

## Annexure-1

### Specifications and accessories of Rohde & Schwarz FPH-B20:

#### 1. Specifications:

| S.No. | Parameter                                           | Specification                                                  |
|-------|-----------------------------------------------------|----------------------------------------------------------------|
| 1     | Frequency Range                                     | 5 KHz to 18 GHz or higher                                      |
| 2     | Frequency Span                                      | 10 Hz – 18 GHz                                                 |
| 3     | Frequency Counter resolution(min)                   | 1 Hz                                                           |
| 4     | SSB Phase Noise @ 10 KHz offset                     | Shall be less than -90 dBc/Hz at 1 GHz                         |
| 5     | Average Noise level displayed (@ 100HZRBW, 1Hz VBW) | <= -125 dBm for 3 to 13 GHz,<br><=-130 dBm for 10 MHz to 3 GHz |
| 6     | Sweep time @ span = 0 Hz                            | 20 ms to 1s                                                    |
| 7     | Resolution Bandwidth(- 3 dB)                        | 1 Hz to 3 MHz                                                  |
| 8     | Video BandWidth                                     | 1 Hz to 3 MHz                                                  |
| 9     | Operating temperature                               | 5 to 40 degree C                                               |
| 10    | Operating humidity                                  | 80 % RH @ 40 degree C                                          |
| 11    | Power requirement                                   | 230 ± 10 VAC , 50 Hz,<br>Rechargeable battery                  |

#### 2. Accessories:

| S.No | Part number         | Description                                   | Qty |
|------|---------------------|-----------------------------------------------|-----|
| 1    | FPH 1312.1111.13    | Handheld Spectrum Analyzer, 5 KHz to 13.6 GHz | 1   |
| 2    | FPH-B20 321 0773.02 | Frequency upgrade, 13.6GHz to 20GHz           | 1   |
| 3    | FPH-K71321.6175.00  | Analog modulation analysis AM, FM,ASK,FSK     | 1   |
| 4    |                     | N(m) to N(M) RF cable, 1m                     | 1   |
| 5    |                     | SMA(m) to SMA(M) RF cable, 1m                 | 1   |
| 6    |                     | BNC(m) to BNC(M) RF cable, 1m                 | 1   |
| 7    | HA Z220 309.6175.00 | Soft carrying bag                             | 1   |
| 8    |                     | Adaptor, Type-N(M) to BNC(F), DC to 3GHz      | 1   |
| 9    |                     | Adaptor, Type-N(M) to SMA(F), DC to 3GHz      | 1   |
| 10   |                     | Adaptor, Type-N(M) to BNC(M), DC to 18GHz     | 1   |

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