

भारतीय मानक ब्यूरो /BUREAU OF INDIAN STANDARDS
(पूर्वी क्षेत्रीय प्रयोगशाला)/Eastern Regional Laboratory

हमारा संदर्भ/Our Ref: EROL(C)/IS 14543

20/03/2024

विषय / Subject: Comment on IS 14543:2016

इस संबंध में प्रस्तावित बदलाव(ओं) पर विचार करने के लिए एफ.ए.डी द्वारा निम्नलिखित टिप्पणियों पर ध्यान दिया जाए:

क्र. सं. Sl. No	Clause no of IS 14543	प्रस्तावित बदलाव/ Proposed change	वजह/Justification
1.	Column(3) of S.No. (viii) &(ix) of Table 3	1. The specified limit should be changed from ' Not Detectable ' to Max: 0.0005 mg/l for polychlorinated biphenyls(as PCB) and Max: 0.0001 mg/l for Polynuclear aromatic hydrocarbon (as PAH)	1. Specified requirement for Polychlorinated biphenyl (PCB) and Poly aromatic hydrocarbon (PAH) is 'Not Detectable'. Method of detection/analysis of PCB and PAH is by utilizing the equipment Gas Chromatographic method as per Annex M of 13428 and APHA 6440. All instruments/methods have a specified limit of detection (LOD) and a specified limit of quantification (LOQ). Therefore the requirement "Not Detectable" is ambiguous. Limits for PAH &PCB in IS 14543 may therefore be aligned with IS 10500, please refer Col (3) of S.No. (viii) & (ix) of Table 3 of IS 10500:2012.
2.	Column(4) of S.No(viii) under Table 3	2. Additional/alternative method for PCB test should be added as IS15670:2006/ISO 6468:1996 or ASTM 5175 or APHA 6630	2. Present method of test for PCB in IS 14543 is 'Annex M of IS 13428' where various type of PCBs have not specified. IS 15670:2006/ISO 6468:1996 should be added as alternative test method for determination of PCBs where in addition to method of tests, the various PCBs that should be identified have been mentioned. PCB 28 (2,4, 4'-trichlorobiphenyl) PCB 52 (2,2',5, 5'-tetrachlorobiphenyl) PCB 101 (4,5, 5'-pentachlorobiphenyl) PCB 138 (2,2',3,4,4', 5'-hexachlorobiphenyl) PCB 153 (2,2',4,4',5, 5'-hexachlorobiphenyl) PCB 180 (2,2',3,4,4',5, 5'-heptachlorobiphenyl) PCB 194 (2,2',3,3',4,4',5, 5'-octachlorobiphenyl) For additional method ASTM 5175 or APHA 6630, have been referred under alternate method Col (5) of S.No. (viii) of Table 3 of IS 10500:2012 which can be the of test for PCBs.

Submitted for kind consideration of technical committee.

Anty
20/3/24
OIC(Chemical)

H(ERL)

HFAD

Shampa Ghosh
21/3'

Shampa Ghosh
20/3/24
Shampa Ghosh.
LO, Chemical Section