Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services for the quarter ending September, 2014

| No. | 1. Parameters o. | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|-----|---|--------------------|----------------------------|---------|--------|------|-------|--------------------|-----|--------------|------------------|-----------|------|-----|----------|------|----------|
| | Service Activation / Provisioning | 95% success rate. | All Generations | 99.67 | 100 | | 99.99 | 98 | | 97 | | | | | | | |
| 2 | 2 Successful data transmission download attempts | >80% | All Generations | 100 | 100 | | 100 | 100 | | 100 | 100 | 100 | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | 100 | | 100 | | 100 | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | | | | 100 | | | | | | |
| | | | 3G | | 100 | | 100 | | | | | | | | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 62.14 | | 59 (Photon | | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | 573 (HSD) | | 1149 (Photon | | | | | | | |
| | | | | | | | | , , | | Plus) | | | | | | | |
| | | | 2G | 113.74 | 101 | | 115 | 69.5 (RNC_PayG) | | 63 (EDGE) | 121.17 (Plan 99) | 62.49 | | | | | |
| | | | 3G | 1587.2 | 861 | | 2175 | | | | | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 104.19 | | 71 (Photon | | | | | | | |
| 1 | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | | | | | | 849 (HSD) | | 1721 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 160.92 | 138 | | 126 | 145 (RNC_PayG) | | 89 (EDGE) | 153.42 (Plan 99) | 144.53 | | | | | |
| | | | 3G | 4338.35 | 1328 | | 4201 | | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 118 | | 133 | | | | | |
| | | | 2G (GSM) | 97.58 | 228 | | 141 | 177 | | | 139.42 | | | | | | |
| | | | 3G | 11.42 | 102 | | 25 | | | | | | | | | | |
| | | | CDMA | | | | | 160 | | | | | | | | | |
| | | | HSD | | | | | 61 | | | | | | | | | |
| 7 | 7 PDP Context Activation Success | ≥95% | All Generations | | | | | | | 97 | | 99.05 | | | | | |
| | Rate | | 2G (GSM) | 89.28 | 99.1 | | 99.69 | 99.91 | | | 99.78 | | | | | | |
| | | | 3G | 89.28 | 99.4 | | 96.58 | | | | | | | | | | |
| | | | CDMA | | | | | 97.53 | | | | | | | | | |
| | | | HSD | | | | | 97.53 | | | | | | | | | |
| 8 | B Drop rate : | ≤5% | All Generations | | | | | | | 0.8 | | 4.78 | | | | | |
| | | | 2G (GSM) | 1.49 | 0.7 | | 0.68 | 1.66 | | | 2.78 | | | | | | |
| | | | 3G | 1.05 | 0.7 | | 0.76 | | | | | | | | | | |
| | | | CDMA | | | | | 0.44 | | | | | | | | | |
| | | | HSD | | | | | 1.32 | | | | | | | | | |

| | Sl. No. | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|-------------------|------------|----------------------------------|--------------------|----------------------------|---------|--------|------|-------|------------|-------------------|--------------|------------------|-----------|------|-----|----------|------|----------|
| | NO. | | | reciniology | | | | | | | | | | | | | | |
| - | 1 | Service Activation /Provisioning | Within 4 hrs with | All Generations | 99.63 | 98 | | 99.99 | | 100 | | 99.95 | | | | | | |
| | • | | 95% success rate. | in denerations | 33.00 | ,,, | | 33.33 | | 100 | | 33.30 | | | | | | |
| | 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | | | | | | | | |
| | | download attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.53 | | | | | | |
| | | - | | 3G | | 100 | | | | 99.39 | | | | | | | | |
| | 3 | Successful data transmission | >75% | All Generations | 100 | | | | | | | | | | | | | |
| | | upload attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.37 | | | | | | |
| | | | | 3G | | 100 | | | | 99.74 | | | | | | | | |
| _ | 4 | | To be measured for | 2G | 131.41 | 110 | | 77 | | 58.23 | | 113.67 | | | | | | |
| san | | (Kbps) | each Plan and | | | | | | | (RNC_PayG) | | (Pack@699) | | | | | | |
| Ass | _ | | Reported to TRAI | 3G | 2821.58 | 1699 | | 105 | | 764.59 | | 170 (D. 1 0 000) | | | | | | |
| | 5 | Average Throughput for Packet | >75% of the | 2G | | 149 | | 127 | | 143.19 | | 173 (Pack@699) | | | | | | |
| | | data (Kbps) | subscribed speed. | 3G | | 3220 | | | | (RNC_PayG) | | | | | | | | |
| - | 6 | T | Data <250ms | 2G (GSM) | 100.83 | 236 | | 104 | | 1153.06 224.78 | | 137.33 | | | | | | |
| | U | Latency | Data \230III8 | 2G (GSM) 3G | 25.83 | 236 | | 104 | | 103.64 | | 137.33 | | | | | | |
| | 7 | PDP Context Activation Success | ≥95% | 2G (GSM) | 99.95 | 99.9 | | 99.74 | | 99.94 | | 98.03 | | | | | | |
| | , | Rate | | 3G | 99.95 | 99.9 | | 22.14 | | 98.78 | | 96.03 | | | | | | |
| - | 8 | | ≤5% | 2G (GSM) | 0.87 | 1.1 | | 0.13 | | 4.66 | | 2.25 | | | | | | |
| | 0 | Drop rate . | -070 | 3G | 0.62 | 0.5 | | 0.15 | | 0.76 | | 2.23 | | | | | | |
| | 1 | Service Activation /Provisioning | Within 4 hrs with | All Generations | 99.91 | 97 | | 99,99 | 99.5 | 100 | 96 | 100 | 100 | | | | | |
| | - | | 95% success rate. | | | 7. | | | 23.0 | -00 | 30 | 100 | | | | | | |
| | 2 | | >80% | All Generations | 100 | | | | 100 | | 100 | | 100 | | | | | |
| | | download attempts | | 2G (GSM) | | 99.8 | | 100 | | 100 | | 100 | | | | | | |
| | | | | 3G | | 99.8 | | | | 92.8 | | | | | | | | |
| | 3 | Successful data transmission | >75% | All Generations | 100 | | | | 100 | | 100 | | 100 | | | | | |
| | | upload attempts | | 2G (GSM) | | 99.7 | | 100 | | 100 | | 100 | | | | | | |
| | | | | 3G | | 99.7 | | | | 97.92 | | | | | | | | |
| | 4 | | To be measured for | CDMA | | | | | 99.27 | | 54 (Photon | | | | | | | |
| | | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | Reported to TRAI | | | | | | | | 772 (Photon | | | | | | | |
| | | | | | | | | | | | Plus) | | | | | | | |
| | | | | 2G | 130.75 | 136 | | 93 | | 108.93 | 62 (EDGE) | 137 | 111.5 | | | | | |
| | | | | | | | | | | (RNC_PayG) | | (VMC+VFL_3GB_ | | | | | | |
| | | | | | | | | | | | | 30d_2G_2G RC | | | | | | |
| - | | | | 3G | 2545.05 | 4400 | | | | 799.58 | | 199 Y_2G) | | | | | | |
| ane | 5 | Average Throughput for Packet | >75% of the | CDMA | 3545.85 | 4408 | | | 121.7 | 799.58 | 67 (Photon | | | | | _ | | |
| Ŕ | Э | | subscribed speed. | CDMA | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| haı | | data (KDPS) | subscribed speed. | | | | | | (KNC_FayG) | | 1151 (Photon | | | | | | | |
| , S | | | | | | | | | | | Plus) | | | | | | | |
| ä | | | | | | | | | | | 1143) | | | | | | | |
| Bihar & Jharkhand | | | | 2G | 181.75 | 193 | | 143 | | 180.24 | 105 (EDGE) | 169.13 | 144.7 | | | | | |
| ш. | | | | | | | | | | (RNC_PayG) | () | (VMC+VFL_3GB_ | | | | | | |
| | | | | | | | | | | 5 / | | 30d_2G_2G RC | | | | | | |
| | | | | | | | | | | | | 199 Y 2G) | | | | | | |
| | | | | 3G | 4959.77 | 4508 | | | | 1212.47 | | 22 2 20) | | | | | | |
| | 6 | Latency | Data <250ms | All Generations | | | | | | | 122.57 | | 120 | | | | | |
| | | | | 2G (GSM) | 101.63 | 245 | | 240 | | 150.04 | | 109 | | | | | | |
| | | | | 3G | 26.12 | 64 | | | | 35.05 | | | | | | | | |
| | | | | CDMA | | | | | 171.27 | | | | | | | | | |
| | 7 | | ≥95% | All Generations | | | | | | | 96.91 | | 99.05 | | | | | |
| | | Rate | | 2G (GSM) | 99.49 | 99.3 | | 99.73 | | 99.9 | | 99.84 | | | | | | |
| | | | | 3G | 99.49 | 100 | | | | 98.94 | | | | | | | | |
| | | | | CDMA | | | | | 97.53 | | | | | | | | | |
| | 8 | Drop rate : | ≤5% | All Generations | 0.55 | | | | | | 0.59 | | 3.8 | | | | | |
| | | | | 2G (GSM) | 0.73 | 4.6 | | 0.7 | | 4.89 | | 2.4 | | | | | | |
| | | | | 3G | 0.68 | 0.1 | | | 0.55 | 1.44 | | | | | | | | |
| | | | | CDMA | | | | | 0.52 | | | | | | | | | |

| C1 | . Parameters | Benchmarks | Generations/ | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Taan | Quadran |
|-----------|-----------------------------------|-----------------------------------|-----------------|---------|--------|------|------|-----|-----|------|----------------|-----------|------|-----|----------|------|---------|
| No. | | Benchmarks | Technology | Aircei | Airtei | BSNL | idea | RCL | RIL | TATA | vodaione | Telewings | MINL | MIS | videocon | Loop | Quadran |
| | | | | | | | | | | | | | | | | | |
| 1 | Service Activation / Provisioning | | All Generations | 99.14 | 100 | | | | | | 99.91 | | | | | | |
| | | 95% success rate. | | | | | | | | | | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | | | | | | | | |
| | download attempts | | 2G (GSM) | | 100 | | | | | | 100 | | | | | | |
| | | | 3G | | 100 | | | | | | 100 | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | | | | | | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | | | | | 100 | | | | | | |
| | | | 3G | | 100 | | | | | | 100 | | | | | | |
| 4 | Minimum download speed | To be measured for | 2G | 113.31 | 110 | | | | | | 88.29 (199 | | | | | | |
| | (Kbps) | each Plan and Reported to TRAI | | | | | | | | | Unlimited 2GB) | | | | | | |
| | | | 3G | 2067.68 | 1449 | | | | | | 1803.33 (650 | | | | | | |
| | | | | | | | | | | | Unlimited 3GB) | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | 2G | 177.54 | 195 | | | | | | 170.18 (199 | | | | | | |
| | data (Kbps) | subscribed speed. | | | | | | | | | Unlimited 2GB) | | | | | | |
| | | | 3G | 3561.93 | 4339 | | | | | | 2366.67 (650 | | | | | | |
| | | | | | | | | | | | Unlimited 3GB) | | | | | | |
| 6 | Latency | Data <250ms | 2G (GSM) | 82.22 | 214 | | | | | | 113.67 | | | | | | |
| | | | 3G | 27.33 | 44 | | | | | | | | | | | | |
| 7 | PDP Context Activation Success | ≥95% | 2G (GSM) | 96.63 | 100 | | | | | | 99.79 | | | | | | |
| | Rate | | 3G | 96.63 | 100 | | | | | | | | | | | | |
| | | | CDMA | | | | | | | | 99.65 | | | | | | |
| 8 | Drop rate : | ≤5% | 2G (GSM) | 0.86 | 0.7 | · | | | | | 2.62 | | | | | | |
| | | | 3G | 1.07 | 0.2 | · | | | | | | | | | | | |
| | | | CDMA | | | | | | | | 0.83 | | | | | | |

