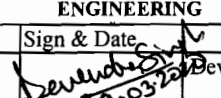
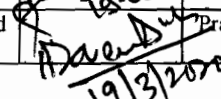
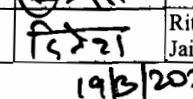


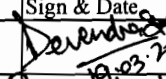
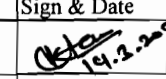
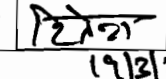
	MANUFACTURER/ BIDDER/ SUPPLIER NAME & ADDRESS	STANDARD QUALITY PLAN		SPEC. NO :	DATE:
		CUSTOMER :		QP NO.: PE-QP-999-558-E002, R-2	DATE:
		PROJECT:		PO NO.:	DATE:
		ITEM: DISTRIBUTION BOARD	SYSTEM:	SECTION:II	SHEET 1 OF 4

SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
1	2	3	4	5	6		7	8	9	*	**			
					M	C/ N				D	M	C	N	
1.0	Raw Material	(a)Material (b)Thickness (c) Surface Finish (d) Chemical Composition	MA	V/M	100%	Sample	Manuf. Std./ Approved Document	Manuf. Std./ Approved Document	Test Certificate	√	P	V		
2.0		Verification of make, type, Size & rating of component like indicating lamps, PB's, contactors, relays, switches etc.	MA	Visual	100%	Sample	Approved drg. & Datasheet	Approved drg. & Datasheet	Test Certificate	√	P	V		Component to be of approved make.
LIGHTING DISTRIBUTION BOARDS & LIGHTING PANELS														
3.0	Final Inspection	1.Dimensions	MA	Measurement	100%	10%	Approved drg./ Datasheet	Approved drg./ Datasheet	Insp. Report	√	P	W		
		2. Paint shade/ Paint Finish & thickness	MA	Visual/ measurement	100%	10%	Approved drg./ Datasheet	Approved drg./ Datasheet	Insp. Report	√	P	W		
		3. Verification of GA	CR	Visual	100%	100%	Approved drg.	Approved drg.	Insp. report	√	P	W		
		4. Verification of BOM	CR	Visual	100%	100%	Approved drg.	Approved drg.	Insp. report	√	P	W		
		5. Functional tests (incl. wiring cont.)	MA	Elect	100%	100%	Approved drg	Approved drg.	Insp. report	√	P	W		
		6.HV/ IR/ HV	MA	Elect	100%	100%	HV -2.5KV AC for 1 minute IR - >50 MOHM	HV -2.5KV AC FOR 1 MINUTE IR - >50 M OHM	Insp. report	√	P	W		

BHEL				BIDDER/ SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		Sign & Date		Doc No:			
Prepared by:	Sign & Date	Name	Checked by:	Sign & Date	Name	Reviewed by:	Sign & Date	Name	Seal
by:		Devendra Singh	by:		Kusum Gautam	by:			
Reviewed by:		Praveen Dutta	Reviewed by:		Ritesh Kumar Jaiswal	Approved by:			
by:	19/3/2020		by:	19/3/2020					

	MANUFACTURER/ BIDDER/ SUPPLIER NAME & ADDRESS	STANDARD QUALITY PLAN		SPEC. NO :	DATE:
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		PROJECT:		PO NO.:	DATE:
		ITEM: DISTRIBUTION BOARD	SYSTEM:	SECTION:II	SHEET 2 OF 4

SL.NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTAN CE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
1	2	3	4	5	6		7	8	9	*	**			
					M	C/ N				D	M	C	N	
		6. Degree of protection (including explosion proof if any)	MA	Scrutiny of type test certificates	1/rati ng	1/rati ng	IS 13947 or equivalent	IS 13947 or equivalent	Test certificate	√	P	V		
		7. Temperature rise test (for complete assembled LDB/ LP)	MA	Scrutiny of type test certificates	1/rati ng	1/rati ng	IS 8627 or equivalent	IS 8627 or equivalent	Test certificate	√	P	V		
4.0	LIGHTING TRANSFORMER													
		1.Routine test	CR	Visual	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V		
		a.) Type/ Rating	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V		
		b). Winding/ .Resistance	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V		
		c). Voltage Ratio/ Vector	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V		

BHEL					
ENGINEERING			QUALITY		
Prepared by:	Sign & Date	Name	Checked by:	Sign & Date	Name
		Devendra Singh			Kusum Gautam
Reviewed by:	Sign & Date	Name	Reviewed by:	Sign & Date	Name
		Praveen Dutta			Ritesh Kumar Jaiswal

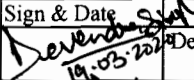
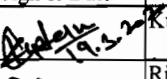
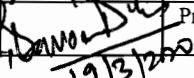
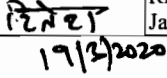
BIDDER/ SUPPLIER	
Sign & Date	
Seal	

FOR CUSTOMER REVIEW & APPROVAL			
Doc No:			
Reviewed by:	Sign & Date	Name	Seal
Approved by:			

