

PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE		
Department: Engineering	SOP No.:	
Title: Calibration of Hour Meter	Effective Date:	
Supersedes: Nil	Review Date:	
Issue Date:	Page No.:	

1.0 Revision History

Rev. No.	Details of changes	Reason for change
00	NIL	NEW SOP

2.0 OBJECTIVE:

The purpose of this SOP is:

2.1 To describe the procedure for Calibration Of Hour Meter being used in various departments.

3.0 SCOPE:

3.1 This SOP is applicable for the calibration of Hour meter installed in manufacturing & other Facilities of

4.0 RESPONSIBILITY:

- **3.1** The Maintenance Engineer shall be:
 - **3.1.1** Responsible for Calibration of Hour Meter.

5.0 ACCOUNTABILITY:

Head –Engineering Services

6.0 PROCEDURE:

- **6.1** Calibration of hour meter to be done by outside party against the calibrated reference digital Stopwatch.
- **6.2** The calibrated digital stopwatch should be certified by Institute for Design of Electrical Measuring Instruments (IDEMI) /Electronics Regional Test Laboratory (ERTL).
- **6.3** Take the initial reading of hour meter and start the digital stopwatch.
- **6.4** After one hour, take the final reading of hour meter and compare it with calibrated digital Stopwatch.



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- **6.5** If the under test instrument is not showing proper reading then record the observation.
- **6.6** Deviation of +1 minute is allowable for one hour.
- **6.7** If the deviation is not within the limit of acceptance criteria, the external party should inform The status of hour meter to Engineering department.
- **6.8** The concerned engineer should replace the hour meter, which should be calibrated as per point 6.3 to 6.5.
- **6.9** As per Instrument Calibration plan, if the instrument is Critical/Most Critical, engineering department should inform Quality Assurance and concerned department.
- **6.10** Record the observations.
- **6.11** Label the hour meter with date, checked by and difference in readings during calibration.
- **6.12** Certificate of calibration to be obtained from outside party.
- **6.13 FREQUENCY:**
 - **6.13.1** All hour meter being used in various departments are to be calibrated as per the Instrument Calibration Plan prepared as per SOP No.:
- 9.0 ANNEXURES:

NIL

8.0 References (S)

NIL

9.0 Glossary

SOP : Standard Operating procedure

No : Number

IDEMI : Design of Electrical Measuring Instruments

ERTL : Electronics Regional Test Laboratory