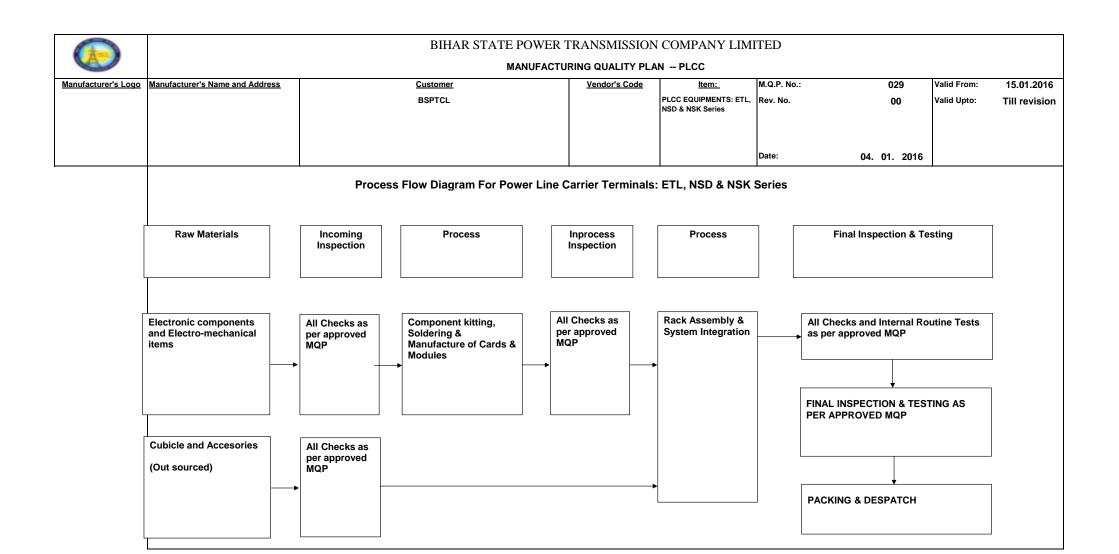
	BIHAR STATI	E POWER TRA	ANSMISSION CO	MPANY LIMITED							
	1	MANUFACTURIN	G QUALITY PLAN F	PLCC							
Manufacturer's Nam	Customer	Vendor's Code	<u>ltem:</u>	M.Q.P. No.: 029		Valid From:	15.01.2016				
	BSPTCL		PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No. 00		Valid Upto:	Till revision				
				Date:	04. 01. 2016						
Code 1	Indicates place where testing is planned to be performed i.e. Inspection loca	tion	Code 2	Indicates who has to per	form the tests i.e. Te	esting Agency					
Α	At Equipment Manufacturer's works		J	Indicates who has to perform the tests i.e. Testing Agency The Equipment Manufacturer							
В	At Component Manufacturer's works		К	The Equipment Manufacturer The Component Manufacturer							
С	At Authorised Distributor's place		L	The Third Party							
D	At Independent Lab		М	The Turnkey Contractor							
Е	At Turn Key Contractor's location										
F	Not specified										
Code 3	Indicates who shall witness the tests i.e. Witnessing Agency		Code 4	Review of Test Reports/C	ertificates						
Р	Component Manufacturer itself		W	By Equipment manufactur	er						
Q	Component Manufacturer and Equipment Manufacturer		X	By Contractor during prod	uct/process inspection	n					
R	Component Manufacturer, Equipment Manufacturer and Contractor		Y	By BSPTCL during produc	ct/process inspection						
S	Equipment Manufacturer itself		Z	By Contractor and/or BSP	TCL during product/p	rocess inspectio	n				
Т	Equipment Manufacturer and Contractor										
U	Equipment Manufacturer, Contractor and BSPTCL										
V	Third Party itself										
Code 5	Whether specific approval of sub-vendor / Component make is envisaged?		Code 6	Whether test records required to be submitted after final inspection for issua of Dispatch Clearance/Instructions							
Е	Envisaged		Υ	Yes							
N	Not Envisaged		N	No							

