



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
INSTRUMENTATION MANUAL**



Issue No. 01	Rev. No: 02	Effective Date: 20.09.2017	SOP/INST/30
Issued By: M.R		Approved By: HOD - INSTRUMENTATION	
SOP for Electrical /Electronic Panel Dismantling and Erection			

Scope: Dismantling and Erection of Electrical/Electronic panel

Responsibility: Instrumentation technician/contractor.

Accountability: Instrumentation - Section Engineer.

PPE:

- Safety helmet
- Safety shoe
- Mask
- Goggles
- Hand gloves
- Safety belt

Tools required:

- Hydra
- Chain block
- Steel rope with D -shackle
- MS Pipes
- Cutting set
- Welding set
- Spanners

Hazard Analysis:

Risks associated

Mitigating Measures

Panel slips	Use hydra with suitable capacity rope with D shackle
Hand/leg Injury	Use hand glove and follow PPE
Electrocution	Follow the LOTO and check the supply voltage after isolation
Tools Slips	Choose the Correct tools for Right application



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Procedure:

1. Use PPE's like safety shoe, Hand gloves and goggles.
2. Take the LOTO and Hot work permit before starting the work.
3. Remove the incoming Power, control and earthing cable.
4. Dismantle the Existing control panel and place away from the working area.
5. While shifting, check the weight of the control panel and use the suitable Rope for shifting the panel through Hydra.
6. While lifting the panel ensure the Control panel lifting hook capacity and tightness.
7. During lifting, Guard the bottom area under proper supervision.
8. Fix the Control panel with proper support arrangement based on the panel size and weight.
9. Check the all the connections and terminate the power, control and earthing cables.
10. Check the panel control circuit as per the drawing.

Emergency / Emergency Shut OFF:

11. If any unconsciousness is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

Records/Annexure:

1. JSA as enclosed below.



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JOB SAFETY ANALYSIS :(JSA)

Job Safety Analysis	Job: Dismantling and Erection of control panel	Date: 20.09.2017	Analysis by: Section Engineer	Reviewed by: Section Head
Title of employee doing job: INST – Contractor And Technician	Supervisor: SECTION ENGINEER	Department: INSTRUMENTATION	Section: CEMENT MILL	Approved by: HOD
Req'd/recommended PPE: SAFETY HELMET, SAFETY SHOES, GOGGLES, DUST MASK, HAND GLOVES				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
1. TAKE THE LOTO BEFORE DISMANTLING THE CONTROL PANEL	ELECTROCUTION	FOLLOW THE ELEC/001 & 003 LOTO PERMIT SOP	FINGER MAY GET INJURED	FOLLOW THE PPE
2.REMOVE THE EXISTING PANEL WITH PROPER TOOLS	HAND INJURY DURING TOOLS HANDLING	USE THE SPECIFIC INSULATED TOOLS FOR THE DESIGNATED JOB	TOOLS MAY BROKEN	CHECK THE CONDITION OF TOOLS BEFORE USE
3.ERECTION OF NEW CONTROL PANEL	HAND/LEG INJURY DURING PANEL ERECTION	FOLLOW THE PPE MATRIX	HAND/LEG MAY GET INJURY DUE TO POOR QUALITY OF PPE	CHECK THE PPE CONDITIONS BEFORE USE
4.CABLE GLANDING AND TERMINATION	FINGER MAY CUT DURING CABLE SLEEVE OUT	USE THE INSULATED KNIFE FOR REMOVING THE SLEEVE	KNIFE MAY BE DAMAGED	CHECK THE CONDITION OF KNIFE BEFORE USE

Isolation Matrix

Activity	Isolation Type	Tag /Name of the Equipment							
		Electrical Energy					Other Energy		
Control panel Dismantling and Erection	561FN1	HT Breaker to be isolated	LT breaker to be drawn out	Aux supply to be isolated	NPDB supply to be isolated		nil	nil	nil