

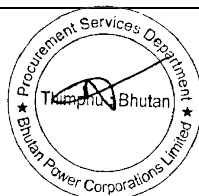
**Amendment II**

In addition to the technical specification for Lot 1 (ARCB) provided in the tender document the bidder shall consider the following parameters:

**1. Design Criteria**

General operating parameters required for the Auto Reclosers are as shown in the table below

SI #	Particulars	33kV	11kV
1	Rated Voltage	33kV	11kV
2	Maximum system voltage	36kV	12kV
3	Applicable Standard	IEC 62271 – 111	
4	Type	Outdoor, pole mounted	
5	Frequency	50 Hz	
6	Rated Power Frequency withstand Voltage (kV)	70	28
7	Rated Lightning impulse withstand Voltage (kV)	170	75
8	Rated continuous current (Amps)	300 and above	300 and above
9	Fault make capacity (RMS)-kA	Minimum of 12.5	Minimum of 12.5
10	Fault make capacity (Peak)-kA	Minimum of 31.5	Minimum of 31.5
11	Fault breaking capacity (kA)	Minimum of 12.5	Minimum of 12.5
12	Short time current withstand (kA/sec)	Minimum of 12.5	Minimum of 12.5
13	Protection Features	Overcurrent	Overcurrent
		Earth fault	Earth fault
		Sensitive Earth Fault	Sensitive Earth Fault
		Negative phase sequence	Negative phase sequence
		Over/Under frequency	Over/Under frequency
		Over/Under Voltage	Over/Under Voltage
		Live load blocking	Live load blocking
		Cold load pick up	Cold load pick up
14	Metering/Measurement features	Inrush restraints	Inrush restraints
		Voltage	Voltage
		Current	Current
		Frequency	Frequency
		Kilowatt (kW)	Kilowatt (kW)
		Apparent Power (kVA)	Apparent Power (kVA)
		Reactive power (kVAR)	Reactive power (kVAR)
		Power Factor	Power Factor
Energy (kwh)	Energy (kwh)		



Technical Specification Lot 1 (ARCB)

		Outage Measurement	Outage Measurement
15	Communication features	Local: Serial/TCP/IP and USB port	Local: Serial/TCP/IP and USB port
		Remote: Serial/TCP/IP	Remote: Serial/TCP/IP
16	Interrupting medium	Vacuum	Vacuum
17	Insulation	Solid Di-electric material	Solid Di-electric material
18	Mechanical operating life	Minimum of 10,000 operations	

*Above values are the standard values at 1000 meters ASL. For installing at an altitude higher than 1000 m, the insulation withstand level of external insulation and the clearances shall be defined by the bidder considering altitude correction factor in accordance with an altitude as given in the Site conditions Section I, Clause 1.6.*

