	COROMANDEL INTERNATIONAL LIMITED Sarigam	Doc No. : INST/ SOP / 11
Issue No.01	DEPARTMENTAL MANUAL OF INSTRUMENT	Issue/ Revision Date: 01/10/2017
Revision: 00	Title: SAFE OPERATING PROCEDURE FOR INSPECTION OF CONTROL VALVE	Page 1 of 2

1.0 PURPOSE:

For inspection and servicing or preventive maintenance of control valve to maintain reliability of control valve.

2.0 SCOPE:

This procedure is applicable for servicing/inspection or preventive maintenance of control valve provided in process plant and utility of Coromandel International Limited, Sarigam.


3.0 DEFINITION:

NIL

4.0 PROCEDURE:

- 4.1 Take work permit from the shift in charge/area in-charge to inspect the control valve and ensure the isolation valve is closed.
- 4.2 Check the external condition of control valve, whether it corroded or not.
- 4.3 Check the cable gland status, air leakages & air filter regulator as well as diaphragm status.
- 4.4 Check the inlet air pressure to control valve, it should be minimum 1.5 Kg/cm².
- 4.5 Connect the 4-20mA source stimulator/ by SCADA to I/P converter.
- 4.6 Check & record the opening percentage of stroke of the stem (0%, 25%, 50%, 75% and 100%) with related source mA (4mA, 8mA, 12mA, 16mA and 20mA).
- 4.7 If there is some deviation of stroke, then calibrate it by using the tuning screw. The tolerable deviation should be $\pm 0.1\%$ of FSD.
- 4.8 If servicing is required, take the pipe line opening permit for control valve servicing.
- 4.9 After taking permit, remove the control valve from the process line.
- 4.10 After servicing check the valve passing or not by hydro testing. Minimum required pressure is 3kg/cm².
- 4.11 If it is ok, then fix the valve at the process line and hand over to plant in charge/ area in-charge.
- 4.12 If it is not ok, then repair it. After repairing, Fix the valve at the process line and hand over to plant in charge/ area in-charge.

Prepared By :	Reviewed By :	Approved By :
Name :	Name :	Name :
Date :	Date :	Date :

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- 4.13 If preventive maintenance is required do it according to DOC NO : QI/EN/01.
4.14 Preventive maintenance record should be maintain in Format No: INST/F/12
4.15 Close the all permits.

5.0 FREQUENCY:

- 5.1 At the time of initial startup after shutdown of more than two weeks.
5.2 After every 6 months, if plant is running.

6.0 RESPONSIBILITIES:

- 1) Asst. Manager/Sr. Officer (Inst.) /area in-charge:

7.0 ACCOUNTABILITY

Section Head

8.0 RECORDS:

Service reports should be maintained for one year.

9.0 ATTACHMENTS :

Sr. No.	Format	Format No.
1	Preventive maintenance check points- control valve	INST/F/12

10.0 CHANGE RECORD :

Date	REV. NO.	CHANGES INCORPORATED
01/10/2017	00	Original Issue

**** END OF PROCEDURE ****

Prepared By :	Reviewed By :	Approved By :
Name :	Name :	Name :
Date :	Date :	Date :