

The list of special tools and testing and diagnostic equipment is provided in below table:

s.no.	Description	Make	Model	Quantity for		Total
				Laboratory	Field use	
1	AC Power Line Analyzer	HP	6800	1	1	2
2	Acoustic Level Test Set (20Hz to 20,000Hz)	HP	8903B	1	1	2
3	Adaptors/Bullets/Probes and Accessories	As required		2	1	3
4	AF Noise and Distortion Measuring Set (with selective level measuring facility)	HP	8903B	2	1	3
5	Audio Signal Generator	APLAB	2002	2	1	3
6	Cable Fault Locator	HP	3039	1	3	4
7	Calibrated Light Source			2	1	3
8	Digital Exchange Test Set for comprehensive Test and Measurements on Digital Exchanges complete with all accessories	W&G	VM-1	2		2
9	Digital Signal Generator			2	1	3
10	Digital Distortion Measuring Set			1	1	2
11	Earth Testing Kit			1	1	2
12	Field Strength/EMI Meter with test antennae, tripods, masts, connectors & accessories	R&S	ESA-1	1		1
13	Fusion Splicing Machine(with built-in microscope)			2		2
14	Insulation Testers (Megger – 500V DC)			1	1	2
15	Line Testing Equipment for Subscriber Lines and Telephone Sets			1	3	4
16	Multimeter - Digital (Hand-held)			3	4	7
17	Multimeter - Digital (High-precision)	R&S	UPSF2	1		1
18	Multimeter - Analog			3	2	5

19	Network Analyzer			1		1
20	Optical Adaptors, Directional Couplers, Test Cords, Patch Cords, etc.			4	4	8
21	Optical Attenuator Set (including variable optical attenuator)			4	4	8
22	Optical Power Meter			2	3	5
23	Optical Spectrum Analyzer			1		1
24	Optical Talk Set			2		2
25	Oscilloscope (100 MHz) - Dual Trace			2		2
26	OTDR			2	3	5
27	Pigtails (3m)			25	75	100
28	Power Supply(Regulated) (+/-)0-30 VDC, 10A	As required		2	1	3
29	Radio Test Set covering all trans-receive parameters as detailed in the TS			2		2
30	RF Attenuator Set			2	1	3
31	RF Cables	As required		2	1	3
32	RF Communications Test Set	HP	8920A	2		2
33	RF Milli-voltmeter for VoltageLevel and Power Measurements	R&S	URV-55	2		2
34	RF Power Meter with Reference Attenuator, Sensors, etc.(portable)			2	2	4
35	RF Signal Generator			2		2
36	RF Sweep Oscillator			2		2
37	Soldering Iron (25W) along with wire			6	4	10
38	Soldering Iron (50W) along with wire			6	4	10
39	Spanner Set			4	2	6
40	Spectrum Analyzer (RF)	R&S	FSA	2		2
41	Straight Joint			6	4	10

	Closures(for OF Cable) complete with end blocks, bushings, clamps, strength members, etc.					
42	Tool Kit for splicing, cutting tool & stripper, protection sleeve heater, etc.			4	4	8
43	Tool Kit (screw drivers, pliers, crimping tool, etc.)			4	4	8
44	In-Circuit IC Tester			2	1	3
45	Transistor Tester			1		1
46	Variac, Single-phase 240V AC (5 KVA)			2		2
47	Video Noise Meter 40 Hz-10 MHz	R&S	UPSF2	2		2
48	Video Signal Analyzer with printer	R&S	UAF	2		2
49	Video Test Signal Generator incorporating functions of video signal generator, noise generator, etc.	R&S	SPF-2	2		2
50	VSWR Meter with directional couplers, accessories, etc.			2		2
51	HV Tester					2
52	Tong Tester					10
53	RJ – 45/11					10
54	Ethernet Cable Tester					10

- All items of Special Tools, Testing and Diagnostic equipment supplied by the Contractor, shall be accompanied by drawings, manuals and full operating instructions in English to enable them to be used by suitably skilled (but not necessarily specially trained) personnel in a non-hazardous manner and to achieve the desired result in terms of accuracy and quality.
- The Contractor shall provide the means and instructions which describe the parameters of each item of Special Tools, Testing and Diagnostic Equipment that are critical to their proper methods of use and which enable the staff using the equipment to achieve the proper performance and operation. Demonstration of the use of these special tools, testing and diagnostic equipments to the satisfaction of the Employer shall be provided by the Contractor.