BREAK-UP OF MANDATORY SPARES

Sl. No	Description	Unit	Quantity for
			400kV Pune (West) GIS S/s
1.0	**400kV Capacitive Voltage Transformer**		
a	400kV, 4400pF CVT	Nos.	2
2.0	**336kV Surge Arrester**		
a	Complete L.A. (each rating) with insulating base, surge counter/monitor	Nos.	2
b	Surge counter/monitor	Nos.	2
3.0	**Control Relay & Protection System**		
(I)	**Line Protection Panel (Each Make & Type)**		
a	Numerical Distance relay (if applicable)	No.	1 (Each type)
b	Line differential relay (if applicable)	No.	1 (Each type)
(II)	**Common Spares**		
a	Bus Bar Bay unit module (if applicable) each make & type	No.	1
b	LBB Relay (if standalone)	No.	1
c	Auxiliary & Trip relays (of each type)	No.	1
4.0	**Substation Automation System**		
a	Bay Control Unit (IED) of Main System	Set	1
b	Ethernet switch suitable for 19" Rack Mounting: Ports: 24 Fiber Optic Ports	No.	1
5.0	**PLCC EQUIPMENT**		
a	Set of Prints for Carrier terminal	Set	1
b	Set of Prints for Analog protection coupler	Set	1
c	Digital Tele-Protection Coupler	Set	1
6.0	**FIRE PROTECTION SYSTEM**		
a	Smoke Detector	No.	1
7.0	**400KV Bus Post insulator**		
a	Bus Post Insulator Assembly (Complete) (except for Wave Trap)	No.	2
8.0	**Clamps & Connectors**		
a	Each type	No.	1