



BOYA: JN20232205. WEATHER: FINE.

BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION Pressure:

1010.8 hpa 7emp: 21°C.

1) LEVEL BUBBLE CHECKED? (Circle one)

YES/NO

ADJUSTED? YES/NO

ADJUSTED? YES/NO

2) STAFF BUBBLE CHECKED? (Circle one)

YES/NO

3) COLLIMATION TEST OF DIGITAL LEVEL

See Boya Range plan for location of collimation test spikes 1-4
Use the adjusted instrument collimation constant derived from collimation test done below.

4) RANGE OBSERVATION DETAILS

See Boya Range plan for location of Pillar MV 83 and Pins 1-21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff. Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

	DATE & TIME	17/1/2023	17/1/2023.		
	INSTRUMENT DETAILS				
	MAKE/MODEL	LEICA. LS15.	LGICALS 15.		
	SERIAL#	2596. 702272	702272.		
	STAFF DETAILS				
	MAKE/MODEL	LEICA · GPL 3 · INVAR.	LEILA GPL3 INVAN	2.	
	SERIAL#	26996 .79918.	79918.		
	MATERIAL	FIBREGLASS / WOOD / INVAR /	FIBREGLASS / WOOD / INVAR /	FIBREGLASS / WOOD / INVAR /	
	LENGTH OF STAFF	3 m / 4 m / 5 m / (3 m / 4 m / 5 m /	3 m / 4 m/ 5 m /	
	COEFFICIENT OF EXPANSION OF STAFF (If known)				
	COLLIMATION TEST				
218C. 22.6°C.	COLLIMATION DIFFERENCE	-8.7". NEW:-8.7"			
	ACCEPT/STORE? RET: /.66	452 YES/NO	YES / NO	YES / NO	
	RANGE OBSERVATION DETAILS				
-	# OBSERVATIONS FOR MEAN (Min. of 5 observations)	10.	10		
	NUMBER OF SETS	1 (4)	1		
	START TIME & 21.5°C (Avc) TEMPERATURE	9.11 AM · 021.38. 22.28 021.6 °C. 321.8°C.	. 9.40AM. 22.8°C. 23.0°C 324.4°C.	23.4. (Ave). Start	
	END TIME & 22,5°C(Ave)	22.7°C. 9:33AM.	@24.2°C. (0.02Ap)	23.4. (Ave). Start 24.2. (Ave) Start	
	pin	#1-15.	pin.#7-21.		

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR	F V. UNG			
(Name & Signature)				
DATE	17/1/2023.	TUESDAY.		





BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION

1) LEVEL BUBBLE CHECKED? (Circle one)

YES? NO

ADJUSTED? YES/NO

2) STAFF BUBBLE CHECKED? (Circle one)

YES/NO

ADJUSTED? YES NO

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See Boya Range plan for location of collimation test spikes 1-4 Use the adjusted instrument collimation constant derived from collimation test done below.

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See Boya Range plan for location of Pillar MV 83 and Pins 1-21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff. Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

17/1/2023	17/1/2023.			
INSTRUMENT D	ETAILS			
LEICA LS15.	LEICA LSIS			
702272.	70 2272.			
STAFF DETA	AILS			
LEICA GPL3 INVAN	. LEICA GPL3. INVA	PC .		
26296.	26296.			
FIBREGLASS / WOOD / INVAR /	FIBREGLASS / WOOD /	FIBREGLASS / WOOD / INVAR /		
3 m/4 m/5 m/	3 m/4 m/5 m/	3 m / 4 m/ 5 m /		
COLLIMATION	TEST			
/	/			
YES NO	YES /NO -	YES / NO		
RANGE OBSERVATION DETAILS				
10	10.			
1	/	-		
	10.43 AM 24.6°C. 24.4°C. 21.6°C	23,5 (Ave).		
25 50- 22-10-	25.7°C. 26.4°C. 25.8°C. 11.02 Am.	25,9 (Ave).		
	INSTRUMENT D LCICA LS IS. 702272. STAFF DETA LCICA GPL3 INVAN 26296. FIBREGLASS / WOOD / INVAR4	INSTRUMENT DETAILS LEICA LS IS. LEI CA LS IS 702272. STAFF DETAILS LEICA GPL3 INVAR. LEI CA GPL3. INVA 26296. FIBREGLASS / WOOD / FIBREGLASS / WOOD / NVAR/		

* Note: pin # 11 way have been Liven over. (10.37) . pin # 1-15.

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR
(Name & Signature)
DATE 17/1/2023 TUESDAY





BOYA JN 20232208 WEATHER - FINE SUGHT BREEZE

BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION

1) LEVEL BUBBLE CHECKED? (Circle one)

YES NO

ADJUSTED? YES NO

2) STAFF BUBBLE CHECKED? (Circle one)

YES/NO

ADJUSTED? YES NO

3) COLLIMATION TEST OF DIGITAL LEVEL

See Boya Range plan for location of collimation test spikes 1-4 Use the adjusted instrument collimation constant derived from collimation test done below.

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If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

DATE & TIME	17/1/2023	17/1/2-02		
DATE & TIME	INSTRUMENT D	17/1/2023.		
	INSTRUMENT			
MAKE/MODEL	LEICA LS 15	LGICA LS/5.		
SERIAL#	702272	702272.		
	STAFF DETA	AILS		
MAKE/MODEL	LETGA	LEICA.		
SERIAL#	213	2/2.		
MATERIAL	FIBREGLASS / WOOD / INVAR /	FIBREGLASS) / WOOD / INVAR /	FIBREGLASS / WOOD / INVAR /	
LENGTH OF STAFF	3 m / 4 m// 5 m /	3 m (4 m)/5 m/	3 m / 4 m/ 5 m /	
COEFFICIENT OF EXPANSION OF STAFF (If known)				
	COLLIMATION	TEST		
COLLIMATION DIFFERENCE				
ACCEPT/STORE?	YES NO	YES NO	YES / NO	
RANGE OBSERVATION DETAILS				
# OBSERVATIONS FOR MEAN (Min. of 5 observations)	5	5		
NUMBER OF SETS	/	/		
START TIME & TEMPERATURE 25.7	11.12 AM· 026,3°C. 025.6°C. 025.2°C. 025.8°C. 025.4°C. 026.3°C. 025.9°C.	//·24AM @26,1℃. D26,2℃. @26,1℃.	26.4°C (AVE). 25.5°C (AVE).	
END TIME & TEMPERATURE (25.9)(Ave).	\$25.8°C. \$25.4°C (\$25.9°C.)	27.1°C. (25.7°C.	25.5° (Ave).	
Dia 4 / 21 (8) 26.2°C. 1:41 2 (8) 254 26.1°C.				

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR	V.UNG.			
(Name & Signature)				
DATE	17/1/2023.	TUESDAY		