

FORMAT FOR SYNOPSIS OF INDIAN STANDARDS

Number and Title of the Indian Standard:

IS 3177 : 2020 Electric overhead travelling crane and gantry crane for all applications— Code of practice [Doc MED 14 (13932)]

a) Scope

1.1 This standard covers requirements for design, manufacture, inspection and testing of electric overhead travelling cranes and gantry cranes for use in steel works and other locations. Its provisions where applicable, shall also apply to special purpose cranes, such as those listed in Annex A including steel plant crane and other overhead travelling cranes, portal and semi-portal cranes, single girder, double girder or mono-box type (Fig 1). It is recommended that, the crane should be designed based on the duty classes and application, irrespective of usage in steel works or at other locations. Classification of the crane as a whole shall be taken as defined from classes A1, A2, A8 and as defined as from mechanism classes M1, M2, M8 classification as defined in foreword. Structural design aspects of all types of cranes and hoists are covered in IS 807.

1.2 The duty class of crane preferably be selected as per 1.1.

1.3 Annex B gives guidance which may be referred by purchaser while specifying the duty class.

1.4 This standard is not intended for application to cranes for use in areas where sparks from cranes could lead to explosions.

1.5 It is recommended that IS 13367 (Part 1) to be referred for safe usage of crane.

1.6 Risk assessment and risk reduction to be carried out as per IS 16819 and IS 16504 (Part 1) if agreed between the manufacturer and the purchaser.

b) Salient features of content: This standard covers terminology, technical information to be provided, identification, design of mechanical components and electrical components, testing requirements etc regarding Electric overhead travelling crane and gantry crane for all applications.

c) Types/grades/classes, if any covered in the standard: Not applicable

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