		BIHAR STATE POWE										
<u></u>	Customer : BSPTCL	NG QUALITY PLAN L.T F	ANELS, DIST. BOAF	Item: L.T PANELS, DIST. BOARDS/BOXES	M.Q.P No.: 026 Rev.No.: 00	Valid From: ' Valid Upto: no. 1 of	15.01.2016 Till Revision Pag					
Code 1	Indicates place where testing is planned to be performed I.e. Inspection At Equipment Manufacturer's works At Component Manufacturer's works At Authorised Distributor's place At Independent Lab At Turn Key Contractor's location Not specified	location	Code 2 J K L M	Indicates who has to perfe The Equipment Manufact The Component Manufac The Third Party The Trunkey Contractor		lency						
Code 3 P Q R S T U V	Indicates who shall witness the tests I.e. Witnessign Agency Component Manufacturer itself Component Manufacturer and Equipment Manufacturer Component Manufacturer, Equipment Manufacturer and Contractor Equiment Manufacturer itself Equipment Manufacturer and contractor Equipment Maufacturer, Contractor and BSPTCL Third Party itself		Code 4 W X Y Z	By BSPTCL during produc								
Code 5 E N	Whether specific approval of sub-vendor / component make is envisage Envisaged Not Envisaged	ed?	Code 6 Y N	Whether test records require Yes No	d tobe submitted after final insp	peciotn for isssuance of	CIP/MICC					
Notes: 1 2 3	The MQP should be read in conjuction with BSPTCL specification and s BSPTCL specification shall include provisions of letter of Award, BSPTC In case of any contradiction between the Manufacturer's plant standards a) BSPTCL Specification b) This Manufacturing Quality Plan c) Manufacturer's plant standards It is the responsibility of the manufacturer to ensure that this document is	CL approved drawings/technica s, this MQP and BSPTCL spec	I data sheet/BOM/test s	schedule/test procedure applica dence shall be followed :-	·							
5 6	The manufacturer shall ensure that their as well as their sub vendors co should be available during inspection by BSPTCL. All testing instrument In case of any tests being carried out at third party lab, such lab / facility	is will be calibrated by NABL a	ccredited laboratories.	d and should have calibration of	certificates traceable to India	an/International Stand	lards. Calibration record					
7	Witnessing of Acceptance Tests by BSPTCL shall be on 25% of the nui inspection selective from each category like Bus-bar, Line Protn, Contro	mber of samples for acceptance	e test. The Contractor of			I number of equipmen	t/items being offered fo					
8	The manufacturer shall maintain the proper co-relation of test certificate											

MANUFACTURING QUALITY PLAN -- L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS

	Adronate Goalin Flan En Fanelo, Di	STI BOARDO/BOXEO, I OO,MOO , AOALEEART I AREED	
Customer : BSPTCL	Vendor's Code:	Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC, AUXILLARY PANELS	Valid From: 15.01.2016 Valid Upto: Till Revision Page no. 1 of

- 9 Manufacturer shall show the approval of BSPTCL engineering for all contract specific type tests, including specific type tests if any as per the BSPTCL specification, at the time of final inspection.
- 10 All packing cases should be marked with BSPTCL LOA Detail, Name of project, Item description and despatch clearance/instructions number (by which material has been cleared for dispatch).
- 11 One copy of test report, despatch clearance/instructions shall also be sent along with consignment.
- 12 Inspection of spare items ordered by BSPTCL shall also be governed by the provisions of this MQP. Items if not governed under MQP shall be offered for inspection as per BSPTCL specifications / Relevant Indian / International Specification .
- 13 Any material rejected during BSPTCL inspection shall be disposed off with the approval of BSPTCL. For destructive disposal BSPTCL may depute its representative for witnessing. In case the material is to be returned to subvendor, all such items shall be indelibly marked ( to prevent mixing ) at the works of the manufacturer and offered to BSPTCL inspector for verification of marking.
- 14 The manufacturer shall align their quality system and that of their sub-vendors to the requirements of latest ISO 9000 quality standards in a time bound manner.
- 15 The list of component manufacturers for which sub-vendor approval are enivsaged herewith.
- 16 BSPTCL may review the effective implementation of the processes during the product-inspection / process -inspection. In case any violation in process or process parameters are observed, the reason along with corrective & preventive measures shall be conveyed to BSPTCL within 2 weeks.
- 17 The out-sourced activity shown in the process flow diagram shall also be in the ambit of process-inspection by BSPTCL
- 18 Any addition / change in new vendor / design / process shall call for review by BSPTCL and change in MQP, if necessary.
- 19 Welding qualification of vendors to be checked periodically during inspection.

EM: Equipment Manufacturer

CM: Component Manufacturer

TC: Test Certificates

			Е	HAR STATE POW	ER TRANSMISSION	COMPANY LIMIT	ГED						
V			MANUFACTURIN	G QUALITY PLAN L.T	PANELS, DIST. BOARD	S/BOXES, PCC,MCC , A	UXILL	.ARY	PANE	LS			
	-	Customer : BSPTCL		Vendor's Code:		litem: LT PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 02 00 01.20			Vali	d From: 15.01.2016 d Upto: Till Revision Page 1 of
SR. NO.	Components/Operations & Description of Test	Type of Check	Quantum of Check / Sampling with basis	Reference Document for Testing	Acceptance Norms	Format of Records				cable (			Remark
-	·		eampling min bable	ler reening			1	2	3	4	5	6	
	IATERIAL INSPECTION					F							
	1.Check current rating & Voltage	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	СМТС	В	К	Р	W/Z		N	
	2. Mech. Operation	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	CMTC	В	К	Р	W/Z		N	Review of CMTC/EMTC during BSPTCL inspection.
	3.H.V. Main & Aux.Ckt.	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros /Data sheet	CMTC	В	К	Р	W/Z		N	
	4. M.V. Drop test at 100A DCACB Rating up to 4000A	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	CMTC	В	К	Р	W/Z		N	
	5.Interchangability	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd.	CMTC	В	к	Р	W/Z		N	
	6. Slow Closing	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	Dros./Data sheet IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	CMTC	В	к	Р	W/Z		N	
	7. Antipumping/ Trip free feature	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	СМТС	В	к	Р	W/Z		N	
	8. Interlock closing & tripping	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	CMTC	В	к	Р	W/Z		N	
	9. Closing &Triping time	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros./Data sheet	CMTC	В	к	Р	W/Z		N	
	10. Calibration of releases	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -2 / Mfr's Catalogue/BSPTCL Specen./Approd. Drgs./Data sheet	CMTC	В	к	P	W/Z		N	