| S1 No | . Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrar |
|----------|----------------------------------|--------------------|----------------------------|--------|--------|------|-------|--------------|-----|----------------------|-------------------------------|-----------|--------|------------------------|----------|------|---------|
| 1 | Service Activation /Provisioning | Within 4 hrs with | All Generations | 99.58 | 99 | | 100 | 100 | | 92 | 99.71 | | 99.99 | | | | |
| | | 95% success rate. | | | | | | | | | | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | 100 | | 100 | | | | 99.8 | | | |
| | download attempts | | 2G (GSM) | | 99.2 | | 100 | | | | 99.61 | | 98.87 | | | | |
| | | | 3G | | 99.3 | | | | | | 99.31 | | 99.47 | | | | |
| | | | CDMA | | | | | | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | 100 | | 100 | | | | | | | |
| | upload attempts | | 2G (GSM) | | 99.9 | | 100 | | | | 99.79 | | 97.22 | | | | |
| | | | 3G | | 97.1 | | | | | | 99.42 | | 99.44 | | | | |
| | | | CDMA | | | | | | | | | | | 99.8 | | | |
| 4 | | To be measured for | CDMA | | | | | 58.18 | | 78 (Photon | | | | 734 | | | |
| | (Kbps) | each Plan and | | | | | | (RN_PayG) | | Whiz) | | | | (Mblaze) | | | |
| | | Reported to TRAI | | | | | | | | 1658 Photon Plus) | | | | 1244 (Mblaze Ultra) | | | |
| | | | | | | | | | | 2408 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 71.2 | 65 | | 94 | 68.63 | | | 73.78 (Rs 125 | | 20.65 | | | | |
| | | | | | | | | (RNC_PayG) | | | Rental plan with 1GB free) | | | | | | |
| | | | 3G | | 2013 | | | 1721.82 (5GB | | | 1042 (Rs 250 | | 379.85 | | | | |
| | | | | | | | | Unlimited) | | | Rental plan with 1GB free) | | | | | | |
| | | | HSD | | | | | 603.51 | | | · | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 114.92 | | 84 (Photon | | | | 1227 | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | (Mblaze) | | | |
| | | | | | | | | | | 2117 (Photon | | | | 2348 | | | |
| | | | | | | | | | | Plus) | | | | (Mblaze Ultra) | | | |
| | | | | | | | | | | 3530 (Photon Max) | | | | | | | |
| | | | 2G | 96.65 | 105 | | 149 | 136.27 | | (VIAA) | 139.4 (Rs 125 | | 86.31 | | | | |
| | | | 20 | 50.00 | 100 | | 117 | (RNC_PayG) | | | Rental plan with | | 00.01 | | | | |
| | | | | | | | | (Idio_I aya) | | | 1GB free) | | | | | | |
| | | | 3G | | 2262 | | | 2821.41 (5GB | | | 4098.3 (Rs 250 | | 529.97 | | | | |
| | | | | | | | | Unlimited) | | | Rental plan with | | | | | | |
| | | | | | | | | , | | | 1GB free) | | | | | | |
| | | | HSD | | | | | 739.27 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 65.3 | | | 128.33 | | | | |
| 1 | _ | | 2G (GSM) | 145.22 | 230 | | 116 | 134.73 | | | 163.67 | | | | | | |
| | | | 3G | | 84 | | | 23.49 | | | 61.45 | | | | | | |
| | | | HSD | | | | | 43.76 | | | | | | | | | |
| | | | CDMA | | | | | 161.19 | | | | | | 64 | | | |
| 7 | PDP Context Activation Success | ≥95% | All Generations | | | | | | | 95.3 | | | 93.99 | | | | |
| | Rate | | 2G (GSM) | 99.35 | 99.9 | | 99.03 | 99.98 | | | 99.79 | | | | | | |
| | | | 3G | | 100 | | | 99.26 | | | 99.2 | | | | | | |
| | | | HSD | | | | | 98.06 | | | | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | 99.3 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 1.28 | | | 1.77 | | | | |
| l | | | 2G (GSM) | 1.03 | 1 | | 1.5 | 3.33 | | | 0.9 | | | | | | |
| | | | 3G | | 0.8 | | | 0.74 | | | 0.75 | | | | | | |
| | | | HSD | | | | | 0.53 | | | | | | | | | |
| 1 | | | CDMA | | | | | 0.51 | | | | | | 1.6 | | | |

| SI | . Parameters | Benchmarks | Generations/ | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|----|--|--------------------|-----------------------------|--------|--------|------|-------|---------------|-----|----------------------|-----------------|-----------|------|----------------|----------|------|----------|
| No |). | | Technology | | | | | | | | | | | | | | |
| 1 | Service Activation /Provisioning | Within 4 hrs with | All Generations | 98.98 | | | 100 | 97 | | 97 | 99.76 | 100 | | | | | |
| | | 95% success rate. | | l | | | | | | | | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 95.56 | | | | | | 100 | | 100 | | | 95.8 | | |
| | download attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 99.62 | | | | | | |
| | | | 3G | | | | 100 | | | | 100 | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| L | | BEO/ | CDMA | 04.00 | | | | 100 | | 100 | | 100 | | 100 | | | |
| 3 | Successful data transmission | >75% | All Generations 2G (GSM) | 94.28 | 99.9 | | 100 | 100 | | 100 | 98.43 | 100 | | | 92.82 | | |
| | upload attempts | | 2G (GSM) 3G | | 99.9 | | 100 | 100 | | | 98.43 | | | | | | |
| | | | HSD | | | | 100 | 100 | | | 99.08 | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 76.24(RNC_Pay | | 66 (Photon | | | | 896 (Mblaze) | | | |
| Ι. | (Kbps) | each Plan and | CDIMI | | | | | G) | | Whiz) | | | | OSO (MDIADO) | | | |
| | (-1 -7 | Reported to TRAI | | | | | | - / | | 484 (Photon | | | | 2091 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 861 (Photon | | | | , | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 129.39 | 52 | | 94 | | | 107 (EDGE) | 35.87 (2G MI199 | 65.47 | | | 90.09 | | |
| | | | | | | | | (RNC_PayG) | | |) | | | | | | |
| | | | 3G | | | | 1853 | | | | 2072.33 (3G | | | | | | |
| | | | | | | | | | | | MI850) | | | | | | |
| | | | | | | | | | | 1701 (Photon | | | | | | | |
| | | | | | | | | | | 3G) 3239 (Photon | | | | | | | |
| | | | | | | | | | | 3239 (Photon 3G+) | | | | | | | |
| -5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 11.23 | | 82 (Photon | | | | 1619 (Mblaze) | | | |
| | data (Khns) | subscribed speed. | CDMA | | | | | (RNC PayG) | | Whiz) | | | | 1019 (Wibiaze) | | | |
| | Average Throughput for Packet data (Kbps) | subscribed speed. | | | | | | (rave_raya) | | 795 (Photon | | | | 3174 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 1294 (Photon | | | | · · | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 177.47 | 95 | | 158 | 142.45 | | 123 (EDGE) | 108.43 (2G | 122.29 | | | 180 | | |
| | | | | | | | | (RNC_PayG) | | | MI199) | | | | | | |
| | | | 3G | | | | 4148 | | | | 4615 (3G MI850) | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 2420 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| 1 | | | | | | | | | | 4074 (Photon 3G+) | | | | | | | |
| | | | HSD | | | | | 862.94 | | 3G+) | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | 302.94 | | 67.8 | | 180 | | | 242 | | |
| ľ | | | 2G (GSM) | 97.96 | 233 | | 116 | 248.1 | | 37.0 | 138.17 | 130 | | | 212 | | |
| | | | 3G | 31.50 | 200 | | 86 | | | | 28.67 | | | | | | |
| | | | HSD | | | | | 51.34 | | | | | | | | | |
| l | | | CDMA | | | | | 191.23 | | | | | | 101 | | | |
| 7 | | ≥95% | All Generations | | | | | | | 97.6 | | 99.05 | | | 99.94 | | |
| | Rate | | 2G (GSM) | 96.63 | 99.3 | | 99.98 | 99.91 | | | 99.89 | | | | | | |
| | | | 3G | | | | 99.92 | | | | 99.78 | | | | | | |
| l | | | HSD | | | | | 98.06 | | | | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | 98.1 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 1.4 | | 4.45 | | | 1.97 | | |
| | | | 2G (GSM) | 0.63 | 2.3 | | 0.25 | 1.113 | | | 2.87 | | | | | | |
| l | | | 3G | | | | 0.93 | 0.55 | | | 0.49 | | | | | | |
| ı | | | HSD | | | | | 0.37 | | | | | | | | | |
| | | | CDMA | | | | | 0.243 | | | | | | 1.2 | | | |

| S1. No. | Parameters . | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrar |
|------------|-----------------------------------|----------------------------------|----------------------------|--------|--------|------|-------|------------|----------------|--------------------|----------------|-----------|------|-----|----------|------|---------|
| 1 | Service Activation / Provisioning | | All Generations | 99.95 | 100 | | 99.99 | 100 | 100 | 95 | 99.89 | | | | | | |
| | | 95% success rate. | | | | | | | | | | | | | | | 4 |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | 99.9 | | | | | | | 4 |
| | download attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.42 | | | | | | 4 |
| | | | 3G | | 100 | | 100 | | 100 | | | | | | | | 4 |
| _ | | 750/ | CDMA | 100 | | | | 100 | | 00.0 | | | | | | | 4 |
| 3 | Successful data transmission | >75% | All Generations | 100 | 100 | | 100 | | 100 | 99.9 | 00.04 | | | | | | 4 |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 98.94 | | | | | | 4 |
| | | | 3G | | 100 | | 100 | | 100 | | | | | | | | 4 |
| 4 | 36 1 1 1 1 | m 1 1 C | CDMA | | | | | 100 | | 4.4 (D) | | | | | | | 4 |
| 4 | Minimum download speed | To be measured for each Plan and | CDMA | | | | | 108.21 | | 44 (Photon | | | | | | | |
| | (Kbps) | | | | | | | (RNC_PayG) | | Whiz) | | | | | | | _ |
| | | Reported to TRAI | | | | | | | | 478 (Photon | | | | | | | A . |
| | | | 2G | 79.79 | 82 | | 110 | | 83.84(RNC_Pa | Plus) 67 (EDGE) | 104.81 (Talk | | | | | | |
| | | | 2G | 79.79 | 82 | | 110 | | | 67 (EDGE) | | | | | | | |
| | | | 3G | | 895 | | 1555 | | yG) 1067.73 | | invitation 50) | | | | | | _ |
| _ | Average Throughput for Packet | >75% of the | CDMA | | 695 | | 1555 | 123.7 | 1007.73 | 66 (Photon | | | | | | | _ |
| Э | | subscribed speed. | CDMA | | | | | (RNC PayG) | | Whiz) | | | | | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | 656 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 131.43 | 173 | | 149 | | 130.18 | 115 (EDGE) | 163.64 (Talk | | | | | | 4 |
| | | | 20 | 131.43 | 173 | | 149 | | (RNC_PayG) | 113 (EDGE) | invitation 50) | | | | | | |
| | | | 3G | | 1833 | | 2885 | | 2370.16 | | mvitation 50) | | | | | | + |
| 6 | Latency | Data <250ms | All Generations | | 1055 | | 2003 | | 2370.10 | 133.36 | | | | | | | + |
| U | Latericy | Data \250iiis | 2G (GSM) | 134.33 | 233 | | 113 | | 138.52 | 133.30 | 104.4 | | | | | | _ |
| | | | 3G | 101.00 | 157 | | 90 | | 99.03 | | 101.1 | | | | | | + |
| | | | CDMA | | 107 | | 50 | 175.74 | 33.00 | | | | | | | | + |
| 7 | PDP Context Activation Success | ≥95% | All Generations | | | | | 170.74 | | 97.26 | | | | | | | |
| • | Rate | | 2G (GSM) | 98.44 | 99.6 | | 99.7 | | 99.87 | 51.20 | 99.84 | | | | | | |
| | | | 3G | 30.11 | 100 | | 96.95 | | 98.91 | | 33.01 | | | | | | 1 |
| | | | CDMA | | 100 | | 30.30 | 97.53 | 30.51 | | | | | | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | 200 | | 2.09 | | | | | | | |
| - | | | 2G (GSM) | 0.66 | 1.2 | | 0.74 | | 4.52 | 2.03 | 2.42 | | | | | | |
| | | | 3G | 2.00 | 0.6 | | 1.22 | | 0.63 | | 2.12 | | | | | | |
| | | | CDMA | | | | -122 | 0.25 | 3.00 | | | | | | | | - |

