

Annexure-C&P

1.0	Control, Protection and Annunciation Equipment spares	Quantity (Vizag)
1.1	Set of Modules/Cards, Main Protective Relay/Auxiliary relay & contactors of each type and function required for Control, Protection, Communication, Annunciation, Alarm, Scada & Monitoring (Including modules for Mini simulator/valve test equipment/valve control test equipment /RCI etc.) for AC/DC systems	20% of Population or minimum 02 No.
1.2	Complete set of computer for each type of functionalities (i.e. control, protection, subsystem etc.)	20% of Population or minimum 01 No.
1.3	DC Line Fault Locator spares	1 Set
1.4	Engineering Workstation/Server along with software	1 Set
1.5	Operation Workstation/HMI along with software	2 Set
1.6	Cards/module for Transient Fault Recorder/ Disturbance Recorder including software (Wherever applicable)	1 Set
1.7	LAN Switch each type	2 No.
1.8	GPS Time display unit receiver card & antenna	1 Set
1.9	Printer of each type along with cartridges	1 Set
1.10	DAT//Storage device/recording system for Workstation	6 No.
1.11	Monitor- each type	1 No.
1.12	Thermostat	2 No.
	Panel space heater	2 No.
2.0	Set of spares for VPS system	
2.1	Power module	1 Set
2.2	LED/Lamp based projector module	1 Set
2.3	Input board	1 Set
2.4	FAN kit	1 Set