



G.H.
6/14B/9A
27/4/88

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/14B/9A

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

Toledo Model 2352 Hopper Weighing Instrument

submitted by Toledo Scale (Australia) Ltd
525 Graham Street
Port Melbourne Vic 3207.

This approval is issued upon completion of reviews of NSC approvals Nos 6/14B/9 and 6/14B/3.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/4/93.
This approval expires in respect of new instruments on 1/4/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/14B/9A.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified in this approval or in any approval documentation for the components, where they are approved separately.

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

The load cells shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 18/3/88

- A self-indicating hopper or tank weighing instrument of up to 60 tonne capacity.

Variant: approved 18/3/88

1. With a mechanical indicator.

Technical Schedule No 6/14B/9A describes the pattern and variant.

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Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/14B/9A dated 27/4/88
Technical Schedule No 6/14B/9A dated 27/4/88 (incl. Test Procedure)
Figures 1 to 5 dated 27/4/88



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/14B/9A

Pattern: Toledo Model 2352 Hopper Weighing Instrument.

Submittor: Toledo Scale (Australia) Ltd
525 Graham Street
Port Melbourne Vic 3207.

1. Description of Pattern

A self-indicating hopper or tank weighing instrument of up to 60 tonne capacity approved for use with up to 6000 verification scale intervals (Figure 1).

1.1 Lever System

The tank or hopper is supported by a lever system consisting of two main load bearing levers, with a load cell located at the nose end of the main levers (Figures 1 to 4 show various configurations), or at the nose end of an additional transfer lever (Figure 5).

Horizontal stays may be fitted to restrict lateral movement of the load receptor.

1.2 Load Cell

A Toledo model 0721 or 0723 load cell is used as described in the documentation of NSC approvals numbers S111A or S112A respectively.

1.3 Indicator

A Toledo model 8142 digital indicator is used as described in the documentation of NSC approval number S206.

1.4 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/14B/9A
Accuracy class	(III)
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = d = kg *
Maximum subtractive tare	T = - kg
Load cell approval number)
Headwork approval number) where
Basework approval number) appropriate
Load cell serial number	- alternatively, this may be marked on a metal tag sealed to the indicator.

* These are repeated adjacent to the reading face.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

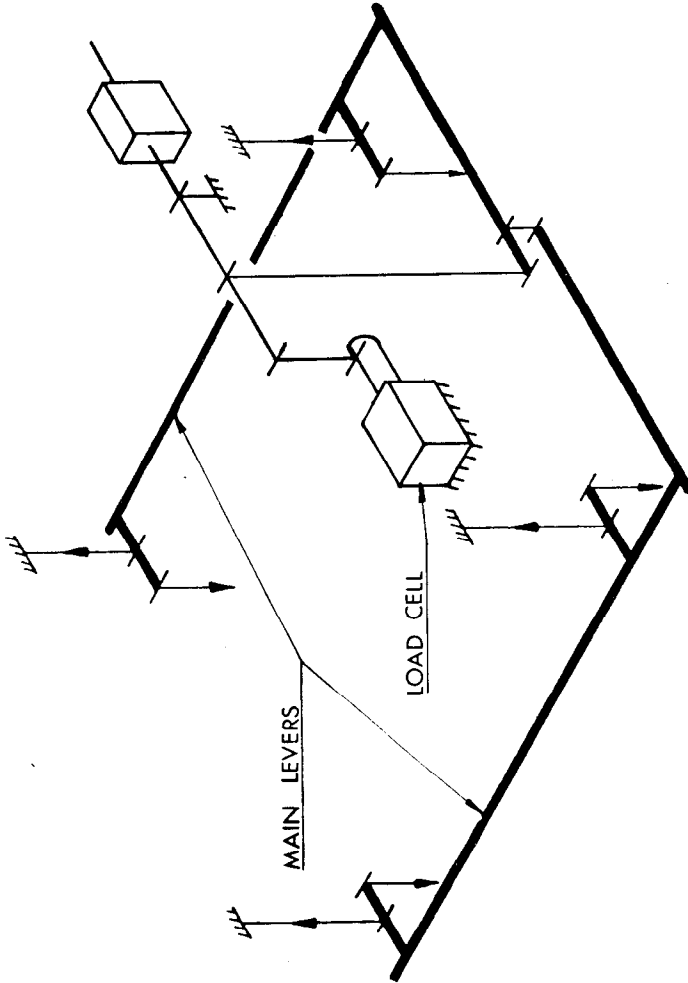
With the load cell and digital indicator either replaced by or supplemented by a mechanical indicator from any Commission-approved Toledo weighing instrument for which there exists a current Certificate of Approval.

