

PHARMA DEVILS

PRODUCTION DEPARTMENT

Departm	nent: Production	SOP No.:					
-	libration of Checkweigher	Effective Date:					
	upersedes: Nil Review Date						
Issue Date:		Page No.:					
1.0							
1.0	OBJECTIVE:	L. (Madal MT S) Makas Mattley Talada					
	To lay down a procedure for Calibration of Checkweig	gner (Model:M1-S), Make: Mettler Toledo					
2.0	SCOPE:						
	This procedure is applicable for Calibration of Checky	weigher (Model: MT-S),					
	Make: Mettler Toledo) in production department.						
3.0	RESPONSIBILITY						
	Technical Associate: Operation and cleaning.						
	Officer/ Executive Production: Supervision						
	IPQA: Verification.						
	Head Production: SOP Compliance						
4.0	DEFINITION (S):						
	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" condition.					
5.1.5	Check for the proper earthing of the Checkweigher wh	nerever available.					
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 annexure.					
5.2.2	If there is error in 'ZERO' display, it may be due to the	ne following:					
5.2.2.1	The checkweigher is not in level.						
5.2.2.2	The mechanical or electrical defect.						
5.2.2.3 5.2.2.4	The platform is not cleaned.						
	Some extraneous matter hampering the smooth operation of the platform.						



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	STANDARD OPERATING PROCEI	MDE					
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5.2.4	If spirit level is not in order correct it by adjusting the base-moun	ting and					
5.2.4	Note: Zero error of the checkweigher must be checked before us						
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5.2.5	erroneous weights. Frequency:						
3.2.3	(a) Daily in morning.						
	(b) After any maintenance.						
	(c) After resuming of the power.						
	(d) Relocation of Checkweigher.						
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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 0.0 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 weight	•					
5.3.1.5	Calibrate the checkweigher with 1% and 50% of its total capacity	y (600g).					
	and record the same in the respective Annexure-I.						
5.3.1.6	Place the weights of 6 g in the center of the checkweigher platfor	·m.					
5.3.1.7	Screen 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 300 g weight refer to point ne	o. 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 Checkwe	eigher or $\pm 0.1\%$					
	of the standard weights used whichever is higher.						
5.3.1.11	If the variation does not found within the limit. Put the "OUT OF	CALIBRATION"					
	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 fa	ilure.					
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 0.0 g.						
5.4.3	Check the Zero error as per step No.5.2						

Get the fractional weight box of standard weights. 5.4.4

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5.4.5	Ensure that the standard weights are duly calibred	ated.				
5.4.6	Calibrate the Checkweigher with 1%, 20%, 50%	6 and 80% of its total capacity (600g) and record in the				
	respective Annexure-II.					
5.4.7	Place the weights of 6 g in the center of the chee	ckweigher platform.				
5.4.8	Display shows the weight placed on plate form.					
5.4.9	Record the same in its respective monthly calib	ration Annexure-II.				
5.4.10	Then repeat the same procedure with 120 g, 300) g and 480 g weights one by one refer to point no. 5.4.7				
	to 5.4.9 by placing each standard weight in asce	ending order on center of checkweigher platform.				
5.4.11	Check the observations for the variation (if any)) and record the same in Annexure-II.				
5.4.12	Tolerance: The variation should be \pm least coun	t of the checkweigher or $\pm 0.1\%$ of the standard weights				
	used whichever is higher.					
5.4.13	If the variation found within the limit then affix	ed calibration label dully filled and sign by production				
	officer.					
5.4.14	If the variation does not found within the limit.					
	Put the "OUT OF CALIBRATION" label and f	follow the step 5.6.				
5.4.8	Frequency					
	A) Monthly.					
	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 calibre	ration Annexure-II.				
5.6.4	All the records relating to servicing and calibrat	tion to be maintained.				
6.0	ABBREVIATION (S):					
	SOP : Standard Operating Procedure					
	g : gram					
	wt. : Weight					

REFERENCES (S): 7.0

SOP No.: Status labeling



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8.0 ANNEXURE (S)

Annexure-I : Checkweigher Daily Calibration Record

Annexure-II : Checkweigher Monthly Calibration Record

9.0 **DISTRIBUTION:**

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



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ANNEXURE I Checkweigher Daily Calibration Record

Month/Year :

Equipment ID:

Department : Production

Capacity : 600.0g

Least Count : 0.2 g

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(600g) 6.0 g		<u>+</u> 0.2 g	5.8 g - 6.2 g
50% of Capacity(600g)	300.0 g	<u>+</u> 0.3 g	299.8g – 300.4 g

D (# Spirit	*Zero	Reading Shown	On Checkweigher	Remarks	Checked By
Date	# Spirit Level	Error	6.0 g	300.0 g		
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l						

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	:	600.0 g	Equipment ID:
Least Count	:	0.2 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 WEIG	HTS	TOLERANCE	ACCURACY LIMIT
Lower (1% of Capacity)	6.0 g	<u>+</u> 0.2 g	5.8 g -6.2 g
Middle 1((20% of Capacity)	120.0 g	<u>+</u> 0.2 g	119.8 g – 120.2 g
Middle 2 ((50% of Capacity)	300.0 g	<u>+</u> 0.3 g	299.8 g - 300.4g
Upper ((80% of Capacity)	480.0 g	<u>+</u> 0.48g	479.4 g- 480.6g

Date	#Spirit Level	oirit *Zero	Reading Shown On Checkweigher				Checked	
Date		Error	6.0 g	120.0 g	300.0 g	480.0 g	Remarks	By

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".