| S1. | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|-----|---|--------------------|-----------------------------|--------|--------|------|-------|-------------|-----|------------------|--------------|-----------|------|-----|----------|------|----------|
| | | | | | | | | | | | | | | | | | |
| 1 | Service Activation / Provisioning | | All Generations | 77.53 | | | 100 | 100 | | 98 | 99.59 | | | | | | |
| - | | 95% success rate. | A11 C | 05.00 | | | | | | 100 | | | | | 06.00 | | |
| 2 | | >80% | All Generations | 95.93 | 100 | | 99.99 | 99.95 | | 100 | 100 | | | | 96.39 | | |
| | download attempts | | 2G (GSM) 3G | | 100 | | 100 | 99.95 | | | 99.83 | | | | | | |
| | | | HSD | | | | 100 | 100 | | | 99.03 | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 92.64 | | | | 100 | | 99.9 | | | | | 94.33 | | |
| | upload attempts | | 2G (GSM) | 32.01 | 100 | | 100 | 100 | | 33.3 | 99.83 | | | | 31.00 | | |
| | | | 3G | | | | 100 | | | | 100 | | | | | | |
| | | | HSD | | | | | 99.95 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 71.07 | | 41.8 (Photon | | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 344 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 92.84 | 76 | | 81 | 66.98 | | 41.14 (EDGE) | 69.45 (30MB | | | | 23 | | |
| | | | | | | | | (RNC_PayG) | | | with Rs5) | | | | | | |
| | | | 3G | | | | 2283 | | | 1307.6 | 3354.17 | | | | | | |
| | | | | | | | | | | (Photon 3G) | (1GB@Rs 250) | | | | | | |
| ĺ | | | | | | | | | | 1642.7 | | | | | | | |
| | | | | | | | | | | (Photon 3G) | | | | | | | |
| | | | | | | | | | | 3558 (Photon | | | | | | | |
| | | | HSD | | | | | 716.62 | | 3G+) | | | | | | | |
| - 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 109.41 | | 68.2 (Photon | | | | | | | |
| 3 | data (Khne) | subscribed speed. | CDMA | | | | | (RNC_payG) | | Whiz) | | | | | | | |
| | data (Kops) | subscribed speed. | | | | | | (RNC_payd) | | 1196.2 | | | | | | | |
| | Average Throughput for Packet data (Kbps) | | | | | | | | | (Photon Plus) | | | | | | | |
| | | | | | | | | | | (1 Hotoli 1 Ido) | | | | | | | |
| | | | 2G | 144.57 | 146 | | 148 | 98.36 | | 66.57 (EDGE) | 115.14 (30MB | | | | 112 | | |
| | | | | | | | | (RNC_PayG) | | , , | with Rs5) | | | | | | |
| | | | 3G | | | | 3584 | \ -= -5 - / | | 1786.3 | 5034.48 | | | | | | |
| | | | | | | | | | | (Photon 3G) | (1GB@Rs 250) | | | | | | |
| | | | | | | | | | | 2326.9 | | | | | | | |
| | | | | | | | | | | (Photon 3G) | | | | | | | |
| | | | | | | | | | | 4874.7 | | | | | | | |
| | | | | | | | | | | (Photon 3G+) | | | | | | | |
| | | | HSD | | | | | 921.89 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 97.5 | | | | | 242 | | |
| | | | 2G (GSM) | 145.77 | 242 | | 134 | 104.29 | | | 127.72 | | | | | | |
| | | | 3G | | | | 40 | | | | 33.19 | | | | | | |
| | | | HSD | | | | | 44.46 | | | | | | | | | |
| L, | DDD C + + + + + · · · · · · · · · · · · · · | - 050/ | CDMA | | | | | 170.32 | | | | | | | 00.10 | | |
| · ' | PDP Context Activation Success Rate | ≥95% | All Generations 2G (GSM) | 100 | 99.9 | | 99.05 | 99.98 | | 98 | 99.75 | | | | 98.42 | | |
| | Rate | | 2G (GSM) 3G | 100 | 99.9 | | 99.05 | 99.98 | | | 99.75 | | | | | | |
| | | | HSD | | | | 90.80 | 98.06 | | | 99.51 | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | | | | |
| R | Drop rate : | ≤5% | All Generations | | | | | 96.00 | | 1 | | | | | 1.73 | | |
| J | Diop rate . | 2070 | 2G (GSM) | 0 | 0.7 | | 0.87 | 2.34 | | 1 | 3.06 | | | | 1.73 | | |
| | | | 3G | U | 5.1 | | 1.96 | 2.51 | | | 1.06 | | | | | | |
| | | | HSD | | | | 1.50 | 0.43 | | | 2.00 | | | | | | |
| | | | CDMA | | | | | 0.38 | | | | | | | | | |

| S1. No. | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadra |
|------------|---|---|----------------------------|---------|--------|------|-------|----------------------|-----|------|--------------------------|-----------|------|-----|----------|------|--------|
| 1 | | Within 4 hrs with 95% success rate. | All Generations | 99.64 | 99 | | 99.97 | 100 | | | 99.83 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | | | | | | | | |
| | download attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 95.25 | | | | | | |
| | | | 3G | | 100 | | 100 | 100 | | | | | | | | | |
| | | | CDMA | | | | | | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | | | | | | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 94.38 | | | | | | |
| | | | 3G | | 100 | | 100 | 100 | | | | | | | | | |
| | | | CDMA | | | | | | | | | | | | | | 4 |
| 4 | Minimum download speed (Kbps) | To be measured for each Plan and Reported to TRAI | CDMA | | | | | | | | | | | | | | |
| | | • | 2G | 182.89 | 175 | | 119 | 80.16 (RNC_PayG) | | | 64.97 (Plan- 99_1GB) | | | | | | |
| | | | 3G | 2679.43 | 2058 | | 2900 | 2562.06 (5GB UL) | | | | | | | | | |
| | Average Throughput for Packet data (Kbps) | >75% of the subscribed speed. | CDMA | | | | | | | | | | | | | | |
| | | | 2G | 205.72 | 205 | | 155 | 195.16 (RNC_PayG) | | | 115.96 (Plan- 99_1GB) | | | | | | |
| | | | 3G | 3154.49 | 2328 | | 3680 | 3913.29 (5GB_UL) | | | | | | | | | |
| 6 | Latency | Data <250ms | 2G (GSM) | 148.55 | 197 | | 107 | 108.63 | | | 169.16 | | | | | | 4 |
| | | | 3G | 104.87 | 113 | | 81 | 42.86 | | | | | | | | | |
| | | | CDMA | | | | | | | | | | | | | | |
| | PDP Context Activation Success | ≥95% | 2G (GSM) | 99.97 | 100 | | 99.27 | 99.98 | | | 99.95 | | | | | | |
| | Rate | | 3G CDMA | 99.97 | 100 | | 98.17 | 99.26 | | | | | | | | | |
| 8 | Drop rate : | ≤5% | 2G (GSM) | 1.4 | 0.9 | | 0.18 | 2.47 | | | 2.38 | | | | | | |
| | _ | | 3G | 0.86 | 0.4 | | 0.6 | 0.99 | | | | | | | | | |
| | | | CDMA | | | | | | · | | | | | · | | | |

