

FORMAT FOR SYNOPSIS OF INDIAN STANDARDS

Number and Title of the Indian Standard:

IS 17430:2020 **Textile Dyestuffs — Natural Dye From Red Flowers of *Canna indica* (Indian Shot, *Sarvajjaya*) — Identification**

Doc TXD 07 (14178)

Scope:

This standard prescribes test methods and identification requirements of powder / aqueous extract of *Canna indica* (*Sarvajjaya*) red flower dye, and of textiles coloured with this dye. The detection and identification of the natural colourant from red flowers of *Canna indica* is conducted using chromatographic techniques *i.e.*, Thin Layer Chromatography (TLC) and High Performance Liquid Chromatography (HPLC) as given in Annex A and B and by UV-Visible spectroscopic technique as given in Annex C. The method for extraction of the dye from fabric dyed with *Canna indica* red flower extracts is given in Annex D.

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