

ORISSA POWER TRANSMISSION CORPORATION LIMITED

(A Government of Orissa Undertaking)

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OFFICE OF THE SENIOR GENERAL MANAGER (CPC)

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CLARIFICATION:II CLARIFICATION II TO THE TENDER NOTICE NO. 47/201112 (PACKAGE-I)

Tender Specification: Sr. G.M, CPC-TENDER-INSULATOR-56/2011-12 REF: SECTION-IV (TECHNICAL SPECIFICATION): CL. No. 3.1.2 & CL. No. 4.6 (a) & (b). and GTP for 70 KN,90 KN, 120 KN & 160 KN.

The above clause may be read as indicated below:-

(A) 3.1.2 PRINCIPAL PARAMETERS OF THE DISC INSULATORS:-

SI.	Type of	Size of	Minimum	No. of	Electro-
No.	String.	disc.	creepage	standard	mechanical
		Insulator	distance of	discs	strength of
		(mm)	each disc	132 KV /220	insulator string
			(mm),	KV	fittings (KN)
1.	Single	255 x 145	320	1x9/1x14	70 KN/90 KN
	suspension				Normal Disc
					Insulator
2.	Double	-do-	-do-	2x9/2x14	70 KN/90 KN
	suspension.				Normal Disc
					Insulator
3	Single	255 x 145	430	1x9/1x14	70 KN/90 KN
	suspension				Antifog Insulator
4	Double	-do-	-do-	2x9/2x14	70 KN/90 KN
	suspension.				Antifog Disc
					Insulator
5	Single	280x145	430	1x10/1x15	120 KN Antifog
	Tension				Disc Insulator
6	Double	-do-	-do-	2x10/2x15	120 KN Antifog
	Tension				Disc Insulator
7	Single	305x170	475	1x10/1x15	160 KN Antifog
	Tension				Disc Insulator
8	Double	-do-	-do-	2x10/2x15	160 KN Antifog
	Tension				Disc Insulator

(B) 4.6 DIMENSIONAL TOLERANCE OF INSULATOR DISCS:

It shall be ensured that the dimensions of the disc insulators are within the limits specified below:

(a)

SI. No.	Diameter of Disc (mm)	Standard in mm	Maximum	Minimum
1.	70 KN/90 KN & 120 KN	255/255 & 280	As per IS	As per IS

2.	160 KN	305	As per IS	As per IS	
(b)		I.			
SI.	Ball to Ball spacing	Standard in	Maximum	Minimum	
No.		mm			
	Between Discs (mm)				
1.	70 KN/90 KN/120 KN	145	As per IS	As per IS	
2.	160 KN	170	As per IS	As per IS	

(C) GUARANTEED TECHNICAL PARTICULAR FOR NORMAL DISC INSULATORS:-

FOR NORMAL DISC INSULATORS:-						
SI.	DESCRIPTION	90 KN	70 KN			
No.						
1.	Manufacture's name &address					
2	Type of Insulator	Ball & socket	Ball & socket			
3	Size of ball & socket	16B	16B			
4	Dimensions (in mm)					
(a)	Disc diameter	255	255			
(b)	Unit spacing	145	145			
(c)	Creepage distance of the single insulator- mm	320	320			
5	Electro-mechanical strength of single insulator- in KN	90	70			
6	Materials of shell	Porcelain	Porcelain			
7.	Electrical value					
7.1	Power frequency Withstand voltage disc					
	(a) Dry-kV (rms)	70	70			
	(b) Wet-kV (rms)	40	40			
7.2	Power frequency flash over voltage					
	single-disc					
	(a) Dry-kV (rms)	75	75			
	(b) Wet-kV (rms)	45	45			
7.3	Impulse withstand voltage 1.2/50 micro					
	second					
	(a) Positive –kV(peak).	110	110			
	(b) Negative –kV (peak)	110	110			
7.4	Impulse Flash over voltage 1.2/50 micro					
	second.	1,00	400			
	(a) Positive –kV(peak)	120	120			
	(b) Negative –kV (peak	120	120			

(D) GUARANTEED TECHNICAL PARTICULARS FOR ANTIFOG DISC INSULATORS

FOK.	ANTIFOG DISC INSULATORS)			
SI. No.	DESCRIPTION	70 KN	90 KN	120KN	160 KN
1.	Manufacture's name &address				
2	Type of Insulator	Ball & socket	Ball & socket	Ball & socket	Ball & socket
3	Size of ball & socket	16B	16B	20	20
4	Dimensions				
(a)	Disc diameter	255	255	280	305
(b)	Unit spacing	145	145	145	170
(c)	Creepage distance of the single insulator-mm	430	430	430	475
5	Electro-mechanical strength	70	90	120	160

	of single inslator-kN				
6	Materials of shell	Porcelain	Porcelain	Porcelain	Porcelai
					n
	Electrical value				
7.					
7.1	Power frequency Withstand				
	voltage disc				
	(a) Dry-kV (rms)	80	80	85	90
	(b) Wet-kV (rms)	45	45	50	50
7.2	Power frequency flash over				
	voltage single-disc				
	(a) Dry-kV (rms)	85	85	90	95
	(b) Wet-kV (rms)	50	50	55	55
7.3	Impulse withstand voltage				
	1.2/50 micro second				
	1.Positive –kV(peak)	125	125	130	135
	2.Negative -kV (peak)	125	125	130	135
7.4	Impulse Flashover voltage				
	1.2/50 micro second				
	1.Positive –kV(peak)	135	135	140	145
	2.Negative -kV (peak)	130	130	135	140

* Tolerance as per relevant IS (Latest edition).
All Other terms and conditions of the contract/specification shall remain unaltered.

> Sd/-Sr. General Manager,CPC