| S1. No | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|-----------|--------------------------------|-------------------------------------|----------------------------|---------|--------|------|-------|---|-------------|--------------|------------------------------|-----------|------|--------------|----------|------|---------|
| | | | | | | | | | | | | | | | | | |
| 1 | | Within 4 hrs with 95% success rate. | All Generations | 99.56 | | | 99.92 | 99.5 | 100 | 92 | 96.33 | | | | | | |
| 2 | | >80% | All Generations | 100 | | | | | | 100 | | | | | | | |
| | download attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.97 | | | | | | |
| | · · | | 3G | | | | | | 100 | | 99.97 | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | 1 | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | | | 99.95 | | | | | | | |
| | upload attempts | | 2G (GSM) | | | | 100 | | 100 | | 99.98 | | | | | | |
| | | | 3G | | 100 | | | | 100 | | 99.97 | | | | | | |
| | | | HSD | | | | | 99.68 | | | | | | | | | |
| | | | CDMA | | | | | 99.68 | | | | | | 100 | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 106.1 | | 49 (Photon | | | | 341 (Mblaze | | | |
| | | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | 0 . 1 (| | | |
| | | Reported to TRAI | | | | | | (====================================== | | 816 (Photon | | | | 1046 (Mblaze | | | |
| | | reported to 11d ii | | | | | | | | Plus) | | | | Ultra | | | |
| | | | | | | | | | | 1151 (Photon | | | | Olifa | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 96.55 | 144 | | 112 | | 89.08 | 30 (EDGE) | | | | | | | |
| | | | 20 | 30.00 | | | | | (RNC_PayG) | 00 (22 02) | PayG Unlimited) | | | | | | |
| | | | | | | | | | (ravo_raya) | | raya ommica, | | | | | | |
| | | | 3G | 1756.9 | | | | | | | 1520.57 | | | | | | |
| | | | 50 | 1700.5 | | | | | 1683.26 | | (Postpaid PayG | | | | | | |
| | | | | | | | | | 1000.20 | | Unlimited) | | | | | | |
| | | | HSD | | | | | 770.66 | | | Ciminica | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 123.79 | | 70 (Photon | | | | 981 (Mblaze | | | |
| J | | subscribed speed. | CDMA | | | | | (RNC_PayG) | | Whiz) | | | | 901 (Wiblaze | | | |
| 5 | data (Ropo) | subscribed speed. | | | | | | (rave_raya) | | 1228 (Photon | | | | 2011 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra | | | |
| | | | | | | | | | | i iusj | | | | Oitia | | | |
| | | | | | | | | | | 1921 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 157.51 | 190 | | 147 | | 146.52 | | 150.38 (Postpaid | | | | | | |
| | | | 20 | 137.31 | 190 | | 147 | | (RNC_PayG) | 100 (EDGE) | PayG Unlimited) | | | | | | |
| | | | | | | | | | (KNC_FayG) | | rayG Oliminicu) | | | | | | |
| | | | 3G | 3413.82 | | | | | | | 5121.27 | | | | | | |
| | | | 30 | 3413.62 | | | | | 2293.74 | | | | | | | | |
| | | | | | | | | | 2293.14 | | (Postpaid PayG Unlimited) | | | | | | |
| | | | HOD | | | | | 075.70 | | | Unlimited) | | | | | | |
| 6 | Latonov | Data <250ms | HSD All Generations | | | | | 975.79 | | 104.47 | | | | | | | |
| О | Latency | Data <200IIIS | 2G (GSM) | 123.22 | 221 | | 141 | | 00 | 104.47 | 102.01 | | | | | | |
| | | | | | 221 | | 141 | | 96 | | 103.21 | | | | | | |
| | | | 3G | 23.11 | | | | , . | 34 | | 49.56 | | | | | | |
| | | | HSD | | | | | 162.66 | | | | | | | | | |
| _ | DDD C + + A - : - : - C | - 050/ | CDMA | | | | | 163.66 | | 00.11 | | | | 54 | | | |
| 7 | PDP Context Activation Success | ≥95% | All Generations | 00.57 | 0.0 | | 00.15 | | 0.5 | 98.12 | | | | | | | |
| | Rate | | 2G (GSM) | 99.97 | 99.6 | | 99.13 | | 99.9 | | 99.69 | | | | | | |
| | | | 3G | 99.97 | | | | Om | 98.94 | | 99.32 | | | | | | |
| | | | HSD | | | | | 97.53 | | | | | | | | | |
| _ | | -50/ | CDMA | | | | | 97.53 | | | | | | 98.1 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 1.42 | | | | | | | |
| | | | 2G (GSM) | 0.96 | 3.8 | | 0.52 | | 4.89 | | 1.81 | | | | | | |
| | | | 3G | 0.79 | | | | | 0.65 | | | | | | | | |
| | | | HSD | | | | | 0.59 | | | | | | | | | |
| | | | CDMA | | | | | 0.2 | | | 0.69 | | | 0.9 | | | |

| No. | il. Parameters o. | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|-----|---|--------------------|-----------------------------|----------------|--------|------|----------------|----------------|-----|--------------|----------------|-----------|------|---------------|----------|------|---------|
| | | | | | | | | | | | | | | | | | |
| 1 | | | All Generations | 81.53 | | | 100 | 100 | | 98 | 99.9 | | | | | | |
| L | | 95% success rate. | A11 C | 100 | | | | | | 100 | | | | | | | |
| 2 | Successful data transmission download attempts | >80% | All Generations 2G (GSM) | 100 | 100 | | 100 | 99.92 | | 100 | 99.36 | | | | | | |
| | download attempts | | 3G | | 100 | | 100 | 99.92 | | | 99.30 | | | | | | |
| | | | HSD | | | | 100 | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 3 | 3 Successful data transmission | >75% | All Generations | 99.5 | | | | | | 100 | | | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 98.63 | | | | | | |
| | | | 3G | | | | 100 | | | | | | | | | | |
| | | | HSD | | | | | 99.56 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 4 | | To be measured for | CDMA | | | | | 68.67 | | 79 (Photon | | | | 1007 (Mblaze) | | | |
| | | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 573 (Photon | | | | 1244 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 674 (Photon | | | | | | | |
| | | | 2G | 33.53 | 64 | | 105 | 116.61 | | Max) | 58.06 (3GB VMC | | | | | | |
| | | | 2G | 33.33 | 04 | | 105 | (RNC_PayG) | | OU (EDGE) | 199 plan) | | | | | | |
| | | | 3G | 1006.58 | | | 2122 | (RNC_PayG) | | | 199 pian) | | | | | | |
| | | | 30 | 1000.38 | | | 2122 | | | 944 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | | | | | | | | 2181 (Photon | | | | | | | |
| | | | | | | | | | | 3G+) | | | | | | | |
| | | | HSD | | | | | 440.94 | | | | | | | | | |
| 5 | 5 Average Throughput for Packet | >75% of the | CDMA | | | | | 108.37 | | 82 (Photon | | | | 1681 (Mblaze) | | | |
| 5 | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | | | | | | | | 1725 (Photon | | | | 2675 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 2015 (77) | | | | | | | |
| | | | | | | | | | | 2816 (Photon | | | | | | | |
| | | | 2G | 176.53 | 131 | | 130 | 189.58 | | Max) | 98.33 (3GB VMC | | | | | | |
| | | | 20 | 170.33 | 131 | | 130 | (RNC_PayG) | | 114 (EDGE) | 199 plan) | | | | | | |
| | | | 3G | 2217.44 | | | 3185 | (ICIVC_I ayCI) | | | 199 pian | | | | | | |
| | | | 50 | 2217.11 | | | 5105 | | | 3099 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | | | | | | | | 6089 (Photon | | | | | | | |
| | | | | | | | | | | 3G+) | | | | | | | |
| L | | | HSD | | | | | 777.23 | | | | | | | | | |
| 6 | 5 Latency | Data <250ms | All Generations | | | | | | | 75.8 | | | | | | | |
| 1 | | | 2G (GSM) | 81.17 | 215 | | 134 | 147.13 | | | 196 | | | | | | |
| ı | | | 3G | 25.83 | | | 62 | | | | | | | | | | |
| 1 | | | HSD | | | | | 47.16 | | | | | | | | | |
| L | 7 DDD 0 4 4 4 2 2 2 | >OE0/ | CDMA | | | | | 181.18 | | 00. | | | | 79 | | | |
| 7 | | ≥95% | All Generations | 06.60 | 100 | | 00.60 | 99.91 | | 98.4 | 00.04 | | | | | | |
| | Rate | | 2G (GSM) 3G | 96.63 96.63 | 100 | | 99.62 98.65 | 99.91 | | | 99.84 | | | | | | |
| ı | | | HSD | 90.03 | | | 90.05 | 95.57 | | | | | | | | | |
| ı | | | CDMA | | | | | 95.57 | | | | | | 98.6 | | | |
| Я | B Drop rate : | ≤5% | All Generations | | | | | 50.01 | | 1.1 | | | | 98.0 | | | |
| ΙĬ | | | 2G (GSM) | 2.07 | 0.7 | | 0.73 | 3.28 | | 1.1 | 3.55 | | | | | | |
| | | | 3G | 0 | | | 2.84 | | | | | | | | | | |
| | | | HSD | | | | | 0.82 | | | | | | | | | |
| | 1 | | CDMA | | | | | 0.58 | | | | | | 1.6 | | | |

| S1. | . Parameters | Benchmarks | Generations/ | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|-----|----------------------------------|--|-----------------------------|---------|--------|------|-------|------------|-----|---------------|-------------------------|-----------|------|--------------|----------|------|----------|
| No |). | | Technology | | | | | | | | | | | | | | |
| 1 | Service Activation /Provisioning | Within 4 hrs with 95% success rate. | All Generations | 99.59 | 100 | | 100 | 96.33 | | 98 | 99.08 | | | | | | |
| 2 | | >80% | All Generations | 99.53 | | | | | | 100 | | | | | | | |
| 2 | download attempts | >00% | 2G (GSM) | 99.53 | 100 | | 100 | 100 | | 100 | 98.73 | | | | | | |
| | download attempts | | 3G | | 100 | | 100 | 100 | | | 90.13 | | | | | | |
| | | | HSD | | 100 | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 3 | Successful data transmission | >75% | All Generations | 99.97 | | | | 100 | | 100 | | | | 100 | | | |
| ľ | upload attempts | . 1070 | 2G (GSM) | 33.31 | 100 | | 100 | 100 | | 100 | 98.1 | | | | | | |
| | | | 3G | | 100 | | | | | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 57.29 | | 48 (Photon | | | | 566 (Mblaze |) | | |
| | | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 376 (Photon | | | | 1030 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra |) | | |
| | | | | | | | | | | 1107.33 | | | | | | | |
| | | | | | | | | | | (Photon Max) | | | | | | | |
| | | | 2G | 139.13 | 90 | | 122 | | | 50.64 (EDGE) | 76.47 (2 GB | | | | | | |
| | | | | | | | | (RNC_PayG) | | | unlimited @ MRP | | | | | | |
| | | | 20 | 2202.04 | 1067 | | | | | | 199) | | | | | | |
| | | | 3G | 3382.84 | 1067 | | | | | 818 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | | | | | | | | 827 (Photon | | | | | | | |
| | | | | | | | | | | 3G+) | | | | | | | |
| | | | HSD | | | | | 439.54 | | 00.7 | | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 104.13 | | 67.91 (Photon | | | | 1174 (Mblaze | | | |
| | | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| 1 | | • | | | | | | ` - ' 1 | | 1 | | | | | | | |
| 5 | | | | | | | | | | 1155.67 | | | | 1870 (Mblaze | : | | |
| į | | | | | | | | | | (Photon Plus) | | | | Ultra |) | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1750.67 | | | | | | | |
| | | | | | | | | | | (Photon Max) | | | | | | | |
| | | | 2G | 178.4 | 125 | | 159 | 94.93 | | 101.71 (EDGE) | 171.39 (2 GB | | | | | | |
| | | | | | | | | (RNC_PayG) | | | unlimited @ MRP 199) | | | | | | |
| | | | 3G | 5159.58 | 1789 | | | | | | 199) | | | | | | |
| | | | 30 | 3139.36 | 1709 | | | | | 2342 | | | | | | | |
| | | | | | | | | | | (Photon3G) | | | | | | | |
| | | | | | | | | | | 2323 | | | | | | | |
| | | | | | | | | | | (Photon3G+) | | | | | | | |
| | | | HSD | | | | | 997.98 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 80.8 | | | | | | | |
| | | | 2G (GSM) | 85.17 | 166 | | 142 | 211.86 | | | 189 | | | | | | |
| | | | 3G | 31.76 | 67 | | | | | | | | | | | | |
| | | | HSD | | | | | 48.2 | | | | | | | | | |
| | | | CDMA | | | | | 196.82 | | | | | | 153 | 5 | | |
| 7 | | ≥95% | All Generations | | | | | | | 98.7 | | | | | | | |
| | Rate | | 2G (GSM) | 96.63 | 97.4 | | 99.85 | 97.15 | | | 99.88 | | | | | | |
| | | | 3G | 96.63 | 97.5 | | | 05.55 | | | | | | | | | |
| ı | | | HSD | | | | | 95.57 | | | | | | 00.0 | | | |
| 6 | Danie anto | ≤5% | CDMA | | | | | 95.57 | | 1.1 | | | | 98.9 | | | |
| 8 | Drop rate : | ≥ 3% | All Generations 2G (GSM) | 1.7 | 0.8 | | 0.85 | 0.26 | | 1.1 | 2.67 | | | | | | |
| ĺ | | | 2G (GSM) 3G | 1.7 | 0.8 | | 0.85 | 0.26 | | | 2.67 | | | | | | |
| | | | HSD | 1.49 | 0.8 | | | 0.89 | | | | | | | | | |
| 1 | | | CDMA | | | | | 1.74 | | | | | | 1 | | | |
| | 1 | | CDIVIA | | | | | 1.74 | | | | | | | | | |

