



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



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/Mines/06
Issued By: S & P		Approved By: Head - Mines	
Procedure for RECEIPT, STORAGE AND USE OF EXPLOSIVES IN MAGAZINE.			

**Scope/Purpose** : This procedure applicable for RECEIPT, STORAGE AND USE OF EXPLOSIVES IN MAGAZINE.

**Responsibility** : Mines Foreman/Asst. Manager

**Accountability** : Mines Manager

**PPE:**

1. Helmet
2. Safety Shoes
3. Gloves
4. goggles

**Tools:**

1. Wooden racks

**Hazard Analysis:**

**Risks associated**

Sudden Fall

**Mitigating Measures**

Level ground and walking area free from obstruction

**Training needs:**

1. Methods of handling

**Procedure:**

1. The ordered quantity of Explosives are being received from the supplier and the same will be unloaded and stacked at our Explosive Magazine under the personal supervision of Foreman / Asst Mines Manager after doing the necessary checking on physical verification, batch number, date and Quantity of Explosives so received
2. The Foreman should check for the correct Magazine number in the explosive bills and Form RE-12.
3. One copy of the explosive bill and Form RE-12 shall be retained for the official use at mines department.
4. Explosives received should be neatly stacked over the wooden racks provided inside the magazine and ensure that a gap of 150mm is left between the wall and the wooden rack all around. No stack should exceed 3m in height.



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5. Ammonium Nitrate shall be stocked in the approved storage building meant for that purpose.
6. The Explosives shall be issued for use on first come first out basis based on the day today requirement of explosives.
7. A stock book showing the quantity of explosives stored in the magazine will be maintained as per MMR and Explosives Rules. The stock register shall be updated daily by the person in charge of blasting and sign the register daily.
8. Magazine should be surrounded by Earth mounds to a height equal to height of the Magazine.
9. The area around the magazine bounded by the earth mound should be kept clear of shrubs, dry grass, twigs or other combustible material.
10. The interior portion of the magazine should be kept scrupulously clean. Name boards indicating the licence no, storage capacity, actual quantity stored etc should be maintained and updated daily.
11. The “Lightning Arrestor Earth -- Pit Test” is carried out once in 3 months to check the resistance and the earthing of lightning arrestor and the readings are recorded in a bound paged notebook kept for that purpose along with the signature of the person performing the test.
12. Procedure laid down for the Receipt, Storage, handling, Issue of Explosives and destruction of deteriorated explosives will be strictly adhered as mentioned in MMR – 1961.
13. The magazine should not be opened before the sunrise and after the sunset.
14. Magazine should be locked and sealed after use.
15. The watchman outside the magazine should not allow any person to enter the magazine who is not authorized by the Mines Manager.

**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)**

<b>Job Safety Analysis</b>	Job: Receipt ,storage and use of explosives	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Blaster/helper	Supervisor: Mines Foreman/shift incharge	Department: Mines	Section:	Approved by:
Req'd/recommended PPE: Safety shoes, goggles, helmet				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Laying the wooden pallets	Hit injury to fingers	Wearing gloves	Improper Lifting	Instruction to be given and followed
<i>Tumbling</i> while carrying Explosives	falling	Remove the obstruction on the moving pathway	tumbling	Check the footwear are tied properly.