

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE						
Departme	Department: Production SOP No.:					
Title: Cali	bration of Checkweigher	Effective Date:				
Supersedes: Nil Review Date:						
Issue Date	:	Page No.:				
1.0	OBJECTIVE:					
1.1	To lay down a procedure for Calibration of Checkweigher(Techno	four Ltd.,MODEL: CW600).				
2.0	SCOPE:					
2.1	This procedure is applicable for Calibration of Checkweigher (Tec	hnofour Ltd.,MODEL:				
	CW600) in production department.					
3.0	RESPONSIBILITY:					
3.1	Technical Associate: Operation and cleaning.					
3.2	Officer/ Executive Production: Supervision.					
3.3	IPQA: Verification.					
3.4	Head Production: SOP Compliance.					
4.0	DEFINITION (S):					
4.1	NA					
5.0	PROCEDURE:					
5.1	Caution					
5.1.1	Ensure that the Checkweigher is free from dust.					
5.1.2	Ensure that Checkweigher is installed on firm support.					
5.1.3	Ensure that Checkweigher platform is not touching to any surface					
5.1.4	Do not keep the Checkweigher platform loaded in the "OFF" cond	ition.				
5.1.5	Check for the proper earthing of the Checkweigher wherever available.	lable.				
5.1.6	Avoid impact/mechanical shocks to the Checkweigher.					
5.2	Zero Error Checking					
5.2.1	Check for the "ZERO" display and record the same in respective a	annexure.				
5.2.2	If there is error in "ZERO" display, it may be due to the following:					
5.2.2.1	The checkweigher is not in level.					
5.2.2.2	The mechanical or electrical defect.					



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- 5.2.2.3 The platform is not cleaned.
- 5.2.2.4 Some extraneous matter hampering the smooth operation of the platform.
- 5.2.3 Put "ON" the checkweigher.
- 5.2.4 If sprit level is not provided on the checkweigher, use portable sprit level and check the level by keeping it on the platform. If not in order correct it by adjusting the base-mounting pad.

Note: Zero error of the checkweigher must be checked before use to avoid Erroneous weights.

5.2.5 **Frequency:**

- (a) Daily in morning.
- (b) After any maintenance.
- (c) After resuming of the power.
- (d) Relocation of Checkweigher.

5.3 CALIBRATION:

- 5.3.1 **Daily Calibration**
- 5.3.1.1 Check the cleanliness of the checkweigher.
- 5.3.1.2 Put "ON" the checkweigher and wait till it displays 000.00 g.
- 5.3.1.3 Check Zero error as per Step 5.2.
- 5.3.1.4 Get the fractional weight box and ensure that the standard weights are duly calibrated.
- 5.3.1.5 Calibrate the checkweigher with 1% and 50% of its total capacity (500 g) and record the same in the respective Annexure-I.
- 5.3.1.6 Place the weights of 5 g in the center of the checkweigher platform.
- 5.3.1.7 Press the "STATIC WEIGHT" key, display shows the weight placed on plate form.
- 5.3.1.8 Record the same in its respective daily calibration Annexure I.
- 5.3.1.9 Then repeat the same procedure for 250 g weight refer to point no. 5.3.16 to 53.1.8 and record the same in Annexure I.
- 5.3.1.10 **Tolerance**: The variation should be \pm least count of the Checkweigher or \pm 0.1% of the standard weights used whichever is higher.



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5.3.1.11 If the variation does not found within the limit. Put the "OUT OFCALIE	BRATION"							
label and follow the step no. 5.6.								
5.3.1.12 Frequency: A) Daily in morning.								
B) After the resuming of the power after power failure.	_							
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5.4 Full Scale Calibration:								
5.4.1 Check the cleanliness of the checkweigher.								
5.4.2 Put "ON" the checkweigher and wait till it displays 000.00 g.								
5.4.3 Check the Zero error as per step No.5.2								
5.4.4 Get the fractional weight box of standard weights.	Get the fractional weight box of standard weights.							
5.4.5 Ensure that the standard weights are duly calibrated.	Ensure that the standard weights are duly calibrated.							
5.4.6 Calibrate the Checkweigher with 1%, 20%, 50% and 80% of its total	Calibrate the Checkweigher with 1%, 20%, 50% and 80% of its total capacity (500 g) and							
record in the respective annexure-II.								
5.4.7 Place the weights of 5g in the center of the checkweigher platform.								
5.4.8 Press the "STATIC WEIGHT" key, display shows the weight placed	on plate form.							
5.4.9 Record the same in its respective monthly calibration ANNEXURE-I	l.							
5.4.10 Then repeat the same procedure with 100 g, 250 g and 400 g weigh	its one by one refer to							
point no. 5.4.7 to 5.4.9 by placing each standard weight in ascending	g order on center of							
checkweigher platform.								
5.4.11 Check the observations for the variation (if any) and record the same	e in Annexure-II.							
5.4.12 Tolerance: The variation should be \pm least count of the checkweight	er or <u>+</u> 0.1% of the							
standard weights used whichever is higher.								
5.4.13 If the variation found within the limit then affixed calibration label dull	ly filled and sign by							
production officer.								
5.4.14 If the variation does not found within the limit. Put the "OUT OF C	CALIBRATION" label and							
follow the step 5.6.								
5.5 Frequency:								
A) Monthly.								



