

**CENTRAL MARKS DEPARTMENT – II**

**Our Ref: CMD-II/G-1**

**21 07 2004**

**Subject: Sample size for complete testing of Packaged drinking water as per  
IS 14543:2004**

From time to time CMD-II has been receiving queries regarding the actual sample size required for complete testing of Packaged drinking water. In order to resolve this CL was requested to provide us the necessary guidelines in the matter. We have since received CL's detailed guidelines on the subject vide their reference CL/QA/83 dated 21 July 2004, copy of which is enclosed for further perusal of all ROs/BOs.

(A.N. Jauhari)  
D&H(CMD-II)

Encl: As above

**Circulated to all ROs/BOs**

**FAX No. 23230792**  
**BIS CENTRAL LABORATORY**  
**SAHIBABAD**

**Our Ref: CL/QA/83**

**21 July 2004**

**Subject: Sample size for complete testing of packaged drinking water as per IS 14543:2004**

CMD-II may please refer their note no. CMD-II/16:14543 dated 20 July 2004 for knowing the minimum quantity of samples required for testing packaged drinking water as per IS 14543:98 and IS 14543:2004

In this connection, we have gathered the information from most of the approved labs and also from our WROL and after discussion with the officials of CL who are involved in testing PDW and arrived at the consensus that about 18 litres of quantity of sample is adequate enough for complete testing as per IS 14543:2004 excluding radio active elements testing and there is no much change in the sample quantity requirement due to revision of the specification from IS 14543:98

We recommend 18 litre quantity by considering following factors and variables.

- i) Use of different test methods by labs
- ii) Level of instrumentation used by the lab
- iii) Administrative arrangement within the lab i.e. separate test sections requiring different containers of samples
- iv) And for repetition of test if felt by the testing person due to various manual/instrument error/ testing spoilage etc.

As such, about 18 litre quantity is adequate if the samples are supplied in 2 litre or in small containers but in case the samples are available in large size packages, minimum two packages are required as microbiological lab needs separate sample for ensuring aseptic handling.

For example: 11x 18 nos  
21 x 9 nos  
51 x 4 nos  
61 x 3 nos  
101 x 2 nos  
121 x 2 nos  
201 x 2 nos  
24 x 2 nos

We hope that this clarifies the doubt regarding the need or sample quantity requirement.

(N.P. Kawale)  
Sc. E & Head (QA)

**DDGL**  
**CMD-II**