

Annexure – I.

Proposed Amendments in IS 12584 – 4 Nos. additions proposed

In para 3 TERMINOLOGY one more para is proposed to be added :

1. 3.1 Bentonite

A clay composed principally of minerals of the montmorillonite group, characterized by high adsorption and very large volume change with wetting.

3.2 Thixotropy

In para 5.2 ***physical and chemical***, two more lines is proposed to be added.

2. ***The natural sodium bentonite, or Wyoming bentonite, with a sodium montmorillonite content of at least 90% should be used—not a soda-activated calcium bentonite.***

In Para **6 Packing**, second line before jute bags following word proposed to be added

3. ***impermeable***

In Table 1, following three more points proposed to be added :

4

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5	<i>Specific surface Area</i>	<i>50 to 120 m²/g When dry 700 to 840 m²/g When wet</i>		
6	<i>Activity</i>	<i>7.2</i>	<i>1.5</i>	

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Jan. 13, 2023

Dear Shri Dushyant Prajapati Saheb,

Sub: Revision of IS 12584

Ref Exchange of Mobile messages on dated 11.01.2023.

I am always available at BIS back and call.

Most of my inputs are based on field experiences and references of various articles/literatures I have gone through on the concern subject. Point wise clarification is forwarded below :

- 1) 'Activity' of soil and bentonite is defined as the ratio of plasticity index of a soil to the percent of clay particles by weight in soil. Being ratio it is dimensionless.
- 2) Plasticity Index can be found out as per IS : 2720 (Part 5) – 1985 or latest, and clay content can be found out as per IS : 2720 (Part 4) – 1985 or latest.
- 3) Regarding arriving the value of 1.5 and 7.2, I have taken them from a Article "Grouting Theory & Practice" by E. Nonveiller, a famous Geotechnologist. If you wish I can share the article with you.

I, very well understand your dilemma, in finalization of IS 12384 and if you feel difficulty in accepting this item i.e. note No. 6 in table No. 1, it can be ignored from my suggestion

Kindly do inform me for any further information.

Regards,


Dr. Mahavir Bidasaria