- 1. The MQP should be read in conjunction with BSPTCL specification and shall deem to include additional tests if any required as per the contract.
- 2. BSPTCL specification shall include provisions of letter of Award, BSPTCL approved drawings/technical data sheet/BOM/test schedule/test procedure applicable to the specific contract.
- 3. In case of any contradiction between the manufacturer's plant standards, this MQP and BSPTCL specification following precedence shall be followed:-
- a) BSPTCL specification.
- b) This Manufacturing Quality plan.
- c) Manufacturer's plant standards.
- 4. It is the responsibility of the manufacturer to ensure that this document is readily available at their works, as well as at the works of their sub vendors in order to avoid any delay at the time of inspection.
- 5. The manufacturer shall ensure that their as well as their sub vendors control, metering & testing instruments are duly calibrated and should have calibration certificates traceable. to Indian/International standards. Calibration records should be available during inspection by BSPTCL. Key testing instruments will be calibrated only by NABL accredited laboratories.
- 6. In case of any tests being carried out at third party lab, such lab/facility should be NABL accredited/accepted by BSPTCL.
- 7. The manufacturer shall maintain the proper co-relation of test certificates from raw material stage to finished product stage and the records should be available during inspection by BSPTCL.
- 8. 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.
- 9. All packing cases should be marked with BSPTCL LOA details, name of project, item description and Dispatch Clearance/Instructions number (by which material has been cleared for dispatch).
- 10. One copy of test report, Dispatch Clearance/Instructions shall also be sent along with consignment.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. The list of component manufacturers for which approval has been envisaged by BSPTCL is attached herewith.
- 15. Any addition/change in new sub-vendor/design/process shall call for review by BSPTCL and change in MQP, if necessary.
- 16. Dispatch Clearance/Instructions to be issued by BSPTCL Inspection office based on record review of final acceptance tests and the final acceptance tests are witnessed by equipment manufacturer only.

Page 1 of 14

17. Final Inspection Test Protocols for PLCC shall be approved by BSPTCL Enga.





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Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029		Valid	d Fron	n:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	d Upto	<b>o</b> :	Till revision
						Date:	04.	01.	2016				
Sr.	Components/Operations &		Quantum of	Reference				Ар	plicab	le Co	des		
No.	Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
A	RAW MATERIAL												
1	ELECTRONIC COMPONENTS	Indeed and and	100 0050 101	ı		T	15	Tız.	Р	14/	TNI	IN I	
1.1	RESISTORS (Metal film, Carbon film, Wire wound)	Mechanical: a) Visual, b) Solderability, Electrical: a) Value/Tolerance	ISO-2859 on AQL				В	K	۲	W	N	N	
1.2	POTENTIOMETERS (Cermet, Wire wound & Carbon Film)	Mechanical: a) Visual, b) Solderability, Electrical: a) Value/Tolerance	ISO-2859 on AQL				В	К	Р	W	Е	N	
1.3	CAPACITORS (Ceramic, Polypropylene, Metalized polyester, Electrolytic, Tantalum)	Mechanical: a) Visual, b) Solder ability, Electrical: a) Value/Tolerance, b) D factor	ISO-2859 on AQL				В	К	P	W	N	N	
1.4	FERRITE CORES	Mechanical: a) Visual, b) Dimension, Electrical: a) Value/Tolerance	ISO-2859 ON AQL				В	К	P	W	Е	N	
1.5	DIODES/Z-DIODES	Mechanical: a) Visual, b) Solder ability, Electrical: a) Forward Voltage drop, b) Reverse Current, c) Zener Voltage	ISO-2859 on AQL				В	K	P	W	N	N	



