PURCHASE SPECIFICATION

FOR

GENERATOR PANEL CURRENT TRANSFORMERS

FOR

OIL RIG APPLICATION



SPECIFICATION NO

OR 12368

REVISION NO

REV 00

DATE

11.04.09

Prepared By:

Checked By:

Approved By:

(Sanjay Ahirwar)

Dy Manager (D)

((Rajesh Agrawal)

Manager (D)

DGM-CEE

CONTROL EQUIPMENT ENGINEERING DIVISION BHARAT HEAVY ELECTRICALS LIMITED- BHOPAL

Specification for Current Transformers for Generator Panel

01. Introduction

This specification covers the requirement of in-door current transformers (CT) for use in generator panel for oil rig application. CT as per item no-1 is used to get current feedback from 3 phase, 600VAC, 50Hz system (Floating neutral) for closed loop control as well as metering purpose and CT as per item no-2 is used for energy meters. Both the CT should be suitable for operation at an ambient temperature of 55 degree C and high degree of saline atmospheric condition with relative humidity of 95% as applicable to oil rig application.

02. General Requirement

- a) The CT shall be 3kV grade epoxy cast resin insulated rectangular type current transformer (opening in the centre to accommodate primary conductor thru it). The CT shall have overall dimension & mounting details as per attached drawing. All the terminals shall be screw type and suitably marked. The polarity marking on the CT shall also be mentioned appropriately.
- b) The general requirement of the CT for item no-1 is per following details.

Item No-1:(BHEL Style Code: BP9048127181)

Type : Rectangular type measuring CT

CT ratio : 1500 / 2.5A

VA Burden : 15VA

Insulation : Cast resin suitable for 3kV AC Grade

Accuracy Class : 1.0

Short time rating : 50kA(RMS) for 1 second

CT Colour : Brick red Applicable IS : IS-2705

Dimensional details: As per Drg No-47211010274, Rev 00 Tem 01

c) The general requirement of the CT for item no-2 is per following details.

Item No-2:(BHEL Style Code: BP9048127190)

Type : Rectangular type measuring CT

CT ratio : 1500 / 5A VA Burden : 15VA

Insulation : Cast resin suitable for 3kV AC Grade

Accuracy Class : 1.0

Short time rating : 50kA(RMS) for 1 second

CT Colour : Brick red Applicable IS : IS-2705

Dimensional details: As per Drg No-47211010274, Rev 00 14m. 02

d) For connections on secondary side, the secondary terminal shall be of M4/M5 size and will be integral part of CT casting.



