	COROMANDEL INTERNATIONAL LIMITED Sarigam	Doc No. : INST/ SOP/ 14
Issue No.01	DEPARTMENTAL MANUAL OF INSTRUMENT	Issue/ Revision Date: 02/10/2017
Revision: 00	Title: SAFE OPERATING PROCEDURE FOR MICROMOTION CALIBRATION	Page 1 of 2

1.0 PURPOSE:

For calibration of Micromotion transmitter to maintain reliability

2.0 SCOPE:

This procedure is applicable for calibration of Micromotion transmitter in Coromandel International Ltd. Sarigam unit premises.


3.0 DEFINITION:

NIL

4.0 PROCEDURE:

- 4.1 Take work permit from the shift in-charge/area in-charge to calibrate Micromotion transmitter in the process lines.
- 4.2 Stop the flow through the micromotion sensor and ensure that the tube is filled with water or related material and then check transmitter reading at zero flow.
- 4.3 It should be 0 kg/hr. if it is showing some value then zero calibration by given programming on transmitter.
- 4.4 Calibrate the electronic weigh balance by standard weight.
- 4.5 Keep ready empty drum for water collection and note down the TR of each drum on Electronic weight balance.
- 4.6 Put fixed flow rate of process water from controller and reset the totalizer.
- 4.7 Start the pump and take totalizer reading at every 15 mins and record the totalizer reading.
- 4.8 Collect the Micromotion discharge water into the drum and note down gross weight.
- 4.9 From tare weight and gross weight calculate the Net weight in kg.
- 4.10 Calculate the totalizer reading by diff. between initial and final reading in KG.
- 4.11 Calculate % error from drum Net weight and totalizer reading, if diff is within the limit then record the reading and update the instrument tag otherwise go to step 4.5
- 4.12 After calibration handover the equipment to the shift in-charge of the plant.
- 4.13 Calibration report should be maintain in DOC. No.: QF/EN/09
- 4.14 Preventive maintenance record should be maintain in format No.: INST/F/11
- 4.15 Close the permit.

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

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5.0 FREQUENCY:

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

6.0 RESPONSIBILITIES:

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	Calibration Record	QF/EN/09
2	Preventive maintenance check point	INST/F/09

10.0 CHANGE RECORD :

Date	REV. NO.	CHANGES INCORPORATED
02/10/2017	00	Original Issue

**** END OF PROCEDURE ****

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