| Si No | l. Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadra |
|----------|----------------------------------|--|----------------------------|--------|--------|------|-------|---------------------|-----|---------------------|-----------------|-----------|------|-----|----------|------|--------|
| | | | | | | | | | | | | | | | | | |
| 1 | | Within 4 hrs with 95% success rate. | All Generations | 99.98 | | | 100 | 100 | | 99 | 98.76 | 100 | | | | | |
| 2 | 2 Successful data transmission | >80% | All Generations | 100 | | | | | | 100 | | 100 | | | | | |
| | download attempts | | 2G (GSM) | | 95.6 | | 100 | 99.97 | | | 100 | | | | | | |
| | | | 3G | | | | 99.91 | | | | 99.92 | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| L | | | CDMA | | | | | 100 | | | | | | | | | |
| 3 | 3 Successful data transmission | >75% | All Generations | 100 | | | | | | 100 | | 100 | | | | | |
| | upload attempts | | 2G (GSM) | | 99 | | 100 | 100 | | | 99.83 | | | | | | |
| | | | 3G | | | | 99.35 | 00.00 | | | 99.26 | | | | | | |
| | | | HSD | | | | | 99.82 | | | | | | | | | |
| L, | 4 26' : 1 1 1 1 | m 1 1 C | CDMA | | | | | 99.89 | | 45 (D) (| | | | | | | |
| 4 | | To be measured for each Plan and | CDMA | | | | | 68.44 (RNC_PayG) | | 45 (Photon Whiz) | | | | | | | |
| | (Kbps) | Reported to TRAI | | | | | | (RNC_PayG) | | 330 (Photon | | | | | | | |
| | | Reported to TRAI | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 60.32 | 86 | | 112 | 66.65 | | 79 (EDGE) | 61.95 (Rs. 599 | 42.63 | | | | | |
| | | | 20 | 00.02 | 00 | | 112 | (RNC_PayG) | | 15 (2202) | unlimited 2G | | | | | | |
| | | | | | | | | (| | | Data Plan) | | | | | | |
| | | | 3G | | | | 2391 | | | | 1928 (Unlimited | | | | | | |
| | | | | | | | | | | | 2G & 3G Data | | | | | | |
| | | | | | | | | | | | Plan) | | | | | | |
| | | | | | | | | | | | , | | | | | | |
| | | | | | | | | | | 1390 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | HSD | | | | | 603.17 | | | | | | | | | |
| 5 | | >75% of the | CDMA | | | | | 110.19 | | 65 (Photon | | | | | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | | | | | | | | 971 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 108.21 | 172 | | 157 | 134.25 | | 132 (EDGE) | 136.8 (Rs. 599 | | | | | | |
| | | | | | | | | (RNC_PayG) | | | unlimited 2G | | | | | | |
| | | | | | | | | | | | Data Plan) | | | | | | |
| | | | 3G | | | | 4511 | | | | 2723.67 | | | | | | |
| | | | | | | | | | | | (Unlimited 2G & | | | | | | |
| | | | | | | | | | | | 3G Data Plan) | | | | | | |
| | | | | | | | | | | 0106 (PI 4 | | | | | | | |
| | | | | | | | | | | 2126 (Photon 3G) | | | | | | | |
| | | | HSD | | | | | 984.22 | | 30) | | | | | | | |
| - | 5 Latency | Data <250ms | All Generations | | | | | 907.22 | | 85 | | 182 | | | | | |
| ľ | - Laconey | 200ms | 2G (GSM) | 115.67 | 246 | | 81 | 138.71 | | 00 | 159.72 | | | | | | |
| ı | | | 3G | 110.07 | 270 | | 106 | 100.71 | | | 60.63 | | | | | | |
| ı | | | HSD | | | | 100 | 43.87 | | | 50.00 | | | | | | |
| 1 | | | CDMA | | | | | 164.33 | | | | | | | | | |
| 7 | 7 PDP Context Activation Success | ≥95% | All Generations | | | | | 2200 | | 98 | | 99.05 | | | | | |
| 1 | Rate | | 2G (GSM) | 96.63 | 99.3 | | 100 | 99.91 | | | 99.21 | | | | | | |
| l | | | 3G | | | | 100 | | | | 98.6 | | | | | | |
| ı | | | HSD | | | | | 98.06 | | | | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | | | | |
| 8 | B Drop rate : | ≤5% | All Generations | | | | | | | 1.8 | | 4.27 | | | | | |
| 1 | | | 2G (GSM) | 1.71 | 2.7 | | 1.26 | 1.44 | | | 0.82 | | | | | | |
| ı | | | 3G | | | | 1.77 | | | | 0.3 | | | | | | |
| ı | | | HSD | | | | | 1.04 | | | | | | | | | |
| | | | CDMA | | | | | 0.11 | | | | | | | | | |

| S1. | Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|-----|---|--|----------------------------|--------|--------|------|-------|------------|------------|--------------|---------------|-----------|------|-----|----------|------|---------|
| 1 | Service Activation /Provisioning | Within 4 hrs with 95% success rate. | All Generations | 94.2 | | | 100 | 98.5 | 100 | 90 | 96.94 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 89.6 | | | | | | 100 | | | | | 99.54 | | |
| | download attempts | | 2G (GSM) | | 98.8 | | 99.56 | | 100 | | 98.6 | | | | | | |
| | P. C. | | 3G | | | | 100 | | 100 | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 88.53 | | | | | | 100 | | | | | 99.5 | | |
| | upload attempts | | 2G (GSM) | | 98.4 | | 100 | | 100 | | 97.28 | | | | | | |
| | | | 3G | | | | 100 | | 100 | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 68.17 | | 48 (Photon | | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 584 (Photon | | | | | | | |
| | | - | | | | | | | | Plus) | | | | | | | |
| | | | 2G | 82.97 | 91 | | 72 | | 71.47 | 44 (EDGE) | 60.19 | | | | 25 | | |
| | | | | | | | | | (RNC_PayG) | | (MBB_C_V_199_ | | | | | | |
| | | | | | | | | | | | 30d_D2GB_FU_2 | | | | | | |
| | | | | | | | | | | | G) | | | | | | |
| | | | 3G | | | | 1837 | | 1787.29 | | | | | | | | |
| | | | | | | | | | | 1073 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | HSD | | | | | 654.43 | | | | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 93.65 | | 69 (Photon | | | | | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | | | | | | | | 1137 (Photon | | | | | | | |
| | Average Throughput for Packet data (Kbps) | | | | | | | | | Plus) | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | 2G | 115.08 | 129 | | 134 | | 128.49 | 100 (EDGE) | | | | | 135 | | |
| | | | | | | | | | (RNC_PayG) | | (MBB_C_V_199_ | | | | | | |
| | | | | | | | | | | | 30d_D2GB_FU_2 | | | | | | |
| | | | | | | | | | | | G) | | | | | | |
| | | | 3G | | | | 3510 | | 3298.24 | | | | | | | | |
| | | | | | | | | | | 2178 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | HSD | | | | | 870.23 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 86.1 | | | | | 229 | | |
| | | | 2G (GSM) | 123.67 | 120 | | 128 | | 144.17 | | 153.56 | | | | | | |
| | | | 3G | | | | 124 | | 85.33 | | | | | | | | |
| | | | HSD | | | | | 58.4 | | | | | | | | | |
| | | 0.50/ | CDMA | | | | | 237 | | | | | | | | | |
| 7 | PDP Context Activation Success | ≥95% | All Generations | | | | | | | 98.4 | | | | | 98.42 | | |
| | Rate | | 2G (GSM) | 96.63 | 99.5 | | 99.45 | | 99.87 | | 99.86 | | | | | | |
| | | | 3G | | | | 96.91 | | 98.91 | | | | | | | | |
| | | | HSD | | | | | 97.53 | | | | | | | | | |
| | | | CDMA | | | | | 97.53 | | | | | | | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 1.4 | | | | | 1.83 | | |
| | | | 2G (GSM) | 2.09 | 2.5 | | 1.05 | | 4.34 | | 2.31 | | | | | | |
| | | | 3G | | | | 1.39 | | 1.02 | | | | | | | | |
| | | | HSD | | | | | 0.71 | | | | | | | | | |
| | | | CDMA | | | | | 0.49 | | | | | | | | | |

| S1. No. | Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrar |
|------------|-----------------------------------|--|----------------------------|--------|--------|------|--------|-------------|-----|--------------|-------------|-----------|--------|-----|----------|-------|---------|
| 1 | Service Activation / Provisioning | Within 4 hrs with 95% success rate. | All Generations | 99.88 | 100 | | 100 | 99.67 | | 96 | 99.38 | | 90.61 | | | 97.11 | |
| 2 | Successful data transmission | >80% | All Generations | 99.04 | | | | | | 100 | | | | | | 95.98 | |
| | download attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 96.88 | | 95.99 | | | | |
| | | | 3G | | 100 | | | 100 | | | 7 7 7 7 7 | | 99.89 | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | 97.66 | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 99.26 | | | | | | 100 | | | | | | 94.31 | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 94.21 | | 99.92 | | | | |
| | aproduction pro- | | 3G | | 100 | | | 100 | | | 7.1.5 | | 99.92 | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | 97.36 | | | | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 88.91 | | 56 (Photon | 2.100 | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | (MSPS) | Reported to TRAI | | | | | | (rave_raya) | | 648 (Photon | | | | | | | |
| | | reported to Truit | | | | | | | | Plus) | | | | | | | |
| | | | | | | | | | | 798 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 67.73 | 110 | | 65 | 99.74 | | 81 (EDGE) | 157.94 | | 32.58 | | | 76.1 | |
| | | | | | | | | (RNC_PayG) | | () | (VMC699UL) | | | | | | |
| | | | 3G | | 2399 | | | 3346.93 | | | 1795.68 (MI | | 575.94 | | | | |
| | | | | | 2033 | | | 00.0.50 | | | 8GB) | | 0.0.5. | | | | |
| | | | HSD | | | | | 661.01 | | | OGD) | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 107.86 | | 76 (Photon | | | | | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | data (Hopo) | ousserised opeca. | | | | | | (rave_raya) | | 956 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | | | | | | | | 1429 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 133.75 | 189 | | 117 | 163.12 | | 113 (EDGE) | 185.83 | | 52.59 | | | 175.4 | |
| | | | | | | | | (RNC_PayG) | | () | (VMC699UL) | | | | | | |
| | | | 3G | | 5162 | | | 3684.61 | | | 3818.19 | | 840.69 | | | | |
| | | | | | | | | | | | (MI 8GB) | | | | | | |
| | | | | | | | | | | | (III CGD) | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | HSD | | | | | 1006.53 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 110.36 | | | | | | | |
| - | | | 2G (GSM) | 147.09 | 103 | | 95 | 109.9 | | 111.00 | 62.83 | | | | | | |
| | | | 3G | 255 | 24 | | | 23.95 | | | 18.167 | | 152.95 | | | | |
| | | | HSD | | 3. | | | 35.87 | | | 22.207 | | | | | | |
| | | | CDMA | | | | | 139 | | | | | | | | | |
| 7 | PDP Context Activation Success | ≥95% | All Generations | | | | | - | | 97.56 | | | 99.97 | | | 96.19 | |
| | Rate | | 2G (GSM) | 96.63 | 99.4 | | 99.99 | 99.91 | | | 97.31 | | | | | | |
| | | | 3G | | 100 | | | 99.5 | | | 98.72 | | | | | | |
| | | | HSD | | - 30 | | | 98.06 | | | - 3.7.2 | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | | | | |
| 8 | Drop rate : | | All Generations | | | | | 30.00 | | 1.62 | | | 2.38 | | | 3.8 | |
| _ | p | | 2G (GSM) | 0.91 | 2.6 | | 1.44 | 2.81 | | 1.02 | 3.41 | | 2.00 | | | 3.0 | |
| | | ≤5% | 3G | 5.51 | 0.2 | | 21.7.1 | 0.99 | | | 0.69 | | | | | | |
| | | | HSD | | 5.2 | | | 0.51 | | | 3.05 | | | | | | |
| | | | CDMA | | | | | 0.16 | | | | | | | | | |
| | | 1 | CDMM | | | | | 0.10 | | | | | | | | | |