0				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMIT	ED						
				NG QUALITY PLAN L.T				.ARY	PANE	LS			
	L	Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 02 00 01.20			Vali	d From: 15.01.2016 d Upto: Till Revision Page 1 of
1.2 AIR BRI	EAK SWITCH FUSES/ SWITCHES	i				E	1						
	1.Check current rating & Voltage	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS13947 Part -3 / (Power Grid Specn./ Mfr's Catalogue / Appd. Drg.	CMTC	В	к	Р	W		N	
	2. M.V. Drop	Electrical	100%	BSPTCL Specn / Approd. Drg.	IS13947 Part -3 / (Power Grid Specn./ Mfr's Catalogue / Appd. Drg.	CMTC	В	К	Р	W		N	
	3. Operational check	Electrical	100%	BSPTCL Specn / Approd. Drg.	IS13947 Part -3 / (Power Grid Specn./ Mfr's Catalogue / Appd. Drg.	CMTC	В	к	Р	W		N	
1.3 FUSES						E							•
	1.Check current rating & voltage	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13703/Part -1&2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros /Data sheet	СМТС	В	К	Р	W		N	
	2.Mounting Details	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order/ Mfrs, Catalogue.	IS 13703/Part -1&2 / Mfr's Catalogue/BSPTCL Specen./Approd. Drgs./Data sheet	СМТС	В	к	Р	W		N	Review of CMTC/EMTC during BSPTCL inspection.
	3.Continuiety	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13703/Part -1&2 / Mfr's Catalogue/BSPTCL Specen./Approd. Dros /Data sheet	СМТС	В	К	Р	W		N	
	EAK CONTACTORS					E					-		-
	1. Voltage/Current rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -4 / Mfr's Catalogue/BSPTCL Specen.	CMTC	В	к	Ρ	W		N	
	2. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -4 / Mfr's Catalogue/BSPTCL Specen.	CMTC	В	к	Ρ	W		Ν	
	3. I.R. Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -4 / Mfr's Catalogue/BSPTCL Specen.	CMTC	В	к	Р	W		N	
	4. Operation Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -4 / Mfr's Catalogue/BSPTCL Specen.	СМТС	В	к	Р	W		N	

				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMI	ГED						
V			MANUFACTUR	RING QUALITY PLAN L.1	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS			
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	No.:			Ň	Vali	d From: 15.01.2016 d Upto: Till Revision Page 1 of
1.5 AIR BR	EAK AUX. CONTACTORS 1. Voltage/Current rating	Visual	100%	BSPTCL Specn/Approd.	IS 13947/Part -5/ Mfr's	E CMTC	В	к	Р	W/Z		N	
	······································			Drg./ Purchase Order	Catalogue/BSPTCL								
	2. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	Specen. IS 13947/Part -5/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W/Z		Ν	
	3. I.R. Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -5/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W/Z		N	
	4. Operation Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -5/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W/Z		N	
.6 OVERL	OAD RELAY WITH SINGLE PHA	SING PREVENTO	R FACILITY			E							
	1. Range	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -4/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	к	Р	W/Z		N	
7 TIMER	S 1. Voltage/Current rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 13947/Part -5 / Mfr's Catalogue/BSPTCL	E CMTC	В	К	Р	W		N	Review of CMTC/EMTC during BSPTCL inspection.
	2. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	Specen. IS 13947/Part -5 / Mfr's Catalogue/BSPTCL	CMTC	В	К	Р	W		N	
	3. I.R. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	Specen. IS 13947/Part -5 / Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W		N	
	4 Functional Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -5/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W		N	
	5.Time range, Pick-up & Time range up Drop-off	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947/Part -5/ Mfr's Catalogue/BSPTCL Specen.	CMTC	В	К	Р	W		N	
8 CURRE			1000/			E				14/17			
	1. Terminal Marking & Polarity	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 2705/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	к	P	W/Z		N	
	2. H. V Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 2705/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		Ν	
	3. Functional Test/Ratio test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 2705/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		N	
	4. Routine Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 2705/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		N	
9 POTEN	TIAL TRANSFORMER					E							
	1. Terminal Marking & Polarity	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 3156/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		N	
	2. H. V Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 3156/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		Ν	
	3. Functional Test/Ratio test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 3156/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	к	Р	W/Z		N	
	4. Routine Test	Electical	100%	BSPTCL Specn/Approd. Drg.	IS 3156/ Part-1 to 4/BSPTCL specn./Approd. Drg.	CMTC	В	К	Р	W/Z		Ν	

			MANUFACTURI	NG QUALITY PLAN L.1	PANELS, DIST. BOARDS	B/BOXES, PCC,MCC , A	UXILL	ARY	PANE	LS			
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev.	No.:	o.: 02 00 01.20			Vali	d From: 15.01.2016 d Upto: Till Revision Page 1 of
1.10 INDIC/	ATING INSTRUMENTS AMMETE	RS. VOI TMETER	R. KW. KWH. PF. FR			E							
	1. Visual Check	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 1248/ Part-1 to 4/IS 722/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	Review of CMTC/EMTC during BSPTCL inspection.
	2. Voltage and Current Range	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 1248/ Part-1 to 4/IS 722/BSPTCL Approd. Drg./Specn./Mfr's catalogue	СМТС	В	К	Р	W		N	
	3. Connection Arrangement	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
	4. Dimensions	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
	5. Functional Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
	6. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
	7. I.R. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
	8. Routine / Calibration Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Mfrs Catalogue.	IS 1248/BSPTCL Approd. Drg./Specn./Mfr's catalogue	CMTC	В	К	Р	W		N	
1.11 ENE	RGY METER (IF APPLICABLE),	3 PH. 3 WIRE OR	3 PH. 4 WIRE			E							
	Visual check	Visual	100%	As per Appro. Dwg	As per Appro. Dwg	CMTC	В	К	Р	W/Z		Ν	
	Functional check	Electrical	100%	As per P.O	IS 1248	CMTC	В	К	Ρ	W/Z		Ν	
	Calibration	Electrical	100%	As per supplier TC	IS 1248	CMTC	В	К	Ρ	W/Z		Ν	
	High voltage test in control and relay panel assembly	Electrical	100%	As per MS Plant Std.	IS 1248	CMTC	В	К	Р	W/Z		N	
1.12 CHAR	T RECORDER (IF APPLICABLE)					E							•
	Visual Inspection	Visual	100%	As per Dwg.	As per Appro. Dwg	СМТС	В	К	Ρ	W/Z		Ν	
	Check for healthinessZ	Electrical	100%	As per Dwg.	As per Appro. Dwg	CMTC	В	К	Ρ	W/Z		N	
1.13 RELA						E							
	<ol> <li>Current / Voltage setting range</li> </ol>	Visually	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 3231/ BSPTCL specn.	CMTC	В	К	Ρ	W/Z		N	Review of CMTC/EMTC during BSPTCL inspection.
	2. Operation test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 3231/ BSPTCL specn.	CMTC	В	К	Ρ	W/Z		N	
	3. I.R. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 3231/ BSPTCL specn.	CMTC	В	К	Р	W/Z		Ν	
	4. H.V. Test	Electrical	100%	BSPTCL Specn/Approd.	IS 3231/ BSPTCL specn.	CMTC	В	К	Р	W/Z		Ν	
	5. Operational Test	Electrical	100%	Drg./ Purchase Order BSPTCL Specn/Approd. Drg./ Purchase Order	IS 3231/ BSPTCL specn.	CMTC	в	К	Р	W/Z		N	
	6. Routine Test	Electrical	100%	BSPTCL Specn/Approd.	IS 3231/ BSPTCL specn.	CMTC	В	Κ	Р	W/Z	1	N	

