



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
SAFETY DEPARTMENT MANUAL**



Issue No. 01	Rev. No: 00	Effective Date: 01.11.2010	WI-10(PI-14; AM-7)
Issued By: M.R		Approved By: HOD -SAFETY	
WORK INSTRUICTION FOR SAFETY PRECAUTIONS (LADER & SCAFFOLDING)			

1.0 SAFETY WITH LADDERS & SCAFFOLDS:

1.1 Safety with Ladders:

Ladders / Scaffolds are being used everywhere in our factory to reach the height of the work. If proper care is not taken, accidents are bound to happen.

- 1.1.1 Keep the ladder such that the horizontal distance of the base from the objects is about one fourth of height of the ladder.**
- 1.1.2 Have another person to hold the ladder while it is being securely tied at the top, or for full duration of usage if it is not practical to tie.**
- 1.1.3 Do not place a ladder in close proximity to live electrical wiring.**
- 1.1.4 Select the ladder of proper length rather than one that barely reaches support.**
- 1.1.5 Do not lean a ladder against loose boxes, barrels, round objects or other unsafe backing.**
- 1.1.6 Make sure that the shoes are neither slipper / nor greasy while ascending or descending a ladder.**
- 1.1.7 Ladders should not be placed in locations where they may be struck in anyway unless they are barricaded or watched at the foot of the ladder by some one.**
- 1.1.8 Do not use make-shift ladders.**

2.0 SAFETY WITH SCAFFLODS:

- 2.1.1 Every scaffold and its supporting members should be designed to support given load, with a safety factor of at least four (4). No alterations should be made that might impair the strength of such structures; no improvised, make-shift or substandard scaffold should be used even for the most temporary use.**
- 2.1.2 Every scaffold and every part thereof, including supports, should be of good construction, sound material of adequate strength for the purpose intended and should be properly maintained.**



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- 2.1.3 Planks should be laid flat with an overlap, lengthwise of at least 30cm with the center of the overlap directly over a load bearer. Boards and planks used for the floor should be of uniform thickness, closely laid and securely fastened in place. Planks should not be less than 3 cms. Thick.**
- 2.1.4 Barrels boxes, loose tie blocks, loose piles of bricks or other unstable objects should not be used to support planks used as working platforms.**
- 2.1.5 If the rear or outer side of every scaffold, platform or ramp is more than 2 mtrs. Above the surrounding ground or adjacent to deep holes, excavations or high tension electric wires, it should be provided with a substantial guard rail of standard construction consisting of top and intermediate rails and toe boards all supported by posts securely connected to scaffold at intervals of not more than 2.4 mtrs.**
- 2.1.6 The width of the scaffolds should be such as to provide a clear walkway 50 cms wide. If part of the width scaffolds is to be used for keeping materials, the scaffold should be made wider so as to provide a walkway of the required width.**
- 2.1.7 When scaffolds are erected over sidewalks or over areas in which persons must work or pass, the space between the railing and toe board should be fitted with side screens**
- 2.1.8 There should be a screen or other protection suspended from the scaffold to collect materials that may fall from above. Screens should be extended beyond the edge of the scaffold to catch any material that may fall over the edges.**
- 2.1.9 A safe and convenient means of access should be provided to the platform or scaffold. The use of cross braces or frame work as means of access to the working surface should not be permitted.**

if the scaffolds are to be used to a great extent or for a long period of time, regular plank Stairway wide enough to allow two persons to pass should be erected. Such stairways should have hand rails on both slides.



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No stairway or run of slope exceeding 2 in 3 should be used. When the slope of a stairway or run render additional foothold necessary and in every case where the slope is more than 1 in 4, proper stopping laths should be provided, so as to.

- i) have a minimum section of 5 x 3 cms and be placed at maximum interval of 45cms, and
be of adequate length to cover the full width of the stairway or except that they may be interrupted over a width of not more than 10 cms to facilitate the movement of barrows

2.1.10 Overhead protection should be provided on the scaffold whenever persons are working at higher places. This protection should not be more than 3 mtrs Above the scaffold and should be of planks or other suitable material.

2.1.11 Good house keeping shall be maintained at all times upon scaffolds.

2.1.12 Persons should not work on scaffolds when the platform or guard rails are slippery and during a storm or strong wind.

2.1.14 Suspended scaffolds should not be used for the storage of heavy materials. Two or more swinging scaffolds should be combined into one by bridging the distance between them with planks or any other form of connection. Life lines securely fastened from above should be provided for each person working on a swinging scaffold. Safety belts should be tied to the life line.

2.1.15 Any scaffold damaged or weakened by any cause should be immediately Repaired and persons should not be allowed to use it until repairs have been completed