INTERPLANT STANDARD - STEEL INDUSTRY		
IPSS	**SPECIFICATION FOR TEMPERATURE SWITCH (FILLED IN SYSTEM)**	**IPSS: 2-07-049-13 (*First Revision*)**
	CORRESPONDING IS DOES NOT EXIST	Formerly : IPSS: 2-07-049-88

0. FOREWORD

0.1 This Interplant Standard has been prepared by the Standards Committee on Computerization and Automation, IPSS 2:7 with the active participation of the representatives of the steel plants, reputed consultancy organizations and established manufacturers. Originally, the standard was published in 1988. Based on recent developments, It revised and adopted in February, 2013.

0.2 Interplant Standards on design parameters primarily aim at achieving rationalization and unification of parts and assemblies of process and auxiliary equipment used in steel plants and these are intended to provide guidance to the steel plant engineers, consultants and manufacturers in their design activities.

1. SCOPE

1.1 This Interplant Standard covers the specific requirement of temperature switch.

2. REQUIREMENT

2.1 Type – Filled in system

2.2 Sensing Element and Material – Bellows – stainless steel

2.3 Bulb and Capillary Material – AISI 316 SS.

2.4 Capillary Armouring – Stainless steel.

2.5 Case Material – Diecast aluminium stove enameled, black finish conforming to NEMA – 4X.

2.6 Over Range Protection – 125 percent of range or better.

2.7 Adjustments:

a) Set point, and

b) Internal differential.

2.8 Switch Configuration – Two numbers SPDT.

2.9 Switch Rating – 240 V, 5A ac/220 V, 0.5 A dc.

2.10 Adjustability – Set point adjustable over the span.

2.11 Performance:

a) Accuracy : ± 0.5 percent of full scale, and

b) Repeatability : 0.5 percent.

2.12 Scale – Black graduation on white scale with red pointer.

2.13 Connection – Male connections to suit thermowell.

2.14 Accessories :

a) Thermowell of AISI 316 SS, M33 X2, and

b) Installation accessories.