



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



Issue No. 01	Rev. No: 00	Effective Date : 25.05.2016	SOP/INST/12
Issued By: S & P		Approved By: HOD - INSTRUMENTATION	
SOP for Maintenance of Control Print Machine			

**Scope:** For General maintenance of control print machine

**Responsibility:** Instrumentation – Section Engineer.

**Accountability:** Instrumentation - Section Manager.

**PPE:**

- Safety helmet
- Safety shoe
- Goggles
- Hand gloves

**Tools required:**

- Multimeter
- Screw Driver

**Hazard Analysis:**

<b>Risks associated</b>	<b>Mitigating Measures</b>
Handling Cleaning Solvent	Use Hand gloves

**Procedure**

1. Check the level of ink and solvent in the control print machine, top-up if the level is low.
2. Check the proper connection of all the connectors.
3. Check the jewel plate in the print head and if dust accumulation is there, clean the plate with the solvent (Don't clean the plate with waste cloth, tester, rod etc).
4. Change the selector switch in the control print machine to solvent mode.



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5. Press the push button in the print head for continuous purging and check the operation of seven dots.
6. If any dot is missing, then remove the jewel plate and clean it using Sonic cleaning machine otherwise move to step 8.
7. Then fix the jewel plate in print head and repeat the step no 5, still if any dot is missing inform the supplier.
8. After completion of maintenance, change the selector switch to Ink mode.

**Note:**

Maintenance has to be carried out on daily basis based on availability.

**Emergency / Emergency Shut OFF:**

1. If any unconsciousness is there, give First aid and inform to the Safety department or Call Emergency number 222/233/9865155288

**Records/Annexure:**

1. JSA as enclosed below.

**JOB SAFETY ANALYSIS :( JSA)**

<b>Job Safety Analysis</b>	Job: Maintenance of Control Print	Date: 25.05.2016	Analysis by: section Incharge	Reviewed by: section head
Title of employee doing job: INST – SECTION ENGINEER	Supervisor: SECTION MANAGER	Department: INSTRUMENTATION	Section: PACKING PLANT	Approved by: HOD INSTRUMENTATION
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
Clean the jewel plate with solvent	Solvent may come in direct contact with skin	WEAR APPROPRIATE HAND GLOVES	SKIN IRRITATION MAY OCCUR	USE APPROPRIATE GOGGLES, CLEAN THE HANDS WITH HANDWASH LIQUID
	Solvent may spray into the eyes	WEAR GOGGLES	EYE IRRITATION MAY OCCUR	USE GOGGLES, CLEAN THE EYES WITH EYE WASH SHOWER