BIHAR STATE POWER TRANSMISSION COMPANY LIMITED MANUFACTURING QUALITY PLAN -- L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC, AUXILLARY PANELS Customer : Vendor's Code: Item: M.Q.P No.: 026 Valid From: 15.01.2016 L.T PANELS, DIST. BSPTCL Rev.No.: 00 Valid Upto: Till Revision Page BOARDS/BOXES, Date: 04.01.2016 no. 1 of PCC.MCC . AUXILLARY PANELS 1.14 CURRENT OPERATED RELAY BSPTCL Specn/ CMTC IS 3231 / IEC 255 Continuity Check Electrical 100% В Κ Р W Υ Approd. Dra. BSPTCL Specn/ 100% IS 3231 / IEC 255 CMTC High voltage test in Panel Assly. Electrical В к Р W Υ Approd. Dra. 100% BSPTCL Specn/ IS 3231 / IEC 255 CMTC Ρ Visual check Visual В κ W Υ pprod. Drg/As per P.O. 1.15 VOLTAGE OPERATED RELAY Check for healtiness Visuallv 100% BSPTCL Specn/ IS 3231 / IEC 255 CMTC В Κ Р W Υ Approd. Drg. BSPTCL Specn/ IS 3231 / IEC 255 CMTC High voltage test in Panel Assly. Electrical 100% в Κ Р W Υ Approd. Dra. CMTC 100% IS 3231 / IEC 255 Visual check Visual BSPTCL Specn/ В Κ Р W Υ Approd. Drg/As per P.O. 1.16 TRIP CIRCUIT SUPERVISION RELAY Functional check Electrical 100% BSPTCL Specn/ IS 3231 / IEC 255 CMTC В Κ Р W Υ Approd. Dra. CMTC Indication check Electrical 100% BSPTCL Specn/ IS 3231 / IEC 255 В Κ Ρ W Υ Approd. Dra. IS 3231 / IEC 255 CMTC HV test for 2 kV for 1 min. in Electrical 100% BSPTCL Specn/ В Κ Р W Υ pprod. Dra/As per P.O. oanel asslv CMTC Routine Test Electrical 100% BSPTCL Specn/ IS 3231 / IEC 255 В Κ Ρ W Υ Approd. Dra/As per P.O. 1.17 INDICATING LAMPS Ε 1. Visual Check including voltage BSPTCL Specn/Approd. IS 4795/BSPTCL Approd. CMTC N Review of CMTC/EMTC during Visual 100% В Κ Ρ W Drg./ Purchase Order **SPTCL** inspection. rating Dra IS 4795/BSPTCL Approd. CMTC 2. Dimensions Mechanical 10% BSPTCL Specn/Approd. В Κ Ρ W Ν Drg./ Mfrs Catalogue. Dra. 3. Operations Electrical 100% BSPTCL Specn/Approd. IS 4795/BSPTCL Approd. CMTC В Κ Ρ W Ν Drg./ Purchase Order Dra. IS 3231 / IEC 255 H.V. Test Electrical 100% BSPTCL Specn/ CMTC В Р W Ν Κ Approd. Dra/As per P.O. 1.18 PUSH BUTTONS Е 1. Voltage & Current Rating 100% BSPTCL Specn/Approd. IS 6875/BSPTCL CMTC Visual В Κ Ρ W Ν Drg./ Purchase Order Specn/Approd. Drg. BSPTCL Specn/Approd. IS 6875/BSPTCL 2. Connection Arrangements Visual 100% CMTC Ν в Κ Р W Drg./ Mfrs Catalogue. Specn/Approd. Drg. Mechanical 10% BSPTCL Specn/Approd. IS 6875/BSPTCL CMTC 3. Dimensions в Ν ĸ Р W Drg./ Mfrs Catalogue. Specn/Approd. Drg. 100% BSPTCL Specn/Approd. IS 6875/BSPTCL CMTC Р 4. Operations Electrical В Κ W Ν Drg./ Mfrs Catalogue. Specn/Approd. Drg. 1.19 SPACE HEATER Е visual check including voltage/ 100% BSPTCL Specn/Approd. BSPTCL Specn/Approd. CMTC Р Visual В Κ W Ν Wattage rating Drg./ Purchase Order Drg. BSPTCL Specn/Approd. BSPTCL Specn/Approd. 2. Power Consumption 100% CMTC Electrical В Κ Р W Ν

Drg.

Drg./ Mfrs Catalogue.