			WANT ACTOR										
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	<u>ltem:</u>	M.Q.P. No.:		029		Valid	Fron	n:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	<b>)</b> :	Till revision
						Date:	04	01	2016				
			Quantum of	Reference		24101	1		plicab		adh	1	
Sr. No.	Components/Operations & Description of Test	Type of check	Check/Sampling with basis		Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
1.6	LED	Mechanical: a) Visual, b) Solderability, Electrical: a) Colour of Light at rated Current b) Reverse Current, c) Voltage drop	ISO-2859 on AQL				A	J	S	W	N	N	
1.7	TRANSISTORS	Mechanical: a) Visual, b) Solderability, c) Package Electrical: a) hfe, b) Leakage Current	ISO-2859 on AQL				В	К	Р	W	N	N	
1.8	INTEGRATED CIRCUITS A) LINEAR (OPERATIONAL AMPLIFIER)	Mechanical: a) Visual, Electrical: a) Offset Current Test, b) Offset Voltage Test, c) Bias Current Test, d) Gain Test, e) CMRR Test, f) SVRR Test, g) O/P Voltage Swing Test, h) Supply Current Test	ISO-2859 on AQL				В	К	P	W	N	N	
	INTEGRATED CIRCUITS B) DIGITAL	Mechanical: a) Visual, Electrical: a) Programmed Parametric Check, b) Functional Check	ISO-2859 on AQL				В	K	Р	W	N	N	
1.9	SMD COMPONENTS	Mechanical: a) Visual	ISO-2859 on AQL				В	K	Р	W	N	N	
1.10	CRYSTAL	Mechanical: a) Visual, b) Dimensions, Electrical: a) Frequency & Tolerance	ISO-2859 on AQL				В	К	Р	W	Е	N	
1.11	VARISTOR	Mechanical: a) Visual, b) Solder ability, Electrical: a) Value with reference to voltage / tolerance	ISO-2859 on AQL				В	К	Р	W	N	N	



				10 QUALITTICA									
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029		Valid	Fron	n:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	):	Till revision
						Date:	04.		2016				
C.	Common and a /Omenation a R		Quantum of	Reference			1	Ap	plicab	le Co	des		
Sr. No.	Components/Operations & Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
1.12	RESISTOR NETWORKS	Mechanical: a) Visual, b) Solder ability, c) Dimensions, d) No. of pins, Electrical: a) Value / Tolerance, b) Wattage	ISO-2859 on AQL				В	Κ	P	W	N	N	
2	ELECTRO-MECHANICAL ITEMS							<u> </u>		<u> </u>		<u>                                     </u>	
2.1	ENAMELED WIRE	Mechanical: a) Visual, b) Gauge, c) Thickness of Insulation	ISO-2859 on AQL				A	J	S	W	N	Z	
2.2	CHOKES	Mechanical: a) Visual, b) Solder ability, Electrical: a) Inductance, b) Insulation Resistance Test at 500V DC, c) Q Factor	ISO-2859 on AQL				В	К	P	W	N	N	
2.3	CONNECTORS	Mechanical: a) Visual, b) Solder ability, c) Continuity, d) No. of Pins, e) Pitch, f) Mating	ISO-2859 on AQL				A	J	S	W	N	N	
2.4		Mechanical: a) Visual, b) Solder ability, Electrical: a) Pick up and Drop out voltage, b) Coil Resistance, c) H.V.Test, d) Contact Insulation Resistance test	ISO-2859 on AQL				В	К	P	W	Е	N	



Manufacturada Lana	Manufactured Name and Address	- Contains		Vdd- Cd-	lt	M.Q.P. No.:		000		W-1:-	l Fron		45.04.0040
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	<u>ltem:</u>			029					15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	):	Till revision
						Date:	04.		2016				
C-	Common auto/Omorations 8		Quantum of	Reference				Ap	plicab	le Co	des		
Sr. No.	Components/Operations & Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
2.5	BARE PCB (GLASS EPOXY)	Mechanical: a) Visual, b) Dimensions, c) Warp & Twist, d) Drilling, e) Gold Plating Thickness, f) Gold Plating Adhesion, g) Board Thickness, h) Legend, j) Check for Correct Positioning of Slot, f) BBT/Continuity	ISO-2859 on AQL				В	K	P	W	Z	Z	
2.6	SWITCHES/TOGGLE/ROTARY	Mechanical: a) Visual, b) Solder ability, c) Functional test, d) Dimensions	ISO-2859 on AQL				A	J	S	W	N	N	
2.7	VENTILATION FANS	Mechanical: a) Visual, b) Functional Test, c) High Voltage Test	ISO-2859 on AQL				В	К	Р	W	Е	N	
2.8	WIRES/PVC CABLES (ISI Marked)	Mechanical: a) Visual, b) Solder ability, c) Dimensions, d) Continuity, Electrical: a) H.V. Withstand	ISO-2859 on AQL				A	J	S	W	N	N	
2.9	SLEEVES	Mechanical: a) Visual, b) Internal dia	ISO-2859 on AQL				A	J	S	W	N	N	
2.10	TAG BLOCK/ TERMINAL BLOCKS	Mechanical: a) Visual, b) Plating Thickness, c) Solder ability(if Applicable)	ISO-2859 on AQL				A	J	S	W	Е	N	
2.11	HEAT SINK	Mechanical: a) Visual, b) Dimensions, c) Finish	ISO-2859 on AQL				В	К	Р	W	N	N	



Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029		Valid	Fron	n:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	<b>)</b> :	Till revision
						Date:	04.		2016				
Sr. No.	Components/Operations & Description of Test	Type of check	Quantum of Check/Sampling with basis	Reference document for Testing	Acceptance Norms	Format of Record	1	Ap 2	olicab 3	le Co	des 5	6	Remarks
2.12		Mechanical: a) Visual, b) Plating thickness, c) Dimensions,	ISO-2859 on AQL				В	K	Р	W	N	N	
2.13	RUBBER PARTS	Mechanical: a) Visual, b) Dimensions, c) Finish, d) Surface defects	ISO-2859 on AQL				В	K	Р	W	E	N	
2.14		Mechanical: a) Visual, b) Dimensions, Electrical: a) Parametric value, b) IR Tests on Fuse Holders at 500 VDC	ISO-2859 on AQL				A	J	S	W	Е	N	
2.15		Mechanical: a) Visual Check, b) Dimensional Check, c) Finish	ISO-2859 on AQL				A	J	S	W	N	N	
2.16		Mechanical: a) Visual Check, b) Dimensional Check, c) Functional test	ISO-2859 on AQL				В	K	Р	W	N	N	
2.17		Mechanical: a) Visual, b) Solder ability if applicable b) Mechanical Zero, Electrical: a) Accuracy, b) Coil Resistance	ISO-2859 on AQL				В	К	P	W	E	N	



			invator 7.01 Orti	10 QUALITTICA									
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	<u>ltem:</u>	M.Q.P. No.:		029		Valid	d Fro	m:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	d Upto	o:	Till revision
						Date:	04.	01.	2016				
Sr. No.	Components/Operations & Description of Test	Type of check	Quantum of Check/Sampling with basis	Reference document for Testing	Acceptance Norms	Format of Record	1	Ap 2	plicab 3	le Co	des 5		Remarks
2.18		Mechanical: a) Visual, b) Mating, c) Continuity	ISO-2859 on AQL				Α	J	S	W	N	N	
2.19		Mechanical: a) Visual, b) Functional	ISO-2859 on AQL				A	J	S	W	N	N	
2.20		Mechanical: a) Visual Check, b) Dimensional Check, c) Finish	ISO-2859 on AQL				Α	J	S	W	N	N	
2.21	PARTS (Including channels, brackets, housing etc.)	Mechanical: a) Visual, b) Dimensional, c) Functional test, d) Surface defects	ISO-2859 on AQL				В	К	Р	W	N	N	
2.22		Mechanical: a) Visual, b) Functional	ISO-2859 on AQL				В	K	Р	W	Е	N	



				NG QUALITITEA									
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029		Valid	Fron	n:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	<b>)</b> :	Till revision
						Date:	04.	01.	2016				
•			Quantum of	Reference				Ap	plicab	le Co	des		
Sr. No.	Components/Operations & Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
3	CUBICLE												
3.1	RAW MATERIAL - CRCA SHEET	Mechanical: a) Visual check, b) Tensile Tests, i) Yield strength, ii) Ultimate strength, iii) Elongation, c) Thickness of CRCA Sheet of cabinet, Chemical: a) Chemical Analysis	100%				В	K	P	W	E	N	
3.2	FABRICATION	Mechanical: a) Visual check, b) Dimension	100%				В	K	Р	W	Е	N	
3.3	PRE TREATMENT BY 7 TANK PROCESS	Mechanical & Chemical: a) Degreasing i) Check for concentration of Bath & temper, ii) Check for Water Rinsing, b) Derusting / Pickling i) Check for concentration of bath, ii) Check for Water Rinsing c) Phosphating-Check concentration bath, d) Fresh DM Water Rinsing i) Water Drying, ii) Electrophoretic Dip Coating(If powder coated), e) Final Finish i) Visual Check, ii) Nail Scratch Test	100%				В	K	P	W	E	N	
3.4	PAINTING a) Primer - two coats (within 24 hours of phosphating baking) b)Putty (wherever required) c)Painting (1st Coat) (spray painting or powder coating) d) Final Coat	Mechanical & Chemical: a) Visual check after baking, b) Visual Check after primer coating, c) Visual Check after primer coating, d) i) Visual Check for surface finish, ii) Check for thickness of paint, iii) Check for colour shading, iv)Paint Adhesion Check e) Final finish i) visual check	100%				В	К	P	W/Z	Е	N	



