier.
4. Organize all required tools & tackles.
5. Take safety work permit from the safety officer.
6. Drain out oil from the pipe line & refill it into the tank to reduce the oil spill.



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7. Make proper plate form and stopper to hold scraper boom assembly.
8. Any material spillage is there clean & put it inside the circuit.
9. Inspect the hose line s & hydraulic cylinders.
10. While unscrewing the nut of hose pipe cares to be taken for avoid the oil spill.
11. If any damage is their replace the same.
12. After installation please check the tightness.
13. Clear the Line clearance, Return the work permit.
14. Check the truck tippler operation.

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 in Process department.
2. JSA is enclosed below.

| SL No | Activity | | | | Tag / Name of the Equipment | | | | | | |
|-------|----------------|--------------------------------|-------------------|--|-----------------------------|--|--|--|--------------|--|--|
| | | | | | Isolation Type | | | | | | |
| | | | | | Electrical Energy | | | | Other Energy | | |
| 1. | Gypsum scraper | Name and Tag for the Equipment | Hydraulic Scraper | | | | | | | | |



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| | | | | |
|---|---|------------------------------------|-----------------------------------|--------------------------------|
| Job Safety Analysis | Job: Gypsum scraper Maintenance | Date: 01 – 09 - 2014 | Analysis by: Section Engineer | Reviewed by: Section Head |
| Title of employee doing job: Shift fitter | Supervisor: Shift Engineer / Section Engineer | Department: Operation / Mechanical | Section: Gypsum Hydraulic Scraper | Approved by: HOD – Mechanical. |

Req'd/recommended PPE: Safety helmet, Safety shoe, Safety goggles & Cotton hand Gloves.

| Sequence of Basic Job Steps | Potential Hazards | Recommended Safe Job Procedure | What Could Go Wrong | Corrective Action |
|---|---------------------|--|---|---|
| Loosening the Hyd. Pipeline joint | Hand injury | Use proper spanners only to avoid slip / shear of bolt and nut during tightening | Spanners may slip and chance to fall bolt may shear / cut during load | Use correct size and condition of spanner |
| While Changing the Hydraulic pipeline Nipple/Hose | Leg injury / Sprain | Put the Oil can at the bottom of the pipeline | Due to oil spillage, person leg will slip | Clean the spillage oil |
| Positioning the chain block & sling, While replacing the cylinder | Leg and hand injury | Use correct lifting Tackles Teflon/wire rope slings | Chain block may slip and fall while removing and inserting the belt | 1. Check the condition of the ropes and slings 2. Check the correct size of slings to operate/actual capacity and ensure certificate of clearance. |
| Tightening the Hyd. Pipeline | Hand injury | Use proper spanners only to avoid slip / shear of bolt and nut during tightening | Spanners may slip and chance to fall bolt may shear / cut during load | Use correct size and condition of spanner |