				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMIT	ED					
C C			MANUFACTUR	ING QUALITY PLAN L.T	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS		
		Customer : BSPTCL		Vendor's Code:		litem: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 02 00 01.20			d From: 15.01.2016 d Upto: Till Revision Page 1 of
1.20 THER	MOSTAT					E						
	1. Rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	BSPTCL Specn/Approd. Drg.	СМТС	В	К	Ρ	W	Ν	
	2. Functional test	Electrical	100%	BSPTCL Specn/Approd. Drg.	BSPTCL Specn/Approd. Drg.	СМТС	В	к	Р	W	N	
1.21. PLUC	SOCKET AND SWITCH					E						
	Visual check	Visual	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per P.O	CMTC	В	К	Р	W	N	Review of CMTC/EMTC during BSPTCL inspection.
	HV Test in Control Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg.	As per Dwg.	CMTC	В	К	Р	W	N	
	IR value in Control Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg.	As per Dwg.	CMTC	В	К	Р	W	N	
1.22 HOO	TERS					E						
	1. Dimensions	Mechanical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order / mfrs. Catalogue	BSPTCL Specn/Approd. Drg.	СМТС	В	К	Р	W	Ν	
	2. Rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	BSPTCL Specn/Approd. Drg.	СМТС	В	к	Р	W	N	
	3.Functional test	Electrical	100%	BSPTCL Specn/Approd. Drg.	BSPTCL Specn/Approd. Drg.	CMTC	В	к	Р	W	N	
1.23 CONT	ROL / SELECTOR SWITCHES	1				E						
	1. Voltage rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 6875/IS13947/ Part- 5/PGCIL Specn/Approd. Drg.	CMTC	В	К	Ρ	W	N	
	2. Contact arrangement	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order / mfrs. Catalogue	IS 6875/IS13947/ Part- 5/PGCIL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	
	3. Functional Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 6875/IS13947/ Part- 5/PGCIL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	
1.24 TERM	INAL BLOCKS					E						
1	HV & IR test	Electrical	100%	BSPTCL Specn/Approd.	IEC 60947-7-1	CMTC	В	К	Р	W	N	
	1. Visual check including Type	visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	

				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMI	ГED					
			MANUFACTUR	NG QUALITY PLAN L.T	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS		
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 02 00 .01.20			d From: 15.01.2016 d Upto: Till Revision Page 1 of
1.25 MOU	ILDED CASE CIRCUIT BREAKE	R				E						
	1. Dimensions	Mechanical	2 nos. / Lot	BSPTCL Specn/Approd. Drg./ Purchase Order / mfrs. Catalogue	IS 13947 Part -2 /BSPTCL Specn/ Mfr's cat		В	К	Ρ	W	N	Review of CMTC/EMTC during BSPTCL inspection.
	2. Voltage / Current Rating	Visual	100%	BSPTCL Specn/Approd. Drg.	IS 13947 Part -2 /BSPTCL Specn/ Mfr's cat	CMTC	В	К	Р	w	N	
	3. Functional Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 13947 Part -2 /BSPTCL Specn/ Mfr's cat	CMTC	В	К	Р	W	N	
1.26 MINIA	TURE CIRCUIT BREAKER			•		E						<b>.</b>
	1 . Voltage / Current Rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 8828 /BSPTCL Specn/ Mfr's cat	CMTC	В	К	Р	W	N	
	2. Functional Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 8828 /BSPTCL Specn/ Mfr's cat	CMTC	В	К	Р	W	N	
1.27 ANNU	INCIATOR					E						1
	1. Dimensions	Mechanical	2 nos. / Lot	BSPTCL Specn/Approd. Drg./ Purchase Order / mfrs. Catalogue	BSPTCL Specn/ Mfr's cat/ Apprd. Drg.	CMTC	В	K	Р	W	N	
	2. Rating	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	BSPTCL Specn/ Mfr's cat/ Apprd. Drg.	CMTC	В	К	P	W	N	
	3. Functional Test	Electrical	100%	BSPTCL Specn/ Mfr's cat/ Apprd. Drg.	BSPTCL Specn/ Mfr's cat/ Apprd. Drg.	CMTC	В	К	Р	W	N	
1.28 CONT	ROL TRANSFORMER				-	E						
	1. Rating	visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 12021/BSPTCL Specn/Approd. Drg.	СМТС	В	к	Ρ	W	N	
	2. Output	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 12021/BSPTCL Specn/Approd. Drg.	СМТС	В	К	Р	w	N	
	3. I.R.Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 12021/BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	
	4. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 12021/BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	

				BIHAR STATE POW	ER TRANSMISSION	N COMPANY LIMIT	ΓED					
V			MANUFACTUR	ING QUALITY PLAN L.T	PANELS, DIST. BOARD	S/BOXES, PCC,MCC , A	UXILL	.ARY	PANE	LS		
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	No.:	o.: 02 00 .01.20		Vali	id From: 15.01.2016 id Upto: Till Revision Page 1 of
	5. Routine Test	Electrical	100%	BSPTCL Specn/Approd. Drg.	IS 12021/BSPTCL Specn/Approd. Drg.	СМТС	В	К	P	W	N	
1.29 TRAN	SDUCERS (IF APPLICABLE)				•	E						
a.	Visual check (Range)	Visual	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Apprd. Drg	CMTC	В	К	Ρ	W/Z	N	Review of CMTC/EMTC during BSPTCL inspection.
C.	HV Test in Control Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Apprd. Drg	CMTC	В	К	Ρ	W/Z	N	
d.	Operational Test in Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Apprd. Drg	CMTC	В	К	Ρ	W/Z	N	
<b>1.30. MIMI</b> a.	Visual check for color &	Visual	100%	BSPTCL Specn/	As per Dwg.	N CMTC	В	К	P	W	N	
b.	symbol Dimensional check	Mechanical	100%	Approd. Drg./ As per P.O BSPTCL Specn/ Approd. Drg./ As per P.O	As per Dwg.	СМТС	В	к	Р	w	N	
				Appledi Bigi Acipel i ie								
1.31 SEMA			1000/			E CMTC			Р			I
a.	Visual check / type and rating check	Visual	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Dwg.		В	К	Р	W	N	
b.	Functional Test in Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg.	As per Dwg.	CMTC	В	К	Ρ	W	N	
C.	High voltage test in Panel Assly.	Electrical	100%	BSPTCL Specn/ Approd. Drg.	As per Dwg.	CMTC	В	К	Р	W	N	
1.32 HARI	DWARES	1				E				1		
	1. Visual check	visual	10%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 1364/ IS 1367/ IS 2016/ IS2389/BSPTCL Specn.	CMTC	В	К	Ρ	W	N	
	2. Size	visual	10%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 1364 / BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W	N	
	3. Plating	Visual	10%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 1364 / BSPTCL Specn.	CMTC	В	к	Ρ	W	N	