			MAROI ACTORI	NG QUALITY PLA	11 -1 200							
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029		Valid	From:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	Upto:	Till revision
						Date:	04.		2016			
Sr.	Components/Operations &		Quantum of	Reference				Ap	plicab	le Co	des	
No.	Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5 6	Remarks
В	INPROCESS INSPECTION											
1	COILS											_
1.1	COMPONENT KITTING	Mechanical: a) Quantity, b) Identification	100%				Α	J	S	W	N	
1.2	MANUFACTURING / TESTING	Mechanical: a) Visual, Electrical: a) Inductance, b) Q Factor, c) Insulation resistance test at 500V	100%				A	J	S	W	N	
2	SMT PROCESS	I	l .	l .								
2.1	COMPONENT KITTING	Mechanical: a) Quantity, b) Identification	100%				Α	J	S	W	N	
2.2	COMPONENT LOADING (in Automatic Component Placement machine)	Mechanical: a) Visual check	100%				A	J	S	W	Z	
2.3	STENCIL / SCREEN PRINTING OF SOLDER PASTE ON PCB	Mechanical: a) Visual check	5 nos. per lot As per EM Specn.				A	J	S	W	N	
2.4	AUTO COMPONENT PLACEMENT ON PCB'S.	Mechanical: a) Visual check	5 nos. per lot As per EM Specn.				A	J	S	W	N	
2.5	REFLOW SOLDERING PROFILE GENERATION	Mechanical: a) Visual check	100%				A	J	S	W	N	
2.6	REFLOW SOLDERING	Mechanical: a) Solder Paste Bridging, b) Excess Solder Paste, c) Insufficient Solder Paste, d) No Component, e) Wrong Component, f) Wrong Orientation, g) Dry Solder, h) Solder Balls i)Tomb Stoning	100%				A	J	S	W	N	



						I				1	_	
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	Item:	M.Q.P. No.:		029			From:	15.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	Upto:	Till revision
						Date:	04.		2016			
Sr.	Components/Operations &		Quantum of	Reference				Аp	plicab	le Cod	les	
No.	Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5 6	Remarks
3	THROUGH HOLE COMPONENTS				•	•						
3.1	COMPONENT KITTING	Mechanical: a) Quantity, b) Identification	100%				Α	J	S	W	N	
3.2	COMPONENT PREPARATION	Mechanical: a) Visual check	100%				Α	J	S	W	N	
3.3	COMPONENT PLACEMENT/ ASSEMBLY	Mechanical: a) Visual check	100%				Α	J	S	W	N	
	ASSEMBLY	a) visual crieck										
3.4	WAVE SOLDERING / HAND SOLDERING & ULTRASONIC	Mechanical: Visual inspection for:	100%				A	J	S	W	N	
	CLEANING	a) Dry Solder, b) Less solder, c) Solder Bridge, d) Wetting Faults, e) Damaged Joints,										
		f) Spikes, g) Solder Spatters, h) Blow Holes, i) Pin Holes, j) Shrink Holes										
3.5	MISC.ASSEMBLY	Mechanical: a) Visual check	100%				A	J	S	W	N	
4	ELECTRONIC MODULE ASSEME	BI V & TESTING										
4.1	MODULE TESTING	Mechanical:	100%			1	Α	LI	S	W	N	
		a) Visual Check, b) Proper Jacking of Modules, c) Functional Test	100%									
5	FINAL ASSEMBLY	1			J	J	1	1	l		-	+
5.1	SUB-RACK ASSEMBLY	Mechanical:	100%				Α	J	S	W	N	+
0.1	OSS-NACK ASSEMBLY	a) Visual Check, b) Proper Jacking of Modules, c) Continuity Check	10070				<i>r</i> \				114	



