



6/9C/94  
15/10/86

**NATIONAL STANDARDS COMMISSION**  
**NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS**

**REGULATION 9**

**INSTRUMENT CERTIFICATE OF APPROVAL No 6/9C/94**

This is to certify that an approval for use for trade has been granted in respect of the pattern of the

Bizerba Model MCI-W Weighing Instrument

submitted by Bizerba Scales Australia Pty Ltd  
189 Grange Road  
FAIRFIELD VIC 3078.

**CONDITIONS OF APPROVAL**

**General**

This approval is valid for one instrument only and is therefore not subject to review but will expire on 1/2/91. After that date the instrument may, with the concurrence of the relevant verifying authority, be submitted for reverification.

The instrument purporting to comply with this approval shall be marked NSC No 6/9C/94.

This approval may be withdrawn if the instrument is constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0.

**Special**

This approval is limited to the instrument having serial number 168714 and located at Alcan Aluminium Smelter, Kurri Kurri, NSW.

Signed

Executive Director

**Descriptive Advice**

**Pattern:** provisionally approved 11/7/85 - approved 20/1/86

A self-indicating platform weighing instrument of 10 000 kg capacity with a verification scale interval of 5 kg.

Technical Schedule No 6/9C/94 describes the pattern.

**Filing Advice**

The documentation for this approval comprises:

Instrument Certificate of Approval No 6/9C/94 dated 15/10/86  
Technical Schedule No 6/9C/94 dated 15/10/86  
Test Procedure No 6/9C/94 dated 15/10/86  
Figures 1 and 2 dated 15/10/86



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# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No 6/9C/94

Pattern: Bizerba Model MCI-W Weighing Instrument

Submitter: Bizerba Scales Australia Pty Ltd  
189 Grange Road  
FAIRFIELD VIC 3078

### 1. Description of Pattern

A self-indicating platform weighing instrument of 10 000 kg capacity with a verification scale interval of 5 kg.

#### 1.1 Basework

The basework (Figure 1) is a full load cell configuration fitted with 4 HBM model C3H2 load cells of 10 t maximum capacity. The load receptor is fitted with rails, but the instrument is approved for static weighing only.

#### 1.2 Indicator

The model MCI-W indicator (Figure 2) may be fitted with output sockets for the connection of peripheral and/or auxiliary devices. The indicator may have the displays and keyboard in alternative housings.

Note: The indicator shall only be used with one basework.

##### 1.2.1 Zero

Zero is automatically corrected to within  $\pm 0.25e$  whenever the instrument comes to rest within  $0.5e$  of zero. If the instrument comes to rest outside that range but within the zero reset range, zero may be reset by pressing the zero button. The zero light illuminates whenever zero is within  $\pm 0.25e$ .

##### 1.2.2 Display Check

A display check is initiated whenever power is applied to the instrument or by pressing the button marked V.

##### 1.2.3 Tare

Both a non-automatic and a semi-automatic taring device each of up to maximum capacity may be fitted and may operate simultaneously.

### 1.3 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/94
Accuracy class	III
Maximum capacity	Max 10 000 kg*
Minimum capacity	Min 250 kg*
Verification scale interval	$e = d = 5 \text{ kg}^*$
Maximum subtractive tare	$T = - 10 000 \text{ kg}$

\* These markings are repeated close to the reading face if not already in that vicinity.

### 1.4 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE No 6/9C/94

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

The maximum permissible errors are:

- $\pm 0.5e$  for loads between 0 and 500e;
- $\pm 1.0e$  for loads between 501e and 2000e.

1. Zero Test

As the automatic device resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will be 10e and 11e respectively.

2. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity ( $\pm 2\%$  approximately). With zero balance indicated apply a load of, say, 2.5% of maximum capacity to the instrument and press the zero button; the instrument should not rezero.

3. Load Test

Test loads are to be applied to the instrument in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

4. Range of Indication

The maximum mass indicated should not exceed the marked maximum capacity by more than 10e; above this indicated mass the indication should be blank or show non-numerical characters.

5. Taring

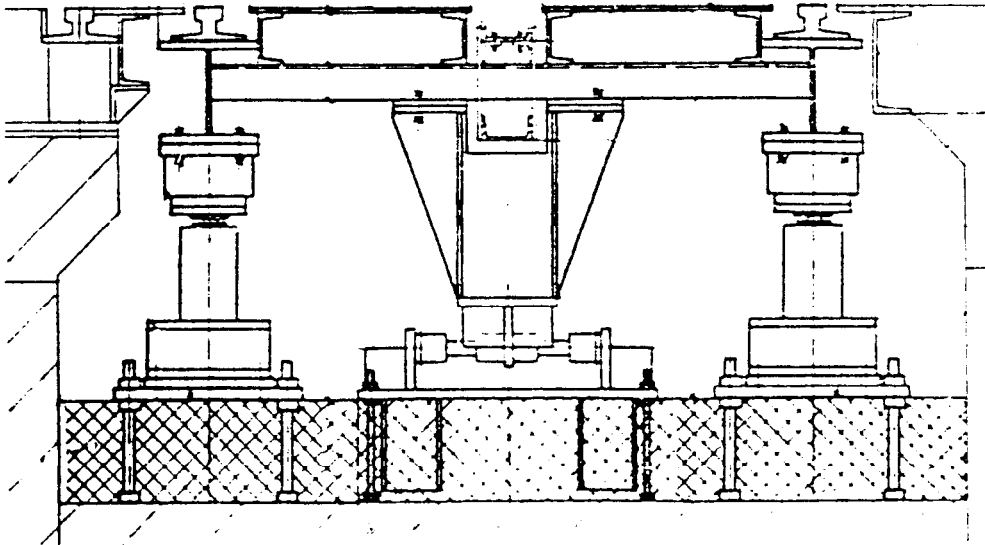
The semi-automatic tare function should be able to reset the mass indicator to zero within  $\pm 0.25e$  at any load within its capacity. This may be checked as described for Zero Test. The non-automatic taring device should be able to reset the mass indicator to zero within  $\pm 0.5e$  at any load within its capacity. A tare should not be able to be acquired above the marked tare capacity.

