

|                                      |            |         |
|--------------------------------------|------------|---------|
| <b>General</b>                       | Unit       |         |
| User terminal type                   | -          | INM-C   |
| Emission Designator                  | -          | 5K00G1D |
| Data rate (kbps)                     | (kbps)     | 0.3     |
| Coding rate                          | -          | 0.5     |
| Modulation                           | -          | BPSK    |
| Carrier bandwidth                    | (kHz)      | 0.75    |
| Allocated bandwidth                  | (kHz)      | 5       |
| <b>Uplink</b>                        |            |         |
| Frequency                            | (GHz)      | 6.5     |
| Earth Station EIRP                   | (dBW)      | 58.1    |
| Antenna diameter                     | m          | 19.0    |
| Antenna tx gain                      | dBi        | 59.6    |
| Uplink power                         | (dBW)      | -1.5    |
| Uplink p.s.d. avgd. in 4 kHz         | (dBW/4kHz) | -1.5    |
| Path loss                            | (dB)       | 200.9   |
| Mean Atmospheric loss                | (dB)       | 0.4     |
| Satellite G/T                        | (dB/K)     | -10.4   |
| Up-path C/No                         | (dBHz)     | 75.0    |
| <b>Downlink</b>                      |            |         |
| Frequency                            | (GHz)      | 1.5     |
| Satellite EIRP                       | (dBW)      | 19.8    |
| Path loss                            | (dB)       | 188.4   |
| Mean Atmospheric loss                | (dB)       | 0.1     |
| User terminal G/T                    | (dB/K)     | -23.0   |
| Down-path C/No                       | (dBHz)     | 36.9    |
| <b>Total</b>                         |            |         |
| Mean satellite C/IMo                 | (dBHz)     | 52.3    |
| Co-Channel Interference              | (dBHz)     | 999.0   |
| Other system interference allocation | (dB)       | 1.0     |
| Mean Overall C/No                    | (dBHz)     | 35.8    |
| Mean Overall C/N                     | (dB)       | 7.0     |
| <b>Margin</b>                        |            |         |
| C/N objective                        | (dB)       | 3.5     |
| C/N margin                           | (dB)       | 3.5     |