

MANDATORY SPARES FOR WARDHA FSC (Annexure I)

S.NO	EQUIPMENT	QUANTITY
1	Spare Capacitor Unit	10% of total no. of units for banks
2	Fiber Optic Cable	1 no. of longest length
3	Control & protection spares	
	a. Relays/Module used	1 set (1 of each type)
	b. Control Switch(if applicable)	1 set (1 of each type)
	c. Instrument and meters(if applicable)	1 set (1 of each type)
4	Damping Resistor Elements (if applicable)	10% of total quantity used subject to minimum 1 no. of each type.
5	Spark Gap Components	1 set.
6	a)420 kV ByPass Switch Pole complete with control cabinet and terminal connectors (1 of each type) and without support structures with operating mechanism	1 set.
	b)Trip coil with resistor	2 nos.
	c) Close coil with resistor	3 nos.
	d) Molecular Filter	2 nos.
	e) SF6 Gas	40% of the initial quantity
	f) Auxiliary switch assembly	1 set
7	420 kV Isolator Pole with earth switch complete with terminal connectors (1 of each type) & without support structure	1 no.
8	CT complete in all respect including terminal connectors	1 no. of each type.
9	MOV	10% of the required MJ rating (spare units shall be evenly distributed on the platform with required varistors)
10	Erection Hardwares	
	i) 5% spares of the actual quantities for hardwares, clamps & connectors, spacers etc. No spares are to be considered for conductor, grounding conductors, cable tray, pipes,buried cable trenches, angles, channels, JB	
	ii) Conducting leads and lugs for capacitors	10 sets
12	Support Insulators of each type	10 nos.
13	Fiber optic signal suitable for one column	1 set