TEST PROCEDURE No 6/14B/9A

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

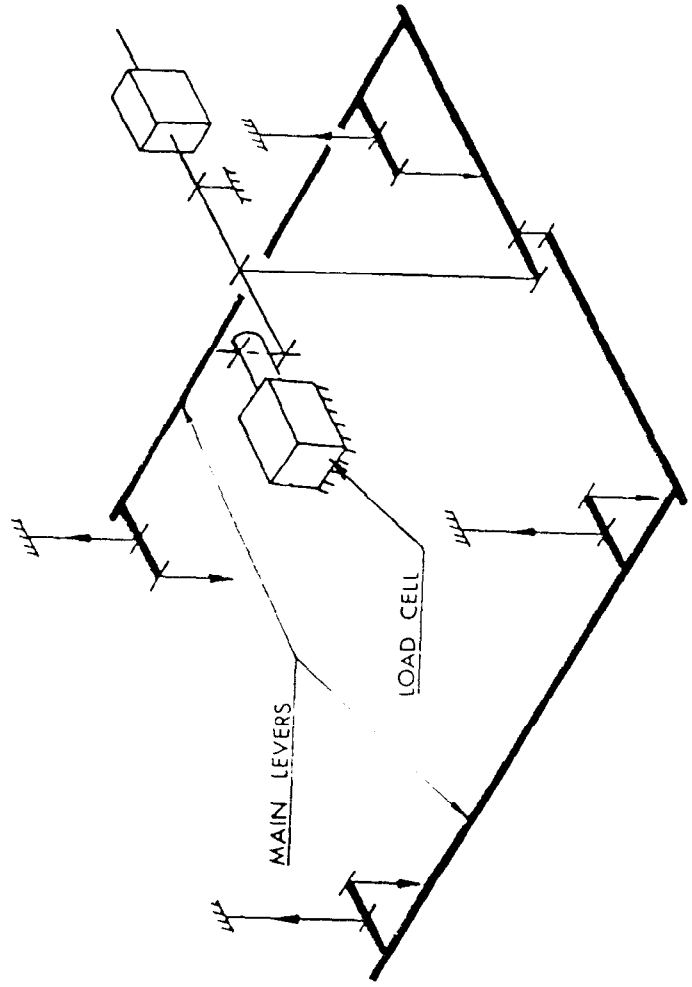
The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.

