

IS : 10525 - 1983

*Indian Standard*

SPECIFICATION FOR GENERAL PURPOSE  
DRINKING WATER TROLLEY

UDC 663.6 : 621.869.85 : 656.211.5



© Copyright 1983

INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

# *Indian Standard*

## SPECIFICATION FOR GENERAL PURPOSE DRINKING WATER TROLLEY

Non-Powered Materials Handling Equipment Sectional  
Committee, MCPD 20

*Chairman*

SHRI J. S. MARWAHA

*Representing*

RDSO ( Ministry of Railways ), Lucknow

*Members*

SHRI K. L. NIRWAN ( <i>Alternate to</i> Shri J. S. Marwaha )	
SHRI AJIT SINGH	Dunlop India Ltd, Calcutta
SHRI R. C. KUMAR ( <i>Alternate</i> )	
SHRI AZAD ABID ALI	Hindustan Tyres Pvt Ltd, Bombay
SHRI A. R. SCOTT ( <i>Alternate</i> )	
SHRI S. C. ANAND	Directorate General of Supplies and Disposals, New Delhi
SHRI O. D. SANGAR ( <i>Alternate</i> )	
SHRI M. S. EKBOTE	Indian Airlines, New Delhi
SHRI YASHBIR KUMAR ( <i>Alternate</i> )	
SHRI J. M. MADAN	Directorate General of Technical Development, New Delhi
SHRI A. M. MERCHANT	Rexello Industries, Bombay
SHRI T. H. MERCHANT ( <i>Alternate</i> )	
SHRI G. D. MODI	Gujarat Industrial Trucks Ltd, Bombay
SHRI A. G. MODI ( <i>Alternate</i> )	
SHRI K. R. PRASAD	Josts' Engineering Co, Bombay
SHRI E. J. TARAPORE ( <i>Alternate</i> )	
SHRI N. L. SARVAIYA	Omega Engineering Co, Bombay
SHRI R. S. UMRIGAR ( <i>Alternate</i> )	
SHRI T. R. SEHGAL	Ministry of Industrial Development, New Delhi
SHRI V. B. SHAH	T. Maneklal Manufacturing Company Ltd, Bombay
SHRI N. N. DESAI ( <i>Alternate</i> )	
SHRI A. H. SHAIKH	Special Equipment Company, Bombay
SHRI H. M. SHIDHAYE	Voltas Limited, Bombay
SHRI SAT PAL SINGH	Ministry of Defence ( DGI ), New Delhi
SHRI S. C. PANDE ( <i>Alternate</i> )	

( *Continued on page 2* )

© Copyright 1983

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* ( XIV of 1957 ) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

( Continued from Page 1 )

<i>Members</i>	<i>Representing</i>
SHRI V. R. SUBNIVIS	Air India, Bombay
SHRI S. V. KEMBRE ( <i>Alternate</i> )	
SHRI A. B. THAKUR	Ministry of Shipping & Transport, New Delhi
SHRI K. C. UNNITHAN	Macneill and Magor Ltd, Calcutta
SHRI S. ROY CHOWDHARY ( <i>Alternate</i> )	
SHRI P. S. DAS,	Director General, ISI ( <i>Ex-officio Member</i> )
Director ( MCPD )	

*Secretary*

SHRI V. K. SEHGAL  
Deputy Director ( MCPD ), ISI

Hand Trucks and Trolleys Subcommittee, MCPD 20 : 1

*Convener*

SHRI J. S. MARWAHA                      RDSO ( Ministry of Railways ), Lucknow

*Members*

SHRI K. L. NIRWAN ( <i>Alternate to</i> Shri J. S. Marwaha )	
SHRI AZAD ABID ALI	Hindustan Tyres Pvt Ltd, Bombay
SHRI ANSEL R. SCOTT ( <i>Alternate</i> )	
SHRI J. BASU	Indian Posts & Telegraphs Department, New Delhi
SHRI M. S. EKBOTE	Indian Airlines, New Delhi
SHRI G. K. AGGARWAL ( <i>Alternate</i> )	
SHRI S. GANESAN	Simpson & Company Ltd, Madras
SHRI V. NAGARATNAM ( <i>Alternate</i> )	
SHRI A. M. MERCHANT	Rexello Industries, Bombay
SHRI T. H. MERCHANT ( <i>Alternate</i> )	
SHRI G. D. MODI	Gujarat Industrial Trucks Ltd, Bombay
SHRI ASHWIN G. MODI ( <i>Alternate</i> )	
SHRI K. R. PRASAD	Josts' Engineering Company Ltd, Bombay
SHRI E. J. TARAPORE ( <i>Alternate</i> )	
SHRI N. L. SARVAIYA	Omega Engineering Company, Bombay
SHRI R. S. UMRIGAR ( <i>Alternate</i> )	
SHRI H. M. SHIDHAYE	Voltas Ltd, Bombay
SHRI K. C. UNNITHAN	Macneill & Magor Ltd, Calcutta
SHRI S. ROY CHOWDHARY ( <i>Alternate</i> )	

