



DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
CIVIL DEPARTMENT



Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/CIVIL/09
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Issued By: M.R	Approved By: HOD (Civil)
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SOP FOR GFRG WORK for various elevations,

Scope : This SOP is applicable to Safe working for GFRG Work at various heights

Responsibility : Section Engineer.

Accountability : Section In charges.

PPE:

1. Safety helmet,
2. Safety shoe,
3. Mask.
4. Safety harness.
5. Hand gloves
6. Safety goggles.

Tools:

1. Pannel lifting bar with lifting hooks
2. Hydra /crane (certified)
3. Ladders – (Certified)

Hazards:

Risks associated

Fall from heights
Scaffolding collapse
Pannel collapse

Mitigating Measures

Use full body harness and area Barricading
Proper inspection & follow the standards
Proper Handling, Use proper PPE,s & PPE training

Training needs:

1. Emergency preparedness
2. Work at height
3. Scaffolding



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Procedure:

Before starting the GFRG Panel work.

1. Necessary work permits has to be obtained.
2. Work related PEP Talk must be given to workmen before starting the job.
3. All workmen should wear safety PPE & awareness
4. Workman should wear double lanyard safety harness and it should be hooked up with two locations.
5. To ensure proper supervision to be made available
6. Adequate staging Scaffolding/Ladder and platforms is to provide to reach work place
7. To ensure Scaffolding/Ladder fitness (Green for work tag has to be fix and certified by safety department personal)
8. Necessary Scaffolding/ ladder arrangement should be made to reach the work place at height
9. The approach area should be clear from all encumbrances(Nuisances) and platforms if any. It should have proper handrails as per the standards.
10. Sufficient place must be available for Hydra/Crane and movement of the same to the work area.
11. Check for adequacy of GFRG panel erection including concreting in to the panel.
12. Proper supports to be given for GFRG panel while releasing the panel load from hydra/crane.
13. The design as we decided to be ensured that Panel erection is made accordingly.
14. Concreting for the cavity to be done as per the SOP of concreting Procedures
15. After concreting, Removal of Scaffolding/Ladder has to be done as per the instructions of Section in charge/Competent person with Red tag provision.

Emergency / Emergency Shut OFF:

1. If anybody fall from height, inform to the Safety department or Call Emergency number 3108/9750963709/9750963761.
2. If any shaking in the form work /scaffolding, then stop the work and inform to the section in charge.
3. If any injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9750963709/9750963761

Records/Annexure:

1. JSA as enclosed below.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: This SOP is applicable to Safe working for GFRG Panel work at various heights	Date:	Analysis by: M.I.Shameem Sufiyan	Reviewed by: S.Chandra Bose
Title of employee doing job: Concern contractor & Workers	Supervisor: Section In charge	Department: Civil	Section: plant area	Approved by: S.Chandra Bose
Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES, NOSE MASK, safety goggles. Safety harness,				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Panel erection	Collapse of panel	Proper inspection of panel along with supervisor and competent person, Nobody should allow below working area. PPE (glove & Goggles) for the Panel erection works.	Unknowingly somebody can enter into the work place	Training to be given for skilled workman (PPE& GFRG panel work at height) Panel lifting bar hooks & Panel rib to be checked before lifting panels and position of hydra/crane to be ensured Vertigo test to be done who is going to do the job.
Other jobs	Height fear Falling of hand tools	Hand rails provided the work place. Nobody should allow below/surrounding working area.	Unknowingly somebody can enter into the work place	Site barricading is to be done and Work related PEP talk is to be given.