| ē | S1. 1 | Parameters | Benchmarks | Generations/ | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|-------------|-------|-----------------------------------|---|-----------------|-----------------|------------|------|-------|--------------|---------------------|--------------|-----------------------|-----------|------|-----|----------|------|----------|
| N | No. | | | Technology | | | | | | | | | | | | | | |
| | 1 5 | Service Activation / Provisioning | | All Generations | 99.81 | 97 | | 99.99 | | 100 | | 99.95 | | | | | | |
| ιL | | | 95% success rate. | | | | | | | | | | | | | | | |
| <i>i</i> 1' | | | >80% | All Generations | 100 | | | | | | | | | | | | | |
| 1 | C | download attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.5 | | | | | | |
| i I | | | | 3G | | 100 | | | | 100 | | | | | | | | |
| ıL | | | | CDMA | | | | | | | | | | | | | | |
| 1 | | | >75% | All Generations | 100 | | | | | | | | | | | | | |
| 1 | ι | upload attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.35 | | | | | | |
| st _ | | | n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3G | 100.44 | 100 133 | | 80 | | 100 | | 100.00 /0.1 | | | | | | |
| North East | | | To be measured for each Plan and | 2G | 108.44 | 133 | | 80 | | 46.13 | | 102.88 (Pack @699) | | | | | | |
| 书 | (| | Reported to TRAI | 3G | 2637.96 | 1419 | | | | (RNC_PayG) 819.6 | | @699) | | | | | | |
| Š. | E . | | >75% of the | 2G | 157.77 | 1419 | | 126 | | 103.10 | | 150.99 (Pack | | | | | | |
| 1 1 | | | subscribed speed. | 2G | 137.77 | 179 | | 120 | | (RNC_PayG) | | (699) (#ack | | | | | | |
| 1 | (| data (Kops) | subscribed speed. | 3G | 4216.2 | 2536 | | | | 1397.7 | | (0099) | | | | | | |
| | 6 1 | Latency | Data <250ms | 2G (GSM) | 124.33 | 242 | | 105 | | 227.57 | | 235 | | | | | | |
| | ٠, | 240000 | 200ms | 3G | 32.5 | 38 | | 100 | | 83.69 | | 255 | | | | | | |
| | 7 1 | PDP Context Activation Success | ≥95% | 2G (GSM) | 99.96 | 99.6 | | 99.68 | | 99.94 | | 98.13 | | | | | | |
| 1 | | Rate | | 3G | 99.96 | 100 | | 77.00 | | 98.78 | | | | | | | | |
| , I | | | ≤5% | 2G (GSM) | 1.19 | 1.8 | | 0.18 | | 4.57 | | 2.48 | | | | | | |
| 1 | | • | | 3G ` | 0.94 | 0.7 | | | | 0.86 | | | | | | | | |
| | 1 5 | Service Activation /Provisioning | Within 4 hrs with | All Generations | 99.88 | | | 99.97 | 95 | 100 | 97 | 100 | | | | | | |
| 1 | | | 95% success rate. | | | | | | | | | | | | | | | |
| ı l | 2 8 | Successful data transmission | >80% | All Generations | 100 | | | | | | 100 | | | | | | | |
| i I | c | download attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 99.92 | | | | | | |
| i I | | | | 3G | | | | | | 100 | | | | | | | | |
| ιL | | | | CDMA | | | | | 100 | | | | | | | | | |
| 1 | | | >75% | All Generations | 100 | | | | | | 100 | | | | | | | |
| i I | ι | upload attempts | | 2G (GSM) | | 100 | | 100 | | 100 | | 94.28 | | | | | | |
| i I | | | | 3G | | | | | 100 | 100 | | | | | | | | |
| ı F | 4 7 | 36 1 1 1 1 | n 1 1 c | CDMA | | | | | 100 64.78 | | 60 (Photon | | | | | | | |
| | | | Fo be measured for each Plan and | CDMA | | | | | 9RNC_PayG) | | Whiz) | | | | | | | |
| i I | , | | Reported to TRAI | | | | | | 9RNC_PayG) | | 898 (Photon | | | | | | | |
| i I | | | Reported to TRAI | | | | | | | | Plus) | | | | | | | |
| i I | | | | 2G | 80.79 | 108 | | 84 | | 85.39 | 58 (EDGE) | 64.19 (Plan- | | | | | | |
| i I | | | | 20 | 00.75 | 100 | | " | | (RNC_PayG) | oo (BDGB) | 99 1GB) | | | | | | |
| i I | | | | 3G | 2314.24 | | | | | 1181 | | | | | | | | |
| . ≰ - | 5 / | Average Throughput for Packet | >75% of the | CDMA | | | | | 84.33 | | 68 (Photon | | | | | | | |
| iš | (| data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| ORISSA | | , - , | | | | | | | | | 1329 (Photon | | | | | | | |
| i I | | | | | | | | | | | Plus) | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | |
| i I | | | | 2G | 126.77 | 150 | | 131 | | 128.65 | 85 (EDGE) | 120.82 (Plan- | | | | | | |
| i I | | | | | | | | | | (RNC_PayG) | | 99_1GB) | | | | | | |
| ı L | | | | 3G | 3215.36 | | | | | 2379 | | | | | | | | |
| <i>i</i> I' | 6 | Latency | Data <250ms | All Generations | 110.40 | 105 | | 100 | | 100.15 | 122.06 | 105.57 | | | | | | |
| | | | | 2G (GSM) 3G | 118.42 66.83 | 106 | | 188 | | 130.17 60.83 | | 126.67 | | | | | | |
| | | | | CDMA | 00.83 | | | | 117 | 00.83 | | | | | | | | |
| <i>i</i> | 7 1 | PDP Context Activation Success | ≥95% | All Generations | | | | | 117 | | 98.15 | | | | | | | |
| | | Rate | | 2G (GSM) | 99.92 | 99.7 | | 99.5 | | 99.9 | 90.13 | 99.64 | | | | | | |
| | ľ | | | 3G | 99.92 | 22.1 | | 99.0 | | 98.94 | | 55.04 | | | | | | |
| | | | | CDMA | 22.92 | | | | 98.06 | 50.94 | | | | | | | | |
| | 8 1 | Drop rate : | ≤5% | All Generations | | | | | 55.00 | | 0.44 | | | | | | | |
| | _ | - F | | 2G (GSM) | 0.73 | 2 | | 1.93 | | 1.88 | 2 | 2.69 | | | | | | |
| | | | | 3G | 0.6 | | | | | 0.76 | | | | | | | | |
| 1 | - 1 | | | | | | | | | | | | | | | | | |

| S1. No | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|-----------|----------------------------------|--|----------------------------|---------|--------|------|-------|---------------------|-----|--------------------|----------------------------|-----------|------|-----|----------|------|---------|
| 1 | Service Activation /Provisioning | Within 4 hrs with 95% success rate. | All Generations | 99.88 | | | 100 | 99.9 | | 97 | 98.68 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 99.95 | | | | | | 100 | | | | | | | 97.2 |
| | download attempts | 20070 | 2G (GSM) | 99.93 | 100 | | 100 | 100 | | 100 | 100 | | | | | | 31.2 |
| | download attempts | | 3G | | 100 | | 100 | 100 | | | 100 | | | | | | |
| | | | HSD | | | | 100 | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 99.89 | | | | | | 100 | | | | | | | 96.7 |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 100 | | | | | | |
| | | | 3G | | | | 100 | 100 | | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 4 | | To be measured for | CDMA | | | | | 108.40 | | 53 (Photon | | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 356 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | | | | | | | | 1364 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 84.07 | 38 | | 111 | (RNC_PayG) | | 26 (EDGE) | 130.99 (Unlimited@ 199) | | | | | | 11 |
| | | | 3G | 2201.94 | | | 2587 | 1370.8 (5GB UL) | | 822 (Photon 3G) | | | | | | | |
| | | | | | | | | (SGB_UL) | | 1055 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | | | | | | | | 3210 (Photon | | | | | | | |
| | | | HSD | | | | | 837.1 | | 3G+) | | | | | | | |
| - | Average Throughput for Packet | >75% of the | CDMA | | | | | 120.60 | | 77 (Photon | | | | | | | |
| 1 | data (Kbps) | subscribed speed. | CDMA | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | data (Ropo) | subscribed speed. | | | | | | (Idve_raye) | | 862 (Photon | | | | | | | |
| 5 | | | | | | | | | | Plus) | | | | | | | |
| 1 | | | | | | | | | | 2240 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | |
| | | | 2G | 118.29 | 155 | | 161 | 140.8 (RNC_PayG) | | 57 (EDGE) | 157.9 (Unlimited@ 199 | | | | | | 149 |
| | | | 3G | 3020.18 | | | 3902 | 2524.8 | | 1494 (Photon | | | | | | | |
| | | | 30 | 3020.16 | | | 3902 | (5GB_UL) | | 3G) | | | | | | | |
| | | | | | | | | (SGD_OL) | | 2017 (Photon | | | | | | | |
| | | | | | | | | | | 3G) | | | | | | | |
| | | | | | | | | | | 4957 (Photon | | | | | | | |
| | | | | | | | | | | 3G+) | | | | | | | |
| L | | | HSD | | | | | 1276.6 | | i i | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 77 | | | | | | | 243 |
| | | | 2G (GSM) | 122.1 | 200 | | 125 | 197 | | | 86.27 | | | | | | |
| | | | 3G | 60.93 | | | 89 | 35 | | | | | | | | | |
| | | | HSD | | | | | 58 | | | | | | | | | |
| L | IPPR G | >OE0/ | CDMA | | | | | 193 | | | | | | | | | 00.5 |
| 7 | PDP Context Activation Success | 295% | All Generations | 00.00 | | | 66.7 | 00.55 | | 98 | 00 | | | | | | 98.1 |
| | Rate | | 2G (GSM) | 99.28 | 99.7 | | 99.74 | 99.98 | | | 99.87 | | | | | | |
| | | | 3G HSD | 99.28 | | | 98.44 | 99.26 98.06 | | | | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | | | | |
| 9 | Drop rate : | ≤5% | All Generations | | | | | 90.06 | | 2.3 | | | | | | | 1.7 |
| 0 | Diop rate. | ≥∪ /0 | 2G (GSM) | 0.99 | 0.9 | | 1.61 | 1.89 | | 2.3 | 1.72 | | | | | | 1.7 |
| | | | 3G | 1.18 | 0.9 | | 0.43 | 0.49 | | | 1.72 | | | | | | |
| | | | HSD | 1.10 | | | 0.73 | 0.49 | | | | | | | | | |
| | | | | | | | | 0.77 | | | | | | | | | |

