

Annexure - I

System Parameters- Design Parameters					
Sr. No.	Description of Parameter	400kV System	220kV System	132kV System	66kV System
1	System Operating Voltage	400kV	220kV	132kV	66kV
2	Max. Operating Voltage	420kV	245kV	145kV	72.5kV
3	Rated Frequency	50 Hz	50 Hz	50 Hz	50 Hz
4	No. of Phase	3	3	3	3
5	Rated Insulation Levels				
6	i) Full wave Impulse withstand voltage (1.2 / 50 micro sec.)	1550kVP	1050kVP	650kVP	350kVP
7	ii) Switching Impulse withstand Voltage (250/2500 micro sec.)	1050kVp	NA	NA	NA
8	iii) One Minute Power Ferequency Dry & Wet Wistand Voltage (rms)	630kV	460kV	275kV	160kV
9	Corona Extinction Voltage	320kV	208kV	NA	NA
10	Max. Radio interference Voltaage for frequency between 0.5MHz & 2MHz at 320kV rms for 400kV system & 156 kV rms for 220kV & 92kV rms for 132kV system	1000 microV	1000 microV	NA	NA
11	Min. Creepage Distance	25MM/kV (10500MM)	25MM/kV (6125MM)	25MM/kV (3625MM)	25MM/kV (1810MM)
12	Min. Clearance				
13	i) Phase to Phase	4200MM	2100MM	1300MM	630MM
14	ii) Phase to Earth	4200MM	2100MM	1300MM	630MM
15	iii) Safety Clearance	6400MM	4600MM	3800MM	3100MM
16	iv) Ground Clearance	8000MM	5500MM	4600MM	4000MM
17	Rated Short Circuit Current for 3 Sec. Duration	40kA	40kA	31.5KA	25KA
18	System Neutral Earthing	Effectively Earthed	Effectively Earthed	Effectively Earthed	Effectively Earthed