# *Indian Standard*

## SPECIFICATION FOR GENERAL PURPOSE DRINKING WATER TROLLEY

### 0. FOREWORD

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 30 March 1983, after the draft finalized by the Non-Powered Materials Handling Equipment Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

**0.2** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

---

### 1. SCOPE

**1.1** This standard prescribes the requirements for drinking water trolley for general purpose.

### 2. DESIGN

**2.1** The trolley shall be of 250 litres nominal capacity and its dimensions shall be as shown in Fig. 1.

### 3. CONSTRUCTION

**3.1** The trolley shall consist of a barrel, its supports for mounting frame, handle and wheels/castor for movement.

**3.2 Barrel** — The barrel shall be horizontal and of cylindrical shape with dished or conical ends as agreed to between the purchaser and the supplier. The diameter of the barrel shall be 500 mm. The barrel shall be designed with a positive slope towards its outlet and ensure complete drainage of the water during the course of cleaning.

---

\*Rules for rounding off numerical values (*revised*).

**3.2.1** The barrel shall be made of stainless steel conforming to IS : 6911-1972\*.

**3.2.2** Barrel inlet hole with collar ring and cover shall be made of stainless steel conforming to IS : 6911-1972\* or to fibre glass conforming to IS : 7193-1974† or as agreed to between the purchaser and the supplier.

**3.2.3** The inlet hole of 250 mm diameter shall have a cover which shall be hinged on to a suitable collar on the barrel. The cover when in closed position shall prevent entry of dust into the tank.

**3.2.4** One outlet shall be located at the bottom of the barrel for cleaning purposes. It shall be provided with a dummy plug.

**3.3 Barrel Support** — This shall suit the trolley frame and the barrel to provide a positive anchoring of the complete tank on the frame.

**3.4 Frame** — The frame shall be made of mild steel pipe (light quality) conforming to IS : 1239 (Part I)-1979‡. The pipe fittings shall conform to IS : 1239 (Part II)-1969§ and shall suit the standard push cocks and other pipe connections.

**3.5 Wheel** — The wheels including one front castor of size 250×60 mm conforming to IS : 7369-1974|| shall be used. The front castor shall be provided with a suitable arrangement nearest to the trolley-man to facilitate movement to the trolley in the desired direction.

**3.6 Tumbler Rack** — The tumbler rack shall be made of steel conforming to IS : 1079-1973¶ or as agreed to between the purchaser and the supplier.

**3.7 Waste Water Tray** — The waste water tray shall be made of steel conforming to IS : 1079-1973¶ or as agreed to between the purchaser and the supplier.

**3.8 Waste Water Tank** — To prevent the spreading of drain water, each trolley shall be provided with a waste water tank of capacity not less than 50 percent of barrel capacity and shall be made of steel conforming to IS : 1079-1973¶.

---

\*Specification for stainless steel plate, sheet and strip.