| S1 No | Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | ТАТА | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadrant |
|----------|---|--|----------------------------|--------|--------|------|-------|----------------------|-----|-----------------------|--|-----------|------|------------------------|----------|------|----------|
| 1 | Service Activation /Provisioning | Within 4 hrs with 95% success rate. | All Generations | 99.86 | 98 | | 100 | 99.33 | | 99 | 99.88 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 99.34 | | | | | | 100 | | | | | | | |
| | download attempts | | 2G (GSM) | | 100 | | 100 | 99.17 | | | 100 | | | | | | |
| | | | 3G | | 100 | | | 100 | | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 3 | Successful data transmission | >75% | All Generations | 97.57 | | | | | | 100 | | | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 98.58 | | | 100 | | | | | | |
| | aproad attempts | | 3G | | 100 | | 100 | 100 | | | 100 | | | | | | |
| | | | HSD | | 100 | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 72.73 | | 66 (Photon | | | | 826 (Mblaze) | | | |
| 1 4 | | each Plan and | CDIVIA | | | | | (RNC_PayG) | | Whiz) | | | | 620 (WDIaze) | | | |
| | (Kbps) | | | | | | | (RNC_PayG) | | 730 (Photon | | | | 1320 (Mblaze | | | |
| | | Reported to TRAI | | | | | | | | | | | | | | | |
| | | | 20 | 60.01 | F.1 | | 116 | 68.27 | | Plus) | 110.70 | | | Ultra) | | | |
| | | | 2G | 60.81 | 51 | | 116 | (RNC_PayG) | | 92 (EDGE) | 118.72 (Unlimited GB (VL+VMC)@599) | | | | | | |
| | | | 3G | | 200 | | | 1809.55 (5GB_UL) | | | | | | | | | |
| | | | HSD | | | | | 670.64 | | | | | | | | | |
| 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 109.45 | | 82 (Photon | | | | 1559 (Mblaze) | | | |
| 9 | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| KADAS | Average Throughput for Packet data (Kbps) | | | | | | | | | 1084 (Photon Plus) | | | | 2910 (Mblaze Ultra) | | | |
| | | | 2G | 143.45 | 112 | | 154 | 112.92 (RNC_PayG) | | 122 (EDGE) | 173.49 (Unlimited GB (VL+VMC)@599) | | | | | | |
| | | | 3G | | 2078 | | | 2479.55 | | | | | | | | | |
| | | | | | 20.0 | | | (5GB_UL) | | | | | | | | | |
| | | | HSD | | | | | 907.15 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | 907.13 | | 96 | | | | | | | |
| 1 6 | Latericy | Data \230III8 | 2G (GSM) | 111.34 | 201 | | 105 | 238 | | 96 | 127.67 | | | | | | |
| | | | 3G | 111.34 | 126 | | 105 | 55 | | | 127.07 | | | | | | |
| | | | HSD | | 126 | | | | | | | | | | | | |
| | | | CDMA | | | | | 63 187 | | | | | | 00 | | | |
| | DDD Contest Astination C | ≥95% | | | | | | 187 | | 00 | | | | 80 | | | |
| 7 | PDP Context Activation Success | £30/0 | All Generations | 00.05 | 00.0 | | 00.07 | 07.15 | | 98 | | | | | | | |
| | Rate | | 2G (GSM) | 99.26 | 99.3 | | 99.07 | 97.15 | | | 99.83 | | | | | | |
| | | | 3G | | 99.1 | | | 98.85 | | | | | | | | | |
| | | | HSD | | | | | 98.06 | | | | | | | | | |
| | | | CDMA | | | | | 98.06 | | | | | | 98.7 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 1.6 | | | | | | | |
| | | | 2G (GSM) | 1.02 | 1.2 | | 0.18 | 1.92 | | | 2.91 | | | | | | |
| | | | 3G | | 0.8 | | | 0.92 | | | | | | | | | |
| | | | HSD | | | | | 0.31 | | | | | | | | | |
| | | | CDMA | | | | | 0.56 | | | | | | 1 | | | |

| No. | Parameters . | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|-----|----------------------------------|--|----------------------------|---------|--------|------|-------|------------|-----|----------------------|--------------------------------|-----------|------|---------------|----------|------|---------|
| 1 | Service Activation /Provisioning | Within 4 hrs with 95% success rate. | All Generations | 99.53 | 100 | | 100 | 97 | | 99 | 99.99 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | 100 | | | | | | | |
| - | download attempts | . 0070 | 2G (GSM) | 100 | 100 | | 100 | 99.72 | | 100 | 100 | | | | | | _ |
| | download attempts | | 3G | | 100 | | 100 | 33.12 | | | 100 | | | | | | + |
| | | | HSD | | 100 | | | 99.91 | | | 100 | | | | | | + |
| | | | CDMA | | | | | 100 | | | | | | 100 | | | + |
| | Successful data transmission | >75% | All Generations | | | | | 100 | | 100 | | | | 100 | | | 4 |
| 3 | | >13% | | 100 | 100 | | 100 | 00.75 | | 100 | 100 | | | | | | 4 |
| | upload attempts | | 2G (GSM) | 100 | 100 | | 100 | 99.75 | | | 100 | | | | | | 4 |
| | | | 3G | | 100 | | | | | | 100 | | | | | | 4 |
| | | | HSD | | | | | 99.91 | | | | | | | | | 4 |
| | | | CDMA | | | | | 99.91 | | | | | | 100 | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 59.83 | | 33 (Photon | | | | 813 (Mblaze) | | | A |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | A . |
| | | Reported to TRAI | | | | | | | | 273 (Photon | | | | 1162 (Mblaze | | | |
| | | _ | | | | | | | | Plus) | | | | Ultra) | | | A |
| | | | | | | | | | | 656 (Photon | | | | | | | |
| | | | | | | | | | | Max) | | | | | | | A . |
| | | | 2G | 85 | 107 | | 92 | 71.63 | | 38 (EDGE) | 107.52 (199 | | | | | | 1 |
| | | | | | | | | (RNC_PayG) | | | Unlimited 2GB) | | | | | | |
| | | | 3G | 1194.67 | 1544 | | | | | | 1446.67 (650 Unlimited 3GB) | | | | | | |
| | | | HSD | | | | | 514.79 | | | | | | | | | |
| | Average Throughput for Packet | >75% of the | CDMA | | | | | 97.11 | | 64 (Photon | | | | 1034 (Mblaze) | | | |
| | data (Kbps) | subscribed speed. | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | | | | | | | | | 865 (Photon | | | | 1396 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | A |
| | | | | | | | | | | 1286 (Photon Max) | | | | | | | |
| | | | 2G | 133.33 | 154 | | 137 | 144.94 | | 89 (EDGE) | 140.18 (199 | | | | | | _ |
| | | | | | | | | (RNC_PayG) | | 37 (22 22) | Unlimited 2GB) | | | | | | |
| | | | 3G | 3177.81 | 2434 | | | | | | 3000 (650 | | | | | | _ |
| | | | | 0177.01 | 2.0. | | | | | | Unlimited 3GB) | | | | | | |
| | | | HSD | | | | | 937.89 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 108.29 | | | | | | | |
| , | | | 2G (GSM) | 116.33 | 222 | | 115 | 112.57 | | 100.29 | 259 | | | | | | _ |
| | | | 3G | 36.67 | 48 | | 110 | 112.57 | | | 209 | | | | | | - |
| | | | HSD | 30.07 | +0 | | | 46.58 | | | | | | | | | _ |
| | | | CDMA | | | | | 154.7 | | | 69.67 | | | 50 | | | 4 |
| -7 | DDD Content Actions C | >050/ | | | | | | 154.7 | | 00.14 | 09.67 | | | 50 | | | _ |
| 7 | PDP Context Activation Success | ≥95% | All Generations | 05.77 | 1.5 | | 20.5 | 00.71 | | 98.14 | | | | | | | |
| | Rate | | 2G (GSM) | 96.63 | 100 | | 99.64 | 99.91 | | | 99.8 | | | | | | 4 |
| | | | 3G | 96.63 | 100 | | | | | | 99.81 | | | | | | 4 |
| | | | HSD | | | | | 97.53 | | | | | | | | | |
| | | | CDMA | | | | | 97.53 | | | | | | 99.4 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 0.97 | | | | | | | 4 |
| | | | 2G (GSM) | 0.59 | 0.5 | | 1.37 | 0.59 | | | 3.74 | | | | | | |
| | | | 3G | 1.2 | 0.2 | | | | | | 0.64 | | | | | | |
| | | 1 | HSD | | | | | 1.2 | | | | | | | | | |
| | | | HSD | | | | | | | | | | | | | | |

