



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



Issue No. 01	Rev. No: 01	Effective Date: 07.07.2017	SOP/Elect /031
Issued By: SE/SH		Approved By: HOD ELECTRICAL	
SOP For Maintenance Passenger Lift			

Scope	: Maintenance of Passenger Rack & Pinion Lift
Responsibility	: Section Engineer – Electrical
Accountability	: Section Head - Electrical

PPE:

1. Safety helmet,
2. Safety shoe,
3. Hand Glove
4. Safety Harness

Tools:

1. Multimeter.
2. Brush.
3. Spanner Set

Hazard Analysis:

Risks associated

Effect of Shock
Effect of Eye Irritation
Dust Inhalation
Fall from height

Mitigating Measures

Suitable Electrical Hand Glove
Use of Goggles
Use of Nose Mask
Use of safety belt

Procedure:

1. Take LOTO for The Passenger Lift
2. Clean the Motor, Brake & all Equipment in the Lift
3. Check the Pinion Conditions, Guide Roller Condition.
4. Provide the greasing for Rack
5. Check and Change the Gear Box Lubricating Oil if Required



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6. Check brake condition & Measure the Gap feeler Gauge and record.
7. Check the motor mounting bolts.
8. Check the all floor door were closing interlock proper
9. Check the safety device physical conditions for any crack/ loosen bolt.
10. Check Tar Door, Cage door, Top/Bottom Limit, Interlocks
11. Check the Manual Release Level working condition
12. Check and Clean the floor level sensor
13. Check the TFT&TFR Condition
14. Check & Clean all the floor call Push Button station
15. Clean all power contactor with CRC
16. Tighten all the power & Control Circuit both the Base panel & Cage Panel
17. Clean the Lift Pit and check the mast base condition and Cage rest spring condition
18. Take Trail Run of Lift.

Emergency / Emergency Shut OFF:

1. If electrical shock injury or body injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9750963761.

Records/Annexure:

1. LOTO permits
2. JSA is enclosed below.

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Passenger Lift Operation	Date:	Analysis by:	Reviewed by:
Title of employee doing job: Technician	Supervisor: Section Engineer	Department: Electrical	Section: Plant	Approved by:



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Req'd/recommended PPE: Safety helmet, Safety Harness, Safety shoe, & Rubber Gloves.

Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Isolation of feeder/control supply	Electrocution/Electrical fire	Use hand gloves Use Fire proof suit	Fail to use of PPE/suit. Damaged PPE / Suit	Educating importance of PPE through pep talk. Periodic replacement/To check for damage before use
Cleaning of Lift	Eye irritation,	Wear goggles	Damaged goggles/non standard goggles/ Not wearing goggles/ Heavy dust accumulated	Periodic replacement/Training
	Respiration problem	Wear Nose mask	Damaged nose mask/ Not wearing mask/ Heavy dust accumulated	Periodic replacement /Training
	Body injury	Wear safety helmet, safety shoes, hand gloves	Tools and material may fall on human body	Without PPE don't perform the job
	Fall hazard	.Use Safety belt during work done at height.	Defective safety belt	Without PPE don't perform the job Check safety belt condition before use
Cleaning of Lift Pit	Eye irritation,	Wear goggles	Damaged goggles/non standard goggles/ Not wearing goggles/ Heavy dust accumulated	Periodic replacement/Training
	Respiration	Wear Nose mask	Damaged nose mask/ Not	Periodic replacement



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	problem		wearing mask/ Heavy dust accumulated	/Training
	Falling of object from the Top	Ensure no Person working in the Top	Not Ensured	Educating thru' pep talk
Cleaning of Limit switch / proxy switch	Body injury	Wear safety helmet, safety shoes, hand gloves	Tools and material may fall on human body	Without PPE don't perform the job
	Fall hazard	.Use Safety belt during work done at height.	Defective safety belt	Without PPE don't perform the job Check safety belt condition before use
Greasing of Rack	Fall hazard	.Use Safety belt during work done at height.	Defective safety belt	Without PPE don't perform the job Check safety belt condition before use
	Body injury	Wear safety helmet, safety shoes, hand gloves	Tools and material may fall on human body	Without PPE don't perform the job
Check the Lift Brake and measuring the gap	Hand injury	Wear safety helmet, safety shoes, hand gloves	Tools and material may fall on human body	Without PPE don't perform the job
Cleaning of Power Contactor	Eye irritation,	Wear goggles	Damaged goggles/non standard goggles/ Not wearing Goggle.	Periodic replacement/ Proper training
	Respiration problem	Wear Nose mask	Damaged nose mask/ Not wearing Nose mask	Periodic replacement / Proper training
	Body injury	Use proper tools	Nonstandard /damaged tools	Training for tools handling/ Periodic replacement
		Wear safety helmet, safety shoes , hand gloves	Tools and material may fall on human body	Without PPE don't perform the job