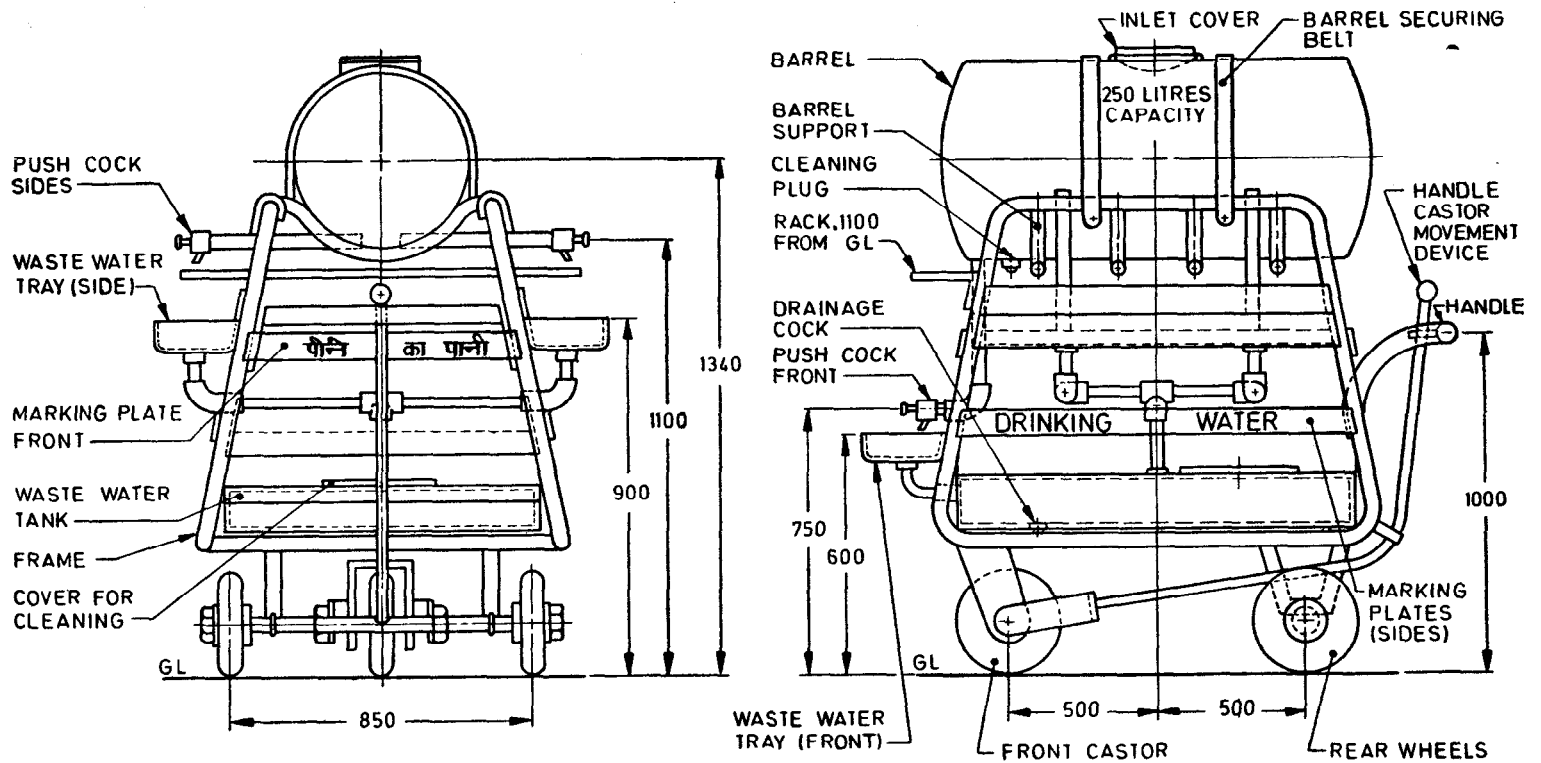
†Specification for glass fibre base coal tar pitch and bitumen felts.

‡Specification for mild steel tubes, tubulars and other wrought steel fittings : Part I Mild steel tubes (*fourth revision*).

§Specification for mild steel tubes, tubulars and other wrought steel fittings : Part II (*second revision*).

||Specification for wheels and castors.

¶Specification for hot rolled carbon steel sheet and strip (*third revision*).



All dimensions in millimetres.

FIG. 1 WATER TROLLEY ( FOR GENERAL PURPOSE CAPACITY 250 LITRES )

As in the Original Standard, this Page is Intentionally Left Blank

3.8.1 The tank shall be connected to all the waste water trays.

3.8.2 The tank shall be provided with an outlet plug type cock to drain out the waste water.

3.8.3 A hinged cover shall be provided on the tank to enable its cleaning easily

#### 4. RUST PREVENTION

4.1 The parts liable to rusting shall be painted with an anti-rust primer using non-corrosive filler.

#### 5. WORKMANSHIP

5.1 The trolley shall be free from warp in structural framework.

5.2 The welds shall be ground smooth.

5.3 Wherever, an opening in steel sheets is made, suitable stiffening arrangement shall be welded near edges of the opening.

5.4 The painted surfaces shall be free from wrinkles, irregular painting drippings, scratches and uneven colouring.

#### 6. TEST

6.1 The barrel after grinding the welds and surface finishing shall be tested for water leakage by subjecting it to a hydraulic pressure of 3.5 N/cm<sup>2</sup> for 5 minutes.





AMENDMENT NO. 1 MAY 1984

TO

IS:10525-1983 SPECIFICATION FOR GENERAL PURPOSE  
DRINKING WATER TROLLEY

Corrigenda

(Page 4, clause 3.2.2) - Substitute the following for the existing matter:

'3.2.2 Barrel inlet hole with collar ring and cover shall be made of stainless steel conforming to IS:6911-1972\* or fibre glass or as agreed to between the purchaser and the supplier.'

(Page 4, clause 3.6, line 1) - Add 'sheet' after the word 'steel'.

(Page 4, clause 3.7, line 1) - Add 'sheet' after the word 'steel'.

(Page 4, clause 3.8, line 3) - Add 'sheet' after the word 'steel'.

(Page 4, Foot-note with '+' mark) - Delete.

(Page 4, foot-note with '§' mark) - Substitute the following for the existing matter:

'§Specification for mild steel tubes, tubulars and other wrought steel fittings: Part 2 Mild steel tubulars and other wrought steel pipe fittings (*second revision*).'

(MCPD 20)