| SI No | l. Parameters | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|----------|----------------------------------|--------------------|----------------------------|---------|--------|------|-------|---------------|-----|-----------------|-----------------|-----------|------|-----|----------|------|---------|
| | | | | | | | | | | | | | | | | | |
| 1 | Service Activation /Provisioning | | All Generations | 99.94 | | | 100 | 100 | | 95 | 99 | 100 | | | | | |
| | Successful data transmission | 95% success rate. | All Generations | 100 | | | | | | 100 | | 100 | | | | | |
| 4 | download attempts | >00% | 2G (GSM) | 100 | 100 | | 100 | 99.67 | | 100 | 99.25 | | | | | | |
| | download attempts | | 3G | | 100 | | 100 | 99.07 | | | 99.42 | | | | | | |
| | | | HSD | | | | 100 | 99.73 | | | 22.12 | | | | | | |
| | | | CDMA | | | | | 99.83 | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 98 | | | | 33.00 | | 100 | | 100 | | | | | |
| - | upload attempts | | 2G (GSM) | | 100 | | 100 | 99.54 | | | 98.52 | | | | | | |
| | T | | 3G | | | | 100 | | | | 99.41 | | | | | | |
| | | | HSD | | | | | 99.72 | | | | | | | | | |
| | | | CDMA | | | | | 99.56 | | | | | | | | | |
| 4 | Minimum download speed | To be measured for | CDMA | | | | | 81.89 | | 72.7 (Photon | | | | | | | |
| | (Kbps) | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| | | Reported to TRAI | | | | | | | | 486.7 (Photon | | | | | | | |
| | | | | | | | | | | Plus) | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 1052.3 | | | | | | | |
| | | | | | | | | | | (Photon Max) | | | | | | | |
| | | | 2G | 123 | 130 | | 118 | 72.51 | | 55.33 (EDGE) | 68.23 (Rs.1599 | | | | | | |
| | | | | | | | | (RNC_PayG) | | | 12GB Free) | | | | | | |
| | | | 3G | 1310.72 | | | 2308 | | | | 1450.15 | | | | | | |
| | | | | | | | | | | | (Rs.1599 12GB | | | | | | |
| | | | HSD | | | | | 552.48 | | | Free) | | | | | | |
| - 5 | Average Throughput for Packet | >75% of the | CDMA | | | | | 113.06 | | 79.9 (Photon | | | | | | | |
| ر | data (Kbps) | subscribed speed. | CDMA | | | | | (RNC_PayG) | | Whiz) | | | | | | | |
| 5 | data (Kops) | subscribed speed. | | | | | | (ICIVC_I ayu) | | 1210.27 | | | | | | | |
| 1 | | | | | | | | | | (Photon Plus) | | | | | | | |
| | | | | | | | | | | (i noton i ida) | | | | | | | |
| | | | | | | | | | | 1884.32 | | | | | | | |
| | | | | | | | | | | (Photon Max) | | | | | | | |
| | | | 2G | 186.33 | 159 | | 153 | 125.68 | | | 131.76 (Rs.1599 | 109.1 | | | | | |
| | | | | | | | | (RNC_PayG) | | , 1 | 12GB Free) | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | 3G | 3734.19 | | | 3497 | | | | 3333.24 | | | | | | |
| | | | | | | | | | | | (Rs.1599 12GB | | | | | | |
| | | | | | | | | | | | Free) | | | | | | |
| | | | HSD | | | | | 958.57 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 92.05 | | 120 | | | | | |
| 1 | | | 2G (GSM) | 159.67 | 230 | | 119 | 132.13 | | | 225.67 | | | | | | |
| 1 | | | 3G | 54.83 | | | 60 | | | | 63.33 | | | | | | |
| | | | HSD | | | | | 42.85 | | | | | | | | | |
| L | 1 DDD 0 | 0.50/ | CDMA | | | | | 151.7 | | 07.55 | | 00.57 | | | | | |
| 1 7 | PDP Context Activation Success | ≥95% | All Generations | 00.5 | 00.0 | | 00.00 | 07.5 | | 97.28 | 00.00 | 99.05 | | | | | |
| 1 | Rate | | 2G (GSM) | 99.6 | 99.8 | | 98.83 | 97.15 | | | 99.86 | | | | | | |
| 1 | | | 3G HSD | 99.6 | | | 99.05 | 98.06 | | | 99.72 | | | | | | |
| 1 | | | CDMA | | | | | 98.06 | | | | | | | | | |
| - | Drop rote : | ≤5% | All Generations | | | | | 96.06 | | 1.9 | | 4.4 | | | | | |
| l 8 | Drop rate : | ≥3 /0 | 2G (GSM) | 0.66 | 0.8 | | 0.99 | 2.39 | | 1.9 | 3.56 | | | | | | |
| | | | 3G (GSM) | 0.66 | 0.8 | | 2.24 | 2.39 | | | 0.66 | | | | | | |
| 1 | | | HSD | 0.4 | | | 2.24 | 0.78 | | | 0.00 | | | | | | |
| | | | CDMA | | | | | 0.78 | | | | | | | | | |
| | 1 | 1 | CDIVIA | | | | | 0.63 | | | | | | | | | |

| S1 No | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|----------------|--|-------------------------------|-----------------------------|--------|--------|------|-------|----------------------|-----|----------------------|--------------------------------|-----------|------|--------------|----------|------|---------|
| 1 | | | All Generations | 99.96 | 100 | | 100 | 98.6 | | 97 | 99.92 | 100 | | | | | |
| _ | | 95% success rate. | | | | | | | | | | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 98 | | | | | | 100 | | 100 | | 99.9 | | | |
| | download attempts | | 2G (GSM) | | 99.9 | | 100 | 100 | | | 100 | | | | | | |
| | | | 3G | | 87.2 | | 100 | | | | | | | | | | |
| | | | HSD | | | | | 100 | | | | | | | | | |
| | | | CDMA | | | | | 100 | | | | | | | | | |
| 3 | Successful data transmission | >75% | All Generations | 95.67 | | | | | | 100 | | 100 | | | | | |
| | upload attempts | | 2G (GSM) | | 100 | | 100 | 100 | | | 100 | | | | | | |
| | | | 3G | | 93.6 | | 100 | | | | | | | | | | |
| | | | HSD | | | | | 99.83 | | | | | | | | | |
| <u>.</u> | | | CDMA | | | | | 99.94 | | | | | | 99.7 | | | |
| 4 | | To be measured for | CDMA | | | | | 84.90 | | 57 (Photon | | | | 511 (Mblaze) | | | |
| | | each Plan and | | | | | | (RNC_PayG) | | Whiz) | | | | 070 071 | | | |
| | | Reported to TRAI | | | | | | | | 908 (Photon | | | | 878 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 1432 (Photon | | | | | | | |
| | | | 20 | ## 00 | 2.5 | | 101 | 111.05 | | Max) | 05 50 (050 1:1 | 00.4 | | | | | |
| | | | 2G | 75.83 | 36 | | 104 | 111.05 (RNC_PayG) | | 79 (EDGE) | 85.58 (250 with 1 GB data) | 82.4 | | | | | |
| | | | 3G | | 192 | | 2156 | | | 1469 (Photon 3G) | | | | | | | |
| | | | | | | | | | | 2483 (Photon 3G) | | | | | | | |
| | | | | | | | | | | 3686 (Photon 3G+) | | | | | | | |
| | | | HSD | | | | | 573.14 | | | | | | | | | |
| 5 | Average Throughput for Packet data (Kbps) | >75% of the subscribed speed. | CDMA | | | | | 111.19 (RNC_PayG | | 75 (Photon Whiz) | | | | 800 (Mblaze) | | | |
| | , - , | • | | | | | | | | 1538 (Photon | | | | 1446 (Mblaze | | | |
| | | | | | | | | | | Plus) | | | | Ultra) | | | |
| | | | | | | | | | | 2423 (Photon Max) | | | | | | | |
| | | | 2G | 142.05 | 133 | | 121 | 171.69 (RNC_PayG | | 109 (EDGE) | 148.96 (250 with 1 GB data) | | | | | | |
| | | | 3G | | 1071 | | 4455 | | | 1893 (Photon 3G) | | | | | | | |
| | | | | | | | | | | 3617 (Photon 3G) | | | | | | | |
| | | | | | | | | | | 5143 (Photon 3G+) | | | | | | | |
| <u> </u> | | | HSD | | | | | 884.35 | | | | | | | | | |
| 6 | Latency | Data <250ms | All Generations | | | | | | | 65.8 | | 114 | | | | | |
| l | | | 2G (GSM) | 142.78 | 196 | | 128 | 181.66 | | | 120 | | | | | | |
| | | | 3G HSD | | 56 | | 54 | 64.01 | | | | | | | | | |
| | | | | | | | | 64.04 | | | | | | | | | |
| _ | A DDD Comtont Asii ii C | >0E9/ | CDMA | | | | | 191.55 | | 00.1 | | 00.05 | | 64 | | | |
| 1 7 | PDP Context Activation Success | ∠9370 | All Generations 2G (GSM) | 91.49 | 100 | | 99.61 | 99.98 | | 98.4 | 99.86 | 99.05 | | | | | |
| | Rate | | | 91.49 | 100 | | 99.61 | 99.98 | | | 99.86 | | | | | | |
| | | | 3G HSD | | 100 | | 99.64 | 97.25 | | | | | | | | | |
| | | | CDMA | | | | | 97.25 | | | | | | 99 | | | |
| - 6 | B Drop rate : | ≤5% | All Generations | | | | | 91.25 | | 1.8 | | 3.1 | | 99 | | | |
| l ⁸ | Drop rate : | ≥3 /0 | 2G (GSM) | 0.52 | 0.6 | | 1.04 | 1.4 | | 1.8 | 3.49 | | | | | | |
| 1 | | | 3G (GSM) | 0.52 | 0.6 | | 2.45 | 1.4 | | | 3.49 | | | | | | |
| | | | HSD | | 0.5 | | 2.43 | 0.93 | | | | | | | | | |
| | | | | | | | | | | | | | | 0.0 | | | |
| | | | CDMA | | | | | 1.05 | | | | | | 0.9 | | | |

| S1. No. | | Benchmarks | Generations/ Technology | Aircel | Airtel | BSNL | Idea | RCL | RTL | TATA | Vodafone | Telewings | MTNL | MTS | Videocon | Loop | Quadran |
|------------|--------------------------------|--|----------------------------|---------|--------|------|-------|----------------------|----------------------|---------------------|-----------------------|-----------|------|------------------------|----------|------|---------|
| 1 | | Within 4 hrs with 95% success rate. | All Generations | 99.94 | | | 99.84 | 100 | 100 | 95 | 99.7 | | | | | | |
| 2 | Successful data transmission | >80% | All Generations | 100 | | | | | | 100 | | | | | | | |
| | download attempts | | 2G (GSM) | | | | 100 | | 99.17 | | 99.92 | | | | | | |
| | | | 3G | | | | | | 99.83 | | | | | | | | |
| | | | CDMA | | | | | 100 | | | 98.21 | | | 100 | | | |
| 3 | Successful data transmission | >75% | All Generations | 100 | | | | | | 100 | | | | | | | |
| | upload attempts | | 2G (GSM) | | | | 100 | | 99.39 | | 97.7 | | | | | | |
| | | | 3G | | | | | | 96.82 | | | | | | | | |
| | | | CDMA | | | | | 100 | | | 98.19 | | | 100 | | | |
| 4 | | To be measured for each Plan and | CDMA | | | | | 86.03 (RNC_PayG) | | 63 (Photon Whiz) | | | | 313 (Mblaze) | | | |
| | | Reported to TRAI | | | | | | \ , | | , | | | | 595 (Mblaze Ultra) | | | |
| | | | 2G | 42.62 | | | 92 | | 84.21 (RNC_PayG) | 68 (EDGE) | 62.54 (2GB Plan) | | | 33334 | | | |
| | | | 3G | 1797.71 | | | | | 1036.98 | | 1318.75 (5GB Plan) | | | | | | |
| 5 | | >75% of the subscribed speed. | CDMA | | | | | 126.92 (RNC PayG) | | 89 (Photon Whiz) | | | | 1194 (Mblaze) | | | |
| | | • | | | | | | \ , | | , | | | | 2244 (Mblaze Ultra) | | | |
| | | | 2G | 138.87 | | | 141 | | 156.17 (RNC_PayG) | 128 (EDGE) | 135.49 (2GB Plan) | | | | | | |
| | | | 3G | 3071.64 | | | | | 1876.52 | | 4691.68 (5GB Plan) | | | | | | |
| 6 | Latency | Data <250ms | All Generations | 126.67 | | | | | | 183.89 | | | | | | | |
| | | | 2G (GSM) | 32 | | | 193 | | 180.95 | | 106.83 | | | | | | |
| | | | 3G | | | | | | 32.62 | | 47.06 | | | | | | |
| | | | CDMA | | | | | 164.04 | | | | | | 70 | | | |
| 7 | PDP Context Activation Success | ≥95% | All Generations | | | | | | | 97.65 | | | | | | | |
| | Rate | | 2G (GSM) | 97.1 | | | 98.75 | | 99.9 | | 99.64 | | | | | | |
| | | | 3G | 97.1 | | | | | 98.94 | | 99.3 | | | | | | |
| | | | CDMA | | | | | 97.53 | | | | | | 97.8 | | | |
| 8 | Drop rate : | ≤5% | All Generations | | | | | | | 0.83 | | | | | | | |
| | | | 2G (GSM) | 1.01 | | | 0.99 | | NA | | 4.46 | | | | | | |
| | | | 3G | 0.97 | | | | | NA | | 0.81 | | | | | | |
| | | | CDMA | | | | | | | | | | | 1.2 | | | |

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective Service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.