	MANUFACTURER/ BIDDER/ SUPPLIER NAME & ADDRESS	STANDARD QUALITY PLAN		SPEC. NO :	DATE:
		CUSTOMER :		QP NO.: PE-QP-999-558-E002, R-2	DATE:
		PROJECT:		PO NO.:	DATE:
		ITEM: DISTRIBUTION BOARD	SYSTEM:	SECTION:II	SHEET 3 OF 4

		d) Z Volt/ Z Sckt	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V		
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SL.NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
1	2	3	4	5	6		7	8	9	*	**		
					M	C/ N				D	M	C	N
		e).Load Loss/ Current	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V	
		f.) No Load Loss & No Load Current	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V	
		g.) Source Withstand	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V	
		h) Induced O/ V	CR	Test	100%	100%	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Insp. report	√	P	V	
		2. Type Test	MA	Verification	-----	1/Rating	IS 11171 & Approved Datasheet	IS 11171 & Approved Datasheet	Test Certificates	√	P	V	Type Test Certificate Clearance from BHEL/Customer
5.0	PACKING	As per BHEL Appd. Drg./Packing Procedure	MA	Visual	100%	100%	Appd. Packing Drg./ Packing procedure	Appd. Packing Drg./ Packing procedure	Insp. report	√	P	W	-

BHEL					
ENGINEERING			QUALITY		
Prepared by:	Sign & Date	Name	Checked by:	Sign & Date	Name
		Devendra Singh			Kusum Gautam
Reviewed by:	Sign & Date	Name	Reviewed by:	Sign & Date	Name
		Praveen Dutta			Ritesh Kumar Jaiswal

BIDDER/ SUPPLIER	
Sign & Date	
Seal	

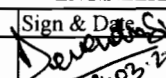
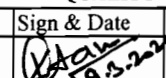
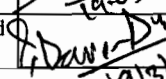
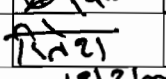
FOR CUSTOMER REVIEW & APPROVAL			
Doc No:			
	Sign & Date	Name	Seal
Reviewed by:			
Approved by:			

	MANUFACTURER/ BIDDER/ SUPPLIER NAME & ADDRESS	STANDARD QUALITY PLAN		SPEC. NO :	DATE:
		CUSTOMER :		QP NO.: PE-QP-999-558-E002, R-2	DATE:
		PROJECT:		PO NO.:	DATE:
		ITEM: DISTRIBUTION BOARD	SYSTEM:	SECTION:II	SHEET 4 OF 4

NOTES: -	
(A)	THE INSPECTION SHALL BE CARRIED OUT ONCE FOR THE MATERIAL OFFERED FOR INSPECTION IN ONE LOT. FOR SUBSEQUENT LOTS AGAINST THE SAME PROJECT, THE MATERIAL CAN BE ACCEPTED BASED ON CERTIFICATE OF COMPLIANCE FURNISHED BY THE VENDOR.
(B)	BHEL RESERVES THE RIGHT FOR CONDUCTING REPEAT TEST, IF REQUIRED.
(C)	AFTER PACKING AND PRIOR TO ISSUE OF MDCC, PHOTOGRAPHS OF COMPLETE MATERIAL (TO BE DISPATCHED) SHALL BE SENT TO BHEL- PURCHASE GROUP FOR REVIEW.
(D)	ENGG. TO ENSURE THAT ALL CUSTOMER REQUIREMENTS HAVE BEEN TAKEN CARE OF IN QP & TECH. SPECIFICATION DURING ISSUE OF PURCHASE INDENT.
(E)	IN CASE THERE ARE ANY CHANGES IN QP COMMENTED BY CUSTOMER AT CONTRACT STAGE, THE SAME SHALL BE CARRIED OUT BY THE BIDDER WITHOUT ANY IMPLICATION TO BHEL/ CUSTOMER.
(F)	PROJECT SPECIFIC QP TO BE DEVELOPED BASED ON CUSTOMER REQUIREMENT.
(G)	FOR EXPORT JOB, PACKING SHALL BE AS PER BHEL SEAWORTHY PACKING SPECIFICATION.

LEGENDS:

*RECORDS, IDENTIFIED WITH "TICK"(✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION,
 ** M: SUPPLIER/ MANUFACTURER/ SUB-SUPPLIER, C: MAIN SUPPLIER/ BHEL/ THIRD PARTY INSPECTION AGENCY, N: CUSTOMER,
 P: PERFORM, W: WITNESS, V: VERIFICATION, AS APPROPRIATE
 MA: MAJOR, MI: MINOR, CR: CRITICAL

BHEL				BIDDER/ SUPPLIER		FOR CUSTOMER REVIEW & APPROVAL			
ENGINEERING		QUALITY		Sign & Date		Doc No:			
Sign & Date	Name	Sign & Date	Name	Seal		Sign & Date	Name	Seal	
Prepared by: 	Devendra Singh	Checked by: 	Kusum Gautam						
Reviewed by: 	Praveen Dutta	Reviewed by: 	Ritesh Kumar Jaiswal						

19/3/2020