

## FORMAT FOR SYNOPSIS OF INDIAN STANDARDS

### Number and Title of the Indian Standard:

**IS 17213:2019**      **Textile Dyestuffs – Punica Dye – Identification**  
Doc TXD 07 (13350)

### Scope:

This standard prescribes test method and identification requirement of dried/ aqueous extract of Punica dye and Punica dyed textiles. The detection and identification of synthetic Punica dye and natural colorant Punica dye are conducted using Kit method given in Annex A. Confirmatory tests can be carried out through Thin Layer Chromatography (TLC) and High Performance Liquid Chromatography (HPLC) by chromatographic techniques as given in Annex B and C as well as by UV-Visible spectroscopic technique as given in Annex D. The method for extraction of natural Punica dye from dyed swatches is given in Annex E.

#### a) Salient features of content:

Natural colorants are usually never a single compound, they are composed of several compounds which are structurally similar, each of them having their characteristic bonding with the fabric based on their structure uniqueness. Their contribution in the total colorant may vary. Therefore, the analysis of these individual components can be carried out by chromatographic and spectroscopic techniques. The authenticity of the natural colorant can be established by these techniques very clearly. Thus, natural dye can be easily differentiated from synthetic dye.

#### b) Types/Grades/Classes, if any covered in the standard: None