

**Rail Coach Factory, Kapurthala**

**MD22301**

**Date: 01.05.2015**

**Sub: Specification of chlorine tablets for the use in IR-DRDO bio-toilets.**

**Ref: Para #11 of the MoM of the 15th JWG meeting on IR-DRDO bio-toilets held at NW Railway Jaipur on 27.02.2015.**

The issue of preparation of specification for chlorine tables used for reduction of faecal-coli-forms has been in discussion since last two JWGs. During 14th JWG held at Jaipur on 27.02.15 (para-11) RDSO expressed their inability due to process time of specification at RDSO. RCF was requested by RDSO to issue the specification. The details will be collected by RDSO from DRDE/GWL and will be provided to RCF. Based on the details received from RDSO specification for chlorine (MDTS 14274 Rev-00) has been prepared and enclosed for procurement purpose. One of the likely supplier is: *M/s Noida Chemicals, 27 Ashoka chamber, 5B Raendra Park, PUSA Road, Rajendra Place, New Delhi-110 008*

  
(Lalit Kishore)  
Dy CME/Design

**Encls: A copy of specification MDTS 14274 Rev-00**

All Chief Rolling Stock Engineers of IR  
All Chief Workshop Engineers of IR  
All Chief Workshop Managers of IR

ED, Carriage, RDSO, Manak Nagar, Lucknow  
EDME/Development, Railway Board  
ED CAMTECH  
CDE/ICF

**Rail Coach Factory, Kapurthala**

<b>Specification</b>	<b>Technical specification for Chlorine tablet for use in IR-DRDO bio-toilets</b>	<b>MDTS-14274 Rev-00 PAGE 1 Of 2 Date: 30.04.15</b>
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<b>Name</b>	<b>Designation</b>	<b>Signature</b>	<b>Date</b>	<b>Level</b>
Ashwani Kumar	SSE/Bio-toilets	<i>Ashwani</i>	30.4.15	Prepared
Lalit Kishore	Dy CME/Design-3	<i>Lalit</i>	30.4.15	Agreed/ Reviewed
Vinay Babiwale	CDE	<i>Vinay Babiwale</i>	30.4.15	Approved

<b>Rev. No.</b>	<b>Details of Changes</b>	<b>Date</b>
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*Ashwani*

Prepared by

*Lalit*

Agreed by

**Rail Coach Factory, Kapurthala**

**Specification**

**Technical specification for Chlorine tablet  
for use in IR-DRDO bio-toilets**

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**1. Scope:**

- 1.1. The scope of this specification is to supply the chlorine tablets as per the specified dimensions and properties. These will be used in IR-DRDO bio-toilets (using anaerobic bacteria) for reduction of faecal-coli forms of the discharged effluent from the bio-toilets.

**2. Eligibility conditions:**

- 2.1. The tenderer should be a reputed manufacturer of chlorine tablets and should have all the requisite testing facilities or have authorization from reputed manufacturer of chlorine tablets having requisite testing facilities. In absence of above, offers shall be deemed as incomplete and may not be considered.
- 2.2. The tenderer must submit detailed clause-wise comments on the specification indicating manufacturing and testing facilities. In absence of above, offers shall be deemed as incomplete and may not be considered.

**3. Technical requirements:**

- 3.1. The tablet size should be 78mm diameter and weight should be of approximately 200 g.
- 3.2. The tablet should have active molecule of 3, 5 di-chloro-iso-cyanuric-acid.
- 3.3. It should have effective chlorine of  $\geq 50\%$  chlorine.
- 3.4. The tablet should be formulated for sustained release (should last for at least 21 days in tap water).
- 3.5. Moisture content should be  $\leq 4\%$ .
- 3.6. The tablet should be stable during storage for at least one year.

**4. Identification Marking:**

Each chlorine tablet shall have manufacture's Name/Logo, month and year of Manufacture.

**5. Packing:**

The packing should properly protect against moisture, rubbing, impact, scratches during handling, transportation and storage. Each package shall be of convenient mass for easy handling.

**6. Warranty:**

The manufacturer shall warrant for conformance to quality for a period of 12 months from date of supply.

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Prepared by

  
Agreed by