

DALMIA CEMENT (B) LIMITED - Ariyalur

MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/139

Issued By: M.R Approved By: HOD-Mechanical

SOP-MOTORIZE GATE ERECTION AND OPERATINGWORK

MOTORIZED GATE ERECTION AND OPERATION WORK

Scope: Motorizes gate erection and operating procedure

Responsibility: Maintenance Technician

Accountability: Mechanical-Section Engineer

PPE:

- 1. Safety helmet
- 2. Safety shoe
- 3. Nose Mask
- 4. Gloves
- 5. Goggles

TOOLS:

- 1. D Spanner Set.
- 2. Ring Spanner set.
- 3. Welding machine
- 4. Cutting machine
- 5. Grinding machine
- 6. Chain block 1ton
- 7. Belt sealing
- 8. Safety belt

Hazard Analysis:

Risks associated: Mitigating Measures

Rotation of the Equipment

Electrical Hazard: Can be operated from remote

Engagement of clutch: Inter lock to be ensured

Training needs:

- 1. Usage of tools and Nature of Hazards
- 2. Usage of PPE's

Procedure:

1. Line clearance to be taken for the whole CMBH transport circuit as per DCBL LOTO standard.



DALMIA CEMENT (B) LIMITED - Ariyalur

MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/139

Issued By: M.R Approved By: HOD-Mechanical

SOP-MOTORIZE GATE ERECTION AND OPERATINGWORK

- 2. Remove the manual damper at silo feed elevator bottom venting line near BE boot area.
- 3. Lift the motorized gate with help of chain block and fix the correct position
- 4. Give the power supply of damper
- 5. Release the LOTO for motorized gate
- 6. Take trail open and close position
- 7. Set the opening percentage with auto control from CCR
- 8. Clear Permits & LOTO Clearance.
- 9. Give clearance to CCR
- 10. Whenever silo feed elevator bottom draft getting positive, CCR operator to control the draft with DCS.

Emergency / Emergency Shut OFF:

1. If any injury takes place, provide First aid and inform to the Safety department or Call Emergency number 3108/9865152222

Records/Annexure:

- 1. Silo Extraction Gate Cement Lumps removal procedure
- 2. JSA is enclosed below.



DALMIA CEMENT (B) LIMITED - Ariyalur

MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/139

Issued By: M.R Approved By: HOD-Mechanical

SOP-MOTORIZE GATE ERECTION AND OPERATINGWORK

JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Motorizes gate erection and operating procedure	Date: 1.11.2016	Analysis by; Section Engineer	Reviewed by: Section Head				
Title of employee doing job: Section Engineer Supervisor: Section Head, Out Sourcing Supply Supervisor		Department: Mechanical	Section: Mills	Approved by: HOD				
eq'd/recommended PPE: Helmet, Shoe, Nose mask, Cotton Gloves, Leather gloves, Ear plug, Safety belt, Goggles, Shield								
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action				
Put on PP	Exposure to fumes due to welding operation	Wear Goggles	Damaged goggl	Periodic replacement, Watch person should ensure				
Chain Block lifting	Leg and hand injury	Use proper tools and tackles with certification	Chain block may slip from its lifting position	Check the condition of lifting equipments. 1. Lifting Belts 2. Chain block Periodical replacement is recommended for belts and ropes. Periodical servicing required for Chain blocks.				
Chain Block fixing	Body injury	Use proper PPE (safety belt)	Safety belt failure	Check the condition of PPE Periodical replacement is recommended for belts				
Damper flange bolt loosening/tightening	Hand injury	Use proper tools and tackles with certification	Spanner slip /Broken	Check the condition of spanner				
Pipe line cutting	Body injury	Use proper cutting set with flash back arrester	Hose pipe damage	Check the condition of hose pipe. Periodical replacement is recommended				

DalmiaBHARAT CEMENT

DALMIA CEMENT (B) LIMITED - Ariyalur

MECHANICAL

Issue No. 02 Rev. No: 00 Effective Date: 01.11.2019 SOP/MEC/139

Issued By: M.R Approved By: HOD-Mechanical

SOP-MOTORIZE GATE ERECTION AND OPERATINGWORK

Grinding the pipe and fix flange, positioning the gate	Eye and body injury	1.Use proper guard/locking and tested grinding machine 2.Ensure life of the grinding wheel	.Wheel may slip out from the machine 2.wheel broken	To cross check the tightness of wheel check the expiry date of the grinding wheels.	
positioning the gate	Hand injury	1. Use proper tools and tackles with certification	Chain block may slip from its lifting position	Check the condition of lifting equipments. 1. Lifting Belts 2. Chain block Periodical replacement is recommended for belts and ropes. Periodical servicing required for Chain blocks.	
Welding operation	Hand and Eye injury	Use proper leather hand gloves and welding shield	Damage the welding shield glass and hand glove	Cross check the Periodical replacement of PPE	

SL No	Activity		Tag / Name of the Equipment					
			Isolation Type					
			Electrical Energy			Other Energy		
01	Motorizes gate erection and operating procedure	Name and Tag for the Equipment	591 MD1 / silo feed bucket elevator	591 FN7 /591 FN 1,2,3,4,5,6				