



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT  
DALMIAPURAM  
QUALITY ASSURANCE DEPARTMENT**



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/QA/05
Issued By: S & P		Approved By: Head - QA	
SOP FOR STORING OF CEMENT IN SILO			

Scope: Storing of Cement in Silo.

Responsibility: Shift Chemist and CCR operator

Accountability: Head Quality assurance Head production

**PPE:**

1. Safety helmet,
2. Safety shoe,
3. Rubber Gloves and face mask.

**TOOLS:**

1. Face mask
2. Tools kit
3. Thread

**Hazard Analysis:**

<b>Risks associated</b>	<b>Mitigating Measures</b>
Leakage of final product	Use of face mask

**Training needs:**

1. Usage of tools and Nature of Hazards

**PROCEDUER**

The Silo for storing a variety of cement shall be specified.

The empty level of all Silos shall be measured at 00.00 Hrs. every day and as and when required either from CCR or manually at site.

CCR operator decides change of silo and variety based on empty level available in the silos, Mill grinding capacity (output rate) for the specific variety of cement.

The proposal of changing the variety of cement is informed to the Tester by phone and after ensuring the quality of cement as per quality control plan the corresponding cement is diverted to the specified silos. The change of variety and silo is entered in the adviser for recording in the log sheet.

In case of change of silo only and not variety the decision is made by the CCR operator based on silo level and mill output rate.



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The Miller at site is informed about the change of silo & variety and he is asked to ensure the transport of cement to the specified silo physically at site on confirmation from the Miller. The same is recorded in the CCR log register.

Feeding special variety of Cement like 53S / OPC Grade 53 / SRPC Cement to the respective Silos is given only after ensuring proper specific surface area and chemical analysis of Cement is achieved Till such time, the Cement will be fed only to OPC Silos.

Change of feeding to Silos for PPC will be done just before feeding additive material.

While changing variety of cement ground in CVRM / Ball Mills, the respective additives (fly ash ) in the blended varieties (PPC) will be stopped in advance by 45 mins. ie, after stopping feeding of additives, the silos will be changed after 45 mins.

If there is no dispatch of Cement for 3 months and above, a sample is drawn for testing from the bottom of Silo and tested for chemical analysis and three day compressive strength.

If it conforms to specifications the Cement in the Silo will be released for dispatch.

**Emergency / Emergency Shut OFF:**

1. If there is any emergency Call Emergency number 9865165051 / 9865165654/  
9865155375 / 9865155235

**JOB SAFETY ANALYSIS:(JSA)**

Job Safety Analysis	Job: Storage of cement in silo	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Testing Boy	Supervisor: Chemist & CCR Operator	Department: Quality assurance & production	Section: Plant control lab & CCR	Approved by:
Req'd/recommended PPE: Rubber Gloves. Nose mask				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Inspecting the cement sample	Don't change the silo without ensure	Pl collect the sample and analyse to change.	The variety contaminated	After ensure, the variety is changed.
Ensure the discharge silo	Leakage of Air slide or pipe line.	Use correct tools kit to change silo	Spillage	Maintain the accessories.