6. Off-centre Load Test

An off-centre load test should be applied as specified in the inspectors' handbook i.e., the test appropriate for an instrument which can be loaded by a rolling load.

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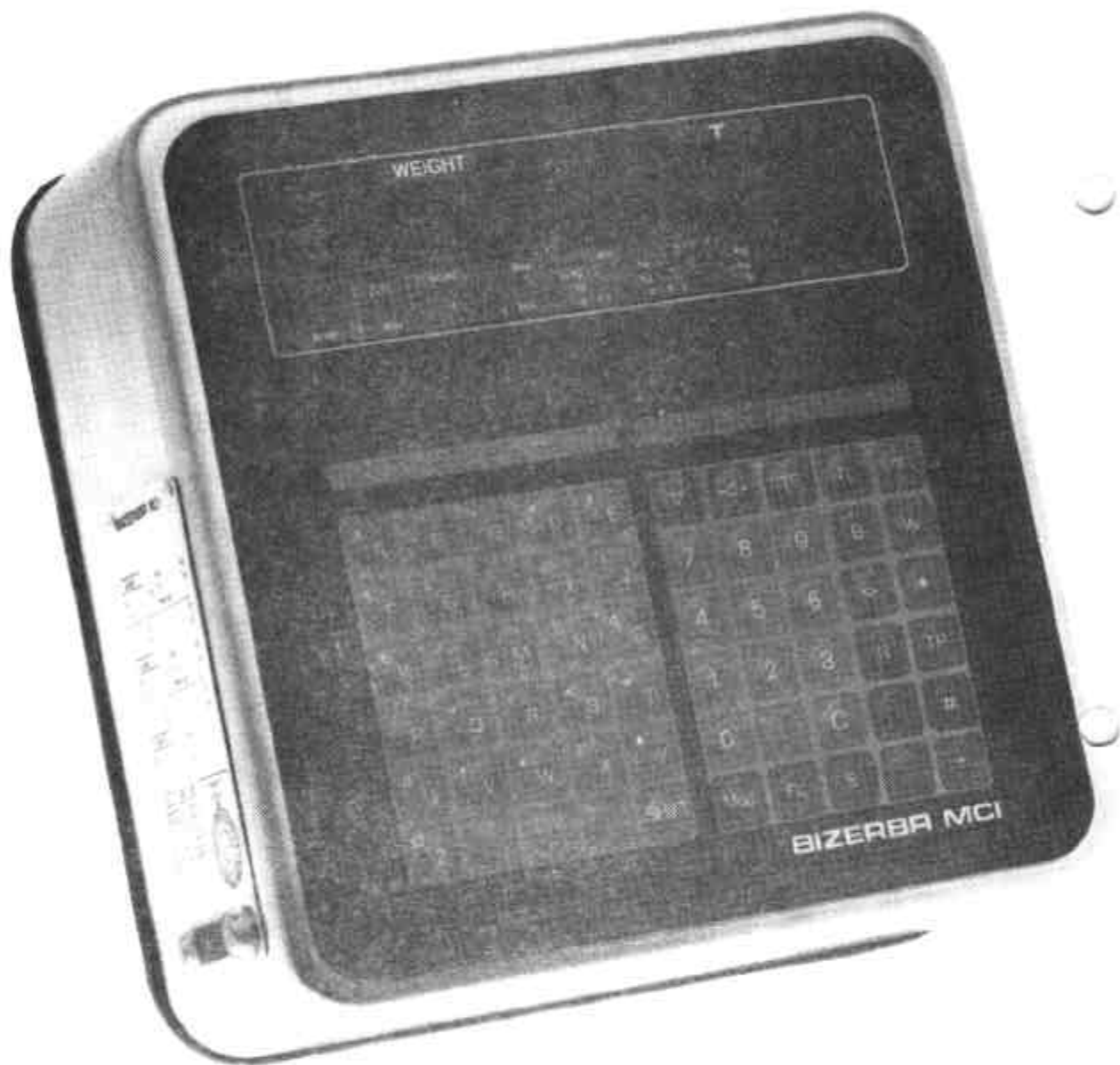
FIGURE 6/9C/94-1



BIZERBA MCI-W Basework

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FIGURE 6/9C/94-2



BIZERBA MCI-W Indicator