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B) After any maintenance.

5.6 MAINTENANCE:

- 5.6.1 If the checkweigher is out of calibration inform to concerned service agency for rectification.
- 5.6.2 After rectification recalibrate the checkweigher (Full scale Calibration).
- 5.6.3 Record the same in its respective monthly calibration Annexure -II.
- 5.6.4 All the records relating to servicing and calibration to be maintained.

6.0 ABBREVIATION (S):

6.1 SOP: Standard Operating Procedure

6.2 g : gram6.3 wgt. : Weight

7.0 REFERENCES (S):

7.1 SOP: Status labeling

8.0 ANNEXURE (S):

Annexure no.	Tittle of Annexure Fo		Mode of Execution
Annexure I	Checkweigher Daily Calibration Record		Logbook
Annexure II	Checkweigher Monthly Calibration Record		Logbook

9.0 DISTRIBUTION:

- 9.1 **Master Copy**: Quality Assurance
- 9.2 **Controlled copy (S)**: Production department (01), Quality Assurance (01)
- 9.3 **Reference copy (S)**: Production department (01)

10.0 REVISION HISTORY:

S.No.	Version No.	Change Control No.	Reason (S) for revision	Details of revision	Effective Date



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ANNEXURE I CHECKWEIGHER DAILY CALIBRATION RECORD

Least Count : 000.05g Standard Weight Box ID:.....

Tolerance : Least count of the checkweigher or 0.1% of standard weight whichever is higher.

Frequency: Daily in morning and after resuming of power after power failure.

STANDARD WEIG	HTS	TOLERANCE	ACCURACY LIMIT
1% of Capacity (500 g) 005.00 g		<u>+</u> 000.05 g	004.95 g - 005.05 g
50% of Capacity (500 g)	250.00 g	<u>+</u> 000.25 g	249.75 g - 250.25 g

Data	# Spirit	*Zero	Reading shown o	n Checkweigher	Damarka	Checked
Date	Level	Level Error	005.00 g	250.00 g	Remarks	Ву

[#] Mark "Ok" if spirit bulb in order and mark "NOT OK" if spirit bulb not in order.

^{*} Mark "Ok" if display shows "ZERO" and mark "NOT OK" if display shows not ZERO.



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ANNEXURE II

CHECKWEIGHER MONTHLY CALIBRATION RECORD

Department : Production Month/Year:

Capacity : 500.00 g Equipment ID:

Least Count: 000.05 g Standard Weight Box ID:.....

Tolerance : Least count of the balance or 0.1 % of standard weight whichever is higher.

Frequency: Monthly/After any maintenance.

STANDARD WEIGHT	ΓS	TOLERANCE	ACCURACY LIMIT
Lower (1% of Capacity)	005.00 g	<u>+</u> 000.05 g	004.95 g - 005.05 g
Middle 1(20% of Capacity)	100.00 g	<u>+</u> 000.10 g	099.90 g - 100.10 g
Middle 2 (50% of Capacity)	250.00 g	<u>+</u> 000.25 g	249.75 g - 250.25 g
Upper (80% of Capacity)	400.00 g	<u>+</u> 000.40 g	399.60 g - 400.40 g

Date	#Spirit *Zei	*Zoro	Reading Shown On Checkweigher					Checked
			005.00 g	100.00 g	250.00 g	400.00 g	Remarks	Ву

[#] Mark "OK" if spirit level is in order and mark "NOT OK" if spirit level not in order.

^{*} Mark "OK" if display shows "ZERO" and mark "NOT OK" if display not shows "ZERO".