



Standard Quality Plan for Thermostat for ESP Application for NTPC and NON NTPC projects.

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QP:E :842	00	26 03 2016

TITLE : Standard Quality Plan for Thermostat for ESP Application.

SIGNATURE

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RECORD OF REVISION

REV. NO	EFFECTIVE DATE	REMARKS
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STANDARD QUALITY PLAN FOR THERMOSTAT FOR ESP APPLICATION.

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1.0	Review of Raw Material	Chemical Composition	Major	Chemical	Sample	Sample	APRD DWG/PO Spec.	APRD DWG/PO Spec.	TC	P	V	V
2.0	Visual Inspection	a) Make	Major	Visual	100%	10%	APRD DWG/PO Spec.	APRD DWG/PO Spec.	-	P	V	V
		b) Sl.no	Major	Visual	100%	10%	APRD DWG/PO Spec.	APRD DWG/PO Spec.	-	P	V	V
		c) Verification of cable glands	Major	Visual	100%	10%	APRD DWG/PO Spec.	APRD DWG/PO Spec.	-	P	V	V
3.0	Dimensional check Including Thermo well	a) Dimensional	Major	Visual	100%	10%	APRD DWG/PO Spec.	APRD DWG/PO Spec.	IR	P	W	V
4.0	Functional Check	a) Hydraulic Test	Major	Measure ment	100%	10%	APRD DWG/Drawing.	APRD DWG/Drawing.	IR	P	W	V
		b) Over temperature	Major	Measure ment	100%	10%	APRD DWG/Drawing.	APRD DWG/Drawing.	IR	P	W	V
		c) Low temperature test	Major	Measure ment	100%	10%	APRD DWG/Drawing.	APRD DWG/Drawing.	IR	P	W	V
		d) Calibration & Accuracy Test	Major	Measure ment	100%	10%	APRD DWG/Drawing.	APRD DWG/Drawing.	IR	P	W	V
		a) IR test before and after HV test	Major	Visual	100%	10%	PO Spec.	IR>10 0Mega Ohms	IR	P	W	V
		b) HV test	Major	Elect.	100%	10%	PO Spec.	HV 1.5 KV per 1 min	IR	P	W	V
5.0	Type test reports	a) Over load test	Major	Mech	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
		b) Moisture resistance test	Major	Elect.	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
		c) Resistance to Rusting	Major	Mech	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
		d) Vibration test	Major	Mech	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
		e) Endurance test Thermal & mechanical	Major	Mech	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
6.0	Painting & Packaging	f) Degree of Protection(IP 55)	Major	Measure Visual	Sample	Sample	PO Spec.	PO Spec.	TC/TR	P	V	V
		Visual	Major		100%	100%	APRD DWG/PO Spec.	APRD DWG/PO Spec.	IR	P	W	V
												5 years valid test report from date of enquiry to be submitted for review

LEGEND: * RECORDS IDENTIFIED WITH "TICK" SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN OA DOCUMENTATION

RECORDS IDENTIFIED WITH TICK SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION.

*** M: MANUFACTURER / SUB-SUPPLIER. C: SUPPLIER/NAMINATED INSPECTION AGENCY. B=BHEL/BHEL AIA. P: PERFORM. W: WITNESS AND V: VERIFICATION

APRD DWG – APPROVED DATA SHEET, SPEC. – NTPC SPECIFICATION, TC – TEST CERTIFICATE, COC – CERTIFICATE OF COMPLIANCE
CC – CALIBRATION CERTIFICATE, PO Spec. – Purchase Order Specification. IR = Internal Inspection Reports