				BIHAR STATE POW	'ER TRANSMISSION	COMPANY LIMIT	TED						
V			MANUFACTUR	RING QUALITY PLAN L.1	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS			
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev.	No.:	0.: 020 00 01.20		Ň	Valio	d From: 15.01.2016 d Upto: Till Revision Page 1 of
33 SHEE	T STEEL (CRCA / HRCA), ANG 1. Dimensional confirmity		5 ETC. 10%	BSPTCL	IS 513 (CRCA),	E CMTC		14	Р	14/7		N1	Review of CMTC/EMTC during
	incl. Thickness	Mechanical	10%	Specn/Apprd.Drg./As per PO	IS 1079 (HRCA) / BSPTCL Specn/Apprd.Drg.	CMIC	В	К		W/Z		N	BSPTCL inspection.
	2.Surface Finish and visual check	Visual	100%	BSPTCL Specn/Apprd.Drg.	IS 513 (CRCA), IS 1079 (HRCA) / BSPTCL Specn/Apprd.Drg.	СМТС	В	к	Р	W/Z		N	
	3.Chemical Composition	Chemical	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	IS 513 (CRCA), IS 1079 (HRCA) / BSPTCL Specn/Apprd.Drg.	CMTC	В	К	Р	W/Z		N	
	4. Mechanical / Physical Properties	Visual	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	IS 513 (CRCA), IS 1079 (HRCA) / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	P	W/Z		N	
34 Allu	minium Sheet												
<u>ot Allu</u>	1. Dimensional confirmity incl. Thickness	Mechanical	10%	BSPTCL Specn/Apprd.Drg./As per PO	IS 737 / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	Р	W/Z			Review of CMTC/EMTC during BSPTCL inspection.
	2.Surface Finish and visual check	Visual	100%	BSPTCL Specn/Apprd.Drg.	IS 737 / BSPTCL Specn/Apprd.Drg.	СМТС	В	к	P	W/Z		N	
	3.Chemical Composition	Chemical	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	IS 737 / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	Р	W/Z		N	
	4. Mechanical /`Physical Properties	Visual	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	IS 737 / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	Р	W/Z		N	
05 01-1													
<u>.55 Stan</u>	nless Steel Sheet 1. Dimensional confirmity incl. Thickness	Mechanical	10%	BSPTCL Specn/Apprd.Drg./As per PO	ASTM A240/A240M-11b & ASME SA240/SA240M-11a / BSPTCL Specn/Apprd.Drg.	CMTC	В	к	Р	W/Z		N	Review of CMTC/EMTC during BSPTCL inspection.
	2.Surface Finish and visual check	Visual	100%	BSPTCL Specn/Apprd.Drg.	ASTM A240/A240M-11b & ASME SA240/SA240M-11a / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	P	W/Z		N	
	3.Chemical Composition	Chemical	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	ASTM A240/A240M-11b & ASME SA240/SA240M-11a / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	Р	W/Z		N	
	4. Mechanical /`Physical Properties	Visual	1No/ lot	BSPTCL Specn/Approd. Drg./As per PO	ASTM A240/A240M-11b & ASME SA240/SA240M-11a / BSPTCL Specn/Apprd.Drg.	СМТС	В	К	P	W/Z		N	

	BIHAR STATE POWER TRANSMISSION COMPANY LIMITED												
C C C C C C C C C C C C C C C C C C C			MANUFACTUR	RING QUALITY PLAN L.T	PANELS, DIST. BOARD	S/BOXES, PCC,MCC , A	UXILL	.ARY	PANE	LS			
	L	Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 02 00 .01.20		1		l From: 15.01.2016 I Upto: Till Revision Page 1 of
136 ALLI	IMINIUM BUSBARS					E							
	1. Dimensions	Mechanical	100%	BSPTCL Specn/Apprd.Drg./As per PO	IS 5082/BSPTCL Specn/Approd. Drg.	СМТС	В	К	Ρ	W/Z		N	
	2. Surfce Finish	Visual	100%	BSPTCL Specn/Apprd.Drg.	IS 5082/BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W/Z		N	
	3. Chemical Composition	Chemical	1No/ lot	BSPTCL Specn/Apprd.Drg.	IS 5082/BSPTCL Specn/Approd. Drg.	CMTC	В	к	Р	W/Z		N	
	4. Physical Properties Test	Mechanical	1No/ lot	BSPTCL Specn/Apprd.Drg.	IS 5082/BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W/Z		N	
1.37 COPF	PER BUSBARS	· · ·				E							
	1. Dimensions	Mechanical	100%	BSPTCL Specn/Apprd.Drg./As per PO	IS 613:2006/IS 1897 / BSPTCL Specn/Approd. Drg.	CMTC	В	К	Р	W/Z		N	
	2. Surfce Finish	Visual	100%	BSPTCL Specn/Apprd.Drg.	IS 613:2006/IS 1897 / BSPTCL Specn/Approd. Drg.	СМТС	В	К	Ρ	W/Z		N	
	3. Chemical Composition	Chemical	1No/ lot	BSPTCL Specn/Apprd.Drg.	IS 613:2006/IS 1897 / BSPTCL Specn/Approd. Drg.	CMTC	В	К	Ρ	W/Z		N	
	4. Physical Properties Test	Mechanical	1No/ lot	BSPTCL Specn/Apprd.Drg.	IS 613:2006/IS 1897 / BSPTCL Specn/Approd. Drg.	CMTC	В	К	Ρ	W/Z		N	
1.38. FAR	RTH BUSBARS					N							
	Dimensional	Mechanical	1/ Lot	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Apprd. Dwg.	СМТС	В	К	Ρ	w			Review of CMTC/EMTC during BSPTCL inspection.
	Visual check	Visual	100%	BSPTCL Specn/ Approd. Drg./ As per P.O	As per Apprd. Dwg.	СМТС	В	К	Ρ	w		N	
						_					1		
1.39 INSU	LATOR FOR BUSBARS (SHEE 1. Dimensions	T MOULDED COMP Mechanical	2000 / DOUGH N 100%	BSPTCL	IS 2824/BS 2782/ BS	E CMTC	В	К	Р	W		N	
		weendnica	100%	Specn/Apprd.Drg./As per PO	3840/BSPTCL Specn/Approd. Drg./ Mfr's cat	GMIC	D	ĸ	F	vv		IN	
	2. Surface Finish	Visual	100%	BSPTCL Specn/Apprd.Drg.	IS 2824/BS 2782/ BS 3840/BSPTCL Specn/Approd. Drg./	СМТС	В	К	Ρ	W		N	
	3. Chemical Composition	Chemical	100%	BSPTCL Specn/Apprd.Drg.	Mfr's cat IS 2824/BS 2782/ BS 3840/BSPTCL Specn/Approd. Drg./	СМТС	В	К	Ρ	W		N	
	4. Physical Properties Test	Mechanical	100%	BSPTCL Specn/Apprd.Drg.	Mfr's cat IS 2824/BS 2782/ BS 3840/BSPTCL Specn/Approd. Drg./ Mfr's cat	CMTC	В	К	Ρ	w		N	