	1													
Man	ufacturer's Logo	Manufacturer's Name and Address	<u>Customer</u>		Vendor's Code	<u>Item:</u>	M.Q.P. No.:		029		Valid	l From	1:	15.01.2016
			BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	l Upto	:	Till revision
							Date:	04.		2016				
	Sr.	Components/Operations &		Quantum of	Reference				Ap	plicab	le Co	des		
	No.	Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5	6	Remarks
5.2		WIRING	Mechanical: a) Visual Check for identification of labels, proper Housing of Sub-Racks, Modules & Accessories b) Check for physical ,General appearance / Finish c) Check for Continuity & completeness of wiring & connections. d) cabinet dimensional measurement e) paint thickness measurement	100%				Α	J	S	W		Z	
5.3		SOAK (BURN IN)	Electrical: Test on complete equipment for 120 hours and functional tests after burnin	100%				A	J	S	W		N	



The Park													
Manufacturer's Logo	Manufacturer's Name and Address	Customer		Vendor's Code	<u>Item:</u>	M.Q.P. No.:		029		Valid	From	: 1	5.01.2016
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No.		00		Valid	Upto:	Ti	ill revision
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			T = 2			Date:	U4.		2016				
Sr.	Components/Operations &	Type of check	Quantum of Check/Sampling with	Reference document for	Acceptance Norms	Format of Record	<u> </u>	Ap	plicab	le Co	des	ᆗ,	Remarks
No.	Description of Test	Type of check	basis	Testing	Acceptance Norms	1 offiliat of Necora	1	2	3	4	5	6	remarks
C 1	FINAL INSPECTION & TESTING ROUTINE TESTS												
1.1	CARRIER EQUIPMENT - ETL	Routine Tests: System Integration &	100%			Equipment	Α	J	S	W/		Υ	
	41/42/81/82	Testing for functions				manufacturer's Test				Z			
	System Integration & Testing for functions					certificate							
	Turicuoris												
1.2	PROTECTION COUPLERS	Routine Tests: System Integration &	100%			Equipment	Α	J	S	W/		Υ	
	INTEGRATED WITH ETL/STAND ALONE(Type:NSD 50,70C,70D)	Testing for functions				manufacturer's Test certificate				Z			
	System Integration & Testing for					Certificate							
	functions												
1.3	VFT EQUIPMENT WITH	Routine Tests: System Integration &	100%			Equipment	Α	J	S	W/		Y	
-	PLCC/STAND ALONE (Model	Testing for functions				manufacturer's Test				Z			
	NSK-5). System					certificate							
	Integration & Testing for functions												



Manufacturer's Logo	Manufacturer's Name and Address	<u>Vendor's Code</u>		<u>Item:</u>	M.Q.P. No.:	029			Valid From: Valid Upto:		15.01.2016 Till revision	
		BSPTCL			PLCC EQUIPMENTS: ETL, NSD & NSK Series	Rev. No. 00						
						Date:	04.		2016			
Sr.	Components/Operations &		Quantum of	Reference			Applicabl			le Codes		
No.	Description of Test	Type of check	Check/Sampling with basis	document for Testing	Acceptance Norms	Format of Record	1	2	3	4	5 6	Remarks
2	ACCEPTANCE TESTS											
2.1	System Integration & Testing for functions	Acceptance Tests: Electrical Tests: a) Carrier Frequency Level, b) Frequency Accuracy, c) Loss of Speech/Signal Level (Frequency response), d) Automatic Gain Control,	0%				Α	J	U	W/Z	Y	
2.2	STAND ALONE (Type:NSD 50,70C,70D) System Integration & Testing for functions	Acceptance Tests: Electrical Test: Integration & testing for functions a) Transmitter & receive levels, b) Transmission time measurement, c) Command prolongation, d) Alarms, e) Loop test	0%				A	J	U	W/ Z	Y	
2.3	Integration & Testing for functions	Acceptance Tests: Electrical: Integration & testing for functions a) Transmit signal frequency b)Transmit output level	0%				A	J	U	W/ Z	Y	
2.4	SPARES/PTK	Physical	100%				Α	J	S	W/	N	
		a) Visual inspection								Z	$\perp \perp \perp$	
D	PACKING & DESPATCH	T=			ı	T		1.	1_	T		
1.1		Physical a) Visual inspection	100%				А	J	S	W	N	
1.2	Check for finish	Physical a) Visual inspection	100%				Α	J	S	W	N	
1.3	Check for packing	Physical a) Visual inspection	100%				A	J	S	W	N	