



STANDARD OPERATING PROCEDURE

Department: Quality Assurance	SOP No.:
Title: Operation and Cleaning of Torque Tester	Effective Date:
Supersedes: Nil	Review Date:
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1.0 OBJECTIVE:

To lay down a Procedure for Operation and Cleaning of Torque Tester.

2.0 SCOPE:

This SOP is applicable to Procedure for Operation and Cleaning of Torque Tester in Three Piece Packing Area

3.0 RESPONSIBILITY:

QA (Officer/Executive): Preparation, Distribution (to Respective Department), Revision, Retrieval and Destruction of this SOP.

QA Manager: Review, Approval, Training and effective implementation of this SOP in all the applicable areas.

4.0 ACCOUNTABILITY:

Head QA: Authorization of this SOP & ensure Training and effective Implementation of SOP.

5.0 DEFINITION:

5.1 TORQUE TESTER:

Torque Testers are a Torque-Measuring Device specially designed to work on Bottle/Vial Caps. The exact determination, especially of the opening torque, is a Quality-Defining Factor and provides Reliable Assurance and Documentation that bottle caps have been closed with the appropriate amount of Torque.

6.0 PROCEDURE:

6.1 OPERATION OF TORQUE TESTER:

6.2 FUNCTIONAL KEYS OF TORQUE TESTER:

6.2.1 On/Off: For start and stop the Torque Tester.

6.2.2 Set: For Setting of following contents:

- Upper limit



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- Lower limit
- Min save value
- Min peak value
- Auto peak time
- Auto off time
- Gravity set
- Reset factory
- Calibration
- High frequency peak
- Version

6.2.3 Print: For print the result.

6.2.4 Check: For check the recorded save torque value.

6.2.5 Peak: For maximum value measurement select the following:

- Peak
- Auto Peak
- Real time

6.2.6 Unit: Measurement unit choice:

- Kgf. cm
- Lbf. in
- N. m

6.2.7 Save: Save the result to the memory, after measurements – results exposure.

6.2.8 Zero: For zeroing is done by pressing zero key.



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FIGURE – TORQUE TESTER

- 6.3 Take required quantity of LDPE Vials from each capping head.
- 6.4 Connect the power plug in power supply board and ON the switch.
- 6.5 Press ON/OFF button for start the Torque Tester.
- 6.6 Put the vial in 4 tie grip on the tie rail and tightening the knob in clockwise direction.
- 6.7 Press the Peak button for maximum value measurement.
- 6.8 Break the seal of LDPE vial by rotate the cap in anticlockwise direction.
- 6.9 Press the save button for save the torque reading (Saving actual force indication to memory is done by pressing save key).
- 6.10 Press the check button for check the recorded torque value.
- 6.11 Press the print button for print generation by torque tester.
- 6.12 Acceptance Limit of Torque: Lower Limit = 0.200 N. m and Upper Limit = 0.900 N. m
- 6.13 **CLEANING OF TORQUE TESTER:**
 - 6.13.1 Press ON/OFF button for stop the Torque Tester.
 - 6.13.2 Switch OFF the power supply and disconnect the power plug from power supply board.
 - 6.13.3 Torque tester mope with lint free cloth.

7.0 ABBREVIATIONS:

SOP	:	Standard Operating Procedure
QA	:	Quality Assurance



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Pvt.	:	Private
Ltd.	:	Limited
LDPE	:	Low Density Poly Ethylene
Kgf. cm	:	Kilogram force Centimeter
Lbf. In	:	Pound force inch
Lbf. In	:	Pound force inch
N. m	:	Newton Meter

8.0 ANNEXURES:

ANNEXURE No.	ANNEXURE TITLE	FORMAT No.
Annexure-I	Torque Tester Apparatus Log Book	

9.0 DISTRIBUTION:

- Controlled Copy No. 01 Head Quality Assurance
- Master Copy Quality Assurance Department

10.0 REFERENCES:

- In House

11.0 REVISION HISTORY:

Revision No.	Change Control No.	Details of Changes	Reason of Changes	Effective Date	Done By
00	Not Applicable	Not Applicable	New SOP		

