



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM
Mines Department**



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|--|-------------|----------------------------|--------------|
| Issue No. 02 | Rev. No: 01 | Effective Date: 22.05.2015 | SOP/Mines/04 |
| Issued By: S & P | | Approved By: Head - Mines | |
| Procedure for Reject/overburden handling | | | |

Scope/Purpose : This procedure applicable for Reject/overburden handling

Responsibility : Mines Foreman/Asst. Manager

Accountability : Mines Manager

PPE:

1. Ear Plug
2. Safety Shoes
3. Gloves
4. goggles

Tools:

1. Drill Rod Spanners
2. Hammers

Hazard Analysis:

Risks associated

Dust generation

Mitigating Measures

Water sprinkling all along the haulage roads

Training needs:

1. Compressor operation and Working parts of Machines

Procedure:

1. Keeping the yearly-targeted production of Limestone in mind, Mine Planning is carried out jointly with M/s. Holtec Consultants, for preparing the yearly / half – yearly plans. Depending upon the raw mix requirements of the plant, planning is carried out to supply the correct quality and quantity of limestone from different mines.
2. During the course of the planning process, Quality and Quantity of limestone and Reject / Overburden to be removed from each individual mines will be calculated. The planning process also will indicate the blocks to be rejected from each mine. Then these blocks are mined and dumped in the reject dumps/Overburden dumps/all along the mine lease boundaries.



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3. The nature of Reject / Overburden is generally soft in nature, which can be directly excavated with the help of Hydraulic Excavators. As and when, any hard patches are encountered the same will be mined by adopting conventional / Non-Conventional method of mining.
4. Deep Hole Drilling/Rock breaker is used in the hard patches encountered during excavation of non-confirming product.
5. Samples are collected from the drill cuttings and sent to Quality Assurance Department to ensure the Quality of the reject.
6. If the Silica content in the mineral is found to be more than 25%, the same will be considered as reject. For remote mines, if the Ferro content in the mineral is found to be more than 6 %, the same will be considered as reject.
7. Blasting is done to loosen the hard mass for loading by Excavators.
8. The blasted mass is then loaded into Tippers / Taurus Tipper and dumped as reject into the respective dump yard.
9. For stacking of Reject / Overburden material different Dumpsites are being maintained (25% — 30% Silica one dump site, more than 30% another dump site, more than 6% Ferro one dump site, separate dump for overburden). These Dumpsites are designed in such a way that they normally lie on a non-mineral bearing zone within the Leasehold Area.
10. In Non – Conventional Mining, as and when sub-grade Limestone / Reject is encountered then the same are broken by using Rock--Breaker and loaded by Excavator into the tipper / Taurus tipper and dumped at the corresponding Dump Yard.

Emergency / Emergency Shut OFF:

1. If there is any emergency Call Emergency number 9865165316 / 9865277805/
9865150893 / 9865277806

Records/Annexure:

1. Refer Log book.
2. JSA is enclosed below.



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JOB SAFETY ANALYSIS: (JSA)

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|--|---|---------------------------------------|----------------------------|--|
| Job Safety Analysis | Job: Reject / overburden handling | Date: | Analysis by: | Reviewed by: |
| Title of employee doing job: Operator/Helper | Supervisor: Mines Foreman/shift in charge | Department: Mines | Section: | Approved by: |
| Req'd/recommended PPE: Safety shoes, goggles, ear plug | | | | |
| Sequence of Basic Job Steps | Potential Hazards | Recommended Safe Job Procedure | What Could Go Wrong | Corrective Action |
| Checking of Oil levels and leakage | Fire | Automatic Fire Suppression System | Hydraulic Hose Puncture | Switching off the Machine as and when noticed any leakage |
| Drill hose checking | Hose burst | Frequent Inspection | Hose Puncture | Periodical Replacement |