

Directorate of  
Police Wireless

Report on QRs/Specification of 24 Nos. of Test/Measuring Equipments

A Committee was Constituted vide Office Order No A.20011/1/2018-Admn I dated 25.06.2019 to frame QRs/Specification of 24 test/measuring instruments. In pursuance of above, the Committee held several meetings at DCPW HQrs in the Office of Deputy Director (Comm.).

2. Accordingly, the Committee has surveyed the availability of above mentioned test/measuring instruments in the local markets and after interaction with various suppliers of test/measuring instruments, the following Generic QRs/Specifications are recommended:

SL No.	Test/Measuring Equipments	Recommended QRs
1.	Programmable Function Generator, upto 6 GHz, Two channel	Annexure-1
2.	Audio Frequency Level Meter	Presently items are not available as stand alone in open market. Hence their generic QRs are not feasible at this stage. However, these are already the part of Digital Radio Communication Test Set.
3.	Hum and Noise Meter	
4.	SINAD/Distortion Meter	
5.	IP Packet analyzer	Packet Analyzer is an utility Software.
6.	Direction Finder Test Set	Complete test set-up is not available in one package form and it requires outdoor test set up. Hence, RFI may be floated ascertain the exact test set up and related other requirements.
7.	Stabilized variable Power Supply 0-30VDC 30A	Annexure-2
8.	Radio Frequency Power meter	Annexure-3
9.	Digital Video Signal Generator	Annexure-4
10.	GNSS Signal Generator (GPS Simulator)	Annexure-5
11.	Insulation Tester	Annexure-6
12.	Cable & Antenna Analyzer	Annexure-7
13.	Power Supply Tester	Annexure-8
14.	Battery Capacity Tester	Annexure-9 (a) & 9 (b)
15.	Through Line Watt Meter along with RF Elements HF/VHF/UHF 25Watt/100Watt	Annexure-10
16.	Multiport coaxial switch	Annexure-11
17.	LCR Meter	Annexure-12
18.	Current probes	Annexure-13
19.	Power Adapters	Annexure-14
20.	Line Impedance Stabilization Network (LISN)	Annexure-15
21.	Active Rod Antenna	Annexure-16
22.	Combiner	Annexure-17
23.	RF Combiner HF VHF UHF	

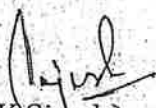


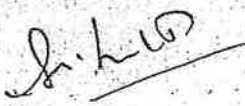
24.	Assorted Connectors, Adaptor and Cables	Category of Accessories and hence generic QRs are not available.
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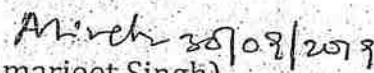
3. The Committee also recommends that the Central Workshop may decide the appropriate requirement of Assorted Connectors, Adaptors and cables required for the testing of Communication Equipments as conforming to the equipment to be tested / testing at appropriate stage.

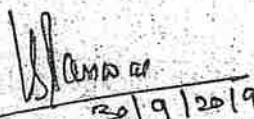
4. The generic QRs/Specifications in the form of recommendations are enclosed in the report from Annexure-1 to Annexure-17.

5. Further, the Committee is of the view that in order to have a state of the art testing facility, a turnkey project is better solution. For this, a Request for Proposal (RFP) may be floated.

  
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Annexure-3QRs of Radio Frequency Power Meter terminated

SL No.	Parameter	Specification Proposed
1	Frequency Range	2 MHz to 2GHz
2	Measurement Power Range	100 mW to 100 W
3	Type of connector	N type connector
4	Reading Measurement	Full scale QC type
5	Termination impedance	50ohms

