1.0 PURPOSE:

To establish a Standard Operating Procedure for Programmable Logic Controller (PLC).

2.0 SCOPE:

This procedure is applicable to the entire PLC for Zinc Lead and Silver.

3.0 ABBREVIATIONS:

WP:	Work Permit
MLB:	Maintenance Log Book
OEM:	Original Equipment Manufacturer
AMS:	Annual Maintenance Schedule
MMS:	Monthly Maintenance Schedule

4.0 RESPONSIBILITY:

Head-Instrumentation Maintenance is overall responsible while individual responsibilities are mentioned below in 7.2.

5.0 SAFETY PRECAUTIONS:

- Ensure usage of proper tools for the jobs.
- Ensure usage for appropriate PPE's
- Please follow the instructions as mentioned in the 'General' Work Instruction

6.0 SAFETY EQUIPMENTS REQUIRED

Gloves, Goggles, Safety Shoes, Respirators, Safety Helmet, Coverall, Earplug, dust mask & ARC suit as per voltage level.

7.0 DESCRIPTION/PROCESS APPROACH:

7.1 PROCESS INPUTS:

			Frequency / when		Cri
	Any feedback is not coming in PLC from field instruments.		As When It Happen		
	Any drive is not starting either from local or remote mode.		As When It Happen		

7.2 PROCESS AND ITS INTERFACES:

	Visual Inspection of cabinet external and internal conditions (housekeeping, sign of deterioration, correct opening and access space).		Inst area in-charge/ Shift-incharge
	Cleaning of mechanical devices(peripherals, fans, filters etc)		Inst area in-charge/ Shift-incharge
		At every planned shutdown	Inst area in-charge/ Shift-incharge
	Checking quality of power supply and grounding(tension, back up batteries etc)		Inst area in-charge/ Shift-incharge
	Check redundancy of CPU, I/O, communication cards		Inst area in-charge/ Shift-incharge
		At every modification or	Inst area in-charge/ Shift-

		modification of monthly	charge/ Shift-incharge
	Application software and hardware documentation update	At every modification	Inst area in-charge/ Shift-incharge
	System performances(CPU load, system memory, room temperature etc)		Inst area in-charge/ Shift-incharge
	Check for healthy status of every module in DCS including I/O power supply modules		Inst area in-charge/ Shift-incharge
			HOD/Inst area in-charge/ Shift-incharge
			HOD/Inst area in-charge/ Shift-incharge
			Inst area in-charge/ Shift-incharge
			Inst area in-charge/ Shift-incharge
			Inst area in-charge/ Shift-incharge
			Inst area in-charge/ Shift-incharge
		Only if rigorously required	Inst area in-charge/ Shift-incharge
			Inst area in-charge/ Shift-incharge/IT dept
			Inst area in-charge/ Shift-incharge/IT dept
			Inst area in-charge/ Shift-

			incharge

7.3 PROCESS OUTPUT:

7.4 PROCESS MONITORING:

				Stage Frequency
	Equipment operating parameters	As given in respective Maintenance WI or manual.		After each maintenan work
	Periodic & random inspections		Shift in Charge /Instrumentation Head	