6

			MANUFACTURI	NG QUALITY PLAN L.T	PANELS, DIST. BOARD	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS		
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC, AUXILLARY PANELS	Rev.	No.:	o.: 02 00 01.20		Vali	d From: 15.01.2016 d Upto: Till Revision Page 1 of
1 40 RUBB	ER GASKET	1				E						
	1. Dimensions & Visual check	Mechanical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 BSPTCL Specn/Approd.	CMTC	В	К	Р	W	N	
	2. Hardness Before Ageing	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	Drg./Mfr's cat. IS:11149 / IS:3400 BSPTCL Specn/Approd.	CMTC	В	к	Р	W	N	
	3. Tensile Strength Before Ageiing	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	Drg./Mfr's cat. IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W	N	
	4.Elongation at Breaking point Before Ageing.	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W	N	Review of CMTC/EMTC during BSPTCL inspection.
	5. Change in Hardness After Ageing	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W	N	
	6. change in Tensile Strength After Ageiing	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg /Mfr's cat	CMTC	В	К	Р	W	N	
	7 Change in Elongation at Breaking point After Ageing.	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	к	Р	W	N	
	8. Copmpression Set	Mechanical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	IS:11149 / IS:3400 BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	к	Р	W	N	
	9. Polymer Inentification Test	Chemical	1 Sample / Lot	BSPTCL Specn/Approd. Drg./Mfr's cat.	BS 4181 / equv. BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W	N	
1 41 POW	DER (For coating)					N						
	1.Powder Shade	Visually	1 x Drum per batch %	As per P.O	IS 5 / RAL	CMTC	В	К	Р	W	Ν	
	2.Powder type	Visually	100%	As per Manufacturer's TC	IS 5 / RAL	CMTC	В	К	Ρ	W	Ν	
	3.All Routine Test	Chemical	100%	As per Manufacturer's TC	IS 5 / Apprd. Drg/Power Grid specn.	CMTC	В	К	Р	W	N	
1.42. NAME				-		N					-	-
	Dimentional check	Mechanical	1/ Lot	As per P.O	As per Appro. Dwa.	CMTC	В	К	Р	W	N	
	Visual check	Visual	100%	As per Appro. Dwg.	Waviness Free Surface Finish	CMTC	В	к	Ρ	W	Ν	

				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMIT	ED								
V			MANUFACTUR	NG QUALITY PLAN L.T	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY	PANE	LS					
		Customer : BSPTCL		Vendor's Code:		litem: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	Rev.No.: 00 Va				Valid From: 15.01.2016 Valid Upto: Till Revision Page no. 1 of			
1.43 PVC	INSULATED CABLES / WIRES Conductors					E	В	К	Р	W	r	Ν	1		
							D	ĸ		**		i n			
	Diameter check	Mechanical	5 / Lot	As per P.O	IS 694	CMTC	В	К	Ρ	W		Ν			
	High voltage test at 2.5kV for 1 min.	Electrical	100%	As per Appro. Dwg.	IS 694	CMTC	В	К	Р	W		N	Review of CMTC/EMTC during BSPTCL inspection.		
	Visual check	Visual	100%	As per P.O	IS 694	CMTC	В	К	Р	W		Ν			
	Check for Thickness of Insulation & Over all Dimensions	Mechanical	5 / Lot	As per P.O/Supplier Specn.	IS 694	CMTC	В	К	Ρ	W		Ν			
	Flamability Test( When Required)	Visual	1/Lot	As per P.O/Supplier Specn.	IS 694	CMTC	В	к	Р	W		N			
	Water Immersion Test	Electrical	1/Lot	As per P.O/Supplier	IS 694	CMTC	В	К	Р	W		Ν			
1.44 LIGH	I TING TRANSFORMER ( DRY TYP	PE) to be acce	pted after CIP at S	Specn. ub Vendors works		E									
	1. Dimensions	Visual	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg	CMTC/ PGCIL CIP	A	J	U	Y		N			
	2. IR Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	3. H. V Test ( Di electric Test )	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	4. Winding Resistance Test	Electrical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	5. No Load loss & current Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	6. Voltage Ratio Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	7. Induced Overvoltage Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	8.Vector Group Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	9 Short Circuit / Load Losses Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	10. No Inpedence Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	12. Regulation / Efficiency at 100% UPF (%)	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd.	CMTC/ PGCIL CIP	A	J	U	Y		N			
	13. Temp Rise Test	Electical	100%	BSPTCL Specn/Approd. Drg./ Purchase Order	IS 11171/ IS 2026 /BSPTCL specn./Approd. Drg.	CMTC/ PGCIL CIP/ Type Test Report	A	J	U	Y		N			