FIGURE 6/14B/9A - 1



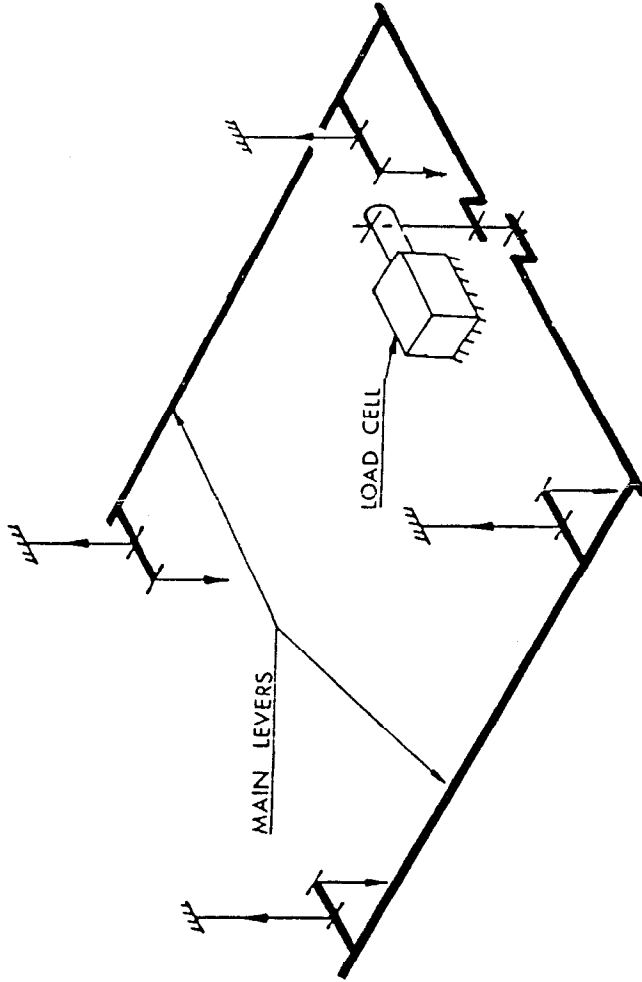
Lever Mechanism - Schematic Drawing

FIGURE 6/14B/9A - 2



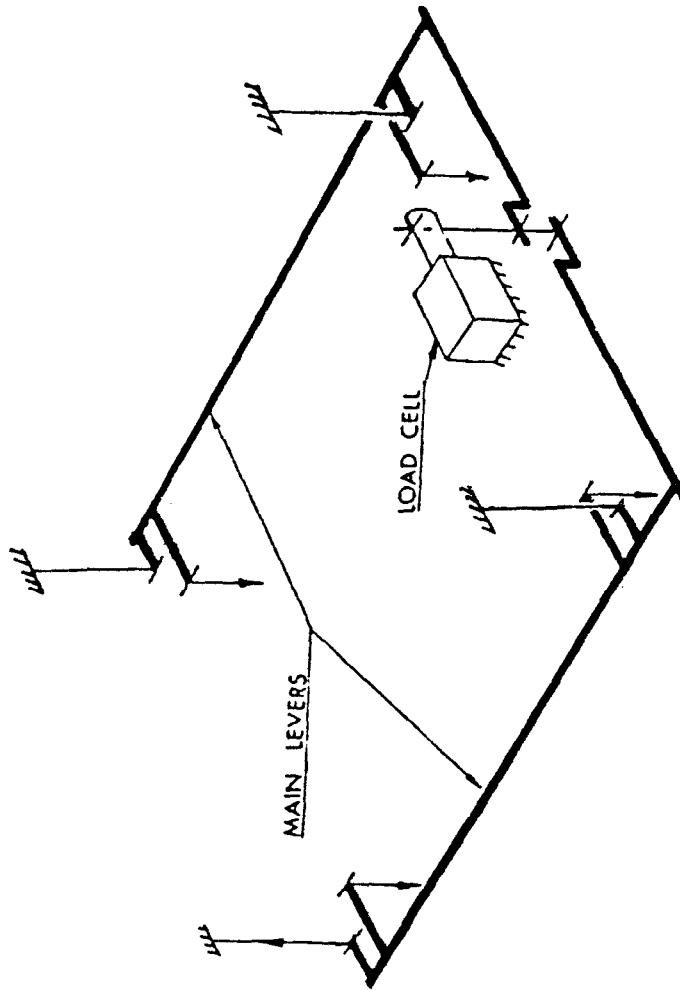
Lever Mechanism - Schematic Drawing

FIGURE 6/14B/9A - 3



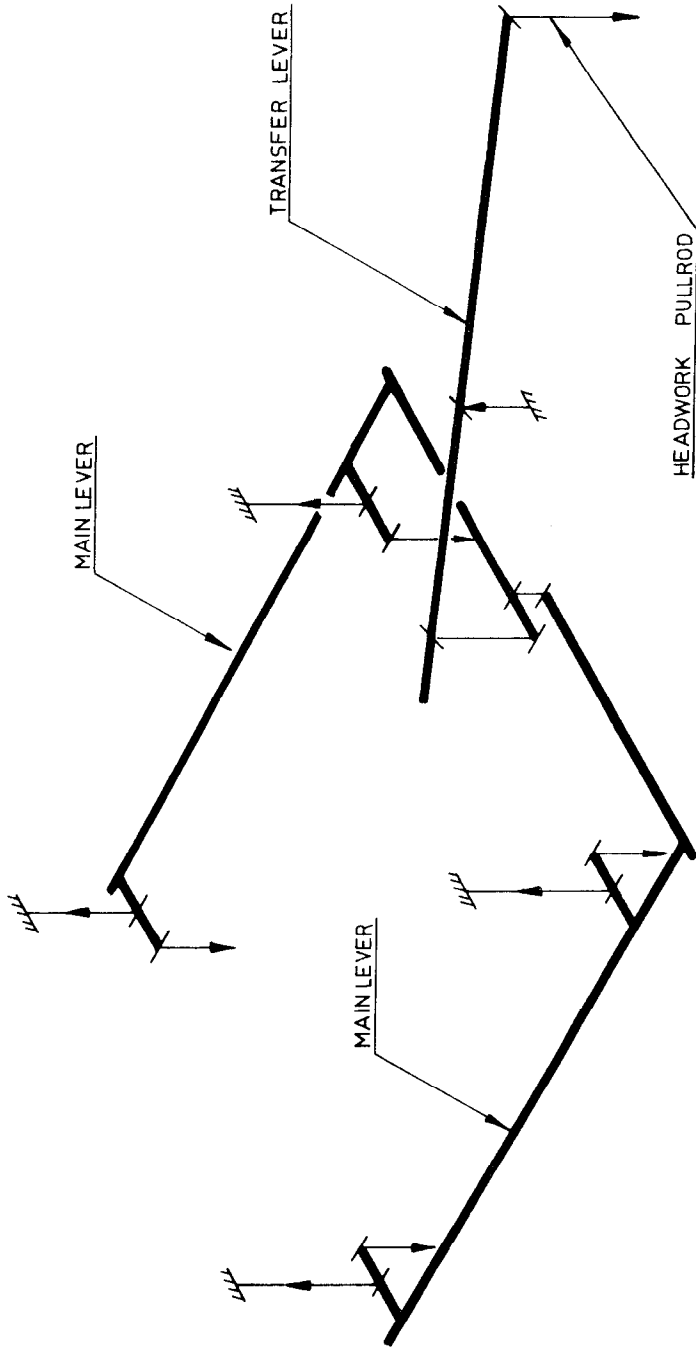
Lever Mechanism - Schematic Drawing

FIGURE 6/14B/9A - 4



Lever Mechanism - Schematic Drawing

FIGURE 6/148/9A - 5



Hopper Lever System With Transfer Lever