

INTERPLANT STANDARD — STEEL INDUSTRY



BASIC PARAMETERS FOR STANDARDIZATION OF STEEL PLANT EQUIPMENT

IPSS : 1-02-020-84

CORRESPONDING INDIAN STANDARD DOES NOT EXIST

0. Foreword

0.1 Interplant standardization activity in steel industry has been initiated under the aegis of the Indian Standards Institution (ISI) and the Steel Authority of India Ltd (SAIL). This Interplant Standard is based on the decisions at various meetings of the Approval Committee on Consumable Stores and General Equipment, IPSS 1, on basic parameters, like ambient temperature conditions, voltages and site conditions necessary for uniform adherence in all Interplant Standards. The Standards Committee on Basic Standards and Hydraulic, Pneumatic and Lubricating Equipment, IPSS 1:2, has finalized this document as an interplant standard and was adopted by the Approval Committee IPSS 1 on 29 March 1984.

1. Scope — This Interplant Standard specifies the basic parameters on ambient temperature conditions, voltages and site conditions in steel plants which are considered necessary for uniform adherence in all Interplant Standards, especially those which are electrical for the sake of uniformity in understanding and in communication.

2. Ambient Temperature — The standard ambient temperature shall be regarded as 40°C. In the case of electrical items suitable guidance for derating for use in higher ambient conditions shall be given in the respective Interplant Standard (if necessary, with the assistance of the Indian Electrical Manufacturers Association, Bombay and/or the Electrical Research and Development Association, Vadodara).

2.1 Each plant shall decide the ambient temperature for individual locations and record the same in their In-plant or Company Standards for guidance of the shop floor engineers.

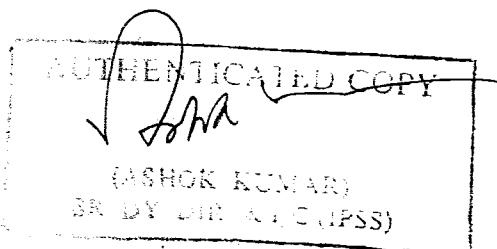
3. Voltage

3.1 ac Voltage — In the case of ac supplies, the preferred voltages shall be 240 V between any phase and the neutral and 415 V between any two phases.

3.2 dc Voltage — In the case of dc supplies, the preferred voltages shall be 230/460 V.

4. Site Conditions — The following shall constitute the site conditions.

- a) **Humidity** — It shall be 100 percent relative humidity,
- b) **Altitude** — It shall be not more than 1 000 m,
- c) **Air** — The air in steel plants shall be deemed to contain fair amount of conductive dust, and
- d) **Vibration Conditions** — Not specified, but shall be built into the relevant standard on the item concerned depending upon the actual site condition.



Amendments Issued (to be filled up by the user department) :

No.	Date of Issue	No.	Date of Issue
1		3	
2		4	

UDC 669:187-013:389:6