6

V	MANUFACTURING QUALITY PLAN L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS												
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev				d From: 15.01.2016 d Upto: Till Revision Page 1 of		
1.45 Batter	y Charger			-		E							
	1. Visual check	Visual	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W		Ν	
	2.Insulation Resistance Test.	Electrical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Ρ	W		Ν	Review of CMTC/EMTC during BSPTCL inspection.
	3. H.V. Test	Electrical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat. BSPTCL Specn/Approd.	CMTC	В	К	Р	W		Ν	
	<ol> <li>Voltage Regulation Test</li> <li>Boost)</li> </ol>	Electrical	100%	BSPTCL Specn/Approd. Drg /Mfr's cat	Drg /Mfr's cat	CMTC	В	К	Р	W		Ν	
	<ol> <li>Voltage Regulation Test</li> <li>Trickle / Flot)</li> </ol>	Electrical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Ρ	W		Ν	
	5. Check No load AC Current	Electrical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W		Ν	
	6. Check Full load AC Current	Electrical	100%	BSPTCL Specn/Approd. Drg./Mfr's cat.	BSPTCL Specn/Approd. Drg./Mfr's cat.	CMTC	В	К	Р	W		Ν	
B IN PRO	CESS INSPECTION			Did./Mill 3 Cat.	Did./iiiii 3 cat.								
2.1	FABRICATED CUBICAL / COMP	PONENTS (IN HO	USE FABRICATION	1)		N							
	1. Dimensions	Visually	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	CMTC	A	J	S	W/Z		Ν	
	2. Lifting facility	Visual	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	3. Cable entry	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	4. Straightness	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	5. Waviness	Visual	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	Review of CMTC/EMTC during BSPTCL inspection.
	<ol> <li>Gasket fixing arrangements</li> </ol>	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	7. Deburring	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	8. Welding	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		N	
	9. Removal of \welding stags	Mechanical	100%	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	MS Fab. Drgs / MS QA Manual / BSPTCL apped. Drg./ Specn.	СМТС	A	J	S	W/Z		Ν	

				BIHAR STATE POW	ER TRANSMISSION	COMPANY LIMIT	ED								
)			MANUFACTUR	ING QUALITY PLAN L.1	PANELS, DIST. BOARD	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS					
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	.No.:	o.: 020 00 01.20			Valid From: 15.01.2016 Valid Upto: Till Revision I no. 1 of			
	PRE-TREATMENT / FINAL PAINT A) PRE-TREATMENT FOR CRC			OUSE) for MS (for CRCA/ H	RCA)		Ν								
	1. Hot Degreesing TANK NO. 1 ( Concentration 5% W/V.) 10 to 15 min. Temp of Bath: 65 to 75 deg. C	Chemical	100%	WI:PRD:02 to 04	IS 6005 / BSPTCL specfn./ Apprd. Drg/MS powder coating procedureas per WI - PRD - 02 to 04	MSQC RECORD	A	J	S	W		N			
2	2. Water Rinse TANK NO. 2 & 3	Chemical	100%	do	do	MSQC RECORD	Α	J	S	W		Ν			
;	3. De - Rusting TANK NO. 4 (Concentration 25 % V/V.) 15 to 20 min	Chemical	100%	do	do	MSQC RECORD	A	J	S	W		N			
4	4.Water Rinse TANK NO. 5 & 6	Chemical	100%	do	do	MSQC RECORD	A	J	S	W		N			
	5. Activation TANK NO. 7 (Concentration 0.06 to 0.1% W/V) 45 Sec. to 60 Sec.	Chemical	100%	do	do	MSQC RECORD	A	J	S	W		N			
6	6. Hot Phosphating TANK NO. 8 (Concentration 3% V/V) 10 to 15 min. Temp of Bath: 65 to 70 deg.C	Chemical	100%	do	do	MSQC RECORD	A	J	S	W	N	N			
1	7. Water Rinse TANK NO. 9	Chemical	100%	do	do	MSQC RECORD	А	J	S	W		N			
	8. Hot Pressivation TANK NO.10 (Concentration 1 % V/V) Deeping time 1 to 2 min. Temp of Bath: 60 to 65 deg.C	Chemical	100%	do	do	MSQC RECORD	A	J	S	W		N			
1	B) PRE-TREATMENT FOR ALU	MINIUM SHEET													
	<ol> <li>Degreesing cum Phosphating - (1st Tank) (Concentration 10~12% V/V) Deeping time 5 to 10 min. Temp. of Bath: Ambient.</li> </ol>	Chemical	100%	WI : PRD : 13 & 14	BSPTCL specfn./ Apprd. Drg/MS powder coating procedureas per WI : PRD : 02 to 04	MSQC RECORD	A	J	S	w		N			
2	2. Water Rinse (2nd Tank)	Chemical	100%	do	do	MSQC RECORD	Α	J	S	W		Ν			
	C) PRE-TREATMENT FOR GI &	Hot Dip Galvaniz	ed Sheet									1			
	1. GI Chemical (1st Tank) Deeping time 4 to 6 min.	Chemical	100%	WI : PRD : 11 & 12	BSPTCL specfn./ Apprd. Drg/MS powder coating procedureas per	MSQC RECORD	A	J	S	W		N			
2	2. Water Rinse (2nd Tank)	Chemical	100%	do	do	MSQC RECORD	Α	J	S	W	1	Ν			

	BIHAR STATE POWER TRANSMISSION COMPANY LIMITED													
V			MANUFACTURIN	IG QUALITY PLAN L.T	PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY	PANE	LS				
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	M.Q.P No.: 026 Rev.No.: 00 Date: 04.01.2016				Valid From: 15.01.2016 Valid Upto: Till Revision no. 1 of			
	D) FINAL PAINTING / POWD													
	Powder coating application	Electrostatic	100%	do	do	MSQC RECORD	Α	J	S	W		Ν		
	1. Paint shade	Visually	1 x sample form batch	As per P.O	As per IS 5 / RAL	MSQC RECORD	A	J	S	W		N		
	2. Surface finish	Visually	1 x sample form batch		As per maktel plant std.	MSQC RECORD	A	J	S	W			Review of CMTC/EMTC during BSPTCL inspection.	
	<ol><li>Thickness of coating</li></ol>	Mechanical	2 / Lot	Customer's speciation / Approved Dwg.	IS 13871/ Customer's speciation/ Approved Dwa.	MSQC RECORD	A	J	S	W		N		
	4. Scratch Test	Mechanical	Random quantity depending on Lot		ASTM D 3359 / As per maktel plant std.	MSQC RECORD	A	J	S	W		N		
2.3	BUSBAR MOUNTING	1				N								
-	1. Size of Busbar	Mechanical	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	2. Busbar Finish	Visually	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	3. Color coding	Visually	100%	Customer's speciation / Approved Dwg.	IS 11353 / Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	4. Tightness of joints	Mechanical	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	5. Clearence	Mechanical	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	6. Support arrangement	Mechanical	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	7. Petro-jelly at joint	Visually	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		
	8. Earth Bus	Mechanical	100%	Customer's speciation / Approved Dwg.	IS 375/Fab. Drg/BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W		N		

