

### **LIST OF SPARES TO BE SUPPLIED WITH EACH IPS**

<b>SN</b>	<b>Sub system</b>	<b>Spare components</b>	<b>Qty</b>
1	FRBC Module	Module (as cold standby)	1 Module
2	Inverter Module	110VDC/230AC Module (as cold standby)  OR 110VDC/110VAC Module (as cold standby)	1 Module
3	DC-DC Converter	DC-DC Converter used for relay internal, relay external and block line or as required by the purchaser.	1 module each
4	AC-AC Converter	230VAC/110VAC Module (as cold standby) ( With Supply of AC-AC converter modules only)	2 Modules
5	Ferro-resonant type Automatic Voltage Regulator (AVR)	AC Capacitor ( With Supply of AVR only)	1 Set
6	Fuses	All type of fuses used in IPS subsystem	1 Set
7	Transformer	Module (as cold standby)( With Supply of Transformer only)	2 Modules
8	Fan	Fan used for INV/SMR/AC-AC conv.	2 Nos.
9	Cells	2V Cells	5 Nos.

### **DETAILS OF TOOLS IN TOOLKIT WITH EACH IPS**

Note:- Every IPS shall be supplied along with tool kit and shall be placed inside the IPS rack in a suitable Bag/Box.

<b>SN</b>	<b>Description of Tools</b>	<b>Size</b>	<b>Make</b>	<b>Quantity</b>
1	Double ended spanner	6-7, 8-9, 10-11 & 12-13	Taparia	01 each
2	Box spanner	6-7, 8-9, 10-11 & 12-13	Taparia	01 each
3	Screw driver set (05 pieces)	6"	Taparia	01 set
4	Screw driver small/ aligner	--	Taparia	01
5	Screw driver big	12"	Taparia	01
6	Cutting plier	6"	Taparia	01
7	Nose plier	6"	Taparia	01
8	Plier	6"	Taparia	01
9	Adjustable Torque wrench	--	Taparia	01