



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
DALMIAPURAM
MECH DEPARTMENT**



Issue No. 02	Rev. No: 01	Effective Date: 22.05.2015	SOP/MECH/28
Issued By: S & P		Approved By: Head - Mech	
SOP FOR STRUCTURAL PAINTING			

Scope/Purpose : This SOP is applicable to Safe working for Structural painting

Responsibility : Engineer – Mech

Accountability : Dept HOD / Site Engineer

PPE:

1. Safety helmet
2. Safety shoes
3. Safety belt
4. Face mask
5. Goggles
6. Hand gloves

Tools:

1. Chipping Hammer
2. Scraper
3. Chisel
4. Wire brush
5. Sand blasting system
6. Spray gun
7. Scaffolding pipes
8. Painting brush/roller (for touch up etc)
9. Ropes & hooks for lifting
10. Tarpaulin/covering material

Hazard Analysis:

Risks associated

Cut injury, fall

Mitigating Measures

Usage of proper tool /PPE

Training needs:

1. Usage of tools & PPE
2. Working at height
3. Sand blasting



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Procedure:

1. Use Proper PPE & tools
2. Take proper work permit from Concerned dept as per the work condition.
3. Barricade the area under work
4. Proper scaffolding and life line to be provided wherever necessary
5. Every person working at height should hook safety belt to life line
6. All the set material to be dislodged with chipping tools
7. All equipments to be covered wherever necessary with tarpaulin/covering material
8. Sand blasting to be done with suitable precautionary measures. Refer SOP for Sand blasting.
9. Applying primer and enamel painting with sprayer
10. After sand blasting & painting, floors to be cleaned wherever necessary
11. Removing scaffolding
12. During lunch break & intervals ensure that air line pressure is zero
13. Structural painting to be done once in 3 years
14. DCBL standards & procedure for scaffolding and working at height has to be followed in respective work activities.

Emergency / Emergency Shut OFF:

1. If cut or fall injury is there, First aid should be given and Safety department to informed or Call Emergency number 523/9865177444/9865195111.
2. If any hose pipe got punctured or bust, air line valve is to be closed



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Records/Annexure:

1. Refer structural painting schedule
2. Hazard Identification sheet is enclosed below.

Hazard Identification

Hazard Identification	Job: Painting of structures	Date:	Analysis by :mech Dept.	Reviewed by: Safety Dept.
Title of employee doing job: Contract labour	Supervisor: Section Engineer	Department: Mech	Section: Plant	Approved by: Unit Head
Req'd/recommended PPE: Safety helmet, Safety shoes, Safety belt, Face mask & Goggles				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Barricading the area	Nil	Barricading height to be maintained and intermediate support to be provided	Barricade tape may break / trespassing through barricaded area	Ensure barricade is in tact during the work
Scaffolding	Fall / Injury	Usage of proper scaffolding material ,tools and PPE	Loosening of scaffolding clamps & scaffolding pipes Slip & fall of person	Engage trained persons. Use PPE for working at height
Sand blasting	Skin & eye injury	Usage of proper PPE & usage of recommended air pressure	Damage of hose can cause injury	Pressure regulator to be used. Body to be covered. SOP to be followed
Painting	Inhaling of paint fumes	Usage of proper PPE	Dizziness & Nausea	Avoid direct contact with face & eyes Provision & use of respiratory protection
Cleaning	Inhaling dust	Usage of PPE	Suffocations	Ensure the usage of face mask
Using Electrical operated hand tools	Electrocution	Inspected and certified by Concerned dept. and safety dept.at the time of gate entry	Cables and other parts damage	Daily check and correction. Use of certified hand tools

HEAD MECHANICAL

HEAD TECHNICAL