				BIHAR STATE POW	VER TRANSMISSION	COMPANY LIMIT	TED						
V			MANUFACTUR	ING QUALITY PLAN L.	T PANELS, DIST. BOARDS	BOXES, PCC,MCC , A	UXILL	ARY	PANE	LS			
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	Rev	M.Q.P No.: 026 Rev.No.: 00 Date: 04.01.2016			Valid From: 15.01.2016 Valid Upto: Till Revision F no. 1 of		
C 1NC	PECTION AND TESTING ( BEFOR												
	ROUTINE TEST (L.T., PANEL			)		N							
	1. Check arrangement./ layout of Component	Visually	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	<ol> <li>C.T Mounting/ Arrangement of components.</li> </ol>	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	3. C.T shorting links provision	Visually	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	review of MSQC report during
	4. Wire clamping/ Ferruling	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	BSPTCL inspection.
	5. Termination for power and control cables	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	6. Interconnection between components	Electrical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	7. Lugs Size & Crimping	Visually	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z	N	N	
	8. Busbar tappings	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	9. Earthing of Trolley	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	10.Door earthing (for doors with components)	Electrical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	11. Component Identification	Visually	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	
	12. Wire Sizes	Mechanical	100%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	MSQC RECORD	A	J	S	W/Z		N	

	BIHAR STATE POWER TRANSMISSION COMPANY LIMITED													
V			MANUFACTURIN	IG QUALITY PLAN L.T	PANELS, DIST. BOARDS	B/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS				
		Customer : BSPTCL				Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	M.Q.P No.: 026 Rev.No.: 00 Date: 04.01.2016					Valid From: 15.01.2016 Valid Upto: Till Revision F no. 1 of	<sup>2</sup> age	
D1. F	INAL INSPECTION - L.T. PANE	LS, DISTRIBUTI	ON BOARD ETC.		Ν									
а	Visual check for basic assly.	Visual	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
с	Door Alignment & Gasketing	Visual	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	ЕМТС	A	J	T/U	W/Z		N		
d.	Door Earthing	Visual	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
е.	Visual check for mounting of all equipments and terminal block marking	Visually/ Mechanically	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
f.	Verification of Bill of Material	Visually	100% / 25%	BSPTCL Spec./ Apprd. Drg.	As per Drawing	EMTC	A	J	T/U	W/Z		N		
g	Interchangeability of Modules	Mechanical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	ЕМТС	A	J	T/U	W/Z		N		
h	Completeness of wiring/ completeness of panel	Visually	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
I	Tightness of busbar joints by torque Wrench	Mechanical	At Random assable joint	Hardware         Torque           Size         (Kg Fm)           M6         0.3-0.7           M8         1.25-2.5           M10         2.5-4.0           M12         4.3-7.1		ЕМТС	A	J	T/U	W/Z		N		

0				BIHAR STATE POW	VER TRANSMISSION	COMPANY LIMI	ΓED					
C C			MANUFACTURI	NG QUALITY PLAN L	T PANELS, DIST. BOARDS	S/BOXES, PCC,MCC , A	UXILL	ARY.	PANE	LS		
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS	M.Q.P No.: 026 Rev.No.: 00 Date: 04.01.2016					d From: 15.01.2016 d Upto: Till Revision Page 1 of
j	Terminal arrangement/ spare Terminals , earthing & earth bus dimensions & general appearance	Visually	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	
k	Busbar support & clearance including clearance of drawout modules	Visually	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	
I	Continuity of Ckt.	Electrical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	
m	Operation and scheme test for all Relays, Meters, Annunciations etc	Electrical	100% / 25%	As per Dwg.	As per Dwg. / IS 8623	EMTC	A	J	T/U	W/Z	N	
n	Operation test (electrical control interlock and sequential operation)	Electrical	100% / 25%	As per Drawing	As per Drawing	EMTC	A	J	T/U	W/Z	N	CIP
0	Current injection test on all instruments /	Electrical	100% / 25%	As per Drawing	As per Dwg. / IS 8623	EMTC	A	J	T/U	W / Z	N	CIP
р	Oprations of instruments	Electrical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	
q	Electrical/ Mechanical interlock	Electrical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	
r	H.V. Test	Electrical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	А	J	T/U	W/Z	Ν	
S	IR (Before & After HV Test)	Electrical	100% / 25%	BSPTCL Spec,/ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	А	J	T/U	W/Z	Ν	
t	Paint Thickness	Mechanical	Sample	BSPTCL Spec./ Apprd. Drg.	IS 13871 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z	N	

V	MANUFACTURING QUALITY PLAN L.T PANELS, DIST. BOARDS/BOXES, PCC,MCC , AUXILLARY PANELS													
		Customer : BSPTCL		Vendor's Code:		Item: L.T PANELS, DIST. BOARDS/BOXES, PCC.MCC , AUXILLARY PANELS							d From: 15.01.2016 d Upto: Till Revision Page 1 of	
ii	Paint Adhesion	Mechanical	Sample	BSPTCL Spec./ Apprd. Drg.	IS 101 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
u	Space Heater function	Electrical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	IS 8623/IS13947 / BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
v	Degree of Protection - Paper insertion	Mechanical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
w	Shipping section alignment	Mechanical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
x	Welding Quality check	Visual	100% / 25%	BSPTCL Spec./ Apprd. Drg.	BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
У	Check for CIP of Lighting transformer	Visual	100%	BSPTCL Spec./ Apprd. Drg.	BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
Z	Check of Over aii dimension	Mechanical	100% / 25%	BSPTCL Spec./ Apprd. Drg.	BSPTCL Spec./ Apprd. Drg.	EMTC	A	J	T/U	W/Z		N		
D. PRE DIS	SPATCH INSPECTION													
	a) Paint Touch-up at the place where Scratch Test is made.	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	W	-			
	b) Panel to be packed properly	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	А	J	S	w				
	c) Panels to be bound separately at base	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	W		-		
	d) Plastic Wrapping	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				
	e) Final crating	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	W				
	f) Marking outside "FRAGILE HANDLE WITH CARE"	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				
	g) Mark " TOP" also by Symbol	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				
	h) Mark panel particulars I.e. Board name, shipping section fornt side	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				
	I) Mark destinaiton details as per BSPTCL Norms	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				
	j) Enclose packing slip	Visual	100%	BSPTCL Specn/ Apprd Dwg.	As per MS Std / BSPTCL Specn.	QC RECORD	A	J	S	w				

\*\* T- 100% WITNESSING U- 25% WITNESSING